CASTOR | 30 LET

OPHTHALMIC DISTRIBUTOR · SINCE 1996

CATALOGUE CASTOR 2027

Your distributor in ophthalmology

We equip eye practices, clinics and hospitals in the Czech Republic and Slovakia with instruments from leading manufacturers, from selection and installation to training and service.



30
years in business

30+
global brands

12
specialists on the team

ISO 13485
certified quality

CASTOR CZ, s.r.o. · www.castor.cz · info@castor.cz · +420 577 216 900

OPHTHALMIC DISTRIBUTOR · SINCE 1996

Your distributor in ophthalmology.

Since 1996 we have helped eye doctors deliver better care. We supply instruments, intraocular lenses and surgical equipment from leading manufacturers – and stand behind them long after installation.

30	30+	12	ISO 13485
years in business	global brands	specialists on the team	certified quality

WHAT WE DO FOR YOU

- Installation of new devices including user training
- Warranty and post-warranty repairs
- Periodic safety inspections (BTK)
- Spare-part replacement
- Device calibration
- Remote diagnostics
- Advice by phone or in person

WHY CASTOR

30 years of experience. Since 1996 we have equipped eye practices, clinics and hospitals in the Czech Republic and Slovakia.

Two years of free service. For new devices you pay only the engineer's travel for the first two years. Scheduled safety inspections, remote support and manufacturer-trained engineers.

ISO 13485 certified. Supply and servicing of medical devices managed to EN ISO 13485:2016.

People in your region. Sales representatives for Bohemia, Moravia & Silesia and Slovakia, application specialists and our own service team.

BRANDS IN THIS CATALOGUE

A.R.C. LASER · BERNELL · biotech access to innovation · BVI · DMD · espansione group
EXCEL-LENS · eyeol U.K. LIMITED · GLAUKOS TRANSFORMING VISION · GOOD-LITE OVER 90 YEARS OF VISION · Hongdee · HumanOptics
Inami OPHTHALMIC INSTRUMENTS · Keeler – A world without vision loss – · KINDLING BioEnergetik · LANG-STEREOTEST · madhu INNOVATING POSSIBILITIES · mdt MEDICAL DEVICES MANUFACTURER
MEDIN · natus · olleyes · optohellas · OPTOPOL technology · optos
PhysIOL ADVANCED IOL SOLUTIONS · POLLUX NOVA · Righton · RODENSTOCK · ROLAND CONSULT Electrophysiology and Imaging · RUMEX
smt · stolmik · SUOER · TRUSETAL medical · VISIONIX · VOLK

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Bio Fluoro

Sterile fluorescein sodium ophthalmic strips

Single-use sterile strips impregnated with 1 mg of fluorescein sodium (USP) for staining the anterior segment – when fitting contact lenses, to disclose corneal injury and in applanation tonometry.

HIGHLIGHTS

- 1.0 mg fluorescein sodium per strip
- Sterile, each strip individually packed
- For contact lens fitting, corneal injury and applanation tonometry
- No dropper bottle to open – lower contamination risk

TECHNICAL SPECIFICATIONS

Manufacturer	Biotech Healthcare (Biotech Vision Care Pvt. Ltd.)
Content	1.0 mg fluorescein sodium (USP) per strip
Pack size	100 individually packed sterile strips
Certification	CE marked
Medical device risk class	Class Is (sterile)



Bio Schirmer

Sterile Schirmer tear test strips

Single-use sterile strips of Whatman No. 41 filter paper for the Schirmer test, which measures tear production in dry eye assessment. A printed scale makes reading easy.

HIGHLIGHTS

- Whatman No. 41 filter paper
- Printed scale for easy reading
- Sterile, each strip individually packed
- Quick in-office dry eye test

TECHNICAL SPECIFICATIONS

Manufacturer	Biotech Healthcare (Biotech Vision Care Pvt. Ltd.)
Material	Whatman No. 41 filter paper
Pack size	100 individually packed sterile strips
Certification	CE marked
Medical device risk class	Class Is (sterile)



Bio Vision CTR

PMMA capsular tension ring (CTR)

A sterile non-optical implant – a semicircular ring of medical-grade PMMA with a UV filter and manipulation eyelets at both ends. It stabilises the periphery of the capsular bag when zonular support is weak and supports safe IOL centration.

HIGHLIGHTS

- Sizes CTR 11, 12 and 13 (11.0 / 12.0 / 13.0 mm) – for hyperopic, average and myopic eyes
- PMMA with UV filter, clear or blue (B)
- Eyelets at both ends for easy manipulation
- Indications: weak zonular support, pseudoexfoliation, traumatic zonular dialysis, phacodonesis, myopic eyes with IOL under 16 D
- Reduces the risk of capsular fibrosis and shrinkage

TECHNICAL SPECIFICATIONS

Manufacturer	Biotech Healthcare (Biotech Vision Care Pvt. Ltd.)
Material	medical-grade PMMA with UV filter (PMMA CQ-UV)
CTR 11	diameter 11.0 mm, insertion 9.7 mm – hyperopic eyes
CTR 12	diameter 12.0 mm, insertion 10.4 mm – average eyes
CTR 13	diameter 13.0 mm, insertion 11.4 mm – myopic eyes
Versions	clear, blue (B); 2 eyelets
Certification	CE marked
Medical device risk class	Class IIb



CAPSULBlue

Trypan blue 0.4% for staining the anterior capsule

Exclusive distributor for CZ & SK

Sterile trypan blue ophthalmic solution in a prefilled 0.15 ml syringe for temporary staining of the anterior lens capsule in anterior segment surgery. It improves visualisation for manual capsulorhexis and is the stain formulated for laser capsulotomy with CAPSULaser.

HIGHLIGHTS

- 0.4% trypan blue in a low 0.15 ml volume for a localised, intense stain
- Helps with capsulorhexis, phaco, in-the-bag IOL placement and mature cataracts without red reflex
- Also highlights paracentesis incisions
- The stain approved for use with CAPSULaser

TECHNICAL SPECIFICATIONS

Composition	Trypan blue ophthalmic solution 0.4%
Supply	Box of 10 prefilled 0.15 ml glass syringes
Sterilisation	Steam
Shelf life / storage	2 years, below 30 °C
Certification	CE marked
Medical device risk class	Class IIa



CAPSULGel 2%

HPMC 2% coupling and corneal protection gel

Exclusive distributor for CZ & SK

A highly purified, optically clear 2% hydroxypropyl methylcellulose gel. It forms the optical coupling between the cornea and the CAPSULaser patient interface and keeps the corneal epithelium coated and protected during all phases of cataract surgery.

HIGHLIGHTS

- Optical-grade, high-transmission coupling gel for CAPSULaser
- Coats and protects the corneal epithelium throughout surgery
- Dispersive, synthetic, latex free; no refrigeration needed
- Double sterilised (steam and ETO), with a 23 G cannula

TECHNICAL SPECIFICATIONS

Composition	Hydroxypropyl methylcellulose (HPMC) 2%, 20 mg/ml
Dynamic viscosity	2 600 – 7 000 mPa·s
Osmolality / pH	300–390 mOsm/kg; pH 6.8–7.5
Volume / cannula	2.0 ml syringe, 23 G cannula (single units)
Sterilisation	Double – steam and ETO; latex free
Shelf life / storage	3 years, 2–25 °C (no refrigeration)



Exophthalmometer K-0161 (Hertel)

Hertel exophthalmometer

Hertel-type exophthalmometer for measuring corneal protrusion: once the twin-prism vertical targets are aligned, the value is read directly in millimetres, free of parallax.

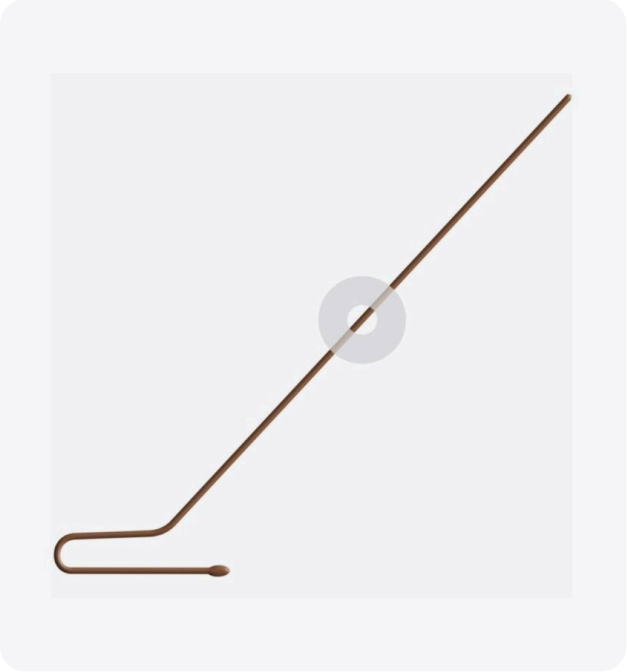
HIGHLIGHTS

- Twin-prism design for parallax-free readings of corneal protrusion
- Direct millimetre scale, protrusion range 0–35 mm
- Adjustable base for orbital-rim distances of 78–112 mm
- Lightweight 350 g instrument supplied in a carrying case
- CE marked under the MDR (class I)

TECHNICAL SPECIFICATIONS

Protrusion range	0–35 mm
Orbital-rim distance	78–112 mm
Measuring prism	39 mm, 10 mm thick
Dimensions	76 × 231 × 19 mm
Weight	350 g
Case	112 × 265 × 32 mm
Medical device risk class	Class I

Manufacturer brochure



Capsule Care

Capsule hooks – capsular bag support

Nylon hooks with an adjustable silicone lock for temporary support of the capsular bag in cataract surgery with weak zonules or a subluxated lens. The rounded tip supports a larger area, so fewer hooks are needed.

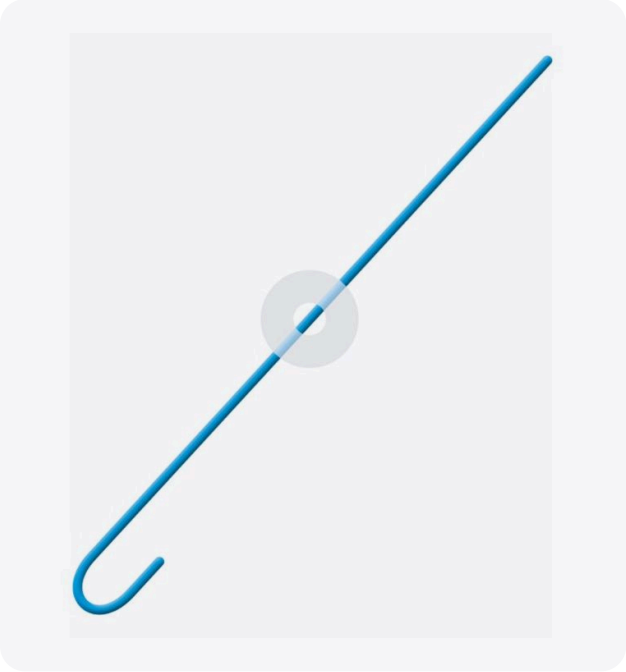
HIGHLIGHTS

- Hook angled into the plane of the anterior capsule
- Rounded tip protects the peripheral capsule and supports a larger area
- Silicone lock keeps the hook in place throughout surgery
- Keeps the capsule in position during phaco and reduces zonular stress during nucleus rotation

TECHNICAL SPECIFICATIONS

Manufacturer	Madhu Instruments, India
Material	nylon, silicone lock
Pack	5 pcs per box, sterile (code MIPL/D8)
Certification	CE marked

Manufacturer brochure



Iris Care

Flexible iris retractors

Flexible polypropylene hooks for temporary iris retraction during cataract surgery when the pupil cannot be dilated enough with drugs. An adjustable silicone stopper holds the hook and lets the surgeon set the pupil size.

HIGHLIGHTS

- Temporary pupil enlargement when drug dilation is insufficient
- Bright blue polypropylene – easy to see in the surgical field
- Adjustable silicone stopper for a firm hold and pupil-size adjustment
- Easy to insert and remove

TECHNICAL SPECIFICATIONS

Manufacturer	Madhu Instruments, India
Material	polypropylene (PP), silicone stopper
Pack	5 pcs per box, sterile (code MIPL/D1)
Certification	CE marked
Medical device risk class	Class IIa

Manufacturer brochure



PVA Sponge Spears

Sterile PVA sponge spears

Highly absorbent, particle-free PVA sponge spears for LASIK and other delicate ophthalmic procedures. The wide, firm tip also allows gentle tissue manipulation.

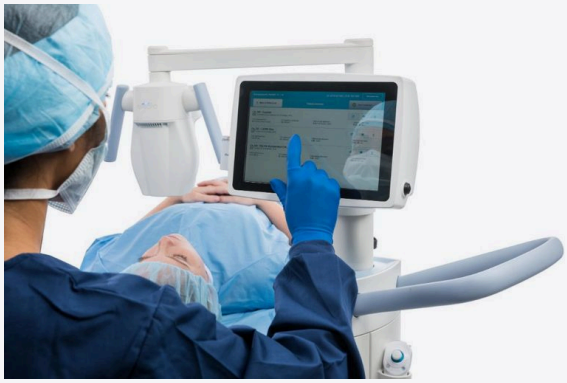
HIGHLIGHTS

- Very fast wicking
- Particle-free
- Wide, firm tip for tissue manipulation
- Moisture-proof packaging, gamma sterilised

TECHNICAL SPECIFICATIONS

Manufacturer	Madhu Instruments, India
Material	PVA
Pack	5 per foil, 50 foils per box = 250 pcs (code MIPL/B2/5)
Sterilisation	gamma
Certification	CE marked

Manufacturer brochure



KXL

Corneal cross-linking system (UVA)

Exclusive distributor for CZ & SK

A mobile, CE-marked Glaukos (Avedro) system that illuminates the cornea with UVA light during cross-linking to strengthen it – in keratoconus and in corneas weakened by refractive surgery, including the Lasik Xtra procedure. Up to 45 mW/cm² allows accelerated protocols; treatment is run from a touchscreen and a wireless remote.

HIGHLIGHTS

- Up to 45 mW/cm² for accelerated cross-linking
- Continuous and pulsed modes; 4 adjustable preset protocols + 1 user-defined
- 25.7 cm touchscreen and wireless remote for X, Y, Z adjustment during treatment
- Live camera for alignment and image capture; patient database and exportable treatment reports
- Mobile design with articulating arm and a battery for 16 hours of operation
- Consumables – Glaukos riboflavins in individual sterile syringes: VibeX Rapid (epi-off), ParaCel (epi-on, trans-epithelial), VibeX Xtra (Lasik Xtra) and the MedioCROSS range

TECHNICAL SPECIFICATIONS

Light source	UVA
Irradiance	up to 45 mW/cm²
Modes	epi-off, accelerated, pulsed, continuous; Lasik Xtra
Controls	25.7 cm touchscreen, wireless remote, RFID reader
Consumables	VibeX Rapid · ParaCel · VibeX Xtra · MedioCROSS (TE, M, D, H) – sterile syringes; per-patient disposables
Power	100–240 V AC, 50/60 Hz; battery 12 V / 35 Ah (approx. 16 h)
Interface	USB 2.0
Dimensions	max. 60 × 60 × 150 cm (L × W × H)
Operating conditions	15–40 °C, humidity 30–75 %
Medical device risk class	Class IIa

Volk Optical

Diagnostic, laser and surgical lenses, fundus cameras

Volk Optical, founded by Dr. David Volk in 1974 and based in Mentor, Ohio, is part of the Halma group. It makes diagnostic, laser and surgical lenses – many with its patented double-aspheric optics – in the USA and also offers portable fundus cameras.



DIAGNOSTIC LENSES

Digital Series
Third-generation slit-lamp lenses – Digital Wide Field, High Mag and 1.0x Imaging – made with high-index glass.

Super & Classic Series
Non-contact slit-lamp lenses, from the classic 60D, 78D and 90D to Super Field, Super 66 and SuperPupil XL.

BIO Lenses
Indirect ophthalmoscopy lenses such as 20D, 28D, Pan Retinal 2.2 and Macula Plus 5.5 for wide or magnified views.

Gonio Lenses
Hand-made all-glass G-series lenses plus 3-Mirror and Mini 4-Mirror for static, dynamic and indentation gonioscopy.

LASER LENSES

Retina Laser Lenses
PRP and posterior-pole laser lenses such as Super Quad 160, HR Wide Field and Area Centralis; Quad Pediatric for ROP.

Anterior & Mid-Vitreous Laser Lenses
Capsulotomy, iridotomy, SLT and Rapid SLT, suturelysis and mid-vitreous lenses for anterior-segment and vitreous laser.

Volk®1 Single-Use
Pre-sterilised single-use SLT, iridotomy, capsulotomy and 3- or 4-mirror gonio lenses – no reprocessing needed.

SURGICAL LENSES

Indirect Vitrectomy Lenses
Wide-angle lenses such as HRX Vit (up to 150°), Mini Quad XL and DynaView; self-stabilising and autoclavable options.

Direct Vitrectomy Lenses
Direct Image SSV and HR Direct lenses – flat, high-mag, prism and bi-concave – for central retinal surgery.

GonioPro Surgical Suite
Surgical gonio lens suite for MIGS with handle-mounted or hands-free stabilisation; single-use versions available.

PORTABLE FUNDUS CAMERAS

Volk Viva
Handheld non-mydriatic fundus camera that captures images through pupils as small as 3 mm.

VistaView
Smartphone-based mydriatic fundus camera for portable wide-field retinal imaging, with reports created in the app.

Ask us for specific models, specifications and prices.



eye-light

IPL and photobiomodulation (LLLT) platform

Exclusive distributor for CZ & SK

Espansione's flagship light-therapy platform combines LM™ LLLT photobiomodulation and OPE™ IPL in one device. In the anterior segment it treats dry eye, meibomian gland dysfunction and other ocular-surface conditions and helps stabilise the tear film before and after surgery. In the posterior segment it uses red and yellow photobiomodulation to support retinal cell metabolism and slow the progression of dry AMD (AREDS 2–3).

HIGHLIGHTS

- Two technologies in one device: LM™ LLLT mask and OPE™ IPL applicator that needs no gel
- Red, blue and yellow LLLT light, each matched to its own indications
- Up to nine treatment protocols; new ones are added by software without replacing the device
- Posterior segment: retinal photobiomodulation for dry AMD (AREDS 2–3), 12-minute session
- 15-minute LLLT session that runs without the operator present
- 7″ touchscreen with on-screen guidance, configuration checks and safety alerts

TECHNICAL SPECIFICATIONS

Technology	LM™ LLLT (photobiomodulation) + OPE™ IPL
LLLT light	red, blue, yellow
IPL	polychromatic, software-calibrated pulses; no coupling gel
Applicators	LLLT mask + IPL applicator
Treatment protocols	up to 9 (anterior and posterior segment)
Posterior segment	red 630 nm and yellow 590 nm light – dry AMD (AREDS 2–3), 12 min
LLLT session	15 min
Display	7″ touchscreen
Operating system	Linux-based
CE (MDR) indications	dry eye/MGD, blepharitis, chalazion, Demodex, rosacea, post-blepharoplasty, dry AMD
Medical device risk class	Class IIa

Manufacturer brochure



OPE™ IPL & LM™ LLLT

Masks and applicators – use and indications

Exclusive distributor for CZ & SK

All of Espansione's light masks and applicators on one page – which light suits which diagnosis. LM™ LLLT masks work by photobiomodulation: LED light creates endogenous heat in the tissue and boosts ATP production in the cells. The OPE™ IPL applicator delivers software-calibrated pulses of polychromatic light.

HIGHLIGHTS

- The LM™ LLLT mask warms the upper and lower eyelids from within, meibomian glands to about 42 °C
- LLLT sessions last 15 minutes, 12 minutes in the posterior segment; the operator need not stay with the patient
- OPE™ IPL needs no coupling gel; pulses target the lower-eyelid area
- In severe and recalcitrant MGD, OPE™ IPL is combined with LM™ LLLT
- LM™ LLLT is listed by TFOS DEWS III as a management option for dry eye and ocular-surface disease

TECHNICAL SPECIFICATIONS

LM™ LLLT – red light	MGD and dry eye, chalazion, stye, blepharitis, Sjögren's syndrome, before and after cataract and refractive surgery (eye-light, meibomask, my-mask)
LM™ LLLT – blue light	Demodex, blepharitis, rosacea, chalazion; stabilising the lid-margin microbiome (eye-light)
LM™ LLLT – yellow light	swelling after invasive procedures such as blepharoplasty – drainage and oedema reduction (eye-light)
OPE™ IPL applicator	MGD and dry eye, blepharitis, rosacea, Sjögren's syndrome; anterior segment only (eye-light)
Posterior segment – red and yellow light	dry AMD, AREDS 2–3: red 630 nm supports mitochondrial function, yellow 590 nm reduces oxidative stress and oedema; 12-minute session (eye-light)
meibomask®	professional red LM™ LLLT mask for the practice, treats upper and lower eyelids at once
my-mask®	portable red LM™ LLLT mask for home use in MGD and dry eye
Medical device risk class	Class IIa

Manufacturer brochure



meibomask

LLLT photobiomodulation device with eyelid mask

Exclusive distributor for CZ & SK

Professional device dedicated to LM™ LLLT photobiomodulation: its mask treats the upper and lower eyelids at once to manage MGD-related dry eye, chalazion, blepharitis and tear-film problems around eye surgery.

HIGHLIGHTS

- Treats both upper and lower eyelids in a single session
- Endogenous warming of the meibomian glands to about 42 °C, confirmed by thermography
- 15-minute session; the operator does not need to stay with the patient
- Energy and duration adapted to the MGD severity measured with me-check
- No set-up time and minimal training needed

TECHNICAL SPECIFICATIONS

Technology	LM™ LLLT photobiomodulation
Light	red / near-infrared LED light
Treatment area	upper and lower eyelids simultaneously
Session length	15 min
Gland temperature during treatment	≈ 42 °C (thermography)
Dosing	according to MGD severity (me-check)
Intended use	professional, in the practice
Medical device risk class	Class IIa

Manufacturer brochure



my-mask

Portable LLLT photobiomodulation device

Exclusive distributor for CZ & SK

Small, lightweight version of Espansione's red LM™ LLLT therapy that patients can use at home or on the move; the mask treats both eyelids to manage MGD-related dry eye.

HIGHLIGHTS

- Compact body and mask designed for comfortable self-treatment
- Covers the upper and lower eyelids in every session
- 15-minute therapy for use at home, in the practice or on the go
- Same photobiomodulation principle as Espansione's professional devices

TECHNICAL SPECIFICATIONS

Technology	red LM™ LLLT photobiomodulation
Design	portable, lightweight
Treatment area	upper and lower eyelids simultaneously
Session length	15 min
Intended use	home use or self-administration
Medical device risk class	Class IIa

Manufacturer brochure



me-check

Ocular-surface screening device (meibography)

Exclusive distributor for CZ & SK

Modular, battery-powered device for meibography and dry-eye screening that delivers an objective assessment in under five minutes – on a slit lamp, at a chin-rest workstation or hand-held.

HIGHLIGHTS

- Meibography graded on Dr H. Pult's Meiboscale, plus the OSDI-6 questionnaire developed with Prof. J. Wolffsohn
- Two configurations: quick screening, or full diagnosis with 3D and 12-level meibography, five-zone gland evaluation and Demodex screening
- Stand-alone unit with integrated display and patient database – no dark room, PC or cables needed
- Results can go straight to eye-light, meibomask or my-mask treatment, or be e-mailed to the treating specialist
- New functions unlocked by remote software upgrades

TECHNICAL SPECIFICATIONS

Examination time	< 5 min
Meibography	2D, HD and 3D; 12-level grading
Questionnaire	OSDI-6
Further analyses	five-zone gland evaluation, Demodex screening
Configurations	screening (2D meibography + OSDI-6) or diagnosis (full test set)
Operating modes	on a slit lamp, chin-rest workstation, hand-held
Components	optical unit, View-Dex unit, tablet
Power supply	battery-powered
Medical device risk class	Class IIa

Manufacturer brochure



VISTRON

Electroacupuncture device for measurement and stimulation

Exclusive distributor for CZ & SK

A portable electroacupuncture device that combines measurement and stimulation for function testing according to Dr. Voll (EAV). Its laptop-style housing with a folding display makes it easy to carry and to position at the workplace. VISTRON is not a medical device.

HIGHLIGHTS

- Large light-band display of point measurements as a bar or dot, scale 0–100
- Automatic measurement with peak value and pointer drop, or manual measurement
- Point localisation with an LED band in the probe and an acoustic signal
- Switching from measurement to therapy with a button on the probe; three pulse types
- Mains operation via a medical power supply (EN 60601-1) or optional 12 V battery

TECHNICAL SPECIFICATIONS

Measuring scale	0–100
Reference range	Points 50–70, hand measurement 80–90
Measurement modes	Automatic (peak value, pointer drop) or manual
Therapy pulses	Alternating, positive and negative relaxation oscillation
Displays	Light band; 10-segment intensity, 6-segment battery
Connections	Probe, hand electrodes, external test honeycombs, A/D converter (PC)
Power supply	Medical power supply (EN 60601-1), optional 12 V battery
Auto power-off	After 20 minutes of inactivity
Medical device risk class	not a medical device



SMT BM 75

75 W electrocoagulator (monopolar and bipolar)

A compact SMT BM-series electrosurgical unit with 75 W output for outpatient practice and minor surgical procedures. It has monopolar and bipolar outputs, four modes – cut, coag, blend and micro – and simple, clear controls.

HIGHLIGHTS

- Monopolar and bipolar outputs
- CUT, COAG, BLEND and MICRO modes
- Simple analogue controls with power display
- Small and easy to carry (3.5 kg)
- BM series available with 75, 100 and 125 W

TECHNICAL SPECIFICATIONS

Maximum output	75 W
Operating frequency	460 kHz
Outputs	Monopolar, bipolar
Modes	CUT, COAG, BLEND, MICRO
Power supply	220–230 V, 50 Hz
Dimensions (W × H × D)	290 × 80 × 250 mm
Weight	3.5 kg
Standard kit	Unit, power cable, foot switch, neutral electrode with cable, applicator, monopolar scalpel
Medical device risk class	Class IIb



SMT BM M PF

150–400 W electrosurgical unit (monopolar and bipolar)

A modern, easy-to-use and reliable electrosurgical unit in a compact, ergonomic design. Depending on the model it delivers 150 to 400 W, up to 15 operating modes for monopolar and bipolar output and 12 user programs. Selected models also support bipolar resection in saline (SALINE) and automatic bipolar coagulation SEAL.

HIGHLIGHTS

- Models with 150, 200, 300, 350 and 400 W (400 W also as S, VS and SVS)
- Up to 15 monopolar and bipolar modes, 12 user programs
- Easy MONO / BIPO switching by foot switch or applicator; pneumatic foot switches
- Continuous neutral-electrode monitoring with an LED indicator in the connector
- Efficient cooling for long high-power use; designed and made in the Czech Republic

TECHNICAL SPECIFICATIONS

Maximum output	150 / 200 / 300 / 350 / 400 W by model
Operating frequency	460 kHz
Outputs	Monopolar, bipolar
Modes	up to 15; SALINE and SEAL on selected models
Power supply	220–230 V, 50 Hz
Dimensions (W × H × D)	351 × 103 × 387 mm
Weight	6.7 kg
Standard kit	Unit, power cable, foot switch with stainless base, double foot switch, dual-zone silicone neutral electrode with cable, cut/coag applicator, monopolar scalpel, bipolar forceps with cable
Medical device risk class	Class IIb



RETI-port/scan 21

Electrophysiology system for ERG, VEP, EOG and multifocal tests

Exclusive distributor for CZ & SK

A modular visual electrophysiology system that records ERG, VEP and EOG to ISCEV standards and, depending on configuration, multifocal ERG and VEP. Ten configurations – from basic to delta plus² – combine a monitor stimulator, Ganzfeld bowls and handheld stimulators for adult and paediatric clinics.

HIGHLIGHTS

- ISCEV programs for ERG, VEP, EOG and mfERG, plus PhNR, S-cone and ON-OFF ERG, pattern-ERG glaucoma screening and objective visual acuity by VEP
- Supplied with normative data; own programs and normal values can be added
- Infrared eye-fixation camera, automated pupil measurement and automatic artefact rejection
- Optional stimulators: Ganzfeld Q450 C/SC and the handheld MINIganzfeld I8 and BABYflash E130 for children
- DICOM interface, LAN reading stations, PDF printouts and Excel export

TECHNICAL SPECIFICATIONS

Examination methods	ERG, PERG, VEP, EOG, mfERG, mfVEP (ISCEV)
Configurations	10 (basic to delta plus²)
Amplifier channels	2 or 4
Input impedance	2 × 100 MΩ
Common-mode rejection	> 110 dB
Sensitivity	10 µV/div – 2 mV/div
Pattern stimulator	19″ colour monitor, max. 220 cd/m², contrast 3–99 %
Ganzfeld Q450	400 mm bowl; C: white/blue/red; SC: adds royal blue/green/amber
Standard flash	3.0 cd·s/m²; white −40 to +5 dB in 5 dB steps
Max. background luminance (white)	1000 cd/m²
Stimulus duration	1–1000 ms in 1 ms steps
Pupillometer (option)	30 frames/s, 0.1 mm resolution
Medical device risk class	Class IIa

Manufacturer brochure



ERG accessories

Electrodes, pastes and consumables

Exclusive distributor for CZ & SK

Genuine Roland Consult accessories for the RETI-port/scan 21 electrophysiology systems: corneal ERG electrodes, skin, reference and ground electrodes, conductive pastes and small consumables. Electrodes connect with a 1.5 mm DIN connector.

HIGHLIGHTS

- ERG Jet corneal electrodes, sterile thread electrodes and HK Loop electrodes
- Ag/AgCl skin electrodes and neonatal electrodes for children
- Gold cup electrodes and ear clips for VEP, reference and ground
- TEN 20 conductive and adhesive paste and NuPrep skin-prep gel
- Eye patch, chin-rest papers, adapter cable and trial lens set

TECHNICAL SPECIFICATIONS

ERG Jet	single-use sterile corneal electrode; packs of 12 or 50
ERG thread electrodes	sterile; 10 or 20 pairs (20 / 40 electrodes), plus red patient lead (2 pcs)
HK Loop	loop electrode under the lower lid; 10 electrodes and 2 patient leads
Skin electrodes	single-use Ag/AgCl (6 pcs, 15 cm cable) and neonatal ECG electrodes (3 pcs, 40 cm cable); active or reference electrode for ERG
EEG cup electrodes	gold, 10 mm, reusable; set of 5 with 75 cm cable (2 red, 2 blue, 1 black)
Ear clip electrodes	gold or sintered AgCl; set of 2 clips with 100 cm cable
Pastes and gels	TEN 20 conductive and adhesive paste (3 × 230 g or 3 × 114 g), NuPrep skin-prep gel (3 × 114 g)
Other accessories	eye patch, chin-rest papers (250 pcs), 2-channel adapter cable (1.5 mm socket), trial lens set 2 × 20

Manufacturer brochure



RETIanimal

Electrophysiology system for animal research

Exclusive distributor for CZ & SK

An ERG/VEP system configured for laboratory animals: a heated small-animal table slides into a Q450 SC Ganzfeld with white and five coloured LEDs. It runs ISCEV-based ERG, colour and ON-OFF ERG, VEP and EOG protocols for preclinical vision research.

HIGHLIGHTS

- Heated mouse table (20 × 30 cm, other sizes possible) with two freely movable electrode holders
- Q450 SC Ganzfeld with white, royal blue, blue, green, amber and red LEDs and an integrated infrared camera
- Options: Xenon high-intensity flash (Q450 SCX) and 360 nm UV LEDs
- Digitally controlled 4-channel bio-signal amplifier
- Programs for pattern VEP/ERG, flash VEP, ISCEV and colour ERG, ON-OFF ERG and EOG

TECHNICAL SPECIFICATIONS

Ganzfeld	Q450 SC, 400 mm full-field bowl
LED colours	White; royal blue 455 nm, blue 470 nm, green 525 nm, amber 590 nm, red 625 nm
Standard flash (white)	3.0 cd·s/m²; −40 to +5 dB in 5 dB steps
Background (white)	25 / 100 / 450 cd/m²
Colour flash range	−45 to 0 dB in 5 dB steps
Xenon flash option (Q450 SCX)	10 / 30 / 100 cd·s/m²
UV LED option	360 nm
Animal table	20 × 30 cm, heated with warm water
Amplifier	4 channels, 2 × 100 MΩ, noise < 4 µV peak-to-peak
Sensitivity	10 µV/div – 20 mV/div
Filters	High-pass 0.02 Hz – 1 kHz; low-pass 20 Hz – 10 kHz
Stimulator monitor	17″, calibrated



RETImap animal

Scanning laser ophthalmoscope with ERG/VEP for animal research

Exclusive distributor for CZ & SK

RETImap animal combines a confocal infrared scanning laser ophthalmoscope with electrophysiology, so multifocal and focal ERG or VEP responses are recorded under live fundus control. Results are shown as function maps overlaid on the cSLO image; modules add fluorescein angiography and GFP imaging.

HIGHLIGHTS

- Infrared cSLO imaging at 920 nm, without visible light
- A high-resolution DLP projector stimulates many retinal locations; responses are mapped onto the fundus image
- Roland Consult Fundus EyeTracker (RCFET) software flags eye-movement artefacts
- Protocols: multifocal ERG, focal flash and pattern ERG, pattern VEP, focal pattern and flash VEP
- Modules for fluorescein angiography (488 nm, 15 images/s) and GFP imaging; upgradable with classic stimulators

TECHNICAL SPECIFICATIONS

Imaging	Confocal SLO, infrared SLD 920 nm
Field of view	35° × 35°
Image resolution	512 × 512 px, 12 bit
Optical resolution	approx. 30 µm
Minimum pupil size	≥ 2 mm
Angiography module	Blue laser 488 nm, 15 images/s
GFP module	488 nm excitation, real-time averaging
Stimulator	High-resolution DLP projector
Electrophysiology	mfERG, focal flash/pattern ERG, pattern VEP, focal VEP
Eye tracking	RCFET fundus eye-tracker software



EASY

Entry-level refraction unit

A compact, easy-to-install unit with a sliding table top for two instruments and built-in power and illumination control for the autorefractor and slit lamp. It comes with the SLIM chair; the fully featured COMFORT chair is optional.

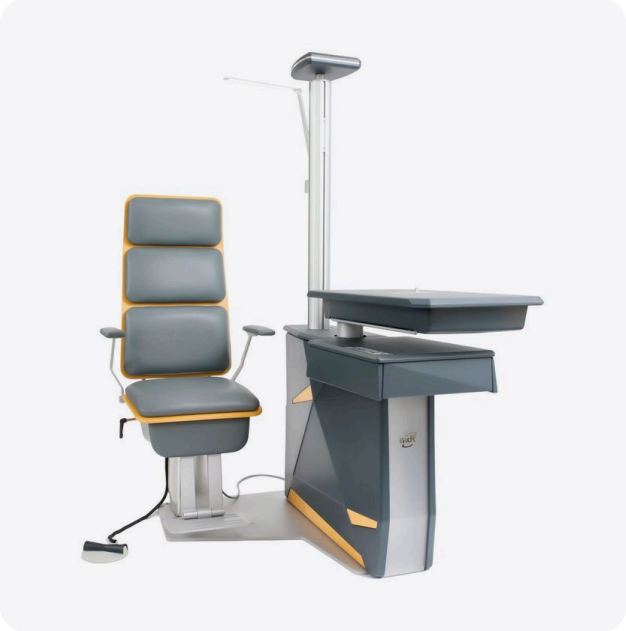
HIGHLIGHTS

- Sliding, fixed-height table top for two instruments
- Slit-lamp DC supply and illumination knobs built into the table top; suits LED and halogen slit lamps
- Aluminium column with foldable LED lamp and universal chart-projector adapter
- Right- or left-handed set-up, preset at the factory or on site
- Options include the COMFORT chair with recline and swivel, PA-1000 or PA-3000 phoropter arms and a pivoting trial-lens tray

TECHNICAL SPECIFICATIONS

Dimensions (W × D × H)	980–1 370 × 1 250–1 970 × 1 680 mm (SLIM chair)
Chair height range	430–630 mm (SLIM), 510–720 mm (COMFORT)
Table-top (W × D)	870 × 440 mm
Table-top height	870 mm with SLIM chair, 940 mm with COMFORT chair (fixed)
Max. table load	50 kg
Max. chair load	150 kg
Instrument sockets	2× C13, max. 450 VA
Slit-lamp supply (SL/AUX1)	1.5–24 V DC
Power supply	100–240 V AC, 50/60 Hz
Power consumption	280 VA
LED lamp	9 W
Medical device risk class	Class I

Manufacturer brochure



ECO PLUS

Versatile refraction unit

MDT's best-selling unit, with the widest choice of options and right- or left-handed factory set-up. A sliding two-instrument table top, an accessories drawer with a trial-lens cassette and the COMFORT chair come as standard.

HIGHLIGHTS

- Sliding table top for two instruments; electric height adjustment with safety device optional
- Slit-lamp DC supply and illumination knobs in the table top; LED and halogen slit lamps supported
- Accessories drawer with a cassette for a trial lens set
- Aluminium column with foldable LED lamp and chart-projector shelf
- Options: PREMIUM chair, reclining/swivel COMFORT chair, PA-1000 or PA-3000 phoropter arm, USB 2.0/RS-232 ports and custom body colours

TECHNICAL SPECIFICATIONS

Dimensions (W × D × H)	1 150–1 470 × 1 410–1 540 × 1 810 mm (COMFORT chair)
Chair height range	520–720 mm (COMFORT), 510–710 mm (PREMIUM)
COMFORT chair recline / swivel (option)	26° / 85°
Table-top (W × D)	880 × 450 mm
Table-top height	870 mm (fixed version)
Max. table load	50 kg
Max. chair load	150 kg
Instrument sockets	2× C13, max. 450 VA
Slit-lamp supply (SL/AUX1)	1.5–24 V DC
Power supply	100–240 V AC, 50/60 Hz
Power consumption	280 VA
LED lamp	9 W
Medical device risk class	Class I

Manufacturer brochure



SMART PLUS

Refraction unit with diagonal column

A design-led unit with a diagonal aluminium column, a sliding two-instrument table top and the electrically elevated COMFORT chair. It is offered in right-handed configuration only.

HIGHLIGHTS

- Sliding table top for two instruments; electric height adjustment with safety device optional
- Slit-lamp DC supply and illumination knobs in the table top; LED and halogen slit lamps supported
- Pivoting arm with an easy-to-reach trial-lens tray
- Diagonal column with foldable LED lamp and chart-projector shelf
- Options: reclining/swivel COMFORT chair or PREMIUM chair, PA-1000 arm, USB 2.0/RS-232 ports and a wide choice of upholstery colours

TECHNICAL SPECIFICATIONS

Dimensions (W × D × H)	1 140–1 470 × 1 350–1 540 × 1 780 mm (COMFORT chair)
Chair height range	510–720 mm (COMFORT), 510–710 mm (PREMIUM)
COMFORT chair recline / swivel (option)	33° / 85°
Table-top (W × D)	900 × 440 mm
Table-top height	870 mm fixed; 870–970 mm with electric option
Max. table load	50 kg
Max. chair load	150 kg
Instrument sockets	2× C13, max. 450 VA
Slit-lamp supply (SL/AUX1)	1.5–24 V DC
Power supply	100–240 V AC, 50/60 Hz
Power consumption	280 VA
LED lamp	9 W
Medical device risk class	Class I

Manufacturer brochure



TOROS

Wheelchair-accessible refraction unit

MDT's newest refraction unit, built around a compact stand with a height-adjustable table top that a wheelchair can pull up to. The patient chair, the PA-1000 phoropter arm and charging slots for handheld instruments come as standard.

HIGHLIGHTS

- Electrically elevated chair with foldable armrests and footrest; manual recline up to 40° and swivel up to 90°
- Chair height controlled from the main panel, a switch on the table-top arm or a foot pedal
- Table top with manual height adjustment via a lock/release mechanism
- Three slots for handheld instruments with LED charge indicators
- Right- or left-handed configuration, set up during installation

TECHNICAL SPECIFICATIONS

Dimensions (W × D × H)	1 265 × 1 035 × 1 800 mm
Chair height range	600–800 mm
Chair recline / swivel	40° / 90°
Table-top (W × D)	565 × 400 mm
Table-top height	680–980 mm
Max. chair load	150 kg
Phoropter arm	PA-1000, included
Power supply	110–120 / 230–240 V AC, 50/60 Hz
Power consumption	280 VA
LED lamp	4.5 W
Medical device risk class	Class I

Manufacturer brochure



UNIQ

Compact refraction unit

A space-saving unit with a V-shaped table top for two instruments and an electrically elevated SLIM chair. The list of options is deliberately short to keep the price competitive.

HIGHLIGHTS

- Fixed-height V-shaped table top for two instruments with electromagnetic lock; optional universal chin-rest adapter
- Chair height switch on the table top; SLIM chair in black upholstery
- Aluminium column for a chart projector and the optional PA-1000 phoropter arm
- Foldable, swivelling LED lamp with manual switch
- Right-handed as standard; left-handed set-up at the factory or on site

TECHNICAL SPECIFICATIONS

Dimensions (W × D × H)	1 120–1 370 × 1 080–1 590 × 1 680 mm
Chair height range	430–630 mm
Table-top (W × D)	980 × 450 mm
Table-top height	860 mm (fixed)
Max. table load	50 kg
Max. chair load	150 kg
Instrument sockets	2× C13, max. 450 VA
Power supply	100–240 V AC, 50/60 Hz
Power consumption	280 VA
LED lamp	9 W
Medical device risk class	Class I

Manufacturer brochure



PRO 500

Refraction unit

Exclusive distributor for CZ & SK

A practical, modern refraction unit with a 90° rotating, laterally movable table for two instruments, an electronically controlled patient chair and a projector column with overhead light. It comes preconfigured for connecting Rodenstock Instruments devices.

HIGHLIGHTS

- Right- or left-handed installation
- Electronically controlled SC 300 patient chair
- Table for two instruments, rotating 90° with magnetic lock
- Projector column with overhead reading light; RS-232, LAN and USB connectors
- Options: PA 1000/PA 3000 phoropter arms, RTC 1000 trial-lens cabinet, CBS 1000 control-box stand

TECHNICAL SPECIFICATIONS

Table	Rotating 90°, laterally movable, for 2 instruments
Table lock	Magnetic
Max. table load	45 kg (25/20 kg)
Patient chair	SC 300
Chair elevation	±20 cm
Connectors	2 power outlets (230 V), RS-232, 6 V/12 V, LAN, USB 2.0
Lighting	White LED reading and interior light, 12 V
Power supply	110/115 V AC or 230 V AC (±10 %)
Total weight (without chair)	approx. 172 kg
Medical device risk class	Class I

Manufacturer brochure



PRO 1000 / PRO 1000 EVO

High-end refraction unit

Exclusive distributor for CZ & SK

The high-end refraction unit of the range, with a motorised tilting patient chair, electromagnetic table lock and preinstalled connectors for Rodenstock Instruments devices. The EVO version adds an electrically height-adjustable table and an optional chair that rotates 90°.

HIGHLIGHTS

- Motorised patient chair with tilt up to 33°
- EVO: electrically height-adjustable table (82–92 cm) and optional ER 500R chair rotating 90°
- Electromagnetic table lock and table-top safety sensors
- Integrated accessories drawer with trial-lens inlay; RGB LED interior light
- Right- or left-handed installation, preconfigured for Rodenstock equipment

TECHNICAL SPECIFICATIONS

Table	Rotating 90°, laterally movable, for 2 instruments
Table height adjustment	Electric ±10 cm, 82–92 cm (EVO only)
Table lock	Electromagnetic
Max. table load	45 kg (25/20 kg)
Patient chair	ER 500; ER 500R optional (EVO only)
Chair elevation	±20 cm
Chair inclination	Up to 33°
Connectors	2 power outlets (230 V), RS-232, 6 V/12 V, LAN, USB 2.0
Lighting	White LED reading light, RGB LED interior light, 12 V
Power consumption	280 VA
Power supply	110/115 V AC or 230 V AC (±10 %)
Total weight (without chair)	approx. 195/215 kg
Medical device risk class	Class I

Manufacturer brochure



PA-1000

Counterbalanced phoropter arm

A manually operated arm, counterbalanced by a gas spring, that holds a manual or automated phoropter in front of the patient. It fits the aluminium columns of all MDT refraction units and can also be wall-mounted with an optional adapter.

HIGHLIGHTS

- Universal platform for manual or automated phoropters
- Purely mechanical design with no electronic components
- Adjustable in all planes to position the phoropter comfortably for patient and examiner

TECHNICAL SPECIFICATIONS

Dimensions (L × W × H)	583 × 70 × 245 mm
Max. upward tilt	43°
Max. downward tilt	35°
Swivel range	approx. 90°
Max. load	15 kg
Net weight	6 kg
Mounting	Column of any MDT refraction unit; wall adapter optional
Medical device risk class	Class I

Manufacturer brochure



PA-3000

Linear phoropter arm with chair controls

A compact arm with a smooth manual sliding system and two built-in buttons that raise and lower the chair of a compatible MDT unit. Fully enclosed cabling keeps communication with an automated phoropter reliable.

HIGHLIGHTS

- Universal fastening system for various phoropter types
- Working angle lets you choose the best horizontal position for the examination
- Compatible with MDT refraction units except SMART PLUS (diagonal column) and UNIQ

TECHNICAL SPECIFICATIONS

Length	487–1 068 mm
Width × height	130 × 206 mm
Swivel range	±15°
Chair control buttons	2
Connection cable	3.5 m with NS39-G3 plug
Max. load	15 kg
Net weight	8 kg
Medical device risk class	Class I

Manufacturer brochure



COMFY SC-1

Ophthalmic surgical table

A surgical chair-table designed for eye surgery that moves the patient smoothly from sitting to lying, including the Trendelenburg position. It suits cataract, vitreoretinal, glaucoma and anterior-segment procedures, with the surgeon seated, standing or working from the side.

HIGHLIGHTS

- Independent electric adjustment of headrest, backrest, seat and leg support
- Three programmable positions for three surgeons, recalled hands-free with a 4-switch footswitch
- Sliding armrests with quick release for IV access and anaesthesia control
- Dual-brake wheel locking, emergency stop and stainless-steel push handles
- 24 V rechargeable battery operation with IPX4 protection; replaceable seamless upholstery

TECHNICAL SPECIFICATIONS

Height adjustment range	520–970 mm
Length, lying flat	1 920 mm
Width	966 mm
Trendelenburg position	approx. 15°
Max. load	250 kg
Battery	24 V, 2 × 12 Ah
Operating time per charge	up to 40 h
Ingress protection	IPX4
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



NOVA OC-1

Surgeon's chair for eye surgery

An operator's chair that keeps the ophthalmic surgeon comfortable during cataract surgery and other procedures. Seat height is set electrically with a foot switch, while the backrest and arm supports adjust by hand.

HIGHLIGHTS

- Ergonomically placed foot switch for electric seat height
- Manually adjustable backrest and arm supports
- Three heavy-duty castors with foot-operated brake and manual lock
- Battery pack for cable-free use; mains charging

TECHNICAL SPECIFICATIONS

Height adjustment range	550–750 mm
Dimensions (W × D × H)	885–1 015 × 740 × 835–1 110 mm
Arm-support rotation	up to 129°
Armrest height adjustment	78 mm
Backrest height adjustment	75 mm
Backrest forward/back adjustment	55 mm
Battery	24 V, 2.2 Ah
Operating time per charge	up to 20 h
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



PC-1

Ophthalmic patient chair

A space-saving, electrically elevated patient chair for examination rooms, available as PC-1 COMFORT and PC-1 PREMIUM. Height is set with a convenient foot switch, and a wide range of upholstery colours comes at no extra charge.

HIGHLIGHTS

- Height adjustment with a foot switch
- High-quality seat with foldable armrests and footrest
- Solid base for stability and safety
- Two versions: COMFORT and PREMIUM

TECHNICAL SPECIFICATIONS

Seat height range	502–702 mm (COMFORT), 508–708 mm (PREMIUM)
Width	648 mm (COMFORT), 620 mm (PREMIUM)
Depth	986–1 236 mm (COMFORT), 986–1 208 mm (PREMIUM)
Height	1 293–1 493 mm (COMFORT), 1 352–1 552 mm (PREMIUM)
Max. load	150 kg
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



T-L

Examiner stool with half-backrest

An ergonomic stool for examiners who spend long hours at diagnostic instruments, with a moulded seat and half-backrest. The compact Ø 500 mm base on castors stays out of the way of the legs.

HIGHLIGHTS

- Ergonomic half-backrest with embossed MDT logo
- Pneumatic height adjustment in two seat-height versions
- Chrome base on five castors for moving easily between workstations

TECHNICAL SPECIFICATIONS

Seat height range	470–670 mm (lower seat) / 540–800 mm (taller seat)
Adjustment	Pneumatic height
Seat	Moulded seat with half-backrest
Upholstery	Black only
Base	Chrome, Ø 500 mm, 5 castors
Packed weight	9.2 kg (1 box, 54 × 46 × 27 cm)
Medical device risk class	Class I

Manufacturer brochure



T-L Premium

Examiner stool with tilting backrest

A stool for long examinations and procedures performed seated, with a comfortable seat, pneumatic height adjustment and a backrest that tilts and adjusts.

HIGHLIGHTS

- Backrest with manual tilt plus forward/back and up/down adjustment
- Pneumatic height adjustment in two seat-height versions
- Wide choice of upholstery colours at no extra charge; chrome base on five castors

TECHNICAL SPECIFICATIONS

Seat height range	540–740 mm (lower seat) / 610–870 mm (taller seat)
Adjustment	Pneumatic height, manual backrest tilt
Seat	Upholstered seat with backrest
Upholstery	12 colours at no extra charge
Base	Chrome, Ø 500 mm, 5 castors
Packed weight	19.4 kg (1 box, 53 × 53 × 30 cm)
Medical device risk class	Class I

Manufacturer brochure



T-LT

Round-seat stool on castors

A simple, versatile round-seat stool on five castors, with pneumatic height adjustment and a wide choice of upholstery colours.

HIGHLIGHTS

- Pneumatic height adjustment in two seat-height versions
- Wide choice of upholstery colours at no extra charge
- Compact Ø 500 mm chrome base on five castors

TECHNICAL SPECIFICATIONS

Seat height range	470–670 mm (lower seat) / 540–800 mm (taller seat)
Adjustment	Pneumatic height
Seat	Round
Upholstery	12 colours at no extra charge
Base	Chrome, Ø 500 mm, 5 castors
Packed weight	7.7 kg (1 box, 54 × 46 × 27 cm)
Medical device risk class	Class I

Manufacturer brochure



T-P

Patient stool on fixed feet

A round-seat stool for patients seated at an instrument. It stands on five fixed feet, so it stays put during the examination, and its compact Ø 500 mm base leaves room for the patient's legs.

HIGHLIGHTS

- Pneumatic height adjustment in two seat-height versions
- Wide choice of upholstery colours at no extra charge
- Chrome base with five fixed feet for the patient's safety

TECHNICAL SPECIFICATIONS

Seat height range	440–640 mm (lower seat) / 520–780 mm (taller seat)
Adjustment	Pneumatic height
Seat	Round
Upholstery	12 colours at no extra charge
Base	Chrome, Ø 500 mm, 5 fixed feet
Packed weight	7.6 kg (1 box, 54 × 46 × 27 cm)
Medical device risk class	Class I

Manufacturer brochure



T-S

Saddle-seat examiner stool

An alternative to the T-L whose saddle-shaped seat encourages a correct, upright sitting posture. Height adjusts pneumatically and tilt by hand.

HIGHLIGHTS

- Saddle-shaped seat that supports an upright posture
- Pneumatic height and manual tilt adjustment; two seat-height versions
- Compact Ø 500 mm chrome base on five castors

TECHNICAL SPECIFICATIONS

Seat height range	500–700 mm (lower seat) / 570–830 mm (taller seat)
Adjustment	Pneumatic height, manual tilt
Seat	Saddle
Upholstery	Black only
Base	Chrome, Ø 500 mm, 5 castors
Packed weight	10.8 kg (1 box, 53 × 53 × 30 cm)
Medical device risk class	Class I

Manufacturer brochure



COMBO-1

Electric instrument table for one device

A single-device table with a lower height range and a base that combines two castors with two screw-in feet. It suits a slit lamp, autorefractor, tonometer, compact perimeter or ophthalmic laser.

HIGHLIGHTS

- Multi-voltage electric telescopic column in anodised aluminium
- Base with two Ø 50 mm castors and two screw-in feet for a firm stance
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)

TECHNICAL SPECIFICATIONS

Table-top (W × D)	660 × 460 mm
Table-top height	569–846 mm
Max. load	65 kg
Net weight	31 kg
Base	2 castors Ø 50 mm + 2 screw-in feet
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



COMBO-2

Electric instrument table for two devices

The two-device version of the COMBO table, for pairings such as a slit lamp with an autorefractor or an ophthalmic laser with its control panel. A base with two castors and two screw-in feet keeps it steady.

HIGHLIGHTS

- Multi-voltage electric telescopic column in anodised aluminium
- Base with two Ø 50 mm castors and two screw-in feet for a firm stance
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)

TECHNICAL SPECIFICATIONS

Table-top (W × D)	880 × 460 mm
Table-top height	569–846 mm
Max. load	65 kg
Net weight	33 kg
Base	2 castors Ø 50 mm + 2 screw-in feet
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-1

Electric instrument table for one device

A stable, quiet single-column table for one ophthalmic instrument, such as a slit lamp, autorefractor, non-contact tonometer or compact perimeter. Its height range allows patients in wheelchairs to be examined quickly and comfortably.

HIGHLIGHTS

- Multi-voltage electric telescopic column in anodised aluminium
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)
- Powder-coated steel base on four lockable Ø 75 mm castors
- Variants: MD-1 with a 600 × 500 mm top and MD-1 YAG/SLT (800 × 460 mm, 718–968 mm) for lasers

TECHNICAL SPECIFICATIONS

Table-top (W × D)	660 × 460 mm
Table-top height	661–911 mm
Max. load	65 kg
Net weight	25 kg
Instrument sockets	2× IEC C13
Castors	4, lockable, Ø 75 mm
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-2

Electric instrument table for two devices

A single-column electric table for two instruments, for example a slit lamp with an autorefractor, or a non-contact tonometer with a compact perimeter. Patients in wheelchairs can be examined quickly and comfortably.

HIGHLIGHTS

- Multi-voltage electric telescopic column in anodised aluminium
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)
- Powder-coated steel base on four lockable Ø 75 mm castors
- Variants: MD-2 with a 1 000 × 500 mm top and MD-2 PC (900 × 500/430 mm top)

TECHNICAL SPECIFICATIONS

Table-top (W × D)	860 × 430 mm
Table-top height	661–911 mm
Max. load	65 kg
Net weight	27 kg
Instrument sockets	2× IEC C13
Castors	4, lockable, Ø 75 mm
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-3

Two-column electric table for up to three devices

A wide table carried by two synchronised electric columns, taking up to three ophthalmic instruments, or a single Lightmed laser in the dedicated MD-3 Lightmed version.

HIGHLIGHTS

- Two synchronised multi-voltage telescopic columns on two powder-coated steel bases
- Four lockable Ø 75 mm castors
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)
- MD-3 Lightmed version with a 1 000 × 420 mm top for Lightmed lasers

TECHNICAL SPECIFICATIONS

Table-top (W × D)	1 240 × 550 mm
Table-top height	608–908 mm
Vertical travel	300 mm
Max. load	90 kg
Net weight	42 kg
Instrument sockets	2× IEC C13, max. 450 VA
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-3V

Two-column table with V-shaped top

The V-shaped version of the MD-3 for up to three instruments: the ergonomic top gives good access to each device and saves space in the examination room.

HIGHLIGHTS

- Two synchronised multi-voltage telescopic columns
- Four lockable Ø 75 mm castors
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)

TECHNICAL SPECIFICATIONS

Table-top (W × D)	1 485 × 593 mm
Table-top height	608–908 mm
Vertical travel	300 mm
Max. load	90 kg
Net weight	33 kg
Instrument sockets	2× IEC C13, max. 450 VA
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-V

Electric instrument table with V-shaped top

A two-device table whose V-shaped top gives good access to both instruments, for example a slit lamp with an autorefractor, a tonometer with a compact perimeter, or an ophthalmic laser with its console.

HIGHLIGHTS

- Multi-voltage electric telescopic column in anodised aluminium
- MDF table top with wear-resistant polyurethane finish; colour to order (RAL)
- Powder-coated steel base on four lockable Ø 75 mm castors
- Options: printer shelf, keyboard holder, PC hanger, cable basket and extension lead

TECHNICAL SPECIFICATIONS

Table-top (W × D)	1 040 × 553 mm
Table-top height	661–911 mm
Max. load	65 kg
Net weight	28 kg
Instrument sockets	2× IEC C13
Castors	4, lockable, Ø 75 mm
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



MD-X

Electric table for perimeters

Designed for instruments with a low chin rest, such as perimeters. A new multi-voltage telescopic column gives an extended height range, and the set includes a detachable printer/PC shelf and a retractable keyboard holder.

HIGHLIGHTS

- Extended height range for devices with a low chin rest
- Manually detachable printer/PC shelf and retractable keyboard holder included
- Also available as MD-X Long with a 500 × 780 mm top

TECHNICAL SPECIFICATIONS

Table-top (W × D)	500 × 580 mm (MD-X), 500 × 780 mm (MD-X Long)
Table-top height	782–1 067 mm
Max. load	65 kg
Net weight	33 kg (MD-X), 35 kg (MD-X Long)
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure



RT 2C

Two-column electric instrument table

Exclusive distributor for CZ & SK

A very stable two-column electric table with an extra-wide top for two or heavy instruments and a load capacity of up to 90 kg. Its design gives easy access for wheelchair users.

HIGHLIGHTS

- Two lifting columns for high stability
- Extra-wide top for two or heavy instruments
- Wheelchair-accessible
- 4 instrument sockets; height control with beep signal
- Four lockable casters

TECHNICAL SPECIFICATIONS

Table-top (W × D)	120/124 × 55 cm
Table-top height	606–898 mm
Vertical travel	292 mm
Max. load	90 kg
Instrument sockets	4
Power supply	110–115/230 V AC, 50/60 Hz
Max. power (without instruments)	80 VA
Current with instruments	3 A (230 V AC), 6 A (110–115 V AC)
Medical device risk class	Class I

Manufacturer brochure



RT S / RT V / RT B

Electric height-adjustable instrument tables (single column)

Exclusive distributor for CZ & SK

Single-column electric instrument tables in three top shapes: the compact RT S for one instrument, and the wide RT B and V-curved RT V for two. All carry up to 65 kg, provide power sockets for the instruments and roll on four lockable casters.

HIGHLIGHTS

- Stepless electric height adjustment by panel switch
- RT S: compact top for a single instrument
- RT B (wide) and RT V (V-curved, ergonomic) for two instruments; wheelchair-accessible
- 2 sockets for table-top instruments; four lockable casters
- Even surface for easy cleaning and disinfection

TECHNICAL SPECIFICATIONS

RT S table-top (W × D)	66/72 × 45 cm
RT B table-top (W × D)	99/106 × 60 cm
RT V table-top (W × D)	99/104 × 55 cm
Table-top height	654–904 mm
Vertical travel	250 mm
Max. load	65 kg
Instrument sockets	2
Power supply	110–115/230 V AC, 50/60 Hz
Max. power (without instruments)	80 VA
Current with instruments	3 A (230 V AC), 6 A (110–115 V AC)
Medical device risk class	Class I

Manufacturer brochure



RT VF

Height-adjustable perimeter table

Exclusive distributor for CZ & SK

A height-adjustable table designed for the Peristat 2 and Perimat 2 perimeters, with a centrally sloping lifting column, footrest and keyboard drawer for comfortable visual-field testing.

HIGHLIGHTS

- Designed for the Peristat 2 and Perimat 2
- Centrally sloping lifting column with footrest
- Keyboard drawer
- Height adjustment from 77 to 107 cm

TECHNICAL SPECIFICATIONS

Table-top (W × D)	50 × 58 cm
Height adjustment	77–107 cm
Max. load	65 kg
Column	Single, centrally sloping lifting column
Equipment	Footrest, keyboard drawer
Compatible perimeters	Peristat 2, Perimat 2

Manufacturer brochure



STM-1

Electric instrument table for one device

An electric height-adjustable table as the base for one ophthalmic device. The asymmetrically placed leg leaves room for patient and doctor to sit comfortably during the examination.

HIGHLIGHTS

- For one device
- Asymmetric leg – leg room for patient and doctor
- Smooth electric height adjustment 650–900 mm
- Top 620 × 440 mm, 60 kg load

TECHNICAL SPECIFICATIONS

Manufacturer	STOL-MIK, Poland
Top (L × W)	620 × 440 mm
Height	650–900 mm
Travel time	21 s
Rated load	60 kg
Weight	27 kg
Power supply	220 V / 50 Hz; 50 VA while moving
Colour	base and covers dark grey, top grey
Medical device risk class	Class I

Manufacturer brochure



STM-2

Electric instrument table for one or two devices

A table for one or two ophthalmic devices, e.g. a slit lamp and an ophthalmometer. The long top lets two devices work side by side without collisions, even large ones; a wide base with adjustable feet keeps them stable.

HIGHLIGHTS

- For one or two devices
- Long 780 × 450 mm top
- Wide base with adjustable feet
- Electric height adjustment 680–930 mm, 60 kg load

TECHNICAL SPECIFICATIONS

Manufacturer	STOL-MIK, Poland
Top (L × W)	780 × 450 mm
Height	680–930 mm
Travel time	21 s
Rated load	60 kg
Weight	30 kg
Power supply	220 V / 50 Hz; 50 VA while moving
Colour	base and covers dark grey, top grey
Medical device risk class	Class I

Manufacturer brochure



STM-5

Instrument table for a device and a computer set

A table for one ophthalmic device and a computer set – with a pull-out keyboard tray and a computer shelf. The long 1000 mm top allows collision-free work even with large devices.

HIGHLIGHTS

- For a device and a computer – keyboard tray and computer shelf
- Long 1000 × 520 mm top
- Adjustable height 670–870 mm
- 90 kg load

TECHNICAL SPECIFICATIONS

Manufacturer	STOL-MIK, Poland
Top (L × W)	1000 × 520 mm
Height	670–870 mm
Travel time	21 s
Rated load	90 kg
Weight	44 kg
Medical device risk class	Class I

Manufacturer brochure

BVI

Ophthalmic knives, single-use instruments, cannulas and IOLs

BVI (Beaver-Visitec International) is an ophthalmic surgical company headquartered in Waltham, Massachusetts. Its brands include Beaver ophthalmic knives, Visitec cannulas, Malosa single-use instruments and PhysIOL intraocular lenses.



BEAVER® OPHTHALMIC KNIVES

Safety Slit knives
Angled main-incision knives for cataract surgery, 1.4–3.2 mm wide, single or double bevel, with a depth reference line for a multiplanar incision. A retractable shield, operated one-handed with a slider, protects the blade and the staff during handling.

Kojo and crescent knives
Kojo safety knives with an arcuate blade (2.5 and 3.2 mm, 45°) and a 2.5 mm crescent knife (55°, bevel up) for scleral tunnels, trabeculectomy and lamellar dissection.

Paracentesis (sideport) knives
Knives for accurate-width side-port stab incisions: angled 1.0 and 1.2 mm (45°), 20G 1.15 mm and 23G 0.6 mm, plus straight Optimum knives at 15°, 22.5°, 30° and 45° whose incision width is set by the insertion depth.

Slit and MVR knives
Conventional slit knives 1.8–3.2 mm with single or double bevel (45° or straight matte) and 0.6–1.15 mm MVR and stiletto knives.

Micro-Sharp® · Micro-Unitome
Blades and knives made with grindless technology for consistent sharpness, colour-coded by size (1.5–5 mm, 15–45°). In the maker's tests BVI knives needed 15–50% less insertion force than competing knives.

SINGLE-USE INSTRUMENTS AND VISCOELASTICS

Malosa®
Sterile single-use instruments for eye surgery: capsulorhexis forceps (including MICS below 1.8 mm), fixation and tying forceps, needle holders, choppers, manipulators, scissors and specula. No reprocessing or repairs.

I-Ring®
Soft polyurethane pupil expander for small-pupil and IFIS cases. Inserted one-handed through a 2.4 mm incision, it engages the iris through 360° and opens a 6.3 mm field of view.

NuVisc™ Pro viscoelastic
Cohesive viscoelastic (OVD) with 1.6% sodium hyaluronate for cataract surgery, 1 ml syringe.

CANNULAS AND LACRIMAL

Visitec®
Single-use cannulas for every stage of surgery: irrigation and viscoelastic, hydrodissection, cystotomes, capsule polishers, cortex extractors, anaesthesia (retrobulbar, sub-Tenon's) and LASIK, 19–30G.

Punctal dilators and probes
Single-use punctal dilators (0.3–0.55 mm tips), punctum seekers, Bowman probes 000–0, lacrimal probes and lacrimal cannulas.

PVA eye spears
Absorbent PVA eye spears and sponge points for fluid control in the surgical field.

INTRAOCULAR LENSES

PhysIOL
Intraocular lenses from the BVI group: trifocal FINEVISION, monofocal ISOPURE, PODEYE and MICROPURE, and toric versions. See the PhysIOL page for details.

Ask us for specific models, specifications and prices.

MEDIN

Ophthalmic surgical instruments and sets

MEDIN, a.s. of Nové Město na Moravě, Czech Republic, builds on more than 70 years of making medical instruments. For ophthalmology it supplies surgical instruments and sets by NOPA Instruments of Tuttlingen, Germany.

MICROSURGICAL INSTRUMENTS

Scissors
Ophthalmic scissors, including tenotomy scissors.

Forceps
Ophthalmic forceps, including iris forceps.

Scalpels and clamps
Scalpels, haemostats and clamps for eye surgery.

Diagnostic instruments
Diagnostic instruments for ophthalmology.

INSTRUMENT SETS

Cataract and glaucoma
Instrument sets for cataract and glaucoma surgery.

Keratoplasty
Instrument sets for keratoplasty.

Strabismus and enucleation
Sets for eye-muscle surgery and enucleation.

Chalazion, foreign bodies, sutures
Sets for chalazion, foreign-body and suture removal.

Ask us for specific models, specifications and prices.

Rumex

Reusable and single-use ophthalmic surgical instruments

Exclusive distributor for the Czech Republic

RUMEX International, active since 1994 and headquartered in Tampa, Florida, makes reusable and single-use instruments for ophthalmic surgery. Its titanium and stainless-steel range covers cataract, corneal, refractive, glaucoma, vitreoretinal and oculoplastic procedures.



ANTERIOR SEGMENT INSTRUMENTS

Cataract & capsulorhexis
Capsulorhexis forceps (many with a measuring scale), choppers, hooks, spatulas, I/A handpieces and cannulas.

DMEK · DSAEK · DALK · PK
Instruments for lamellar and penetrating keratoplasty, plus trephines and ICRS and CAIRS instrument sets.

LASIK · PRK · SMILE · ICL · LRI
Instruments for laser refractive surgery, lenticule extraction, phakic ICL implantation and limbal relaxing incisions.

Glaucoma · Oculoplastics · Lacrimal
Trabeculotomes, punches and cyclodialysis spatulas; lid, chalazion, muscle, DCR and lacrimal instruments.

KNIVES

Diamond & sapphire knives
Reusable diamond and sapphire knives for clear-corneal, side-port, LRI, ICL and glaucoma incisions.

Single-use knives
Disposable slit, clear-corneal, side-port, crescent, MVR, paracentesis and preset-depth knives with safety system.

VITREORETINAL SURGERY

Reusable VR instruments
20–27G forceps and scissors tips with handles (some with RUMEX flushing), backflush and 23/25G trocar systems.

Single-use VR instruments
Disposable 23G and 25G gripping, end-grasping (incl. Eckardt) and pick forceps, plus curved scissors.

SmartSil 5000
Purified 5000 cSt silicone oil for retinal endotamponade in a prefilled syringe; reusable infusion tubing available.

SINGLE-USE ITEMS AND ACCESSORIES

Single-use anterior instruments
Disposable capsulorhexis and tying forceps, Vannas and Westcott scissors, hooks, choppers and specula.

IOL & CTR injectors
Reusable titanium IOL injectors for A–D cartridges and an irrigating injector for capsular tension rings.

Sterilization & care
Plastic and aluminium sterilization trays with silicone mats, diamond-knife cleaning packs and AlgerBrush.

Supreme viscoelastic
Dispersive viscoelastic (OVD) with 2% HPMC to protect the corneal endothelium in cataract surgery, 2 ml syringe with cannula.

Ask us for specific models, specifications and prices.

EyeOL UK

IOLs and viscoelastics

EyeOL UK Limited of Dunstable, United Kingdom, designs, makes and supplies intraocular lenses and sterile ophthalmic products.



INTRAOCULAR LENSES

TriDIFF
Trifocal IOL with a diffractive aspheric optic in hydrophilic material.

EyeDIFF Plus
Hydrophilic IOL with a spherical optic designed to reduce pupil dependency.

Ultima
Monofocal aspheric hydrophilic acrylic IOL, also as Natural and Smart Toric.

HYFLEX · HYFLEX-Y
Hydrophobic IOL family, including toric, preloaded and Versatile versions.

HYDIFF · Magnificent UHDF
Further hydrophobic IOLs from the EyeOL range.

IPCL
Phakic lens in hybrid hydrophilic acrylic, sphere −1.0 to +30.0 D, cylinder up to +10.0 D.

VISCOELASTICS

EyeGel · EyeGel Plus
HPMC 2% and 2.4% viscoelastics for intraocular surgery.

Ask us for specific models, specifications and prices.

HumanOptics

Intraocular lenses and artificial iris

Exclusive distributor for CZ & SK

German maker of premium implants for eye surgery, with development and production at its sites in Erlangen and Sankt Augustin. It is known for hydrophilic IOLs in extended (XL) power ranges and the ARTIFICIALIRIS for patients with aniridia.



INTRAOCULAR LENSES

ASPIRA-aA / -aAY
Aspheric monofocal hydrophilic IOL, clear or with blue-light filter; XL power range from −20 to +60 D.

ASPIRA-aAY+
Enhanced monofocal IOL with blue-light filter; refined aspheric optics add depth of field for intermediate vision.

ASPIRA-aXA
Monofocal IOL with a large 7.0 mm optic for wide pupils, iris defects and combined vitreoretinal surgery.

TORICA-aA / -aAY
Toric ASPIRA version with cylinder 1–20 D and spherical equivalent −20 to +60 D; optional blue-light filter.

TRIVA-aA / -aAY
Diffractive trifocal IOL (add +3.5 D near, +1.75 D intermediate) for near, intermediate and distance vision.

TRIVA T-aAY
Trifocal toric IOL with blue-light filter for patients with corneal astigmatism; cylinder 1.0–6.0 D.

IMPLANTATION SYSTEMS

SAFELOADER · Compact Line
Preloaded no-touch SAFELOADER or space-saving Compact Line, both used with the yellow Medicel AccuJect injector.

ARTIFICIAL IRIS

ARTIFICIALIRIS CUSTOMFLEX
Foldable silicone iris prosthesis, hand-painted to match the patient's own eye; for aniridia and iris defects.

ARTIFICIALIRIS SELECT
Iris implant in 9 predefined colours (brown, blue, green; light to dark), held in stock for urgent cases.

Ask us for specific models, specifications and prices.

PhysIOL

Trifocal, monofocal and toric IOLs

PhysIOL of Liège, Belgium, develops and makes intraocular lenses and has been part of BVI (Beaver-Visitec International) since 2019. The range covers trifocal, enhanced monofocal, monofocal and toric IOLs.



INTRAOCULAR LENSES

FINEVISION
Diffractive trifocal IOLs in hydrophilic acrylic (POD F, MICRO F), including the toric POD FT.

FINEVISION HP
Third-generation FINEVISION trifocal made of glistening-free hydrophobic GFY material, also as HP TORIC.

ISOPURE
Hydrophobic enhanced monofocal IOL for functional intermediate vision; also available preloaded (ISOPURE 1.2.3).

PODEYE
Glistening-free hydrophobic monofocal IOL, also available as a toric version.

MICROPURE
Glistening-free hydrophobic monofocal IOL.

ANKORIS
Hydrophilic toric IOL.

Ask us for specific models, specifications and prices.

Pollux-Nova

Hydrophobic intraocular lenses

Exclusive distributor for CZ & SK

POLLUX NOVA a.s. from Průhonice near Prague designs, develops and manufactures premium intraocular lenses and related devices for cataract surgery.



MONOFOCAL & EDOF

MONPHOBA Q
Monofocal aspheric glistening-free IOL with UV and blue-light filter, −5.0 to +40.0 D.

MONPHOBA CLEAR Q
Clear monofocal aspheric hydrophobic IOL with UV filter, −5.0 to +40.0 D.

EDOPHOBA Q
Aspheric hydrophobic IOL with a central EDOF zone for extended depth of focus.

TORIC & TRIFOCAL

MONPHOBA TORIC Q
Toric aspheric hydrophobic IOL, cylinder 0.5–6.0 D, for correcting astigmatism.

TRIPHOBA Q
Trifocal aspheric hydrophobic IOL with +3.25 D add for distance, intermediate and near.

Ask us for specific models, specifications and prices.



CETUS NanoLaser

Nd:YAG nanosecond laser for laser cataract surgery

Exclusive distributor for CZ & SK

CETUS adds laser photofragmentation of the lens to an existing phaco system: it connects via the phaco machine's pneumatic vitrectomy port and works with single-use laser handpieces. Its low-energy 1064 nm pulses are designed to be gentle on the corneal endothelium.

HIGHLIGHTS

- Compact unit that fits next to or under the phaco machine; existing surgical steps stay the same
- Single-use laser handpieces – no cleaning, sterilisation or tuning of phaco handpieces
- Laser class 1: no laser safety goggles required
- 7-inch touchscreen operation
- Maintenance-free design without a mandatory maintenance contract

TECHNICAL SPECIFICATIONS

Wavelength	1064 nm
Operating mode	Pulsed
Pulse energy	3–10 mJ
Pulse duration	5 ns
Repetition rate	Variable, up to 10 Hz
Connection to phaco system	Pneumatic vitrectomy port
Laser class	Class 1
Operation	7-inch touchscreen
Power supply	110–240 V AC, 650 VA, 50–60 Hz
Dimensions	135 × 478 × 421 mm
Weight	12 kg
Medical device risk class	Class IIb

Manufacturer brochure



CITO 532

Slit-lamp SLT laser (532 nm)

Exclusive distributor for CZ & SK

A selective laser trabeculoplasty system for lowering intraocular pressure in open-angle glaucoma. Its µ-chip laser source delivers a homogeneous 400 µm spot at repetition rates above 10 Hz, which keeps treatment sessions short.

HIGHLIGHTS

- µ-chip laser source instead of flash-lamp technology: homogeneous energy distribution and long service life
- Fast repetition (> 10 Hz) for short SLT sessions
- Touchscreen control with individually storable treatment programs
- Laser coupled into the slit-illumination path; permanent physician protection filter
- Also available combined with an Nd:YAG laser in COBRA or VARIO

TECHNICAL SPECIFICATIONS

Laser type	Q-switched, frequency-doubled Nd:YAG
Wavelength	532 nm
Pulse energy	0.2–2.0 mJ, quasi-continuous
Spot size	400 µm
Repetition rate	> 10 Hz
Pulse duration	3 ns
Aiming beam	Red 635 nm, 1 mW, adjustable
Laser exit angle	3.2°
Footprint	0.5 m²
Weight	53 kg incl. slit lamp
Power supply	100–240 V, 50/60 Hz, 600 W
Laser class	Class 3b
Medical device risk class	Class IIb

Manufacturer brochure



CLASSIC 514

514 nm retinal photocoagulation laser

Exclusive distributor for CZ & SK

A compact table-top photocoagulator that delivers the argon-green wavelength of 514 nm with up to 1.2 W. Coupled coaxially to the PCL5 SH slit lamp, it offers single-pulse, gated and micropulse modes for a wide range of retinal treatments.

HIGHLIGHTS

- Freely selectable spot sizes from 50 to 600 µm with the PCL5 SH slit lamp
- Coaxial laser coupling (SuperView) and an integrated neutral-colour protection filter
- Large, high-contrast display that is easy to read from the side; the laser sits on the table within easy reach
- Slit lamp with five magnification steps and LED or halogen illumination
- Also available in the VARIO combination with the Q-LAS Nd:YAG laser

TECHNICAL SPECIFICATIONS

Wavelength	514 nm
Laser class	Class 4
Maximum power	1.2 W
Operating modes	Single pulse, gated, micropulse
Pulse duration	15 ms – 2 s
Pulse interval	100–900 ms
Repetition rate	1–5 Hz
Spot size (PCL5 SH)	50–600 µm
Aiming beam	Red, 635 nm
Dimensions (H × W × D)	17 × 25 × 22 cm (with stand)
Weight	3.3 kg
Power supply	90–264 V AC, 47–63 Hz
Medical device risk class	Class IIb

Manufacturer brochure



COBRA

Combined Nd:YAG and SLT laser on one slit lamp

Exclusive distributor for CZ & SK

COBRA combines the CITO 532 SLT laser and the Q-LAS Nd:YAG laser – two independent laser sources – in a single slit-lamp workstation. One compact unit covers SLT for open-angle glaucoma as well as capsulotomy and iridotomy.

HIGHLIGHTS

- Two independent laser cavities: 532 nm SLT and 1064 nm Nd:YAG
- µ-chip SLT source with a homogeneous spot and a repetition rate of about 10 Hz
- High-resolution optics for the anterior segment with parallel or convergent eyepieces; integrated neutral-colour protection filter
- Wheelchair-friendly two-column table with motorised height adjustment up to 920 mm
- Touchscreen control for SLT; table optionally on castors

TECHNICAL SPECIFICATIONS

SLT laser	Q-switched, frequency-doubled Nd:YAG, 532 nm
SLT pulse energy	0.2–2.0 mJ
SLT spot size	400 µm
SLT repetition rate	> 10 Hz
SLT pulse duration	3 ns
Nd:YAG laser	Q-switched Nd:YAG, 1064 nm
Nd:YAG pulse energy	0.3–12 mJ
Nd:YAG pulse duration	4 ns
Aiming beam	Red diode 635 nm, 1 mW, adjustable
Table height adjustment	Motorised, up to 920 mm
Power supply	100–240 V, 50/60 Hz, 600 W
Medical device risk class	Class IIb

Manufacturer brochure



FOX IV 810

Portable 810 nm diode laser for glaucoma, retina and lacrimal surgery

Exclusive distributor for CZ & SK

A compact, battery-powered 810 nm diode laser for cyclophotocoagulation (CPC and micropulse µCPC), retinal photocoagulation via endoprobe or LIO, and transcanalicular DCR. Energy and time counters, voice output and a metronome help keep µCPC treatments consistent.

HIGHLIGHTS

- Up to 8 W at 810 nm, with a 3 W power limit for anterior and posterior segment applications
- CPC (cyclo) probe for conventional transscleral cyclophotocoagulation: selective coagulation of the ciliary body reduces aqueous production – mainly in open-angle glaucoma with very high pressure
- Patented µCPC probe for micropulse therapy: tissue-sparing and non-invasive; the probe is moved slowly along both hemispheres to increase aqueous outflow
- The rotationally symmetrical µCPC probe needs no orientation – it is held like a pen; a spherical fibre tip ensures good tissue contact and an integrated reservoir keeps the gel even throughout the procedure
- Energy and time counters with voice output every 10 J or 10 s, and a metronome every 1 s or 1 J to pace the µCPC probe
- Single-use 23G/25G endo probes, straight or curved; metal housing, touch display, battery or mains, carrying case

TECHNICAL SPECIFICATIONS

Laser type	Diode laser, class 4
Wavelength	810 nm
Maximum output power	8 W
Pulse duration	100 µs – 60 s or continuous (CW)
Pulse interval	100 µs – 60 s
Aiming beam	Red
Fibre connection	A.R.C. connector, 300 µm fibre
Glaucoma probes	CPC probe (conventional cyclophotocoagulation) and patented µCPC probe (micropulse, orientation-independent, with gel reservoir)
Operation	Colour touch display
Power supply	Battery or mains
Dimensions (H × W × D)	17.4 × 14.2 × 16.3 cm
Weight	1.53 kg
Medical device risk class	Class IIb

Manufacturer brochure



LIO

Laser indirect ophthalmoscope for FOX diode lasers

Exclusive distributor for CZ & SK

A Neitz binocular indirect ophthalmoscope with an integrated A.R.C. laser coupling that turns the portable FOX diode laser into a mobile retinal photocoagulation system. It enables diagnosis and laser treatment independent of a slit lamp – suited to ROP and to infants or patients with limited cooperation.

HIGHLIGHTS

- Patented A.R.C. click-plug system for quick connection to the battery-powered FOX laser
- Integrated clear-view laser protection filter that keeps the view unobstructed
- LED illumination, high-contrast optics and built-in IR/UV filters
- Additional 1.6× hi-mag lens; stereoscopic view of the fundus
- Indications include retinal detachment, diabetic retinopathy, AMD and ROP

TECHNICAL SPECIFICATIONS

Ophthalmoscope	Neitz binocular indirect ophthalmoscope
Compatible lasers	FOX 810 / FOX IV 810 (810 nm)
Laser connection	A.R.C. click-plug system
Illumination	LED module, neutral cool white
Filters	Built-in IR/UV filters; integrated clear-view laser protection filter
Additional magnification	1.6× (hi-mag lens)

Manufacturer brochure



Q-LAS

Slit-lamp Nd:YAG laser for capsulotomy and iridotomy

Exclusive distributor for CZ & SK

A Q-switched 1064 nm Nd:YAG laser integrated into an A.R.C. slit lamp for posterior capsulotomy and peripheral iridotomy. The current Q-LAS D uses a diode-pumped cavity for stable pulse-to-pulse energy and a longer service life.

HIGHLIGHTS

- Dual-spot aiming beam for reliable focusing, with adjustable brightness
- Triple burst mode and three-step posterior focus shift (0/150/300 µm)
- Laser beam and slit illumination are coaxial; TrueColour protection filter
- Ambidextrous control stick and tiltable control panel with pulse and energy counter
- Available with PCL5 Z (prism illumination) or PCL5 SH slit lamps; optional head-up display

TECHNICAL SPECIFICATIONS

Laser type	Q-switched Nd:YAG (diode-pumped in Q-LAS D)
Wavelength	1064 nm
Pulse energy	0.5–10 mJ, continuously adjustable
Pulse duration	4 ns
Spot diameter in air	< 10 µm
Cone angle	16°
Burst mode	1, 2 or 3 pulses
Repetition rate	Up to 4 Hz in all burst modes (Q-LAS D)
Focus shift	0 / 150 / 300 µm posterior
Dimensions (H × W × D)	Laser 43 × 33 × 50 cm; with table 130 × 86 × 57 cm
Weight	12.6 kg (laser in slit lamp); 44 kg with table
Power supply	100–240 V AC, 50–60 Hz
Medical device risk class	Class IIb

Manufacturer brochure



VARIO

Two-laser combination workstation

Exclusive distributor for CZ & SK

VARIO places two A.R.C. lasers – each with its own slit lamp – on one shared table, for example a Q-LAS Nd:YAG laser with a CLASSIC 514 photocoagulator or a CITO 532 SLT laser. It suits practices that need two laser modalities in limited space.

HIGHLIGHTS

- Configurable with CLASSIC 514 (photocoagulation), Q-LAS (capsulotomy, iridotomy) or CITO 532 (SLT)
- Two slit lamps included, with optics matched to each application
- Table width leaves room for physician and patient, including wheelchair users
- Saves space compared with two separate laser stations

TECHNICAL SPECIFICATIONS

Lasers per system	2 (combination of CLASSIC 514, Q-LAS, CITO 532)
Wavelengths (by configuration)	514 / 532 / 1064 nm
Slit lamps	2, included
Wheelchair access	Yes



CAPSULaser

Selective laser capsulotomy (SLC) system mounted on the surgical microscope

Exclusive distributor for CZ & SK

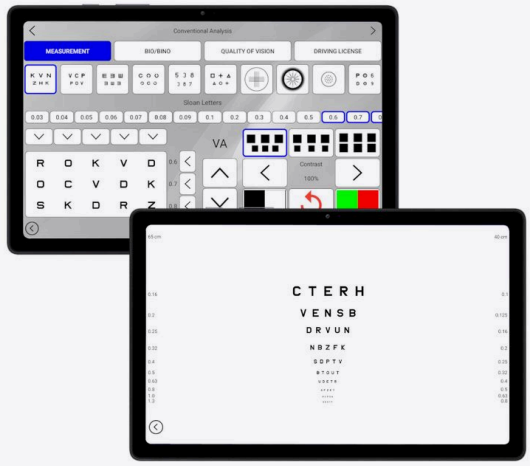
A small laser module mounted on the operating microscope that creates the anterior capsulotomy during cataract surgery in under one-third of a second – without moving the patient. The capsule is first stained with CAPSULBlue; the continuous-wave laser then produces a round, free-floating capsulotomy with an elastic, tear-resistant rim.

HIGHLIGHTS

- Capsulotomy diameter preselected from 4.0 to 5.5 mm in 0.1 mm steps
- Treatment in under ⅓ second at the OR microscope – the patient is not moved
- Continuous laser delivery avoids the tissue bridges of pulsed systems
- Elastic, tear-resistant rim with a rolled-over edge and 360° tag-free profile
- Adjustable size and aiming-beam intensity; short learning curve
- Used together with CAPSULBlue capsule stain and CAPSULGel coupling gel

TECHNICAL SPECIFICATIONS

Capsulotomy diameter	4.0–5.5 mm, in 0.1 mm steps
Treatment duration	< ⅓ s
Treatment laser	Solid-state laser, 590 ± 3 nm, continuous wave (100% duty cycle), class 4
Aiming beam	Diode laser 635 ± 10 nm, < 10 mW, class 2
Mounting	On the surgical microscope
Power supply	120–230 V, 50/60 Hz (fuse 250 V T 3 A)
Operating conditions	15–32 °C, humidity up to 90 % at 32 °C, altitude up to 3,900 m
Certification	CE marked; made in the USA under ISO 13485
Medical device risk class	Class IIb



VistaVision EyeTablet

Tablet controller and near-vision tester

Exclusive distributor for CZ & SK

10-inch touchscreen console that runs VistaVision chart panels over Wi-Fi – no need to look at the chart – and doubles as a near-vision tester at 40 cm.

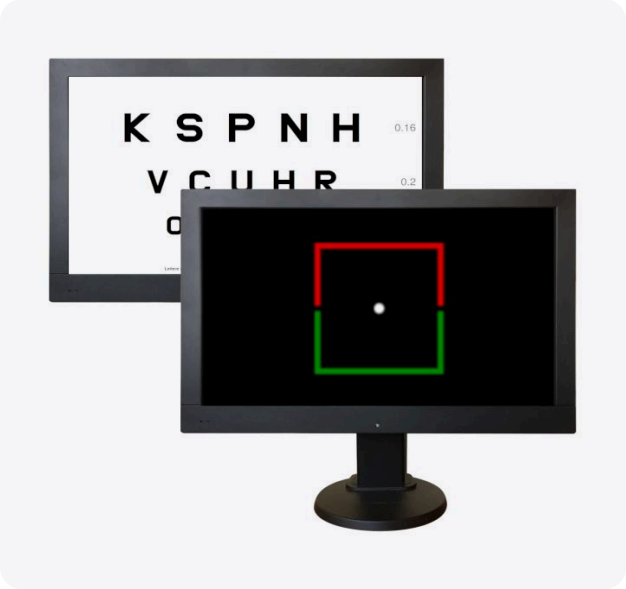
HIGHLIGHTS

- Direct access to every test, with masking, contrast and crowding controls
- One-touch polarisation inversion, red/green and black/white switching where available
- Near-vision tests in three programmes: measurement, reading and quality of vision
- Controls several chart panels in one room; the IR remote keeps working in parallel
- Free lifetime software updates

TECHNICAL SPECIFICATIONS

Display	10.1″ colour touchscreen, 1920 × 1200 px
Near test distance	40 cm
Near-vision programmes	measurement, reading, quality of vision
Connection to chart	Wi-Fi
Operating system	Android 9
Battery	4 850 mAh, Li-polymer
Charger	5.0 V DC / 2.0 A
Dimensions (W × H × D)	242 × 168 × 8.1 mm
Weight	480 g
Compatibility	VistaVision Far Vision Device and Far Vision Device POLA
Order code	4DMD EYETABL-3W
Medical device risk class	Class I

Manufacturer brochure



VistaVision Far Vision Device

24″ LCD visual-acuity chart (red/green)

Exclusive distributor for CZ & SK

Calibrated 24-inch Full HD chart panel for distance vision testing that brings optotypes, ETDRS charts, contrast sensitivity, Ishihara plates and red-green binocular tests together in one silent, wall-mountable unit.

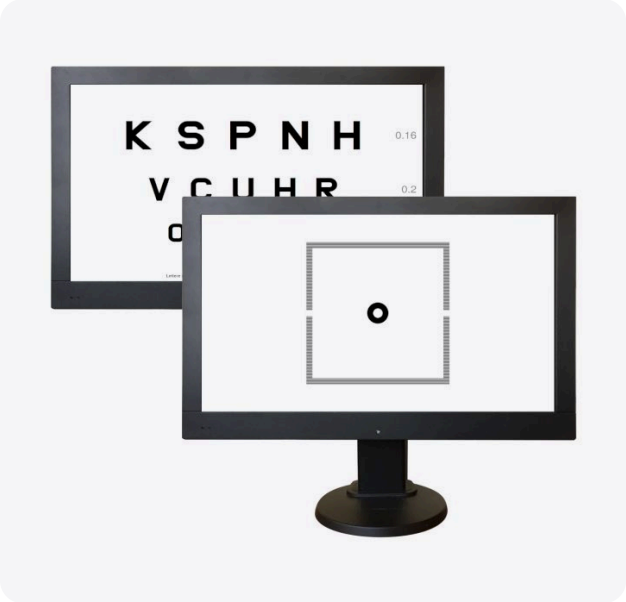
HIGHLIGHTS

- Wide test library: Snellen, Sloan, ETDRS, Landolt C, Tumbling E, children's symbols, 25 Ishihara plates and red-green stereo tests
- "FAST 2-1" contrast-sensitivity procedure across 6 spatial frequencies with a graphical report
- Random optotypes, single-letter and line masking, programmable test sequences
- Built-in Maddox LED test and driving-licence procedure; fanless and silent
- Optional EyeTablet control and BlueKit wireless link to compatible digital phoropters

TECHNICAL SPECIFICATIONS

Display	24″ TFT LCD, Full HD 1920 × 1080, anti-glare
Luminance / contrast	250 cd/m², 1 000:1
Visual acuity range	0.03–2.0 (decimal)
Test distance	up to 8 m, in 5 cm steps
Acuity notations	17 (decimal, logMAR, Snellen 6/ and 20/, …)
Contrast sensitivity test	FAST 2-1: 144 stimuli, 8 contrast levels, 0.75–18 cycles/°
Control	IR remote control; optional EyeTablet (Wi-Fi)
Mounting	wall mount, VESA 100
Dimensions (W × H × D)	59.5 × 37.0 × 5.0 cm
Weight	4.3 kg
Power supply	110–220 V AC, 50–60 Hz
Warranty	6 years (2 years on the LCD)
Medical device risk class	Class I

Manufacturer brochure



VistaVision Far Vision Device POLA

24″ polarised LCD visual-acuity chart

Exclusive distributor for CZ & SK

Polarised version of the VistaVision chart panel (linear or circular polarisation) that fully separates the images for each eye, so MKH-Haase and other binocular tests run alongside standard acuity charts.

HIGHLIGHTS

- Complete MKH-Haase sequence and more than 30 polarised tests without ghost images
- Optotypes with positive polarisation on an evenly lit background
- Also includes ETDRS charts, Ishihara plates, FAST 2-1 contrast sensitivity and red-green tests
- Programmable sequences, random optotypes and a driving-licence procedure
- IR remote or EyeTablet control; BlueKit links it to compatible digital phoropters

TECHNICAL SPECIFICATIONS

Display	24″ TFT LCD, Full HD 1920 × 1080, linear or circular polarisation
Luminance / contrast	250 cd/m², 1 000:1
Image separation	100 % (no ghost images)
Polarised tests	MKH-Haase sequence, 30+ polarised tests
Visual acuity range	0.03–2.0 (decimal)
Test distance	up to 8 m, in 5 cm steps
Acuity notations	17 (decimal, logMAR, Snellen 6/ and 20/, …)
Control	IR remote control; optional EyeTablet (Wi-Fi)
Dimensions (W × H × D)	59.5 × 37.0 × 5.0 cm
Weight	4.3 kg
Power supply	110–220 V AC, 50–60 Hz, 60 VA
Warranty	6 years (2 years on the LCD)
Medical device risk class	Class I

Manufacturer brochure



CV 600

LCD chart panel (24″, non-polarised)

Exclusive distributor for CZ & SK

A 24″ Full-HD chart panel preloaded with standard optotypes plus colour-vision, red-green and contrast tests. It links to the Phoromat 2000 via Wi-Fi or Bluetooth, leaving you free to arrange the room.

HIGHLIGHTS

- Wi-Fi/Bluetooth connection to the Phoromat 2000
- Snellen, Landolt, ETDRS and crowding-bar charts
- Red-green tests (Schober, Worth, fixation disparity) and colour-vision plates
- Children's optotypes (HOTV, hands, pictures) and patient-education content
- VESA 100 wall mount and IR remote control

TECHNICAL SPECIFICATIONS

Display	24″ Full-HD LCD
Working distance	2.0–7.0 m (0.1 m steps)
Visual acuity units	Decimal, logMAR, metre, feet
Programs	2 programs, up to 20 charts
Connection to Phoromat 2000	Wi-Fi/Bluetooth or RS-232 cable
Ports	1× USB 2.0, RS-232C
Test groups	Standard, colour vision, red-green, low vision, contrast, children, patient education
Remote control	Included (IR, 3 channels)
Dimensions (W × D × H)	583 × 55 × 423 mm
Weight	5.7 kg
Power consumption	35–45 VA
Medical device risk class	Class I

Manufacturer brochure



CV 800P

Polarised LCD chart panel (24″)

Exclusive distributor for CZ & SK

The polarised version of the CV 600: a 24″ Full-HD panel with linear polarisation for heterophoria (MKH), binocular balance and stereo tests. It links to the Phoromat 2000 via Wi-Fi or Bluetooth.

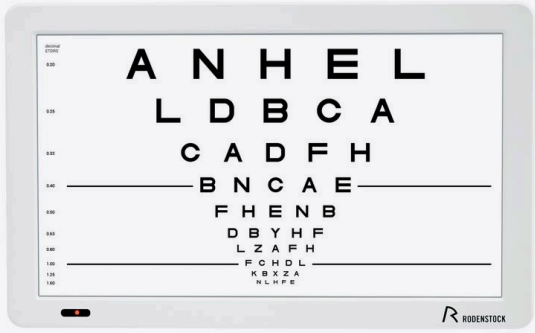
HIGHLIGHTS

- Linear polarisation with precise image separation
- MKH heterophoria test sequence, coincidence and balance tests
- Polarised red-green and stereo tests
- Wi-Fi/Bluetooth connection to the Phoromat 2000
- All standard, low-vision and children's charts of the CV 600

TECHNICAL SPECIFICATIONS

Display	24″ Full-HD LCD, linear polarisation
Working distance	2.0–7.0 m (0.1 m steps)
Visual acuity units	Decimal, logMAR, metre, feet
Programs	2 programs, up to 20 charts
Polarised tests	MKH phoria test, polarised Snellen mask, horizontal/vertical coincidence, balance, stereo, polarised red-green
Connection to Phoromat 2000	Wi-Fi/Bluetooth or RS-232 cable
Ports	1× USB 2.0, RS-232C
Remote control	Included (IR, 3 channels)
Dimensions (W × D × H)	583 × 55 × 423 mm
Weight	5.7 kg
Power consumption	35–45 VA
Medical device risk class	Class I

Manufacturer brochure



CV 900

LCD chart panel (23.8″) with patient-education mode

Exclusive distributor for CZ & SK

A preprogrammed 23.8″ chart panel with all the charts needed for conventional refraction, plus contrast-sensitivity tests and a multimedia mode for patient education. It connects to the Phoromat 2000 via infrared.

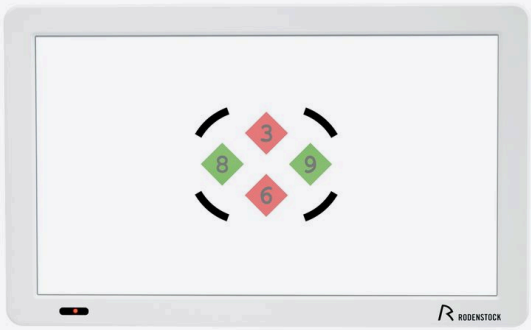
HIGHLIGHTS

- Infrared connection to the Phoromat 2000 via optional CommBox
- Red-green charts for binocular vision tests
- Contrast-sensitivity and colour-vision tests (Ishihara, 100 Hue)
- Low-vision charts incl. ETDRS, crowding bars and AMD optotypes
- Multimedia patient-education mode and 3D images

TECHNICAL SPECIFICATIONS

Display	23.8″ Full-HD LCD
Working distance	2.0–7.0 m (0.1 m steps)
Visual acuity units	Decimal, logMAR, metre, feet
Programs	3 programs, up to 15 charts
Connection to Phoromat 2000	Infrared via CommBox (optional)
Ports	2× USB
Test groups	Standard, colour vision, red-green, low vision, contrast sensitivity, children, hearing/speech impaired, patient education
Remote control	Included (IR, 3 channels)
Dimensions (W × D × H)	600 × 62 × 370 mm
Weight	4.4 kg
Power supply	100–230 V AC, 50/60 Hz
Power consumption	40 W

Manufacturer brochure



CV 1000P

Polarised LCD chart panel (23.8″)

Exclusive distributor for CZ & SK

A 23.8″ polarised chart panel with an extensive selection of polarised tests, including the MKH heterophoria sequence, and optional driving-licence test equipment. It connects to the Phoromat 2000 via infrared.

HIGHLIGHTS

- Linear polarisation with precise image separation
- MKH heterophoria test sequence; polarised ETDRS and Snellen masks
- Stereo, coincidence and polarised red-green tests
- Programmable display sequences (3 programs)
- Optional driving-licence test equipment; infrared link to the Phoromat 2000

TECHNICAL SPECIFICATIONS

Display	23.8″ LCD, linear polarisation
Working distance	2.0–7.0 m (0.1 m steps)
Visual acuity units	Decimal, logMAR, metre, feet
Programs	3 programs, up to 15 charts
Polarised tests	MKH phoria test, polarised ETDRS and Snellen masks, horizontal/vertical coincidence, balance, stereo, polarised red-green
Connection to Phoromat 2000	Infrared via CommBox (optional)
Ports	2× USB
Remote control	Included (IR, 3 channels)
Dimensions (W × D × H)	600 × 62 × 370 mm
Weight	4.7 kg
Power supply	100–230 V AC, 50/60 Hz
Power consumption	40 W

Manufacturer brochure



Rodachart 422

Automatic LED chart projector

Exclusive distributor for CZ & SK

A compact, lightweight auto chart projector with 42 essential refraction charts, a maintenance-free LED light source and an average chart change of 0.2 s. It connects to the Phoromat 2000 for an integrated refraction workflow.

HIGHLIGHTS

- 42 charts covering the essential refraction tests
- Maintenance-free LED light source
- Convenient focus adjustment via rotary aperture
- Two user programs with up to 40 charts each
- Remote control; RS-232C link to the Phoromat 2000

TECHNICAL SPECIFICATIONS

Number of charts	42
Projection distance	2.5–8 m (screen for 8 m optional)
Chart magnification	30× at 5 m
Chart change	0.2 s on average
Light source	LED
Resolution	50 lines/mm
Tilt angle	±20°
Programs	2 programs, up to 40 charts each
Interface	RS-232C
Dimensions with stand (W × D × H)	200 × 290 × 235 mm
Weight with stand	3.6 kg
Power consumption	25–35 VA
Medical device risk class	Class I

Manufacturer brochure



AL 6500

Automatic lensmeter (Shack-Hartmann)

Exclusive distributor for CZ & SK

An automatic lensmeter that measures spectacle lenses and rigid contact lenses with a 145-point Shack-Hartmann wavefront sensor. It also checks UV and blue-light transmittance, and for precise values you can select e- or d-line wavelength and Abbe compensation.

HIGHLIGHTS

- Shack-Hartmann wavefront sensor with 145 measurement points
- UV (400 nm) and blue-light (420 nm) transmittance measurement
- Selectable e- or d-line wavelength and Abbe compensation
- Integrated universal lens-marking tool for all coatings
- 7″ tilting touch screen and built-in thermal printer

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +25.00 D
Cylinder range	−10.00 to +10.00 D
Axis	0–180°
Addition	0 to +10 D
Prism power	0–20 Δ
Measurement increments	0.01 / 0.06 / 0.12 / 0.25 D
Wavelength	525 nm, e-line 546.07 nm, d-line 587.56 nm
Abbe value	30–60
Lens diameter	5–120 mm
Display	7″ colour TFT touch screen, tilting
Dimensions (W × D × H)	198 × 245 × 420 mm
Weight	approx. 5 kg
Medical device risk class	not a medical device

Manufacturer brochure



AL 6600

Automatic lensmeter with wavefront technology

Exclusive distributor for CZ & SK

A wavefront lensmeter for spectacle and contact lenses that helps identify progressive-lens markings and measures UV and blue-light transmission together with lens power. Automatic PD measurement, Ethernet and Wi-Fi are built in.

HIGHLIGHTS

- Hartmann sensor with 117 measurement points
- Green LED measuring light – no Abbe compensation needed
- Simultaneous UV/blue-light transmission and power measurement
- Lens-mark recognition support with swipeable grid patterns, also for progressive lenses
- Automatic PD measurement; RS-232C, USB, Ethernet and Wi-Fi

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +25.00 D
Cylinder range	−10.00 to +10.00 D
Axis	0–180°
Addition	−2 to +10 D
Prism power	0–15 Δ
Measurement increments	0.01 / 0.06 / 0.12 / 0.25 D
Wavelength	535 nm
UV / blue-light transmittance	Peak at 375 nm (UV) and 465 nm (blue)
Lens diameter	20–120 mm (contact lenses from 5 mm)
PD range	40–86 mm (0.5 mm steps)
Dimensions (W × D × H)	188 × 240 × 430 mm (display tilted)
Weight	approx. 5.5 kg

Manufacturer brochure



AL 6700

Automatic lensmeter with PD measurement and Wi-Fi

Exclusive distributor for CZ & SK

Everything the AL 6500 offers – 145-point Shack-Hartmann measurement, UV/blue-light transmittance and e/d-line selection – plus pupillary-distance measurement and Wi-Fi for wireless data transfer.

HIGHLIGHTS

- Shack-Hartmann wavefront sensor with 145 measurement points
- PD measurement from 45 to 90 mm
- Wi-Fi connection in addition to RS-232C
- UV/blue-light transmittance; universal lens-marking tool
- 7″ tilting touch screen and built-in thermal printer

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +25.00 D
Cylinder range	−10.00 to +10.00 D
Axis	0–180°
Addition	0 to +10 D
Prism power	0–20 Δ
Wavelength	525 nm, e-line 546.07 nm, d-line 587.56 nm
UV / blue-light transmittance	400 nm / 420 nm
PD range	45–90 mm
Lens diameter	5–120 mm
Interfaces	RS-232C, Wi-Fi
Dimensions (W × D × H)	198 × 245 × 420 mm
Weight	approx. 5 kg
Medical device risk class	not a medical device

Manufacturer brochure



BriAn

Spectacle lens analyser (transmission deflectometry)

Exclusive distributor for CZ & SK

A lens analyser for opticians that maps the refractive-power distribution of both lenses in a pair of glasses in under 10 seconds, without touching or clamping them. True-to-scale colour maps make lens designs and their differences easy to explain to customers.

HIGHLIGHTS

- For opticians: visualises and compares spectacle-lens designs for customers
- Binocular analysis in under 10 seconds using transmission deflectometry
- Contact-free measurement on a three-point holder – glasses are neither moved nor clamped
- 1:1 power and prism maps across the whole lens; continuous or discrete colour scales
- Tiltable 10.1″ touch display; developed and made in Germany

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +15.00 D
Cylinder and addition	Limited only by total power
Axis	0–180°
Prism power	0–20 Δ
Measured object	Spectacle lenses
Lens diameter	25–60 mm
Measurement time	Under 10 s (both lenses)
Display	10.1″ colour TFT touch screen, tiltable
Output	RS-232C, Ethernet
Dimensions (W × D × H)	approx. 280 × 500 × 400 mm
Weight	11 kg
Power supply	230 V AC

Manufacturer brochure



OCT Clinical Atlas

Clinical atlas of anterior-segment OCT

Exclusive distributor for CZ & SK

Optopol Technology's clinical atlas of optical coherence tomography focused on the anterior segment. Clear images of normal and pathological findings with expert commentary help interpret OCT in everyday practice. Written by Adam Wylęgała and Prof. Edward Wylęgała.

HIGHLIGHTS

- Focused on the anterior segment (AS-OCT)
- Normal and pathological findings with clinical commentary
- Supports diagnosis and follow-up
- For ophthalmologists and optometrists; complements Optopol OCT

TECHNICAL SPECIFICATIONS

Authors	Adam Wylęgała, MD, DM, FEBO; prof. Edward Wylęgała, MD, PhD
Publisher	Optopol Technology
Focus	Anterior segment (AS-OCT)
Intended for	Ophthalmologists and optometrists
Medical device risk class	not a medical device (professional publication)

ERG Atlas

Electroretinography (ERG) atlas

Exclusive distributor for CZ & SK

An electroretinography atlas from Roland Consult, the maker of the RETI-port/scan 21 electrophysiology systems. Ask our sales team for details and availability.

HIGHLIGHTS

- Focused on electroretinography (ERG)
- Complements Roland Consult electrophysiology

TECHNICAL SPECIFICATIONS

Publisher	Roland Consult
Focus	Electroretinography (ERG)
Medical device risk class	not a medical device (professional publication)



REVO 2 FC

Widefield OCT with widefield fundus camera

Coming soon | Exclusive distributor for CZ & SK

Next-generation REVO combining 80 000 A-scan/s OCT with a 20.3 MP widefield fundus camera (60°, i.e. 90° from the eye centre). Listed by Optopol as coming soon; availability to be confirmed.

HIGHLIGHTS

- Widefield OCT scans up to 20 mm; ≈115° with the optional UWF lens
- Optional multimodal fundus imaging: green/blue FAF, FA and ICGA
- Fundus mosaics up to 132° (≈198° from eye centre); OCT-A mosaic 10 × 6 mm
- Embedded AI for OCT and fundus analysis, including anomaly detection
- Shares one patient database with FUNDO and other REVO devices

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT + widefield fundus camera
Scan speed	80 000 A-scan/s
Axial resolution	5.5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 3–20 mm, angio 3–20 mm, anterior 3–18 mm
Minimum pupil size (OCT)	2 mm
Field of view	fundus 60° (90° from eye centre); small pupil 45° (67°)
Camera sensor	20.3 MP CMOS
UWF lens (optional)	≈115° scan angle
Dimensions (L × W × H)	490 × 350 × 530 mm
Weight	30 kg
Medical device risk class	Class IIa

Manufacturer brochure



REVO 2 FC130

Widefield OCT with widefield fundus camera

Coming soon **Exclusive distributor for CZ & SK**

Next-generation REVO combining 130 000 A-scan/s OCT with a 20.3 MP widefield fundus camera (60°, i.e. 90° from the eye centre). Listed by Optopol as coming soon; availability to be confirmed.

HIGHLIGHTS

- Widefield OCT scans up to 20 mm; ≈115° with the optional UWF lens
- Optional multimodal fundus imaging: green/blue FAF, FA and ICGA
- Fundus mosaics up to 132° (≈198° from eye centre); OCT-A mosaics up to 10 × 10 mm
- Embedded AI for OCT and fundus analysis, including anomaly detection
- Shares one patient database with FUNDO and other REVO devices

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT + widefield fundus camera
Scan speed	130 000 A-scan/s
Axial resolution	5.5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 3–20 mm, angio 3–20 mm, anterior 3–18 mm
Minimum pupil size (OCT)	2 mm
Field of view	fundus 60° (90° from eye centre); small pupil 45° (67°)
Camera sensor	20.3 MP CMOS
UWF lens (optional)	≈115° scan angle
Dimensions (L × W × H)	490 × 350 × 530 mm
Weight	30 kg
Medical device risk class	Class IIa

Manufacturer brochure



REVO 60

Spectral-domain OCT

Exclusive distributor for CZ & SK

Entry model of the REVO OCT line, scanning at 60 000 A-scans per second. Covers retinal, glaucoma and anterior-segment imaging in one compact, automated device.

HIGHLIGHTS

- One-button automatic alignment, focus and capture
- Posterior and anterior segment scans without an extra adapter
- Full Range mode for deeper scans, e.g. in high myopia
- AI-based retinal layer segmentation and AI noise reduction
- Optional OCT-A, B-OCT biometry with IOL calculator and T-OCT topography

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT
Scan speed	60 000 A-scan/s
Light source	SLED 850 nm (50 nm bandwidth)
Axial resolution	5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 5–15 mm, angio 3–6 mm, anterior 3–18 mm
Minimum pupil size (OCT)	1.7 mm
Focus adjustment	−25 D to +25 D
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	29 kg
Power supply / consumption	100–240 V, 50/60 Hz; 90–110 VA
Medical device risk class	Class IIa

Manufacturer brochure



REVO 80

Spectral-domain OCT

Exclusive distributor for CZ & SK

Mid-range REVO OCT with redesigned optics and 80 000 A-scans per second. Brings retinal, glaucoma and anterior-segment exams into one automated workflow.

HIGHLIGHTS

- One-button automatic alignment, focus and capture
- AI segmentation of up to 10 retinal layers and AI noise reduction
- Widefield 3D analysis up to 15 × 15 mm and a cataract mode
- Glaucoma toolkit and Structure + Function report with PTS perimeters
- Optional OCT-A, B-OCT biometry with IOL calculator and T-OCT topography

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT
Scan speed	80 000 A-scan/s
Light source	SLED 850 nm (50 nm bandwidth)
Axial resolution	5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 5–15 mm, angio 3–6 mm, anterior 3–18 mm
Minimum pupil size (OCT)	1.7 mm
Focus adjustment	−25 D to +25 D
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	29 kg
Power supply / consumption	100–240 V, 50/60 Hz; 90–110 VA
Medical device risk class	Class IIa

Manufacturer brochure



REVO FC

Spectral-domain OCT with fundus camera

Exclusive distributor for CZ & SK

Combines 80 000 A-scan/s spectral-domain OCT with a 12.3 MP non-mydriatic colour fundus camera. One automated sequence captures OCT scans and a fundus photo without dilation.

HIGHLIGHTS

- Fully automatic alignment, focus, flash and capture
- AccuTrack real-time eye tracking reduces motion and blink artefacts
- Mosaic fundus photography up to 100° (≈150° from eye centre)
- Optional UWF lens for single OCT scans up to ≈105°
- Optional OCT-A, B-OCT biometry with IOL calculator and T-OCT topography

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT + colour fundus camera
Scan speed	80 000 A-scan/s
Light source	SLED 850 nm (50 nm bandwidth)
Axial resolution	5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 5–15 mm, angio 3–9 mm, anterior 3–18 mm
Fundus camera	45° (67.5° internal), 12.3 MP, non-mydriatic
Minimum pupil size (OCT / fundus)	1.7 mm / 3.3 mm
UWF lens (optional)	≈105° scan angle
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	30 kg
Medical device risk class	Class IIa

Manufacturer brochure



REVO FC 130

Spectral-domain OCT with fundus camera

Exclusive distributor for CZ & SK

The REVO FC concept at 130 000 A-scans per second: fast spectral-domain OCT and a 12.3 MP non-mydriatic colour fundus camera, operated with one button.

HIGHLIGHTS

- Fully automatic alignment, focus, flash and capture
- AccuTrack real-time eye tracking reduces motion and blink artefacts
- Mosaic fundus photography up to 100° (≈150° from eye centre)
- Optional OCT-A with scans up to 15 mm and mosaics up to 10 × 10 mm
- Optional UWF lens (≈105°), B-OCT biometry and T-OCT topography

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT + colour fundus camera
Scan speed	130 000 A-scan/s
Light source	SLED 850 nm (50 nm bandwidth)
Axial resolution	5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 3–15 mm, angio 3–15 mm, anterior 3–18 mm
Fundus camera	45° (67.5° internal), 12.3 MP, non-mydriatic
Minimum pupil size (OCT / fundus)	1.7 mm / 3.3 mm
UWF lens (optional)	≈105° scan angle
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	30 kg
Medical device risk class	Class IIa

Manufacturer brochure



REVO HR

Ultra-high-resolution OCT with fundus camera

Exclusive distributor for CZ & SK

Optopol's top all-in-one OCT: 3 µm axial resolution at 130 000 A-scans per second, with retinal and anterior OCT, OCT-A and a colour fundus camera on one platform.

HIGHLIGHTS

- 870 nm light source with 93 nm bandwidth for 3 µm axial resolution in tissue
- Fine microstructure of the retina and anterior segment helps reveal subtle changes
- AccuTrack real-time eye tracking and one-button auto functions
- AI segmentation, cataract mode and widefield 3D analysis up to 15 × 15 mm
- Optional UWF lens for OCT scans up to ≈105°

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT + colour fundus camera
Scan speed	130 000 A-scan/s
Light source	SLED 870 nm (93 nm bandwidth)
Axial resolution	3 µm in tissue (≈1.3 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.6 mm; 5.4 mm in Full Range mode
Scan width	posterior 3–15 mm, angio 3–15 mm, anterior 3–18 mm
Fundus camera	45° (67.5° internal), 12.3 MP, non-mydriatic
Minimum pupil size (OCT / fundus)	1.7 mm / 3.3 mm
UWF lens (optional)	≈105° scan angle
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	30 kg
Medical device risk class	Class IIa

Manufacturer brochure



REVO moduly Angio · Bio · Topo

Add-on modules for REVO OCT: angiography, biometry, topography

Exclusive distributor for CZ & SK

Three licensed modules that can be added to any REVO OCT at any time – no extra device. ANGIO shows retinal and choroidal vessels without dye, BIO measures the eye for IOL calculation and TOPO creates corneal topography maps including keratoconus screening.

HIGHLIGHTS

- ANGIO (OCT angiography): retinal and choroidal vessels without dye; foveal avascular zone (FAZ) and vessel density
- BIO (B-OCT biometry): axial length, corneal thickness, anterior chamber depth, lens thickness, white-to-white and pupil size
- IOL calculation in BIO: 5 formulas (Hoffer Q, Holladay I, Haigis, Theoretical T, Regression II), IOLCon or ULIB constants
- TOPO (T-OCT topography): anterior, posterior and total corneal power maps, epithelium and pachymetry maps; keratoconus screening
- Can be added later to an existing REVO – no extra hardware

TECHNICAL SPECIFICATIONS

Compatibility	REVO 60, 80, NX 130, FC, FC 130 and HR
ANGIO module	A-OCT – retinal and choroidal slabs; FAZ, VFA, NFA; vessel and skeleton density
BIO module	B-OCT biometry – AL, CCT, ACD, LT, WTW, pupil size
IOL calculation (with BIO)	Hoffer Q, Holladay I, Haigis, Theoretical T, Regression II; IOLCon.org, ULIB or manufacturer constants
TOPO module	T-OCT topography – axial, tangential and elevation maps, total power, epithelium, pachymetry; capture up to 0.3 s
Keratoconus screening (TOPO)	classification by KPI, SAI, DSI, OSI, CSI
Hardware	none needed – licence for the existing device



REVO NX 130

High-speed spectral-domain OCT

Exclusive distributor for CZ & SK

Fast OCT without a fundus camera, scanning at 130 000 A-scans per second. Motion and blink compensation helps when patients struggle to hold fixation.

HIGHLIGHTS

- One-button automatic alignment, focus and capture
- Widefield 3D analysis up to 15 × 15 mm; Wide Cornea anterior scan
- AI layer segmentation, AI noise reduction and a cataract mode
- Glaucoma toolkit and Structure + Function report with PTS perimeters
- Optional OCT-A, B-OCT biometry with IOL calculator and T-OCT topography

TECHNICAL SPECIFICATIONS

Technology	Spectral-domain OCT
Scan speed	130 000 A-scan/s
Light source	SLED 850 nm (50 nm bandwidth)
Axial resolution	5 µm in tissue (2.8 µm digital)
Transverse resolution	12 µm (typically 18 µm)
Scan depth	2.8 mm; ≈6 mm in Full Range mode
Scan width	posterior 3–15 mm, angio 3–9 mm, anterior 3–18 mm
Minimum pupil size (OCT)	1.7 mm
Focus adjustment	−25 D to +25 D
Dimensions (L × W × H)	482 × 367 × 494 mm
Weight	29 kg
Power supply / consumption	100–240 V, 50/60 Hz; 90–110 VA
Medical device risk class	Class IIa

Manufacturer brochure



MonacoPro

Ultra-widefield imaging with SD-OCT

Exclusive distributor for CZ & SK

Ultra-widefield optomap imaging with integrated spectral-domain OCT: a 200° retinal image plus 40° cross-sectional OCT, with up to five modalities for both eyes in about 90 seconds.

HIGHLIGHTS

- optomap colour, red-free, choroidal and green AF alongside SD-OCT
- Active eye tracking and automatic OCT scan positioning
- Retina, GCC, RNFL and optic-disc analysis against a reference database
- AreaAssist automatically outlines and measures areas of matching colour
- Successor to Monaco, launched in 2025; DICOM compatible

TECHNICAL SPECIFICATIONS

Model name / number	P200TE / A10700
Field of view	200° optomap in a single capture; OCT 40°
Imaging modalities	color rg, sensory, choroidal, green AF + SD-OCT
optomap resolution	14 µm (optomap plus), 20 µm (optomap)
OCT light source	SLD 840 nm
Scan speed	70 000 A-scan/s
Axial resolution	< 7 µm in tissue (< 5 µm digital)
Transverse resolution	< 20 µm in tissue (< 15 µm digital)
Scan depth	2.3 mm in tissue
OCT scan types	line (12 mm), raster, retinal topography, ONH topography, RNFL
Dimensions (W × D × H)	550 × 570 × 606–632 mm
Weight	max. 40 kg
Medical device risk class	Class IIa

Manufacturer brochure



Silverstone

Ultra-widefield imaging with swept-source OCT

Exclusive distributor for CZ & SK

Combines 200° optomap imaging with swept-source OCT that can be aimed anywhere on the image, from the macula to the far periphery. The current Silverstone RGB generation adds true-colour imaging, for nine modalities in total.

HIGHLIGHTS

- 1050 nm swept-source OCT for deeper penetration into the choroid
- optomap colour, red-free, choroidal, AF, FA and ICG in one device
- Silverstone RGB (2025) adds color rgb and blue autofluorescence
- Automatic rescan for precise follow-up; AreaAssist measurement tool
- Images through 2 mm pupils and most cataracts

TECHNICAL SPECIFICATIONS

Model name / number	P200TxE / A10750
Field of view	200° optomap in a single capture; OCT anywhere on the image
Imaging modalities	color rg, sensory, choroidal, green AF, FA, ICG + SS-OCT; RGB generation adds color rgb and blue AF
OCT light source	swept source, 1050 nm
Scan speed	100 000 A-scan/s
OCT resolution (axial / transverse)	< 7 µm / < 20 µm
Scan depth	up to 2.5 mm
OCT scan types	line 6/14/23 mm; volume up to 14 × 9 mm
optomap resolution	14 µm (optomap plus), 20 µm (optomap)
Exposure time	< 0.4 s
Dimensions (W × D × H)	540 × 570 × 683–707 mm
Weight	max. 45 kg
Medical device risk class	Class IIa

Manufacturer brochure



Specialist

Direct ophthalmoscope

Keeler's top-of-the-range direct ophthalmoscope with the widest lens range in the line, +44 D to −45 D, built from individually ground glass lenses. Enclosed viewing optics let you get closer to the eye for a wider view, and a pupillometer is built into the head.

HIGHLIGHTS

- Morton lens track of individually ground glass lenses, +44 D to −45 D in 1 D steps
- Auxiliary lens wheel with ±10, ±15 and ±30 D lenses for quick jumps
- Five diagnostic beams: wide angle, intermediate, macular, slit and fixation cross
- Cobalt blue filter for fluorescein examination of corneal scars and abrasions
- Halogen or LED illumination on a slimline 2.8 V (AA) or 3.6 V rechargeable handle

TECHNICAL SPECIFICATIONS

Lens range	+44 D to −45 D in 1 D steps
Auxiliary lenses	±10 / ±15 / ±30 D
Diagnostic beams	5 (wide angle, intermediate, macular, slit, fixation cross)
Filter	cobalt blue
Pupillometer	1–8 mm
Illumination	halogen bulb or LED (3 000 K)
Handle	2.8 V (2 × AA) or 3.6 V Li-ion rechargeable
Dimensions (H × W × D)	260 × 35 × 40 mm
Weight	270 g
Medical device risk class	Class I

Manufacturer brochure



Professional

Direct ophthalmoscope

Compact direct ophthalmoscope designed for one-handed use, with a maywheel lens range of +29 D to −30 D and a quick ±20 D swing lens. Six diagnostic beams, including a glaucoma graticule, and a swing-over red-free filter.

HIGHLIGHTS

- Lenses, graticules and filters all within fingertip reach
- Six beams: wide angle, intermediate, macular, slit, fixation cross and glaucoma
- Swing-over red-free filter usable with every beam
- Integral soft brow rest protects the lenses of spectacle wearers
- Rigid aluminium chassis; xenon or LED illumination

TECHNICAL SPECIFICATIONS

Lens range	+29 D to −30 D in 1 D steps
Quick-step lens	±20 D
Diagnostic beams	6 (incl. glaucoma graticule)
Filter	red-free, swing-over
Illumination	xenon bulb or LED (3 000 K)
Handle	2.8 V (2 × AA) or 3.6 V Li-ion rechargeable
Dimensions (H × W × D)	212 × 43 × 28 mm
Weight	260 g
Medical device risk class	Class I

Manufacturer brochure



Practitioner

Direct ophthalmoscope

Direct ophthalmoscope for primary care and general practice with a +40 D to −25 D lens range, six apertures and both red-free and blue filters. With fluorescein, the blue filter helps assess corneal scratches, for example in children.

HIGHLIGHTS

- Positive-action maywheel for quick lens selection
- Six apertures including wide angle, macular, intermediate, slit and fixation cross
- Swing-over red-free filter and cobalt blue filter
- Soft integral brow rest for spectacle wearers
- Bulb or LED versions on a 2.8 V (AA) or 3.6 V rechargeable handle; also suitable for veterinary use

TECHNICAL SPECIFICATIONS

Lens range	+40 D to −25 D
Apertures	6
Filters	red-free, cobalt blue
Illumination	xenon bulb or LED (3 000 K)
Handle	2.8 V (2 × AA) or 3.6 V Li-ion rechargeable
Dimensions (H × W × D)	212 × 43 × 28 mm
Weight	260 g
Medical device risk class	Class I

Manufacturer brochure



Standard

Direct ophthalmoscope

Straightforward direct ophthalmoscope for wards and general practice: a maywheel lens range of +40 D to −25 D, wide-angle and macular beams and a swing-over red-free filter.

HIGHLIGHTS

- Wide-angle beam for general fundus examination and a macular beam for the central retina
- Red-free filter works with both beams, useful in diabetic eye checks
- Soft integral brow rest protects spectacle lenses
- Bulb or LED illumination on a 2.8 V (AA) or 3.6 V rechargeable handle
- 3-year warranty

TECHNICAL SPECIFICATIONS

Lens range	+40 D to −25 D
Diagnostic beams	2 (wide angle, macular)
Filter	red-free, swing-over
Illumination	xenon bulb or LED (3 000 K)
Handle	2.8 V (2 × AA) or 3.6 V Li-ion rechargeable
Dimensions (H × W × D)	212 × 43 × 28 mm
Weight	260 g
Warranty	3 years
Medical device risk class	Class I

Manufacturer brochure



Pocket

Direct ophthalmoscope

Slim, pocket-sized direct ophthalmoscope for ward rounds and home visits, powered by standard AA batteries. Lens range +20 D to −20 D, five diagnostic beams and a red-free filter.

HIGHLIGHTS

- Fits a coat pocket; strong metal pocket clip
- Beams: wide angle, macular, intermediate, slit and fixation cross
- Swing-over red-free filter for vessel examination
- Halogen illumination; dedicated 2.8 V pocket handle with AA batteries
- A practical second, back-up instrument

TECHNICAL SPECIFICATIONS

Lens range	+20 D to −20 D
Diagnostic beams	5
Filter	red-free, swing-over
Illumination	halogen bulb, 2.8 V
Power	AA batteries (pocket handle)
Dimensions (H × W × D)	191 × 22 × 22 mm
Weight	150 g
Medical device risk class	Class I

Manufacturer brochure



Professional Retinoscope (Streak / Spot)

Retinoscope (streak or spot)

Retinoscope for objective refraction, available with a streak or a spot beam. A single magnetic control handles beam rotation and vergence, and the patented neutralisation check confirms the neutral point by switching the beam from divergent to convergent.

HIGHLIGHTS

- Patented neutralisation check (divergent ↔ convergent beam)
- Precision magnetic control with 360° access for rotation and convergence
- Two-position aperture: 4 mm for brightness or 1.7 mm for resolution of the reflex
- Halogen streak or spot beam; the streak model is also available with LED
- Slimline 2.8 V (AA) or 3.6 V rechargeable handle

TECHNICAL SPECIFICATIONS

Beam	streak or spot
Illumination	halogen (600 lx) or LED (streak version)
Aperture	4 mm / 1.7 mm (two positions)
Controls	single magnetic control for rotation and vergence, 360° access
Handle	2.8 V (2 × AA) or 3.6 V Li-ion rechargeable
Dimensions (H × W × D)	240 × 32 × 40 mm
Weight	260 g
Medical device risk class	Class I

Manufacturer brochure



Vantage Plus LED

Binocular indirect ophthalmoscope (head-worn)

Keeler's top-of-the-range head-worn indirect ophthalmoscope with LED illumination and the patented Intelligent Optical System, which re-aligns optics and mirrors automatically when the aperture is changed. Balanced headband, wireless or corded power and a 1.6× HiMag lens attachment.

HIGHLIGHTS

- Stereoscopic views through pupils from 1 to 10 mm, with optics that adjust automatically to the selected aperture
- Neutral-white LED (3 800 K) of up to 1 000 lx with an LED life of up to 10 000 hours
- Built-in wide-angle diffuser plus cobalt blue and red-free filters; IR/UV filtering in the optics
- Wireless Li-ion packs (up to 6 h slimline, 11 h standard) or corded SmartPack / WallPack supply
- Teaching mirror, HiMag lens and face shield available

TECHNICAL SPECIFICATIONS

Illuminance	1 000 lx
Light source	LED, 3 800 K
Apertures	large / intermediate / small
Patch diameter	20 / 40 / 60 mm
Pupil size	1–10 mm
Interpupillary distance	48–76 mm
Working distance	440 mm (nominal)
Filters	cobalt blue, red-free, diffuser
HiMag lens	additional 1.6× magnification
Ocular lenses	+2 D standard, plano optional
Battery life	up to 6 h (slimline) / 11 h (standard) / 17 h (SmartPack)
Weight	596 g
Medical device risk class	Class I

Manufacturer brochure



Vantage Plus Digital

Video binocular indirect ophthalmoscope

Digital version of the Vantage Plus that records what the examiner sees, as still images and video, through a 3.2 MP camera above the optics. Keeler Kinexis software supports live streaming for teaching, reports and DICOM export; an optional FA kit adds fluorescein angiography.

HIGHLIGHTS

- Camera field of view covers more than a full 20 D lens; camera angle adjustable independently of the optics
- Adjustable focus and extended depth of field for several users and changing working distances
- Kinexis software: live streaming, frame-by-frame review, side-by-side comparison, reports, DICOM
- Optional FA kit: blue excitation LED and yellow barrier filters for indirect fluorescein angiography, also during scleral indentation
- Portable for use in the operating room or neonatal intensive care; travel case included

TECHNICAL SPECIFICATIONS

Camera resolution	3.2 MP
Image resolution	2 048 × 1 536 px
Camera working distance	30–65 cm (with a 20 D lens)
Camera tilt adjustment	±7°
Illumination	white LED, CRI 90; blue LED with FA kit
Filters	blue, red-free, diffuser, IR; yellow barrier with FA kit
Patch diameter	20 / 40 / 60 mm
Pupil size	1–10 mm
Interpupillary distance	48–76 mm
Stereopsis adjustment	automatic
Connection and PC	USB 3.0; Windows 11 PC (Intel i5, 16 GB RAM)
Medical device risk class	Class I

Manufacturer brochure



All Pupil II

Binocular indirect ophthalmoscope (head-worn)

Durable, cost-effective head-worn indirect ophthalmoscope that uses the same Keeler optics as the Vantage Plus. A single control changes aperture size and position in one movement, and the LED light can be dimmed down to 2 % of full output.

HIGHLIGHTS

- Wireless design with a slimline or standard Li-ion battery, or corded SmartPack / WallPack supply
- Lightweight at 520 g, with extra padding in the headband
- Wide-angle diffuser and red-free filter; cobalt blue filter optional
- Built-in IR and UV barrier for patient safety
- LED life of up to 10 000 hours with a 5-year LED warranty

TECHNICAL SPECIFICATIONS

Light source	LED, 3 800 K
Apertures	large / intermediate / small
Patch diameter	20 / 40 / 60 mm
Pupil size	1–10 mm
Interpupillary distance	47–75 mm
Working distance	440 mm (nominal)
Filters	red-free, diffuser; cobalt blue optional
Ocular lenses	+2 D standard, plano optional
Battery life	up to 6 h (slimline) / 11 h (standard) / 17 h (SmartPack)
Weight	520 g

Manufacturer brochure



Spectra Iris

Portable spectacle-mounted indirect ophthalmoscope

Compact indirect ophthalmoscope mounted on a Keeler sports frame instead of a headband, for ward rounds, outreach clinics and teaching. It weighs 136 g with the frame and gives up to 4 hours of LED light per charge.

HIGHLIGHTS

- Flip-up optics allow direct eye contact with the patient or writing notes
- Adjustable aperture slider and a PD range of 48–76 mm
- Continuously variable spot size from 20 to 60 mm
- Cobalt blue and red-free filters; neutral 4 000 K LED
- Small, medium or large frame; carry case, charger and lanyard included

TECHNICAL SPECIFICATIONS

Light source	LED, 4 000 K
Spot size	20–60 mm, continuous
Interpupillary distance	48–76 mm
Filters	cobalt blue, red-free
Battery	Li-ion, 4 h continuous at maximum brightness
Weight	136 g with sports frame; battery pack 170 g
Frame sizes	S / M / L
Carry case (H × W × D)	31 × 22 × 12 cm
Medical device risk class	Class I

Manufacturer brochure



Standard loupes

Galilean loupes, 2.0–3.0×

All-round Galilean loupes with a two-lens optical system, offered in 2.0×, 2.5× and 3.0× and in working distances from 34 to 50 cm. Laser-aligned optics sit on a precision aluminium bar, mounted on a Keeler sports frame or headband.

HIGHLIGHTS

- Schott glass optics, laser-aligned for a clear binocular image
- Three-way adjustable flip-up hinge for good posture and quick flip-away during patient contact
- Removable plano or +1 D caps protect the objective; the +1 D cap shortens the working distance (e.g. 420 mm → approx. 296 mm)
- Autoclavable flip lever and protective caps
- Choice of sports frame (three sizes, prescription insert) or headband for shared use

TECHNICAL SPECIFICATIONS

Magnification	2.0× / 2.5× / 3.0×
Working distances	34 / 42 / 46 / 50 cm (2.0×: 34 / 46 cm)
Field of view 2.0×	11.4 / 15.2 cm (34 / 46 cm)
Field of view 2.5×	8.1 / 10 / 10.9 / 11.8 cm (34 / 42 / 46 / 50 cm)
Field of view 3.0×	5.9 / 7.1 / 7.7 / 8.3 cm (34 / 42 / 46 / 50 cm)
Optical system	Galilean, two-lens
Weight	46 g (loupes on bar)
Mounting	Keeler sports frame (3 sizes) or headband

Manufacturer brochure



Mini loupes

Compact Galilean loupes, 2.5×

Ultra-light 2.5× Galilean loupes weighing just 34 g on the bar, designed for all-day comfort with good peripheral vision. Available in four working distances from 34 to 50 cm.

HIGHLIGHTS

- Slim design with minimal compromise in field of view
- Laser-aligned optics on a machined aluminium PD bar for stable binocular vision
- Flip-up hinge with three-way adjustment; autoclavable flip lever and caps
- Optional +1 D caps for a shorter working distance
- Also supplied as the SuperVu SL mini system with sports frame and soft case

TECHNICAL SPECIFICATIONS

Magnification	2.5×
Working distances	34 / 42 / 46 / 50 cm
Field of view	7.5 / 9.5 / 10.5 / 11.4 cm (34 / 42 / 46 / 50 cm)
Optical system	Galilean
Weight	34 g (loupes on bar)
Mounting	Keeler sports frame (3 sizes) or headband
Objective caps	plano or +1 D (shorter working distance)

Manufacturer brochure



Hi-Res loupes

High-resolution Galilean loupes, 3.0×

3.0× Galilean loupes with a four-lens, high-index coated optical system that gives a brighter image and a larger field of view than the Standard 3.0× loupe. Suited to most surgical fields, ophthalmology and surgical assistants.

HIGHLIGHTS

- Four-lens, high-index coated optics with good edge definition
- Larger field of view than the Standard 3.0× loupe at every working distance
- Four working distances from 34 to 50 cm
- Available on a Keeler sports frame with K-LED light or on a headband
- Supplied with protective caps, flip lever, lens cloth and case

TECHNICAL SPECIFICATIONS

Magnification	3.0×
Working distances	34 / 42 / 46 / 50 cm
Field of view	6.8 / 8.2 / 8.8 / 9.5 cm (34 / 42 / 46 / 50 cm)
Optical system	Galilean, four-lens, high-index coated
Mounting	Keeler sports frame (3 sizes) or headband
Objective caps	plano or +1 D (shorter working distance)

Manufacturer brochure



Prismatic loupes

Prismatic loupes, 3.5–5.5×

High-magnification loupes (3.5×, 4.5× and 5.5×) that use a Schmidt–Pechan or double prism to lengthen the optical path without a long, heavy telescope. Designed for edge-to-edge clarity in demanding surgical work.

HIGHLIGHTS

- Three magnifications: 3.5×, 4.5× and 5.5×
- Prism system keeps the telescopes short and light
- Working distances of 34, 42 or 46 cm
- Suited to ophthalmology, neurosurgery, cardiovascular surgery and dentistry
- Also supplied as the SuperVu XL prismatic system with sports frame, autoclavable flip lever and soft case

TECHNICAL SPECIFICATIONS

Magnification	3.5× / 4.5× / 5.5×
Working distances	34 / 42 / 46 cm
Field of view 3.5×	5.5 / 7.1 / 7.9 cm (34 / 42 / 46 cm)
Field of view 4.5×	4.6 / 6.1 / 6.9 cm (34 / 42 / 46 cm)
Field of view 5.5×	3.5 / 4.7 / 5.3 cm (34 / 42 / 46 cm)
Optical system	prismatic (Schmidt–Pechan or double prism)
Mounting	Keeler sports frame (3 sizes) or headband

Manufacturer brochure



K-LED II

LED loupe light (headlight)

Portable coaxial LED light that mounts on the loupe bar and gives 34 000 lx of homogeneous white light for shadow-free viewing. A lithium battery pack provides up to 7 hours of continuous use.

HIGHLIGHTS

- 3 W LED mounted coaxially on the loupe bar
- Yellow filter included, to avoid premature curing of dental composites
- Fits all Keeler loupes, with a standard Keeler or universal fitting; usable without loupes via an adaptor bar
- Single or twin charging unit that also stores the loupes
- Belt-clip battery pack; a full charge takes about 2 hours

TECHNICAL SPECIFICATIONS

Illuminance	34 000 lx
Light source	3 W LED, coaxial, white
Battery life	up to 7 h continuous (lithium battery pack)
Charging time	approx. 2 h (single charger); 2 h / 4 h in twin-charger wells 1 / 2
Optimum working distance	340–500 mm
Filter	yellow (included)
Loupe fitting	standard Keeler or universal
Power supply	100–240 V, 50/60 Hz
Medical device risk class	Class I

Manufacturer brochure

Bernell

Vision therapy and orthoptic tools since 1954

Bernell was founded in 1954 by Dr. Bernard Vodnoy and today operates as a division of Vision Training Products, Inc. in Mishawaka, Indiana. Its range of more than 2,000 products centres on vision training and binocular vision tools, alongside primary eye-care supplies.



VISION THERAPY

Bernell-O-Scope™
Stereoscope for base-in/base-out fusion and cheiroscopic training; tabletop or handheld use, optional card sets.

Tranaglyphs™ & Vectographs
Red/green and polarised variable targets for training convergence, divergence and stereopsis.

Brock String Devices
Physiological-Diplopia Cord™, Phy-Dip Trainer™ and lighted strings to train binocularity and overcome suppression.

Aperture Rule™ Trainer
Aperture trainer with interchangeable card sets for building fusional reserves, stereopsis and accommodation.

Anti-Suppression Trainers
Polarised or red/green reading units, stereo trainers and tablet clings that keep both eyes working together.

Marsden Balls & Rotation Trainers
Marsden balls and table or floor rotation trainers for tracking, saccades and eye-hand coordination.

FLIPPERS, PRISMS & OCCLUSION

Accommodative & Prism Flippers
Accommodative flippers with glass lenses (±0.25 to ±4.00 D) and flat or curved prism flippers (1–12 Δ).

Prism Bars & Loose Prisms
Horizontal and vertical prism bars (complete set 1–45 Δ) plus loose and stick prisms for testing and training.

Occluders & Bangerter Foils
Handheld and clip-on occluders, the Occlud-A-Measure™ and graded Bangerter foils for amblyopia treatment.

DIAGNOSTIC TESTS

Stereo Tests
The glasses-free Bernell Stereopsis Test (BEST) plus polarised fly, butterfly and random-dot stereotests.

Fusion & Suppression Tests
Worth 4-Dot, Bagolini lenses, the Test Lantern™ and FBAT™ plates for assessing fusion, suppression and phorias.

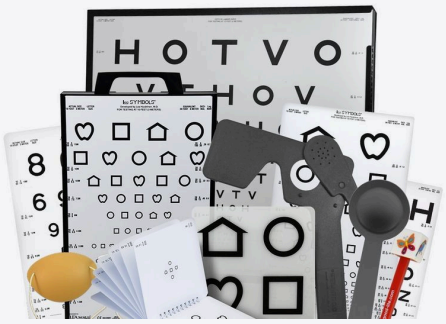
Macula Integrity Tester (MIT™)
Haidinger-brush instrument for detecting and training eccentric fixation.

Ask us for specific models, specifications and prices.

Good-Lite

Orthoptic aids and vision tests

Good-Lite of Elgin, Illinois, has specialised in vision testing since 1930. It makes illuminated acuity charts, vision tests and aids for orthoptics and vision therapy.



ORTHOPTIC AIDS

Occluders
Single and double-ended handheld occluders, flip-up occluder glasses for children and combinations with Maddox rod, red filter or pinhole.

Prisms
Loose prism sets, combined vertical and horizontal prism bars, vergence prisms and prism flippers.

Maddox · Worth 4-Dot · Bagolini
Maddox rods and occluders for phoria measurement, Worth 4-Dot (also with LEA symbols) for suppression testing and Bagolini lenses.

Vision therapy aids
Brock strings, red/green and polarised glasses, vectograms and flippers for binocular vision training.

Eye patches
Eye patches and covers for children and adults.

VISION DIAGNOSTICS

ESV3000 · ESC2000
Illuminated cabinets with ETDRS charts for standardised best-corrected visual acuity testing, also low-contrast.

LEA SYMBOLS® · LEA NUMBERS®
Paediatric distance and near acuity tests and the LEA Vision Test System.

Stereo tests
Frisby Stereotest, Fly-S, Butterfly-S, Random Dot and other stereo tests.

Colour vision
HRR (4th edition), Ishihara, Farnsworth D15, Lanthony D15 and Farnsworth 100 Hue.

Contrast sensitivity
CSV-1000, Hiding Heidi and LEA low-contrast tests.

Near tests and Hess screen
Near vision and reading cards and a Hess screen with laser kit.

Ask us for specific models, specifications and prices.

Lang-Stereotest

Stereo tests and fixation aids

LANG-STEREOTEST AG of Küsnacht near Zurich has marketed the stereo test invented in 1980 by Swiss ophthalmologist Prof. Joseph Lang, plus fixation aids for paediatric ophthalmology, since 1998.



STEREO TESTS

LANG-STEREOTEST I-R
2021 revision of Lang-Stereotest I for binocular testing, especially in children.

LANG-STEREOTEST II-R
2023 revision of Lang-Stereotest II for binocular testing.

LANG-STEREOPAD
Screening tool for stereopsis and stereo threshold, including preferential looking.

FIXATION AIDS

LANG fixation cube
White/red cube for testing fixation, eye movements, convergence and cover test.

LANG fixation sticks
Fixation sticks for the same tests, including the cover test.

Ask us for specific models, specifications and prices.

Trusetal Medical

Orthoptic foils and vision-testing aids

Trusetal Medical (Trusetal Verbandstoffwerk GmbH) is a family-run company founded in 1993 in Schloß Holte-Stukenbrock, Germany. In ophthalmology it supplies orthoptic aids – occlusion, prism and lens foils for spectacles – and, under the EYESFIRST® brand, vision-testing aids.



ORTHOPTIC FOILS FOR SPECTACLES

TRUSETAL Occlusion Foils
Occlusion foils for spectacles in amblyopia treatment, graded from light perception to 0.8 acuity, or fully occlusive (beige, grey, blue).

TRUSETAL & OPTEGO® Prism Foils
Press-on prism foils 1–35 Δ for treating diplopia and pre-operative prism correction.

Spherical Lens Foils
Plus lens segments +1.25 to +3.00 D for accommodative strabismus, hypo-accommodation and low vision.

EYESFIRST® DIAGNOSTICS

Visual acuity tests
Charts and cards for distance and near visual acuity.

Stereo tests
Stereo vision tests for children and adults.

Colour vision and contrast
Colour vision and contrast sensitivity tests.

Prisms and trial sets
Prisms and trial sets for orthoptic examination; mostly from partner manufacturers.

Ask us for specific models, specifications and prices.



Synoptiscope L-2510HB / L-2510B

Synoptophore (major amblyoscope)

Japanese-made synoptophore for diagnosing and treating binocular-vision disorders such as strabismus and amblyopia, covering simultaneous perception, fusion and stereopsis; the HB version adds a detachable Haidinger-brush device.

HIGHLIGHTS

- Slide sets for simultaneous perception, fusion, stereopsis, Maddox, after-image and animation; 16 pairs of colour slides in the standard set
- Automatic flashing at 30–150 times per minute (simultaneous or alternating) plus a manual push-button flash
- Half-mirror eyepieces let the examiner see the patient's corneas and the projected slides at the same time
- Wide head movement: 30° elevation and depression, 50° convergence, 40° divergence
- HB version: Haidinger brush at 50–100 rpm and an aperture diaphragm of ø 10–50 mm

TECHNICAL SPECIFICATIONS

PD adjustment	45–80 mm
Elevation / depression	30° each (50 Δ)
Convergence	50° (100 Δ)
Divergence	40° (80 Δ)
Slide rotation	±20°
Automatic flashing	30–150 flashes/min
Chin-rest travel	60 mm vertical, 45 mm horizontal
Haidinger brush (HB)	50–100 rpm
Aperture diaphragm (HB)	ø 10–50 mm
Power supply	AC 100/120/220/240 V, 50/60 Hz; 64 VA (HB), 26 VA (B)
Dimensions (W × D × H)	L-2510HB: 550 × 320 × 392 mm (425 mm high with brush unit); L-2510B: 505 × 320 × 392 mm
Weight	18 kg (L-2510HB), 15 kg (L-2510B)
Medical device risk class	Class Im (measuring function)

Manufacturer brochure



AK-1 Convergence Trainer

Convergence trainer

A convergence trainer based on Bangerter's idea: a disc with an Archimedes spiral, moved along a guide, gives a strong convergence stimulus. It is used before and after strabismus surgery and in conditions such as convergence insufficiency, marked exophoria or intermittent divergent strabismus.

HIGHLIGHTS

- Stable base with two brackets carrying a guide of two parallel metal rods
- A handle slides the disc-drive mechanism with the spiral test along the guide
- Exercises under the supervision of an ophthalmologist or orthoptist

TECHNICAL SPECIFICATIONS

Principle	Archimedes spiral (after Bangerter)
Packaging	1 box, 78 × 42 × 27 cm, 7.6 kg gross
Medical device risk class	Class I

Manufacturer brochure



CH-1 Cheiroscope

Cheiroscope for binocular vision training

A cheiroscope for training binocular vision in heterophoria, small-angle manifest strabismus, intermittent strabismus and other binocular dysfunctions. Using a mirror, the patient copies pictures from exercise cards onto a drawing sheet.

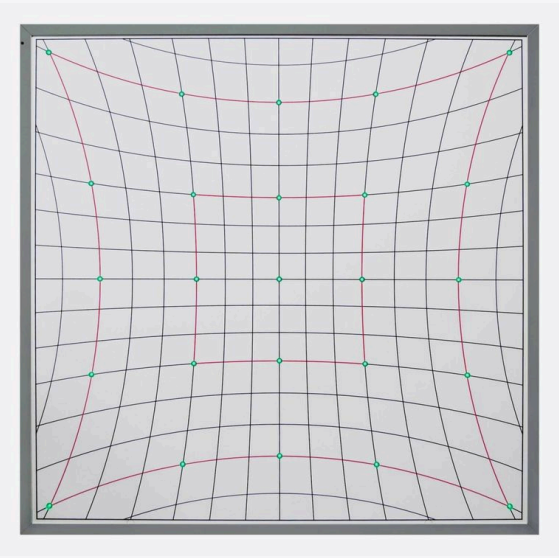
HIGHLIGHTS

- Sturdy body with forehead support, sheet holder, two 6.0 D lenses and a mirror
- Adjustable tilt via a bracket and a forehead support that rotates 180° for right- and left-handed patients
- Set of exercise cards with pictures; exercises under the supervision of an ophthalmologist or optometrist

TECHNICAL SPECIFICATIONS

Lenses	2 × 6.0 D
Forehead-support rotation	180°
Packaging	1 box, 50 × 35 × 32 cm, 5 kg gross
Medical device risk class	Class I

Manufacturer brochure



EH-1 Hess Screen

Hess screen for ocular motility testing

A Hess screen for coordimetry of the extraocular muscles, used mainly in paralytic strabismus and in muscle palsies and pareses. The examiner lights the 25 green LED points of the parabolic grid one by one with a remote control while the patient indicates where each appears.

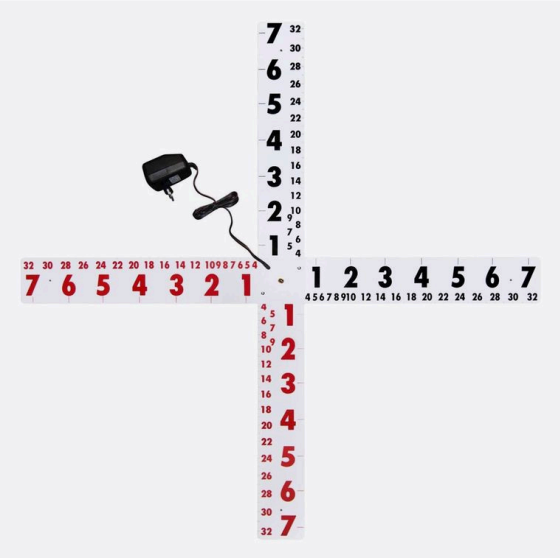
HIGHLIGHTS

- 25 green LED test points at the intersections of the parabolic Hess grid
- Points switched on individually by remote control, in random order
- Supplied with two pairs of red-green filter glasses, a light-point projector and a mains adapter
- Patient seated 1 m from the screen; a chin rest is recommended for accuracy

TECHNICAL SPECIFICATIONS

Test points	25 green LEDs
Working distance	1 m
Dimensions (W × D × H)	854 × 854 × 20 mm
Weight	5 kg
Packaging	1 box, 102 × 92 × 9 cm, 8.8 kg gross
Medical device risk class	Class I

Manufacturer brochure



KM-1 Maddox Cross

Maddox cross (tangent scale)

A large, free-standing Maddox tangent cross with an LED fixation light at its centre. It is used to assess latent strabismus with Maddox rods, the objective angle of manifest strabismus, the gamma angle and retinal correspondence.

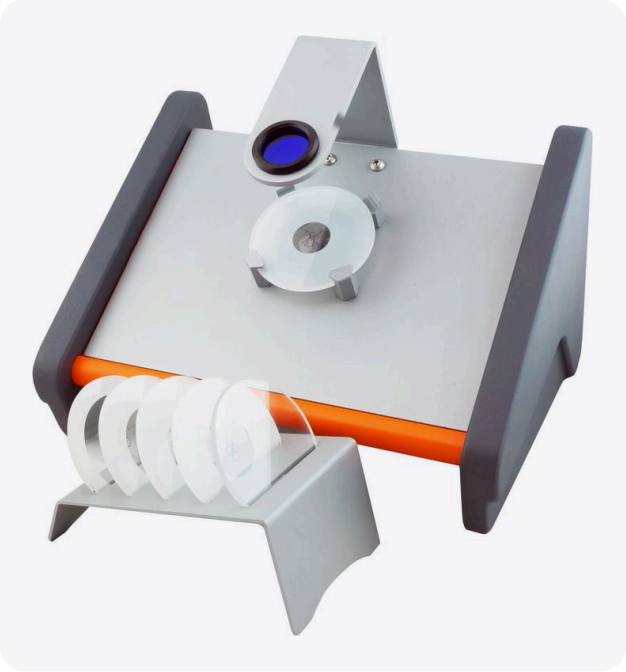
HIGHLIGHTS

- Four arms with numerical scales; the larger scale is used at 5 m, the smaller at 1 m
- Central LED marks the zero point
- Light board weighing 1 kg; pairs with the EH-1 Hess screen

TECHNICAL SPECIFICATIONS

Testing distances	5 m / 1 m
Power supply	6 V / 500 mA
Current draw	0.3 A at 6 V
Dimensions (W × D × H)	1 200 × 1 200 × 70 mm
Weight	1 kg
Medical device risk class	Class I

Manufacturer brochure



KN-1 Visual Coordinator

Haidinger-brush coordinator for amblyopia treatment

An amblyopia-therapy device that uses the Haidinger brush phenomenon, perceptible only with the macula, to train central fixation and correct macular localisation together with eye–hand coordination. It is part of the Cüpper method and can be combined with other exercises.

HIGHLIGHTS

- For monocular amblyopia, regardless of its degree
- Forehead support with magnifier and a set of five glass optotype discs with stand
- Adjustable rotation speed, brightness and direction
- Exercises under the supervision of an ophthalmologist or orthoptist

TECHNICAL SPECIFICATIONS

Principle	Haidinger brushes
Power supply	12 V / 2 A
Dimensions (W × D × H)	350 × 300 × 250 mm
Weight	5 kg
Packaging	1 box, 47 × 36 × 32 cm, 7 kg gross
Medical device risk class	Class I

Manufacturer brochure



LA-1 Acoustic Locator

Acoustic localisation trainer

A localisation trainer for amblyopia that uses hearing as feedback: the patient traces the outline of a picture on a metal plate with a stylus, and a tone sounds whenever the stylus leaves the line. It trains visual acuity, central fixation, localisation and eye–hand coordination and belongs to the Cüpper method.

HIGHLIGHTS

- Inclined top for interchangeable metal plates with outlines of different widths
- Volume of the audible signal adjustable at the back
- Can be combined with other devices in combined exercises

TECHNICAL SPECIFICATIONS

Power supply	9 V / 300 mA
Current draw	0.1 A at 9 V
Dimensions (W × D × H)	260 × 200 × 80 mm
Weight	1.5 kg
Packaging	1 box, 37 × 36 × 20 cm, 4.6 kg gross
Medical device risk class	Class I

Manufacturer brochure



SW-1 Campbell Stimulator

Campbell (CAM) vision stimulator

An amblyopia-treatment device based on active, controlled stimulation of the eye. Rotating high-contrast stripe discs stimulate the retina and are intended to activate the visual cortex, while a picture slide is placed over the disc.

HIGHLIGHTS

- Set of high-contrast stripe discs and picture slides
- Colourful, easily erasable markers included
- Exercises under the supervision of an ophthalmologist or orthoptist

TECHNICAL SPECIFICATIONS

Power supply	9 V / 300 mA
Current draw	0.1 A at 9 V
Dimensions (W × D × H)	220 × 200 × 150 mm
Weight	2 kg
Packaging	1 box, 47 × 36 × 26 cm, 6.8 kg gross
Medical device risk class	Class I

Manufacturer brochure



VisuALL ETS

Virtual-reality perimeter with eye tracking

Exclusive distributor for CZ & SK

Head-mounted VR perimeter with built-in eye-tracking cameras that runs threshold visual fields and further visual-function tests without a bowl, a dark room or an eye patch; results are managed in the cloud through a web app.

HIGHLIGHTS

- Eye-tracking cameras and the Dynamic Matrix algorithm keep fixation under control throughout the test
- Both eyes in one session without patching; patients can be tested in virtually any position
- Also tests visual acuity, D-15 colour vision, contrast sensitivity, pupillometry and eye motility
- Virtual assistant Annie guides patients through the test in more than 30 languages
- Paediatric protocols designed to hold children's attention

TECHNICAL SPECIFICATIONS

Display	VR headset with 4K screen
Fixation control	eye-tracking cameras (Dynamic Matrix)
Test patterns	10-2, 24-2, 30-2
Strategies	full threshold, AVA standard, AVA fast; suprathreshold
Other field tests	Esterman, ptosis, confrontation
Stimulus size	Goldmann III
Other tests	visual acuity (near, far, low contrast), D-15 colour vision, contrast sensitivity, pupillometry/PERRL, eye motility
Test set-up	one stimulator per eye – both eyes in one session, no patching
Room lighting	any (enclosed headset)
Software / data	VisuALL WebApp + VisuALL Cloud
Virtual assistant	Annie, more than 30 languages
Classification	registered class I medical device (FDA)



VisuALL S

Virtual-reality perimeter

Exclusive distributor for CZ & SK

Compact, portable VR perimeter for visual-field testing in patients of all ages, with fixation monitored by the Heijl-Krakau blind-spot method; it also covers visual acuity, colour vision and contrast sensitivity.

HIGHLIGHTS

- Threshold and screening fields (10-2, 24-2, 30-2), including paediatric protocols
- Both eyes tested in one session without patching
- Works under normal room lighting – no dark room needed
- Virtual assistant Annie explains each step in more than 30 languages
- Cloud storage and web app with reports and trend analysis

TECHNICAL SPECIFICATIONS

Display	VR headset with 4K screen
Fixation control	Heijl-Krakau (blind-spot) method
Test patterns	10-2, 24-2, 30-2
Strategies	full threshold, AVA standard, AVA fast; suprathreshold
Other field tests	Esterman, ptosis, confrontation
Stimulus size	Goldmann III
Other tests	visual acuity, colour vision, contrast sensitivity
Test set-up	one stimulator per eye – both eyes in one session, no patching
Room lighting	any (enclosed headset)
Software / data	VisuALL WebApp + VisuALL Cloud
Virtual assistant	Annie, more than 30 languages
Classification	registered class I medical device (FDA)



ASTRAL

Compact automated perimeter

Coming soon | Exclusive distributor for CZ & SK

New compact static perimeter for 24-2 and 30-2 testing, reaching 170° × 110° with fixation shift. Listed by Optopol as coming soon; availability to be confirmed.

HIGHLIGHTS

- Small footprint with a Goldmann bowl and size III stimulus
- ZETA thresholding: 24-2 test in around three minutes; 24-2C and 30-2C patterns
- Eye and head tracking, blink detection and EyeSee review
- Fundus-oriented perimetry with images from REVO and FUNDO
- Binocular Esterman driving test and DPA progression analysis

TECHNICAL SPECIFICATIONS

Bowl	300 mm radius, spherical, closed
Test field range	100° horizontal, 80° vertical (170° × 110° with fixation shift)
Perimetry	static
Stimulus (Goldmann)	size III, white
Background	white, 10 cd/m² (31.4 asb)
Max. stimulus intensity	10 000 asb
Test patterns	10-2, 24-2, 24-2C, 30-2, 30-2C, G0-2, 5-2, Sup 44, Gandolfo
Strategies	ZETA, ZETA Fast, ZETA Faster; threshold, screening, Esterman
Connectivity	DICOM (Storage, MWL), GDT, TXT, network
Dimensions (H × W × D)	418 × 556 × 408 mm
Weight	9 kg
Power consumption	30 W

Manufacturer brochure



HORIZON

Projection perimeter with integrated PC

Coming soon | Exclusive distributor for CZ & SK

Optopol's new top projection perimeter for static and kinetic testing, with an integrated PC that can be run from a web browser on a tablet, phone or computer. Premiered at ESCRS 2026; availability to be confirmed.

HIGHLIGHTS

- All-in-one setup with an integrated PC saves desk space
- Browser-based control and review from a phone, tablet or computer
- All Goldmann stimulus sizes and colours; static and kinetic programs
- ZETA thresholding, eye and head tracking, voice guidance in 12 languages
- Fundus-oriented perimetry with images from REVO and FUNDO

TECHNICAL SPECIFICATIONS

Bowl	300 mm radius, aspherical, closed
Test field range	180° horizontal; 60° superior (70° with fixation shift), 70° inferior
Perimetry	static and kinetic (manual, automated, mixed)
Stimulus (Goldmann)	sizes I–V; white, green, blue, red
Background	white 10 or 31.4 asb; yellow 314 asb
Max. stimulus intensity	10 000 asb
Fixation control	gaze tracking, blink monitoring, Heijl-Krakau, EyeSee
Integrated PC	4 × 2.4 GHz CPU, 4 GB RAM, 512 GB storage
Interfaces	Wi-Fi 5, Bluetooth 5.0, USB 2.0, RJ45
Dimensions (H × W × D)	604 × 483 × 427 mm
Weight	17.5 kg
Power consumption	150 W

Manufacturer brochure



PTS 925

Compact automated perimeter

Exclusive distributor for CZ & SK

Compact static perimeter for routine glaucoma and neuro-ophthalmic visual-field testing. ZETA strategies complete a 24-2 threshold test in around three minutes, depending on the patient.

HIGHLIGHTS

- Small footprint, well suited to satellite practices
- Eye tracking, blink control, head tracking and EyeSee eye recording
- Voice guidance in 12 languages, including Czech
- DPA progression analysis; Structure + Function with REVO OCT
- Same software as PTS 2000; DICOM, GDT and network ready

TECHNICAL SPECIFICATIONS

Bowl	300 mm radius, spherical, closed
Test field range	100° horizontal, 80° vertical (170° × 110° with fixation shift)
Perimetry	static
Stimulus (Goldmann)	size III, white
Background	white, 10 cd/m² (31.5 asb)
Max. stimulus intensity	10 000 asb
Test patterns	10-2, 24-2, 24-2C, 30-2, 30-2C, G0-2, 5-2, Sup 44, Gandolfo
Strategies	ZETA, ZETA Fast, ZETA Faster; threshold, screening, Esterman
Fixation control	gaze tracking, blink monitoring, Heijl-Krakau, EyeSee
Dimensions (H × W × D)	410 × 568 × 410 mm
Weight	9 kg
Power consumption	30 W
Medical device risk class	Class I

Manufacturer brochure



PTS 2000

Automated projection perimeter

Exclusive distributor for CZ & SK

Full-featured projection perimeter for static and kinetic testing with all Goldmann stimulus sizes and colours. Its 180° horizontal range suits busy main clinics.

HIGHLIGHTS

- Automated, manual and mixed kinetic perimetry with custom patterns
- ZETA strategies: 24-2 threshold in around three minutes
- Esterman driving tests, Flicker, BSV and blue-on-yellow testing
- Eye and head tracking, blink control and voice guidance in 12 languages
- DPA progression analysis; Structure + Function with REVO OCT

TECHNICAL SPECIFICATIONS

Bowl	300 mm radius, aspherical, closed
Test field range	180° horizontal; 60° superior (70° with fixation shift), 70° inferior
Perimetry	static and kinetic (manual, automated, mixed)
Stimulus (Goldmann)	sizes I–V; white, green, blue, red
Background	white 10 or 31.5 asb; yellow 315 asb
Max. stimulus intensity	10 000 asb
Strategies	ZETA family, threshold, screening, Esterman, Flicker, BSV, kinetic
Fixation control	gaze tracking, blink monitoring, Heijl-Krakau, EyeSee
Connectivity	DICOM (Storage, MWL), GDT, TXT, network
Dimensions (H × W × D)	606 × 532 × 438 mm
Weight	17 kg
Power consumption	100 W
Medical device risk class	Class I

Manufacturer brochure



Perimat 2

Automated static and kinetic perimeter

Exclusive distributor for CZ & SK

The fuller-featured sibling of Peristat 2: it adds kinetic perimetry and coloured stimuli, including blue-on-yellow (SWAP), to threshold and suprathreshold testing. It shares the 17″ touch interface, eye tracking and progression analysis, and adds a near-vision test.

HIGHLIGHTS

- Static and kinetic testing (automatic, manual and custom kinetic)
- White, red, green and blue stimuli; blue-on-yellow SWAP incl. TIA-SWAP
- Goldmann I–V stimulus sizes up to 90° temporally
- Progression analysis with Field of View Index (FVI); DICOM OPV export
- Near-vision test and built-in patient audio guide

TECHNICAL SPECIFICATIONS

Max. temporal range	90°
Testing distance	30 cm
Stimulus	White, green, red, blue; Goldmann I–V
Background illumination	31.5 asb or 10 asb white, 315 asb yellow
Stimulus duration	200 ms / 500 ms or 0.1–9.9 s
Threshold strategies	TIA-Standard, TIA-Fast, TIA-Superfast, TIA-SWAP, full, fast and foveal threshold
Kinetic perimetry	Auto kinetic; manual kinetic (meridian, point-to-point, blind spot); custom patterns
Fixation control	Heijl-Krakau, digital eye tracking (DETect), head tracking, vertex monitoring
Display	17″ HD capacitive touch screen
Connectivity	LAN and wireless; DICOM export, DICOM OPV and worklist
Dimensions (W × D × H)	443 × 457 × 576 mm
Weight	20.8 kg
Medical device risk class	Class Im (measuring function)

Manufacturer brochure



Perismart

Compact static automated perimeter

Exclusive distributor for CZ & SK

A lightweight, portable static perimeter with white-on-white Goldmann III stimuli and screening and fast-threshold strategies for early glaucoma detection. A moving fixation point extends the tested field to 80° horizontally.

HIGHLIGHTS

- Compact, portable design weighing approx. 9 kg
- Full-field, glaucoma, central 30°/22° and macula 10° test fields
- Special tests incl. binocular driving and occupational-medicine fields
- Fixation control by the Heijl-Krakau blind-spot method and CCD eye tracking

TECHNICAL SPECIFICATIONS

Perimeter bowl	Part-hemispherical, 300 mm radius
Test field extent	50° horizontal, 30° vertical (80° / 40° with moving fixation)
Stimulus	White LED rear projection, Goldmann III (0.43°)
Background illumination	10 cd/m² (32 asb), automatic level control
Stimulus duration	0.1–9.9 s, adjustable
Standard test fields	Full, glaucoma, central 30°, central 22°, macula 10°
Fixation control	Heijl-Krakau blind-spot method and CCD eye tracking
Chin rest	Electrically adjustable
Dimensions (W × D × H)	548 × 450 × 382 mm
Weight	approx. 9 kg
Power consumption	max. 35 VA
Power supply	115–230 V AC, 50/60 Hz

Manufacturer brochure



Peristat 2

Automated static perimeter

Exclusive distributor for CZ & SK

A compact automated perimeter for threshold and suprathreshold testing with white Goldmann I–V stimuli up to 90° temporally. A 17″ portrait touch screen, digital eye tracking and progression analysis make glaucoma follow-up efficient.

HIGHLIGHTS

- TIA (Standard, Fast, Superfast), full, fast and foveal threshold strategies
- Two-zone, three-zone and quantify-defects suprathreshold tests, incl. Esterman
- Digital eye tracking (DETect), head tracking and video eye preview
- Single-field, GHT and progression analysis with Field of View Index (FVI); DICOM export
- Built-in patient audio guide; LAN and wireless networking

TECHNICAL SPECIFICATIONS

Max. temporal range	90°
Testing distance	30 cm
Stimulus	White, Goldmann I–V
Background illumination	31.5 asb, white
Stimulus duration	200 ms / 500 ms or 0.1–9.9 s
Threshold strategies	TIA-Standard, TIA-Fast, TIA-Superfast, full, fast and foveal threshold
Threshold test fields	24-2, 24-2C, 10-2, 30-2, peripheral 60-4, macula, nasal step, custom
Fixation control	Heijl-Krakau, digital eye tracking (DETect), head tracking, vertex monitoring
Display	17″ HD capacitive touch screen
Connectivity	LAN and wireless; DICOM export, DICOM OPV and worklist
Dimensions (W × D × H)	443 × 457 × 576 mm
Weight	20.6 kg
Medical device risk class	Class Im (measuring function)

Manufacturer brochure



Phoromat 2000

Automated phoropter

Exclusive distributor for CZ & SK

An automated phoropter run from a 10.4″ touch panel that imports lensmeter and autorefractor data and controls Rodenstock Instruments chart panels. Built-in standard refraction tests make the subjective routine faster and more consistent.

HIGHLIGHTS

- 10.4″ colour touch-panel controller with built-in thermal printer
- Minus and plus cylinder; rotary prism
- Imports lensmeter and autorefractor data
- Communicates with all Rodenstock Instruments chart panels and the Rodachart 422
- All standard refraction tests; LED-lit near-point chart (35–70 cm)

TECHNICAL SPECIFICATIONS

Sphere range	−29.00 to +26.75 D (0.12 / 0.25 / 1 / 2 / 3 D steps)
Cylinder range	0.00 to ±8.75 D (0.25 / 1 / 2 / 3 D steps)
Cylinder axis	0–180° (1° / 5° / 15° steps)
Prism	0–20 Δ (0.1 / 0.5 / 2 Δ steps)
PD range	48–80 mm (distance), 50–74 mm (near)
Cross cylinder	±0.25 D, ±0.50 D, ±0.25 D auto
Retinoscopy lens	+1.50 D (67 cm), +2.00 D (50 cm)
Visual field	40° (VD 12 mm), 39° (VD 14 mm)
Near working distance	35–70 cm (5 cm steps)
Controller	10.4″ colour TFT touch panel, thermal printer
Refractor head (W × D × H)	410 × 65 × 320 mm, approx. 4.0 kg
Power consumption	220–270 VA
Medical device risk class	Class I

Manufacturer brochure



Phorovist 800

Manual phoropter

Exclusive distributor for CZ & SK

A manual phoropter with multi-coated lenses and precise, positive-click mechanics for dependable subjective refraction. Cross cylinder, rotary prism, near-vision chart and convergence system are all on board.

HIGHLIGHTS

- Multi-coated lenses for clear, reliable refraction results
- Positive click and smooth movement of all knobs
- Cross cylinder ±0.25 D and rotary prism 0–20 Δ
- Near-vision chart and convergence system
- Auxiliary lenses incl. Maddox rods, polarising and red/green filters

TECHNICAL SPECIFICATIONS

Sphere range	−19.00 to +16.75 D (0.12 / 0.25 D steps)
Cylinder range	0.00 to −6.00 D (−8.00 D with auxiliary lens)
Cylinder axis	0–180°
Prism	0–20 Δ (1 Δ steps)
PD range	50–80 mm
Cross cylinder	±0.25 D
Auxiliary lenses	Occluder, pinhole, red/green and polarising (45°/135°) filters, ±0.50 D fixed cross cylinder, Maddox rods, 6/10 Δ prisms, +0.12 D lens
Additional lenses	Cylinder lenses −0.12 D and −2.00 D
Retinoscopy lens	+2.00 D (50 cm)
Effective field of view	18.5 mm
Dimensions (W × D × H)	340 × 110 × 310 mm
Weight	approx. 4.8 kg
Medical device risk class	Class I

Manufacturer brochure



Phorovist 2000

Manual phoropter

Exclusive distributor for CZ & SK

A classic manual phoropter with proven, precise mechanics and high-grade coatings on all lenses. Optional lenses extend the sphere range to −29.00/+26.75 D, and a convergence system supports near testing.

HIGHLIGHTS

- High-grade coating on all lenses
- Cross cylinder ±0.25 D and rotary prism 0–20 Δ
- Convergence from infinity to 400 mm for near testing
- Near-vision and auxiliary lenses incl. Maddox rods and polarising filter

TECHNICAL SPECIFICATIONS

Sphere range	−19.00 to +16.75 D (−29.00 to +26.75 D with optional lens)
Sphere steps	0.12 / 0.25 D
Cylinder range	0.00 to −6.00 D (−8.00 D with auxiliary lens)
Cylinder axis	0–180° (5° steps)
Prism	0–20 Δ (1 Δ steps)
PD range	48–80 mm (distance)
Convergence	Infinity to 400 mm
Cross cylinder	±0.25 D
Retinoscopy lens	+2.00 D (50 cm)
Auxiliary lenses	Occluder, pinhole, red/green and polarising (45°/135°) filters, ±0.50 D fixed cross cylinder, Maddox rods, 6/10 Δ prisms, +0.12 D lens
Dimensions (W × D × H)	323 × 85 × 315 mm
Weight	approx. 5.0 kg
Medical device risk class	Class I

Manufacturer brochure



ALINO

Multifunction diagnostic station (5 + 1)

Exclusive distributor for CZ & SK

One compact device that combines autorefraction, keratometry, corneal topography, non-contact tonometry and pachymetry with a dry-eye observation app. Wide-field auto-alignment and auto-measurement save both time and space in the practice.

HIGHLIGHTS

- Refraction with Quick Ref mode for less cooperative patients
- Keratometry with KAI/KRI indices; topography with axial and instantaneous maps and Fourier analysis
- Gentle air-puff tonometry with CCT-corrected IOP
- Dry-eye app: blink analysis, tear meniscus height, hyperaemia, meibomian glands; optional TSAS tear-stability analysis
- Data export via USB, LAN, Wi-Fi or SD card; links to the Phoromat 2000 phoropter

TECHNICAL SPECIFICATIONS

Sphere range	−30.00 to +25.00 D (VD 12 mm)
Cylinder range	0.00 to ±12.50 D
Minimum pupil diameter	2 mm
Keratometry (corneal radius)	5.00–13.00 mm
Topography (corneal radius)	5.50–10.00 mm
IOP measurement range	1–60 mmHg (1–80 hPa)
Pachymetry range	300–800 µm
PD measurement range	20–85 mm
Data output	3× USB 2.0, LAN, SD card, Wi-Fi; export CSV, XML, JPG, PDF, DICOM
Dimensions (W × D × H)	312 × 491 × 450 mm
Weight	approx. 23 kg
Power consumption	110 VA
Medical device risk class	Class IIa

Manufacturer brochure



CX 800

Auto ref-keratometer

Exclusive distributor for CZ & SK

An economical auto ref-keratometer that measures refraction, central keratometry and pupil and corneal diameter with automatic measurement. A sensible choice when you need reliable starting values without extra features.

HIGHLIGHTS

- Central keratometry over a 3 mm zone in about one second
- Automatic measurement
- Pupil and corneal diameter measurement for contact-lens fitting
- IOL/cataract mode and high-speed mode
- 5.7″ colour LCD, built-in thermal printer and electric chin rest

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +22.00 D (VD 12 mm)
Cylinder range	0 to ±10.00 D
Axis	0–180°
Display increments	0.01 / 0.12 / 0.25 D
Corneal radius	5.00–11.00 mm (30.68–67.50 D)
Keratometry zone	Ø 3 mm
Minimum pupil diameter	2 mm
PD range	50–86 mm
Display	5.7″ colour LCD
Output	RS-232C
Dimensions (W × D × H)	297 × 500 × 448 mm
Weight	approx. 17 kg
Medical device risk class	Class IIa

Manufacturer brochure



CX 1000

Auto ref-keratometer with tilting and swivelling display

Exclusive distributor for CZ & SK

A compact auto ref-keratometer with a tilting, swivelling 7″ monitor and useful extras: retro-illumination, near-vision simulation and both central and peripheral K-readings. Its high-speed mode helps with less cooperative patients.

HIGHLIGHTS

- Central and peripheral keratometry
- Retro-illumination images (up to 10 per eye) to check the crystalline lens or contact-lens scratches
- Near-vision simulation
- Pupil, corneal (white-to-white) and PD measurement
- Thermal printer with auto-cutter; RS-232C, VGA, USB and Wi-Fi

TECHNICAL SPECIFICATIONS

Sphere range	−30.00 to +25.00 D (VD 12 mm)
Cylinder range	0 to ±10.00 D
Axis	1–180°
Minimum pupil diameter	2 mm
Corneal radius	5.0–13.0 mm
Corneal power	25.96–67.50 D (n = 1.3375)
Corneal astigmatism	0.00 to −15.00 D
PD range	10–88 mm
Monitor	7″ TFT LCD (800 × 480), tilt and swivel
Interfaces	RS-232C, VGA video out, USB, Wi-Fi
Dimensions (W × D × H)	260 × 500 × 450 mm
Weight	approx. 20 kg
Medical device risk class	Class Im (measuring function)

Manufacturer brochure



CX 2000

Fully automatic auto ref-keratometer

Exclusive distributor for CZ & SK

A fast, fully automatic auto ref-keratometer: point the measuring head towards the eye and it aligns and measures by itself, then prompts for the second eye. Central and peripheral K-readings are taken simultaneously in about one second.

HIGHLIGHTS

- Auto-alignment and auto-measurement for both eyes
- Simultaneous central (Ø 3 mm) and peripheral (Ø 6 mm) K-readings with KAI/KRI indices
- Refraction and keratometry in under 3 seconds
- Measures the cornea or the back surface of RGP contact lenses; pupil and corneal diameter
- Electric chin rest and built-in thermal printer

TECHNICAL SPECIFICATIONS

Sphere range	−25.00 to +22.00 D (VD 12 mm)
Cylinder range	0 to ±10.00 D
Axis	0–180°
Display increments	0.01 / 0.12 / 0.25 D
Corneal radius	5.00–11.00 mm (30.68–67.50 D)
Keratometry zones	Ø 3 mm / Ø 6 mm
Minimum pupil diameter	2.2 mm
PD range	50–86 mm
Display	5.7″ colour LCD
Dimensions (W × D × H)	300 × 493 × 466 mm
Weight	approx. 19 kg
Power consumption	130–150 VA
Medical device risk class	Class IIa

Manufacturer brochure



R 30nykto

Portable vision tester for occupational medicine

Exclusive distributor for CZ & SK

A portable vision tester with the key screening tests for occupational medicine: far and near acuity, driving-licence and Ishihara tests, and mesopic vision with and without glare. It is operated from a 7″ tablet and travels in an optional transport case.

HIGHLIGHTS

- Far and near visual acuity at several test distances
- Standardised driving-licence screening and Ishihara colour-vision test
- Mesopic contrast vision with and without glare
- Paediatric screening with single optotypes
- Easy operation via 7″ tablet; optional transport case

TECHNICAL SPECIFICATIONS

Testing distances	33, 40, 57 and 100 cm, infinity
Test field size	5°
Test field luminance, photopic	120 cd/m²
Test field luminance, mesopic	0.032 cd/m² without glare, 0.1 cd/m² with glare
Glare illuminance	0.35 lx
Test sequences	DIN 58220-5 vision screening, DIN 58220-6 road traffic, DIN 58220-7 mesopic vision, JAR-FCL 3 class 2 (pilots), paediatric
Operation	7″ tablet
Dimensions (W × D × H)	265 × 330 × 460 mm
Weight	7.1 kg (net)
Power supply	230 V, 50/60 Hz
Power consumption	40 VA

Manufacturer brochure



SW-800 Vision Screener

Handheld binocular vision screener

A compact handheld screener made by SUOER that measures both eyes at once from about 1 m, much like taking a photo, and shows refraction, pupil size, pupillary distance and gaze deviation within two seconds. Designed for patients from 3 months of age, it makes screening easier even in children who find it hard to cooperate.

HIGHLIGHTS

- Binocular or monocular measurement; eight binocular values within two seconds
- A light flash and an appealing sound attract and hold the child's gaze
- 5-inch colour touchscreen
- Rechargeable, replaceable lithium battery for about 6 hours of work
- Wi-Fi and USB data interfaces; supplied with a printer

TECHNICAL SPECIFICATIONS

Sphere range	−8.50 to +8.50 D (steps 0.25/0.01 D, accuracy ±0.50 D)
Cylinder range	0.00 to 4.50 D (steps 0.25/0.01 D, accuracy ±0.50 D)
Axis	1–180° (step 1°, accuracy ±5°)
Pupil size	3.5–9.0 mm (step 0.1 mm)
PD range	35–80 mm (step 1 mm, accuracy ±1 mm)
Gaze deviation range	0–20°
Working distance	1 m ± 5 cm
Measurement time	approx. 1 s
Interfaces	Wi-Fi, USB
Battery	Rechargeable lithium, approx. 6 h, replaceable
Dimensions (W × D × H)	180 × 130 × 110 mm
Weight	0.8 kg
Medical device risk class	Class IIa

Manufacturer brochure



Retinomax 5

Handheld autorefractor with viewfinder

Refraction-only Retinomax with an eyepiece viewfinder: fast, objective refraction in patients of any age and in any position, ideal for paediatric practice and screening.

HIGHLIGHTS

- Automatic axis compensation: a built-in gyroscope corrects the cylinder axis when the device is tilted
- Colour-coded focus assist and automatic repeat measurements for stable results, even with pupils from 2.3 mm
- Child mode with a melody and colour-changing fixation target (tulip, bear or fireworks, chosen when ordering)
- Viewfinder with ±8 D dioptre adjustment, 48 mm eye relief and an arm that tilts 0–135°
- Retro-illumination mode to check media opacities and IOL position

TECHNICAL SPECIFICATIONS

Sphere range	−20 to +23 D (VD 12 mm)
Cylinder range	0 to ±12 D
Display steps	AUTO / 0.12 / 0.25 D
Minimum pupil size	2.3 mm
Pupil size measurement	2.0–12.0 mm (0.1 mm steps)
Measurement time	approx. 0.14 s
Memory	60 patients (120 measurements)
Viewfinder dioptre adjustment	±8 D
Viewfinder arm tilt	0–135°
Dimensions (W × D × H)	191 × 242 × 223 mm
Weight (with battery)	940 g
Medical device risk class	Class IIa

Manufacturer brochure



Retinomax K+5

Handheld autorefractor-keratometer with viewfinder

Handheld refractor-keratometer with an eyepiece viewfinder that measures refraction and corneal curvature in patients of any age and in any position – a natural fit for paediatric care and screening.

HIGHLIGHTS

- Automatic axis compensation: a built-in gyroscope corrects the cylinder axis when the device is tilted
- Colour-coded focus assist and automatic repeat measurements for stable results, even with pupils from 2.3 mm
- Child mode with a melody and colour-changing fixation target (tulip, bear or fireworks, chosen when ordering)
- Viewfinder with ±8 D dioptre adjustment, 48 mm eye relief and an arm that tilts 0–135°
- Retro-illumination mode to check media opacities and IOL position

TECHNICAL SPECIFICATIONS

Sphere range	−20 to +23 D (VD 12 mm)
Cylinder range	0 to ±12 D
Display steps	AUTO / 0.12 / 0.25 D
Corneal radius	5.00–15.00 mm (0.01 mm steps)
Corneal astigmatism	0 to ±12 D (R 5–13 mm); 0 to ±7 D (R 14–15 mm)
Keratometry zone	ø 3.2 mm (R 8 mm)
Minimum pupil size	2.3 mm
Pupil size measurement	2.0–12.0 mm (0.1 mm steps)
Measurement time	approx. 0.14 s
Memory	60 patients (120 measurements)
Dimensions (W × D × H)	191 × 242 × 223 mm
Weight (with battery)	950 g
Medical device risk class	Class IIa

Manufacturer brochure



Retinomax K+Screeen

Handheld autorefractor-keratometer with tilting screen

The fully equipped handheld Retinomax: refraction and keratometry with a tilting 3.5″ LCD, easy to use for new and experienced operators alike and suitable for patients in any position.

HIGHLIGHTS

- Refraction plus keratometry with corneal radius from 5.00 to 15.00 mm
- Low-reflection 3.5″ colour LCD that tilts through 100° – watch the patient and the live image at once
- Automatic axis compensation: a built-in gyroscope corrects the cylinder axis when the device is tilted
- Child mode with a melody and colour-changing fixation target (tulip, bear or fireworks, chosen when ordering)
- Battery for about 180 minutes of continuous measurement; wireless (IR) printout on the compact printer

TECHNICAL SPECIFICATIONS

Sphere range	−20 to +23 D (VD 12 mm)
Cylinder range	0 to ±12 D
Corneal radius	5.00–15.00 mm (0.01 mm steps)
Corneal astigmatism	0 to ±12 D (R 5–13 mm); 0 to ±7 D (R 14–15 mm)
Keratometry zone	ø 3.2 mm (R 8 mm)
Minimum pupil size	2.3 mm
Pupil size measurement	2.0–12.0 mm (0.1 mm steps)
Measurement time	approx. 0.14 s
Display	3.5″ colour LCD, tilts through 100°
Memory	60 patients (120 measurements)
Dimensions (W × D × H)	168 × 202 × 236 mm
Weight (with battery)	970 g
Medical device risk class	Class IIa

Manufacturer brochure



Retinomax Screeen

Handheld autorefractor with tilting screen

Retinomax with a tilting colour LCD instead of a viewfinder, so the examiner sees the patient and the live image at the same time; refraction only, for children and adults in any position.

HIGHLIGHTS

- Low-reflection 3.5″ colour LCD that tilts through 100° – watch the patient and the live image at once
- Automatic axis compensation: a built-in gyroscope corrects the cylinder axis when the device is tilted
- Child mode with a melody and colour-changing fixation target (tulip, bear or fireworks, chosen when ordering)
- Battery for about 180 minutes of continuous measurement; wireless (IR) printout on the compact printer
- Retro-illumination mode to check media opacities and IOL position

TECHNICAL SPECIFICATIONS

Sphere range	−20 to +23 D (VD 12 mm)
Cylinder range	0 to ±12 D
Display steps	AUTO / 0.12 / 0.25 D
Minimum pupil size	2.3 mm
Pupil size measurement	2.0–12.0 mm (0.1 mm steps)
Measurement time	approx. 0.14 s
Display	3.5″ colour LCD, tilts through 100°
Battery operation	approx. 180 min continuous measurement
Memory	60 patients (120 measurements)
Dimensions (W × D × H)	168 × 202 × 236 mm
Weight (with battery)	960 g
Medical device risk class	Class IIa

Manufacturer brochure



RetCam Envision

Wide-field paediatric retinal imaging system

Exclusive distributor for CZ & SK

A mobile imaging system for newborns and children that captures wide-field colour images of the retina through detachable 130°, 80° and portrait lenses. Designed for ROP screening in the NICU, it offers optional fluorescein angiography and DICOM/PACS connectivity.

HIGHLIGHTS

- Light Shaping Technology for even illumination across the 130° field, including the periphery and darkly pigmented retinas
- Detachable 130°, 80° magnification and portrait lenses that are easy to clean and disinfect
- Handpiece with an FA barrier filter; fluorescein angiography as an option
- 21.5-inch HD touchscreen on a height-adjustable cart
- DICOM/PACS integration with modality worklist; Montage stitches up to 10 images; optional DataLink cloud review

TECHNICAL SPECIFICATIONS

Field of view (standard lens)	130°
Additional lenses	80° magnification lens, portrait lens
Fluorescein angiography	Optional (FA version)
Display	21.5″ IPS touchscreen, 1920 × 1080
Computer	Intel Core i7, 16 GB RAM, 1 TB SSD
Software	Windows 10; RetCam software v7.0
Connectivity	DICOM/PACS, modality worklist
Dimensions (W × D × H, min.)	660 × 610 × 1372 mm
Weight	approx. 85 kg with FA; 82.6 kg without FA
Power supply	100–240 V~, 50/60 Hz, 400 VA
Backup battery	2 × Li-ion 14.4 V, approx. 10 min operation
Operating temperature	10–35 °C



FUNDO

Widefield non-mydriatic fundus camera

Coming soon | Exclusive distributor for CZ & SK

Automatic widefield fundus camera: a single 60° shot (90° from the eye centre) on a 20.3 MP sensor, with optional autofluorescence and angiography. Premiered at ESCRS 2026; availability to be confirmed.

HIGHLIGHTS

- Automatic pupil detection, alignment, focus, exposure and capture with voice guidance
- Colour and IR imaging; optional green/blue FAF, FA and ICGA
- Anterior-segment photography and meibography
- Optional fundus mosaics up to 132° (≈198° from eye centre)
- Common patient database with REVO OCT; links to Optopol perimeters

TECHNICAL SPECIFICATIONS

Field of view	60° (90° from eye centre)
Field of view, small pupil	45° (67° from eye centre)
Mosaic field (optional)	132° (198° from eye centre)
Camera sensor	20.3 MP CMOS
Imaging modes	colour and IR (fundus, anterior); optional FAF green/blue, FA, ICGA
Minimum pupil size	3.3 mm (small-pupil mode)
Focus adjustment	−25 D to +25 D
Working distance	31 mm
Alignment	fully automatic, automatic, manual
Dimensions (L × W × H)	490 × 350 × 530 mm
Weight	19 kg
Power supply / consumption	100–240 V, 50/60 Hz; 90–110 VA
Medical device risk class	Class IIa

Manufacturer brochure



California

Ultra-widefield retinal imaging with angiography

Exclusive distributor for CZ & SK

Ultra-widefield platform for diagnosing and monitoring retinal disease: 200° optomap images plus, depending on configuration, autofluorescence and fluorescein or ICG angiography.

HIGHLIGHTS

- Configurations from colour and AF imaging up to FA and ICG angiography
- Optional true-colour rgb: 4-in-1 Color Depth Imaging from one capture
- Motorised head and chin rest for easier patient alignment
- Images through 2 mm pupils and most cataracts
- Auto-montage up to 220°, measurements in mm and mm², image overlays

TECHNICAL SPECIFICATIONS

Model name / number	P200DTx / A10650
Field of view	200° in a single capture (≈82% of the retina)
Auto-montage	up to 220° (not for FA/ICG)
Imaging modalities	color rg, sensory, choroidal, green AF; by configuration also color rgb, blue AF, FA, ICG
optomap resolution	14 µm (optomap plus), 20 µm (optomap)
Laser wavelengths	635 nm, 532 nm, 488 nm, 802 nm
Exposure time	< 0.4 s
Minimum pupil size	2 mm
Dimensions (W × D × H)	550 × 550 × 608–632 mm
Weight	34 kg
Power consumption (max.)	300 VA
Connectivity	DICOM
Medical device risk class	Class IIa

Manufacturer brochure



Daytona

Ultra-widefield retinal imaging (SLO)

Exclusive distributor for CZ & SK

Ultra-widefield optomap device for routine eye exams and screening: one non-mydriatic capture in under half a second shows 200° of the retina.

HIGHLIGHTS

- 3-in-1 Color Depth Imaging: colour, red-free and choroidal views from one capture
- Green-laser autofluorescence highlights changes in the RPE
- Images through 2 mm pupils and most cataracts
- Auto-montage up to 220° and stereo disc views; OptosAdvance software supplied
- Daytona plus version with improved optics for the upper and lower periphery

TECHNICAL SPECIFICATIONS

Model name / number	P200T / A10600
Field of view	200° in a single capture (≈82% of the retina)
Auto-montage	up to 220° (97% of the retina)
Imaging modalities	color rg, sensory (red-free), choroidal, green AF
optomap resolution	14 µm (optomap plus), 20 µm (optomap)
Laser wavelengths	635 nm, 532 nm
Exposure time	< 0.4 s
Minimum pupil size	2 mm
Dimensions (W × D × H)	440 × 500 × 795 mm
Weight	28 kg
Power consumption (max.)	300 VA
Connectivity	DICOM
Medical device risk class	Class IIa

Manufacturer brochure



FundusScope

Non-mydriatic fundus camera

Exclusive distributor for CZ & SK

An all-in-one non-mydriatic fundus camera with a built-in computer that tracks, focuses and captures automatically, so one retinal image takes about 15 seconds. The 12 MP sensor covers 45°, and multi-image mode extends the view up to 80°.

HIGHLIGHTS

- Automatic 3D eye tracking, autofocus and auto-shot – no pupil dilation needed
- 45° field, extendable up to 80° by combining images from selectable fixation points
- Colour, digital red-free and anterior-segment images; cup-to-disc measurement
- Built-in computer with 10.1″ touch panel; USB, LAN, Wi-Fi and HDMI
- Works with third-party AI screening software for AMD, diabetic retinopathy and glaucoma

TECHNICAL SPECIFICATIONS

Field of view	45° × 45°, up to 80° in multi-image mode
Sensor	12 MP, 4 096 × 3 072 px
Minimum pupil size	4 mm
Working distance	25 mm
Focus adjustment range	−15 D to +10 D (−30 D to +30 D with compensation lens)
Light source	IR LED for observation, white LED flash (10 levels)
Fixation	10 internal fixation points
Interfaces	USB 2.0, Ethernet, HDMI, Wi-Fi
Image formats	JPEG, PNG, BMP, DICOM
Dimensions (W × D × H)	282 × 485 × 492 mm
Weight	17 kg
Power consumption	< 150 W
Medical device risk class	Class IIa

Manufacturer brochure



PCL5 SHD

Slit lamp with overhead illumination

Exclusive distributor for CZ & SK

A diagnostic slit lamp with the light source at the top of the slit projector, five-step magnification from 6.3× to 40× and a 10° stereo angle. It also serves as the platform for A.R.C. laser workstations such as the CLASSIC 514.

HIGHLIGHTS

- Bright slit, continuously adjustable with one hand; slit rotation ±90°
- Seven light-field diameters from 0.2 to 8 mm, with fixation target
- Blue, red-free and grey (10 %) filters; UV and heat filters built in
- Halogen illumination, optionally LED; parallel or convergent eyepieces
- Optional SuperView coupling and head-up display for laser photocoagulation with the CLASSIC 514

TECHNICAL SPECIFICATIONS

Magnification	6.3× / 10× / 16× / 25× / 40×
Eyepieces	12.5×, ±8 D adjustment
Stereo angle	10°
Pupillary distance	52–78 mm
Slit width	0–8 mm, continuous
Slit length	0.5–8 mm, continuous
Light-field diameters	0.2, 1, 2, 3, 4, 6, 8 mm
Slit rotation	±90°
Filters	Blue, red-free, grey 10 %; UV and heat filters
Illumination	Halogen 6 V/20 W, up to 600 000 lx; optional LED 14 V/5 W
Microscope swing (horizontal)	±30°
Weight	12.7 kg

Manufacturer brochure



PCL5 ZD

Slit lamp with prism illumination path

Exclusive distributor for CZ & SK

A diagnostic slit lamp in the Z design, in which the slit beam is projected via a prism, with a long slit of up to 16 mm and five-step magnification from 6.3× to 40×. The same platform also carries the Q-LAS Nd:YAG laser.

HIGHLIGHTS

- Slit up to 16 mm long and 16 mm wide, continuously adjustable
- Blue, red-free and grey (10 %) filters; UV and heat filters built in
- Halogen illumination, optionally LED; parallel or convergent eyepieces
- Stereo microscope with a 10° stereo angle and a 52–78 mm PD range
- Tonometer adaptation available for diagnostic use

TECHNICAL SPECIFICATIONS

Magnification	6.3× / 10× / 16× / 25× / 40×
Eyepieces	12.5×, ±8 D adjustment
Stereo angle	10°
Pupillary distance	52–78 mm
Slit width	0–16 mm, continuous
Slit length	1–16 mm, continuous
Light-field diameter	1 mm (test mark)
Slit rotation	±90°
Filters	Blue, red-free, grey 10 %; UV and heat filters
Illumination	Halogen 6 V/20 W, up to 600 000 lx; optional LED 14 V/5 W
Microscope swing (horizontal)	±30°
Weight	12.7 kg

Manufacturer brochure



KSL-H3

Slit lamp with tower illumination, 3-step magnification – also digital

Tower-illumination (H-style) slit lamp sharing the LED lighting and Keeler optics of the KSL-H5, with a simpler three-step drum (10×, 16×, 25×) for routine anterior-segment work. Available in traditional, digital-ready and digital versions.

HIGHLIGHTS

- Three-step magnification drum: 10×, 16× and 25×
- LED illumination at 3 800 K with a typical LED life of over 10 000 hours
- Six permanently installed filters and seven fixed apertures, including a 1 mm square for uveitis assessment
- Auxiliary mount for a laser system; accepts Keeler R- and T-type applanation tonometers
- Also available as digital-ready or fully digital: Keeler camera, joystick capture button, automatic right/left eye detection, DICOM; images and video in Keeler Konnect software

TECHNICAL SPECIFICATIONS

Versions	classic · digital-ready · digital (camera + Keeler Konnect)
Magnification	10× / 16× / 25×
Field of view	22 / 14 / 8.5 mm
Eyepieces	12.5×, dioptric adjustment ±8 D
Interpupillary distance	49–77 mm
Slit width	0–14 mm, continuously variable
Slit length	1–14 mm, continuously variable
Slit rotation	±180° with reference scale
Aperture diameters	0.2 / 1 (square) / 2 / 3 / 5 / 9 / 14 mm
Illuminance	248 000 lx (±20 %)
Light source	LED, 3 800 K
Camera (digital version)	2 064 × 1 544 px, 1/1.8″ CMOS global shutter, USB 3.0, 30–60 fps
Weight and size	21 ± 1 kg with chinrest; 75 × 54 × 45 cm (W × D × H)

Manufacturer brochure



KSL-H5

Slit lamp with tower illumination, 5-step magnification – also digital

Tower-illumination (H-style) slit lamp with LED lighting and a five-step magnification drum from 6× to 40×. Offered in traditional, digital-ready and fully digital versions; the digital model captures images and video in Keeler Konnect software.

HIGHLIGHTS

- LED illumination at 3 800 K with a typical LED life of over 10 000 hours
- Six permanently installed filters (clear, red-free, blue, neutral density, diffuser, yellow barrier) and a 1 mm square aperture for uveitis assessment
- 14 mm slit aperture and a finer slit-width scale for precise measurement
- Auxiliary mount for a laser system; accepts Keeler R- and T-type applanation tonometers
- Also available as digital-ready or fully digital: Keeler camera, joystick capture button, automatic right/left eye detection, DICOM; images and video in Keeler Konnect software

TECHNICAL SPECIFICATIONS

Versions	classic · digital-ready · digital (camera + Keeler Konnect)
Magnification	6× / 10× / 16× / 25× / 40×
Field of view	34 / 22 / 14 / 8.5 / 5.5 mm
Eyepieces	12.5×, dioptric adjustment ±8 D
Interpupillary distance	49–77 mm
Slit width	0–14 mm, continuously variable
Slit length	1–14 mm, continuously variable
Slit rotation	±180° with reference scale
Aperture diameters	0.2 / 1 (square) / 2 / 3 / 5 / 9 / 14 mm
Illuminance	248 000 lx (±20 %)
Light source	LED, 3 800 K
Camera (digital version)	2 064 × 1 544 px, 1/1.8″ CMOS global shutter, USB 3.0, 30–60 fps
Weight and size	21 ± 1 kg with chinrest; 75 × 54 × 45 cm (W × D × H)
Medical device risk class	Class I

Manufacturer brochure



KSL-Z3

Slit lamp with lower (Z-style) illumination, 3-step magnification – also digital

Lower-illumination (Z-style) slit lamp with the same LED lighting and optics as the KSL-Z5 but a three-step drum (10×, 16×, 25×). Offered in traditional, digital-ready and digital versions.

HIGHLIGHTS

- Three-step magnification drum: 10×, 16× and 25×
- LED illumination at 3 800 K with a typical LED life of over 10 000 hours
- Continuous 360° slit rotation with detents at 0° and 180°
- Takes the Keeler Z-type applanation tonometer; auxiliary mount for a laser system
- Also available as digital-ready or fully digital: Keeler camera, joystick capture button, automatic right/left eye detection, DICOM; images and video in Keeler Konnect software

TECHNICAL SPECIFICATIONS

Versions	classic · digital-ready · digital (camera + Keeler Konnect)
Magnification	10× / 16× / 25×
Field of view	22 / 14 / 8.5 mm
Eyepieces	12.5×, dioptric adjustment ±8 D
Interpupillary distance	49–77 mm (8° converging eyepieces) / 38–85 mm (0° parallel)
Slit width	0–14 mm, continuously variable
Slit length	1–14 mm, continuously variable
Slit rotation	360° continuous, detents at 0° and 180°
Aperture diameters	0.2 / 1 (square) / 2 / 3 / 5 / 9 / 14 mm
Illuminance	240 000 lx (±20 %)
Light source	LED, 3 800 K
Camera (digital version)	2 064 × 1 544 px, 1/1.8″ CMOS global shutter, USB 3.0, 30–60 fps
Weight and size	20 ± 1 kg with chinrest; 90 × 58 × 45 cm (W × D × H)

Manufacturer brochure



KSL-Z5

Slit lamp with lower (Z-style) illumination, 5-step magnification – also digital

Slit lamp with lower (Z-style) illumination, LED lighting and a five-step magnification drum from 6× to 40×. Available as traditional, digital-ready or fully digital model with image and video capture in Keeler Konnect.

HIGHLIGHTS

- Five magnification steps from 6× to 40× from a single set of Keeler optics
- LED illumination at 3 800 K with a typical LED life of over 10 000 hours
- Continuous 360° slit rotation with detents at 0° and 180°
- Takes the Keeler Z-type applanation tonometer; auxiliary mount for a laser system
- Also available as digital-ready or fully digital: Keeler camera, joystick capture button, automatic right/left eye detection, DICOM; images and video in Keeler Konnect software

TECHNICAL SPECIFICATIONS

Versions	classic · digital-ready · digital (camera + Keeler Konnect)
Magnification	6× / 10× / 16× / 25× / 40×
Field of view	34 / 22 / 14 / 8.5 / 5.5 mm
Eyepieces	12.5×, dioptric adjustment ±8 D
Interpupillary distance	49–77 mm (8° converging eyepieces) / 38–85 mm (0° parallel)
Slit width	0–14 mm, continuously variable
Slit length	1–14 mm, continuously variable
Slit rotation	360° continuous, detents at 0° and 180°
Aperture diameters	0.2 / 1 (square) / 2 / 3 / 5 / 9 / 14 mm
Illuminance	240 000 lx (±20 %)
Light source	LED, 3 800 K
Camera (digital version)	2 064 × 1 544 px, 1/1.8″ CMOS global shutter, USB 3.0, 30–60 fps
Weight and size	20 ± 1 kg with chinrest; 90 × 58 × 45 cm (W × D × H)

Manufacturer brochure



PSL Classic

Handheld portable slit lamp

Cordless handheld slit lamp that brings table-top slit-lamp optics to the bedside, the ward or a home visit. Two magnifications, dimmable LED illumination and a charging base; designed and built in Windsor, UK.

HIGHLIGHTS

- 10× and 16× magnification, switched by a lever
- Slit wheel with 0.15–1.6 mm slits, a 12 mm circle and a 1 mm square for uveitis grading
- Red-free, blue, neutral-density and clear filters plus a built-in IR cut filter
- Rechargeable Li-ion battery with a desk charging base; optional forehead rest and aluminium carry case
- Well suited to immobile, elderly or young patients and to veterinary use

TECHNICAL SPECIFICATIONS

Magnification	10× / 16×
Objective working distance	100 mm (10×) / 80 mm (16×)
Field of view	16 mm (10×) / 10.5 mm (16×)
Slits and apertures	slits 0.15 / 0.5 / 0.8 / 1.6 mm, 12 mm circle, 1 mm square
Slit length	12 mm
Slit angle	±60°
Illuminance	120 000 lx at 50 mm; 17 000 lx at 125 mm
Eyepiece dioptric adjustment	±7 D
Interpupillary distance	50–72 mm
Power	Li-ion battery, charging base, 100–240 V power supply
Weight	approx. 900 g (handheld unit); charging base 300 g
Dimensions (handheld unit)	238 × 116 × 210 mm
Medical device risk class	Class I

Manufacturer brochure



RSL 2100 / 2100digital

Z-type LED slit lamp with optional digital module

Exclusive distributor for CZ & SK

A compact Z-type slit lamp with Galilean converging optics, five magnification steps and bright LED illumination for everyday anterior-segment examination. A 5 MP camera kit can be added later when you want to document findings.

HIGHLIGHTS

- Optional digital module (5 MP camera) – also as a later upgrade
- Z-type illumination with Galilean converging binoculars (10°)
- 5-step drum magnification from 6× to 40×
- Bright white LED (≥150 klx) and integrated yellow filter
- Supplied with a complete electric table or as a base version for mounting on a refraction unit

TECHNICAL SPECIFICATIONS

Optical system	Galilean converging binoculars, 10°
Magnification	6×, 10×, 16×, 25×, 40×
Eyepiece	12.5×
Field of view	36.2 / 22.3 / 14 / 8.9 / 5.7 mm
Interpupillary distance	52–80 mm
Slit width / length	0–14 mm / 1–14 mm, continuously variable
Aperture diameters	0.2 / 3.5 / 8 / 14 mm
Filters	Yellow, red-free, neutral density, blue, IR heat-absorbing, diffuser
Illumination	White LED, ≥150 klx
Digital module (optional)	5 MP (2 592 × 1 944), JPEG photos, MP4 H.264 video at 25 fps, USB 3.0
Dimensions (W × D × H)	330 × 390–460 × 460 mm
Weight	16 kg
Medical device risk class	Class I

Manufacturer brochure



RSL 2600 / 2600digital

H-type LED slit lamp, optionally with integrated digital camera

Exclusive distributor for CZ & SK

An H-type slit lamp pairing Galilean converging optics and LED illumination with a stepped slit inclination. The RSL 2600digital adds an integrated 5 or 12 MP camera with IR background illumination to document findings and explain them to patients.

HIGHLIGHTS

- H-type design with Galilean converging binoculars (10°)
- Slit inclination in four steps: 5°, 10°, 15°, 20°
- RSL 2600digital: integrated 5 MP or 12 MP camera with IR background illumination
- JPEG photos and MP4 video at 25 fps via USB 3.0, with supplied software
- Supplied with a complete electric table or as a base version for mounting on a refraction unit

TECHNICAL SPECIFICATIONS

Optical system	Galilean converging binoculars, 10°
Magnification	6×, 10×, 16×, 25×, 40×
Field of view	36.2 / 22.3 / 14 / 8.9 / 5.7 mm
Interpupillary distance	52–80 mm
Slit width / length	0–14 mm / 1–14 mm, continuously variable
Aperture diameters	0.2 / 1 / 2 / 3 / 5 / 10 / 14 mm
Slit inclination	5°, 10°, 15°, 20°
Illumination	White LED, ≥150 klx
Camera (RSL 2600digital)	5 MP (2 592 × 1 944) or 12 MP (4 056 × 3 040), 1/1.8″ sensor
Video and interface	MP4 H.264 at 25 fps, USB 3.0
Dimensions (W × D × H)	330 × 390–460 × 650 mm
Weight	17 kg
Medical device risk class	Class I

Manufacturer brochure



RSL 4500 / 4500digital

Z-type LED slit lamp with parallel optics, optionally digital

Exclusive distributor for CZ & SK

A high-performance Z-type slit lamp with parallel Galilean optics, an extensive filter set and LED illumination. The RSL 4500digital adds a 2 MP camera with external LED background illumination, turning the examination into an easy-to-follow consultation.

HIGHLIGHTS

- Galilean parallel binoculars with 5-step drum magnification 6×–40×
- Extensive filter set; yellow filter integrated in the optical body
- Optional TAT-100R applanation tonometer
- RSL 4500digital: 2 MP camera, joystick trigger, automatic left/right eye detection and external LED background illumination

TECHNICAL SPECIFICATIONS

Optical system	Galilean parallel binoculars
Magnification	6×, 10×, 16×, 25×, 40×
Eyepiece	12.5×
Field of view	34 / 22 / 14 / 8.5 / 5.5 mm
Interpupillary distance	49–77 mm
Slit width / length	0–14 mm / 0–14 mm, continuously variable
Aperture diameters	0.2 / 2 / 3 / 5 / 9 / 14 mm, 1 mm square
Slit angle	±90°, continuous
Filters	Yellow, clear, red-free, neutral density, blue, IR heat-absorbing, diffuser
Camera (RSL 4500digital)	2 MP CCD (1 600 × 1 200), 1/1.8″, 17.5 fps, USB 3.0
Dimensions (W × D × H)	350 × 432 × 604 mm
Weight	19 kg
Medical device risk class	Class I

Manufacturer brochure



RSL 5000 / 5000digital

H-type LED slit lamp with converging optics, optionally digital

Exclusive distributor for CZ & SK

A high-performance H-type slit lamp with 8° converging Galilean optics, an extensive filter set and LED illumination. The RSL 5000digital integrates a 2 MP camera with LED background illumination for documenting findings.

HIGHLIGHTS

- Galilean converging binoculars (8°) with 5-step drum magnification 6×–40×
- Extensive filter set; yellow filter integrated in the optical body
- Optional TAT-100R applanation tonometer
- RSL 5000digital: 2 MP camera, freeze-frame review and external LED background illumination

TECHNICAL SPECIFICATIONS

Optical system	Galilean converging binoculars, 8°
Magnification	6×, 10×, 16×, 25×, 40×
Eyepiece	12.5×
Field of view	34 / 22 / 14 / 8.5 / 5.5 mm
Interpupillary distance	49–77 mm
Slit width / length	0–12 mm / 1–12 mm, continuously variable
Aperture diameters	0.2 / 2 / 3 / 5 / 9 / 12 mm, 1 mm square
Slit angle	±90°, continuous
Filters	Yellow, clear, red-free, neutral density, blue, IR heat-absorbing, diffuser
Camera (RSL 5000digital)	2 MP CCD (1 600 × 1 200), 1/1.8″, 17.5 fps, USB 3.0
Dimensions (W × D × H)	350 × 410 × 702 mm
Weight	21 kg
Medical device risk class	Class I

Manufacturer brochure



MW 50D Clinical

LED slit lamp with 5-step drum magnification

Japanese-made LED slit lamp with an unusually wide 5× to 50× magnification range, convergent binocular tube and natural, halogen-like light; the MW 50D Digital version adds an integrated 5-megapixel camera.

HIGHLIGHTS

- Drum-type 5-step zoom (5×, 10×, 16×, 25×, 50×) with multi-coated optics
- 5 W white LED with a halogen-like spectrum – no filter needed against the bluish LED tint
- 16 mm slit height for wide views at 5×; built-in barrier filter for fluorescein examination
- Eyepieces converge at 8° for easy fusion; wide-field eyepieces work with spectacles
- Options: 15° tilting tube, detachable background illumination and digital camera unit

TECHNICAL SPECIFICATIONS

Magnification	5×, 10×, 16×, 25×, 50×
Eyepieces	12.5×, dioptre adjustment ±8 D
Working distance	100.5 mm
Light source	5 W white LED, 60 000 h design life
Slit width	0–16 mm, continuous
Slit length	0.2/1/2/5/10/14/16 mm; 1–12 mm continuous
Slit rotation	±90°
Filters	clear, ND 12.5 %, green (red-free), blue, UV cut
Max. illuminance	300 000 lx
Cross-slide travel	100 × 110 mm horizontal, 30 mm vertical
Dimensions (W × D × H)	350 × 387 × 678.5 mm
Weight	13 kg (13.8 kg with digital unit)
Medical device risk class	Class I

Manufacturer brochure



Applanation tonometer L-5110 / L-5130

Slit-lamp mounted applanation tonometer

Applanation tonometer for routine IOP measurement on the slit lamp, offered as the L-5110 swing-arm model that stays mounted on the microscope or the L-5130 model placed on the guide plate.

HIGHLIGHTS

- L-5110 swings in front of the microscope when needed; a notch centres the prism on the left eyepiece
- L-5130 sits on the guide plate in two positions for viewing through the right or left eyepiece
- Built-in cobalt filter for reflection-free observation of the split images
- Supplied with two measuring prisms, calibration bar and adaptor; sterilisable cone prisms available
- Designed for Inami slit lamps; CE marked under the MDR (class Im)

TECHNICAL SPECIFICATIONS

Measuring range	0–80 mmHg
Scale graduation	2 mmHg (±0.5 mmHg)
Applanation diameter	3.06 mm
Versions	L-5110 swing arm; L-5130 guide plate
Standard set	tonometer, 2 prisms, calibration bar, adaptor
Dimensions (W × D × H)	47 × 30 × 85 mm
Weight	725 g
Medical device risk class	Class Im (measuring function)

Manufacturer brochure



D-KAT

Digital Goldmann applanation tonometer

Digital Goldmann-type applanation tonometer for H-style (tower-illumination) slit lamps that shows IOP on an LED display to one decimal place. Available as R-type, which stays on the slit lamp and swings into position, or as removable T-type.

HIGHLIGHTS

- Goldmann method: IOP is derived from the force needed to flatten a defined corneal area
- LED display that stays easy to read in a darkened examination room
- Runs on a standard AA battery; self-test at power-on
- Works with re-usable Goldmann prisms or Keeler Tonoclear single-use prisms
- Calibration arm supplied; designed and hand-assembled in Windsor, UK

TECHNICAL SPECIFICATIONS

Calibrated range	5–65 mmHg
Measurement deviation	≤ 0.49 mN or ≤ 1.5 % of the reading, whichever is greater
Hysteresis	≤ 0.49 mN
Display	LED, 0.1 mmHg resolution
Power	AA battery
Versions	R-type (fixed, swing-in) / T-type (removable, guide plate)
Compatibility	H-style slit lamps (Haag-Streit type); R-type also some Zeiss-type
Weight	0.58 kg (R-type) / 0.37 kg (T-type)
Standard	ISO 8612:2009
Medical device risk class	Class IIa

Manufacturer brochure



KAT

Mechanical Goldmann applanation tonometer

Fully mechanical Goldmann applanation tonometer read from a calibrated drum, so no battery is needed. Offered as R-type and T-type for H-style slit lamps and as the newer Z-type for Z-style (lower-illumination) slit lamps.

HIGHLIGHTS

- Smooth drum control with readings from 0 to 80 mmHg
- Calibration arm supplied for routine accuracy checks
- Accepts re-usable Goldmann prisms and Tonoclear single-use prisms
- Z-type available for Keeler slit lamps and for other manufacturers' Z-style slit lamps
- British-made, hand-assembled in Windsor

TECHNICAL SPECIFICATIONS

Measurement range	0–80 mmHg
Scale division	1.96 mN (2 mmHg)
Measurement uncertainty	≤ 0.49 mN up to 32.67 mN; ≤ 1.5 % above
Hysteresis	≤ 0.49 mN
Measuring force	lever weight, no battery
Versions	R-type (fixed) / T-type (removable) / Z-type (Z-style slit lamps)
Weight	0.82 kg (R) / 0.48 kg (T) / 0.76 kg (Z)
Standard	ISO 8612:2009
Medical device risk class	Class I

Manufacturer brochure



REM 4000

Non-contact specular microscope with pachymetry

Exclusive distributor for CZ & SK

Captures the corneal endothelium without contact and automatically analyses cell density, size and shape, measuring central corneal thickness in the same exam. It makes monitoring contact-lens wearers and assessing common corneal conditions a quick routine.

HIGHLIGHTS

- 13 capture positions: 1 central and 12 peripheral
- Automatic analysis plus L-count, core and dark-area methods
- Integrated non-contact pachymetry
- Auto-alignment and auto-measurement; internal database and thermal printer

TECHNICAL SPECIFICATIONS

Capture area	0.25 × 0.54 mm
Capture positions	1 central + 12 peripheral
Images per examination	16
Analysed cells	More than 300
Analysis values	CD, AVG, SD, CV, max./min. cell area, polymegathism, pleomorphism
Pachymetry range	300–1 000 µm
Pachymetry accuracy	±10 µm
Display	10.4″ colour LCD
Data output	USB-H, USB-D, LAN; SD card database
Dimensions (W × D × H)	309 × 491 × 450 mm
Weight	22 kg
Power consumption	100 VA

Manufacturer brochure



TopaScope

Non-contact tonometer with Scheimpflug pachymetry

Exclusive distributor for CZ & SK

A non-contact tonometer that measures IOP with a soft air puff and central corneal thickness with a Scheimpflug camera, then corrects the IOP for CCT. 3D auto-tracking and one-touch auto-measurement keep the exam quick and comfortable.

HIGHLIGHTS

- Soft air-puff IOP measurement without corneal contact
- Scheimpflug CCT measurement with automatic IOP correction
- Fully automatic 3D tracking; full-auto, auto and manual modes
- 10.1″ touch screen, internal patient database and thermal printer with auto-cutter

TECHNICAL SPECIFICATIONS

IOP measurement range	1–60 mmHg
IOP range setting	Auto / 30 mmHg / 60 mmHg
Display units	mmHg / hPa
Working distance	11 mm
Pachymetry range	400–800 µm
Pachymetry principle	Scheimpflug slit image of the central cornea, blue LED
Measurement modes	Full auto / auto / manual
Display	10.1″ LCD touch screen
Interfaces	USB, RS-232
Dimensions (W × D × H)	282 × 500 × 500 mm
Weight	17 kg
Power supply	100–240 V AC, 50/60 Hz
Medical device risk class	Class IIa

Manufacturer brochure



BOBO

Trial lens set (266 pcs)

A complete trial lens set with 266 lenses in silver metal rims – spheres to 20 D, cylinders to 6 D, prisms, cross-cylinders and accessories; in a wooden box and aluminium case.

HIGHLIGHTS

- Spheres 40 pairs, 0.25–20.00 D
- Cylinders 20 pairs, 0.25–6.00 D
- Prisms 12 pcs, 0.5–10 D
- Cross-cylinders ±0.25 and ±0.50
- Wooden box and aluminium case

TECHNICAL SPECIFICATIONS

Pieces	266
Lens rims	Silver metal
Spheres	40 pairs, 0.25–20.00 D
Cylinders	20 pairs, 0.25–6.00 D
Prisms	12 pcs, 0.5–10.0 D
Accessories	14 pcs (filters, occluders, Maddox, pinhole...)
Cross-cylinders	±0.25 and ±0.50
Case	Wooden box and aluminium case



ECHO

Trial lens set (68 pcs)

A compact trial lens set with 68 lenses in metal rims: 2 × 28 spherical lenses (plus and minus) and 12 minus cylinders.

HIGHLIGHTS

- 68 lenses in metal rims
- 2 × 28 spheres (plus and minus)
- 12 minus cylinders

TECHNICAL SPECIFICATIONS

Pieces	68
Lens rims	Metal
Spheres	2 × 28 pcs (plus and minus)
Cylinders	12 minus



VIVI

Trial lens set (266 pcs)

A trial lens set with 266 lenses in plastic rims with a metal ring (also available with 272 pieces), two extra cross-cylinders and an aluminium carrying case.

HIGHLIGHTS

- 266 lenses (272 optional)
- Plastic rims with metal ring
- 2 extra cross-cylinders
- Aluminium case

TECHNICAL SPECIFICATIONS

Pieces	266 / 272
Lens rims	Plastic with metal ring
Cross-cylinders	2 extra pcs
Case	Aluminium



BR-260

Trial lens set (260 lenses)

A 260-lens trial set with large Ø 36 mm mineral-glass lenses in copper-alloy rims. Cylinder axes are aligned with the lens handle, which makes work in a darkened room easier; the set comes in a portable carry case.

HIGHLIGHTS

- 39 pairs of plus and 39 pairs of minus spheres from 0.25 to 20.00 D
- 20 pairs of plus and 20 pairs of minus cylinders from 0.25 to 6.00 D
- 14 prisms (0.5–10 Δ) plus auxiliary lenses including a crossed-line lens, Maddox rod, red and green filters and a −0.50 D cross cylinder with handle

TECHNICAL SPECIFICATIONS

Lenses in total	260
Spheres	78 plus + 78 minus (39 pairs each), 0.25–20.00 D
Cylinders	40 plus + 40 minus (20 pairs each), 0.25–6.00 D
Prisms	14 (0.5–10 Δ)
Auxiliary lenses	10
Lens / rim diameter	Ø 36 mm mineral glass / Ø 38 mm copper-alloy rims
Net weight	6 kg
Packaging	1 box, 57 × 39 × 11 cm, 6.8 kg gross
Medical device risk class	Class I

Manufacturer brochure



PL-232

Trial lens set (232 lenses)

A complete set of 232 mineral-glass trial lenses (Ø 25 mm) in ABS rims, with clearly marked cylinders, supplied in a portable carry case.

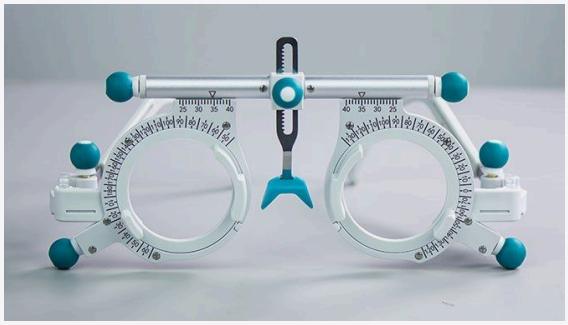
HIGHLIGHTS

- 34 pairs of plus and 34 pairs of minus spheres from 0.12 to 20.00 D
- 19 pairs of plus and 19 pairs of minus cylinders from 0.12 to 6.00 D
- 10 prisms (1–10 Δ) plus auxiliary lenses: occluders, pinholes, stenopaeic slit, Maddox rod, frosted and plano lenses, red and green filters and a −0.50 D cross cylinder with handle

TECHNICAL SPECIFICATIONS

Lenses in total	232
Spheres	68 plus + 68 minus (34 pairs each), 0.12–20.00 D
Cylinders	38 plus + 38 minus (19 pairs each), 0.12–6.00 D
Prisms	10 (1–10 Δ)
Auxiliary lenses	10
Lens / rim diameter	Ø 25 mm mineral glass / Ø 38 mm ABS rims
Net weight	5 kg
Packaging	1 box, 57 × 39 × 11 cm, 5.6 kg gross
Medical device risk class	Class I

Manufacturer brochure



Trial frames UTF · Eagle · Panda

Trial frames

Metal and titanium trial frames for adults and children in three models.

HIGHLIGHTS

- Adjustable pupillary distance
- For adults and children
- Metal or titanium
- Adjustable temples and nose rest

TECHNICAL SPECIFICATIONS

UTF-T4880	PD 40–80 mm, 10 lenses
Eagle	Titanium, PD 54–70 mm, 4 lenses per side, 48 g
Panda	PD 48–80 mm, 74–84 g
Trial lens diameter	38 mm



Universal trial frame K-0391

Universal trial frame

Lightweight universal trial frame for subjective refraction, built for patient comfort, with quick PD and corneal-distance adjustment and secure seating for up to ten trial lenses.

HIGHLIGHTS

- PD adjustable from 48 to 80 mm, with a corneal-distance measuring plate
- Adjustable frame tilt and length; nose pad rotates through 360°
- Holds up to 10 trial lenses securely
- Available in black, violet and white
- CE marked under the MDR (class I)

TECHNICAL SPECIFICATIONS

PD range	48–80 mm (±0.8 mm)
Corneal measuring plate	2 mm graduation
Frame tilt	35° (up 30° ±5°, down 5° +5°/–2°)
Frame length adjustment	35 mm
Nose pad rotation	360°
Nose pad length adjustment	22 mm ±1.5 mm
Lens capacity	up to 10 trial lenses
Colours	black (K-0391/K-0391T), violet (K-0391-V), white (K-0391-G)
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



TF-1

Paediatric trial frame

A durable trial frame for examining children, with special adjustable nose pads. It was previously sold as TF-2 Pediatric.

HIGHLIGHTS

- Holds up to four trial lenses at once
- Adjustable nose pads and temples (±15°) for small faces
- No assembly needed; ready to use on delivery

TECHNICAL SPECIFICATIONS

Weight	47 g
PD adjustment	48–60 mm
Axis scale step	5°
Lens rotation	0–360°
Temple angle adjustment	±15°
Nose-pad adjustment	0–4 mm
Max. number of trial lenses	4
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



TF-2

Lightweight trial frame for adults and children

A light trial frame for adults and children alike, supplied with two sizes of nose rest and fully adjustable to the position of the nose and ears.

HIGHLIGHTS

- Two nose-rest sizes included
- Holds up to five trial lenses at once
- Wide adjustment of PD (50–80 mm), vertex distance (0–13 mm) and nose pad (0–23 mm)

TECHNICAL SPECIFICATIONS

Weight	61 g
PD adjustment	50–80 mm
Axis scale step	5°
Lens rotation	0–360°
Temple angle adjustment	±10°
Vertex distance adjustment	0–13 mm
Nose-pad adjustment	0–23 mm
Max. number of trial lenses	5
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



TF-4

Trial frame for adults

A solid trial frame for adults, fully adjustable to the position of the nose and ears.

HIGHLIGHTS

- Sturdy construction for adult patients
- PD adjustment 48–80 mm and vertex distance 0–10 mm
- Holds up to four trial lenses at once

TECHNICAL SPECIFICATIONS

Weight	80 g
PD adjustment	48–80 mm
Axis scale step	5°
Lens rotation	0–360°
Temple angle adjustment	±10°
Vertex distance adjustment	0–10 mm
Nose-pad adjustment	0–14 mm
Max. number of trial lenses	4
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



TF-6

Lightweight trial frame

A durable yet lightweight trial frame for precise refraction, designed to stay comfortable for the patient during longer fittings.

HIGHLIGHTS

- Holds up to five trial lenses at once
- PD 50–80 mm, vertex distance 0–13 mm, nose pad 0–23 mm
- Full 0–360° lens rotation with a 5° axis scale

TECHNICAL SPECIFICATIONS

Weight	55 g
PD adjustment	50–80 mm
Axis scale step	5°
Lens rotation	0–360°
Temple angle adjustment	±10°
Vertex distance adjustment	0–13 mm
Nose-pad adjustment	0–23 mm
Max. number of trial lenses	5
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



TF-8

Trial frame with fine PD adjustment

A versatile trial frame with smooth, accurate adjustment of pupillary distance and nose pad, for precise lens alignment, reliable results and patient comfort.

HIGHLIGHTS

- Weighs just 47 g
- PD 48–70 mm; temples adjustable by ±15°
- Holds up to four trial lenses at once

TECHNICAL SPECIFICATIONS

Weight	47 g
PD adjustment	48–70 mm
Axis scale step	5°
Lens rotation	0–360°
Temple angle adjustment	±15°
Nose-pad adjustment	0–4 mm
Max. number of trial lenses	4
Trial lens diameter	38 mm
Medical device risk class	Class I

Manufacturer brochure



SW-21 DELTA

Modular A/B/P/UBM ultrasound scanner

A modular, upgradable and portable ophthalmic ultrasound scanner run from a Windows computer. Any combination of A-scan, B-scan, pachymetry and UBM can be chosen and further modes added later. It records images and videos of the examination; the Prof. Jack Kane formula is available as an option.

HIGHLIGHTS

- Any combination of A / B / P / UBM; modes can be added later
- B-scan 10 MHz, 60 mm depth, 53° angle, 256 grey levels, 100-frame movies
- A-scan 10 MHz, ±0.05 mm precision; SRK-II, SRK-T, Hoffer Q, Holladay, Binkhorst II, Haigis
- 50 MHz UBM for the anterior segment, 16 × 9 mm scan, ≤ 40 µm precision, 1024 lines
- Display modes B, B+B, B+A, A and UBM+A; user-defined report templates
- Optional integrated Prof. Jack Kane formula

TECHNICAL SPECIFICATIONS

Modes	A-scan, B-scan, pachymetry, UBM (any combination)
B-scan	10 MHz, sector, 60 mm depth, 53° angle, resolution ≤ 0.3 mm lateral / ≤ 0.2 mm axial, gain 30–105 dB
A-scan	10 MHz, 40 mm depth, ±0.05 mm precision; ACD, lens thickness, vitreous, axial length
IOL formulas	SRK-II, SRK-T, Hoffer Q, Holladay, Binkhorst II, Haigis
UBM	50 MHz, 16 × 9 mm / 10 × 6.5 mm scan, ≤ 40 µm precision, 1024 lines
Recording	100-frame movie, AVI / JPG export
Platform	Windows
Medical device risk class	Class IIa

Manufacturer brochure



SW-1000 A/P

Ultrasound biometer and pachymeter (A/P scan)

A stand-alone, precise ultrasound biometer and pachymeter with a touchscreen and built-in printer. The A-scan measures axial length, anterior chamber depth and lens thickness and calculates the IOL; the P-scan measures corneal thickness.

HIGHLIGHTS

- 10 MHz A-scan probe for biometry and IOL calculation
- Automatic or foot-switch measurement; 10 readings per eye with mean and standard deviation
- Phakic, aphakic and pseudophakic eyes; SRK-II, SRK-T, Hoffer Q, Holladay, Binkhorst II, Haigis
- 20 MHz pachymetry probe, 150–1500 µm range, 5 µm resolution, single or map mode
- Touchscreen and built-in thermal printer

TECHNICAL SPECIFICATIONS

Modes	A-scan (biometry), P-scan (pachymetry)
A-scan probe	10 MHz, 0.06 mm precision
IOL formulas	SRK-II, SRK-T, Hoffer Q, Holladay, Binkhorst II, Haigis
P-scan probe	20 MHz, 45°
Pachymetry	150–1500 µm range, 5 µm resolution; single / map
Controls	touchscreen, foot switch
Printing	built-in thermal printer
Medical device risk class	Class IIa

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