

Equipment Catalogue

From consulting, diagnostics, treatment, and dispensing tools, Opticare offers a wide range of essential tools for your practice.

i-Optik

A professional optical instruments manufacturer since 1997.

[Ophthalmic Units](#)[Refraction](#)[Lensmeters](#)[Lens Edgers](#)

Opticare is an Australian-owned optical lab and equipment provider that has supported independent optometry for four decades. We supply, install, and support the i-Optik range across Australia.

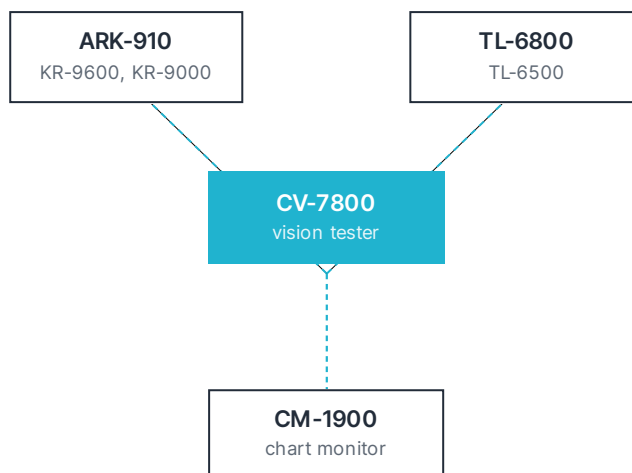
Reliable optical instruments since 1997

i-Optik has designed and built optical equipment since 1997, and was behind many firsts for its home market, including the first locally made auto lens edger, auto lensmeter, and computerised vision tester.

Today i-Optik instruments are used in more than 60 countries, and the company works with well-known international brands on new solutions for eye care.

One connected refraction lane

i-Optik computerised vision testers such as the CV-7800 exchange data with i-Optik ref/keratometers, lensmeters, and chart monitors, so results move from one instrument to the next without re-keying.



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TCS-880

Ophthalmic Unit

A complete, space-saving consulting workstation that integrates your phoropter, auto ref/keratometer, slit lamp, and chart projector around an ergonomic motorised patient chair. Designed with a smooth-rotating table top and motorised phoropter arm, the TCS-880 optimises clinical workflow and provides maximum patient comfort during examinations.

- Built-in drawer designed for trial lens set storage
- Smooth-rotating sliding table top holds up to two primary instruments
- 90° rotating table top and swing-out secondary instrument surface
- Centralised control panel with soft-touch switches

Specifications

Dimensions	1040(W)*1030(D)*1830(H)mm	Table-top lifting range	710-860mm
Table-top size	1000(W)*480(D)mm	Power supply	AC 220V/50Hz, AC 110V/60Hz
Tray-table size	293(W)*115(D)mm	Power consumption	120VA
Drawer size	535(W)*375(D)*55(H)mm	Net weight	150Kg
Phoropter arm lifting range	420mm	Lifting range	480-630mm



TCS-900

Ophthalmic Unit

A complete consulting unit that brings your auto ref/keratometer, phoropter, chart projector, and slit lamp together around one motorised chair. A rotating, retractable table top, and electric phoropter arm keep each instrument within reach.

- Motorised patient chair and electric lifting phoropter arm
- Power each instrument on and off from the panel or remote
- Integrated soft lighting
- Quiet operation, under 55 dB(A)

Specifications

Arm travel	300 mm	Arm rotation	4° – 90°
Chair lift	150 mm	Power	220 V, 50 Hz, 110 VA
Dimensions	950 x 1080 x 1630 mm	Weight	220 kg



AXL-100

Optical Biometer

A Fourier-domain optical biometer that uses OCT imaging to measure axial length from the anterior cornea to the macular fovea, with greater accuracy than time-domain biometers. One scan captures every parameter you need for myopia management and IOL work.

- Axial length, CCT, K, white-to-white, pupil diameter, and ACD in one scan
- Objective auto-focus and capture, with voice prompts guiding each step
- Live imaging confirms fixation, useful for ortho-k and irregular corneas
- Axial growth trend charts to flag myopia risk and explain results to families

Specifications

Axial length	12.0 - 38.0 mm (0.01 mm)	Central corneal thickness	0.2 - 1.4 mm
Corneal radius	4.0 - 12.0 mm	Keratometry	28.10 - 84.40 D (0.01 D)
White to white	6 - 16 mm	Anterior chamber depth	0.7 - 7.0 mm
Display	10.1-inch colour touch screen	Printer	Built-in thermal
Dimensions	518 x 342 x 500 mm	Weight	20 kg



AFC-100

Auto Non-Mydriatic Fundus Camera

Fully automated colour fundus imaging without dilation or a darkened room. The camera finds the pupil, focuses and captures on its own, so exams stay quick and comfortable for children and older patients alike.

- Auto pupil tracking in X, Y, and Z with automatic capture
- Works through pupils as small as 2.8 mm
- 45° field of view and seven fixation positions across the retina
- Switch between automatic and manual operation at any time

Field of view	45°	Minimum pupil	2.8 mm
Refractive compensation	- 20 D to +20 D	Focus	Auto / manual
Illumination	Infrared 850 nm - white LED flash	Resolution (centre)	≥ 60 lp/mm
Camera	Built-in 5 MP CMOS	Dimensions	410 x 350 x 480 mm
Weight	15 kg	Power	AC 100-240 V, 120 W



ARK-910

Auto Ref/Keratometer

Fully automatic refraction and keratometry. 3D auto-focus locates each eye and measures it with a single touch in about ten seconds, so even new staff can run it without a joystick. Also available as the AR-910 refractometer.

- LD light source and high-sensitivity CCD read weak reflexes, even through dense cataract
- Independent fogging system keeps accommodation relaxed during measurement
- Retro-illumination imaging and peripheral keratometry
- Tilttable 7-inch touch screen, motorised chin rest, wireless link to i-Optik vision testers

Specifications

Sphere	- 25.00 to +22.00 D	Cylinder	0.00 to ± 10.00 D
Axis	0 - 180° (1° step)	Pupil distance	10 - 85 mm
Minimum pupil	$\varnothing$ 2.0 mm	Corneal radius	5 - 10 mm
Corneal power	33.75 - 67.50 D	Corneal diameter	2.0 - 12.0 mm
Interface	RS232 / Bluetooth	Dimensions / weight	262 x 467 x 487 mm, 17.2 kg



CV-7800

Computerised Vision Tester

The all-new CV-7800 has a redesigned motor and control system that switches lenses faster and more quietly than before, and starts up in under seven seconds. Wireless tablet control frees you from the cable, and choosing a chart loads the matching lenses automatically on a CM-1900 monitor.

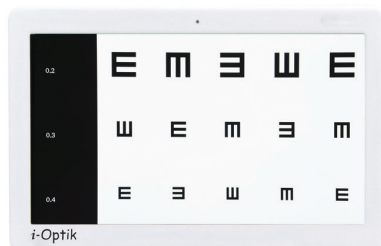
- Wide sphere range with 0.25, 0.50, 1.00 or 3.00 D steps
- Rotating prism, Jackson cross cylinder, and split prism built in
- Full auxiliary set: pinhole, Maddox rod, red/green, polarising filters
- Retinoscopy lenses for 67 cm and 50 cm working distances

Specifications

Sphere	- 29.00 to +26.75 D	Cylinder	- 8.75 to +8.75 D
Axis	0 ~ 180° (1°/5°/15°)	PD	Far 48 - 80 mm, near 48-76 mm
Near working distance	35 - 70 cm	Rotating prism	0 - 20 Δ
Cross cylinder	± 0.25 D, ± 0.50 D	Phoropter head	376 x 297 x 95 mm, 3.8 kg
Control keyboard	203 x 210 x 145 mm	Power	220 V, 50 Hz, 90 VA

CM-1900C / CM-1900P

Chart Monitor



A high-definition 23.6-inch chart monitor in circular polarised and non-polarised versions. Use it with the remote, or pair it with the CV-7800 so the chart and the phoropter lenses change together. Chart size scales precisely with distance to hold the same visual angle.

- Viewing distance from 2 to 7 metres, set in 0.1 m steps
- Mirror mode for small rooms
- Single letter, line, row, full screen, and contrast modes
- Wall mount included; floor and table stands available

Specifications

Display	23.6-inch LCD	Brightness	250 cd/m ²
Chart acuity	0.04 - 2.0	Distance	2 - 7 m (0.1 m steps)
Power	AC 110-240 V, 50 W	Dimensions	585 x 46 x 380 mm
Weight	3.8 kg		



CM-2200

Chart Monitor

A space-saving chart system for compact consulting rooms. Installed just 80 cm from the patient, it presents charts at an effective 5 m refraction distance, with full-HD clarity and a built-in red/green filter.

- Installs 20 - 150 cm from the patient, in 10 cm steps
- Equivalent 5 m refraction distance at 80 cm
- Single, line, row, and full-screen display modes
- Red/green duochrome filter and power-saving mode

Specifications

Resolution	1920 x 1080	Chart acuity	0.05 - 2.0
Installation distance	20 - 150 cm	Refraction distance	5 m (at 80 cm)
Filter	Red / green	Power	AC 100-240 V, 50 VA
Dimensions	305 x 350 x 560 mm	Weight	16.7 kg



ACP-1500

Auto Chart Projector

A compact, fast chart projector with near-instant chart and mask switching. Choose the ACP-1500 with a halogen lamp or the ACP-1500L with a long-life LED, and project anywhere from 1.6 to 7 metres.

- Chart and mask switching in 0.01 - 0.02 s
- Automatic standby after 10 minutes
- Supplied with remote control, polarised metal screen, and polarised glasses
- Optional floor stand or wall stand

Specifications

Projection distance	1.6 - 7 m	Magnification	30x at 5 m
Projection size	330 x 270 mm at 5 m	Lamp (ACP-1500)	12 V 50 W halogen
Lamp (ACP-1500L)	12 V 10 W LED	Dimensions	320 x 218 x 240 mm
Weight	7.2 kg		



NV-100

Near Vision Tester

A dedicated near vision tester for assessing near acuity at reading distance, completing the i-Optik refraction lane alongside the CV-7800 and chart monitors.

- Near visual acuity testing at reading distance
- Complements i-Optik vision testers and distance charts
- Ask Opticare for full specifications and a demonstration

Specifications

Test Distance	36cm	Weight	780g
Remote Control Distance	60cm	Power	LR6 AA/1.5Vx3
Dimensions	220(H)x210(W)x42(D)mm		



TL-6800

Auto Lensmeter

A compact lensmeter with a 145-point Hartmann sensor and green measurement light for accurate readings and easy progressive lens recognition. It reads lenses down to 5% transmittance, including dark sunglasses, tints, and polarised lenses.

- 145 measurement points for faster, smoother progressive tracing
- Measures very low-transmittance lenses ($\geq 5\%$)
- Angle-adjustable 7-inch touch screen
- Optional UV / blue light measurement; data link to i-Optik vision testers

Specifications

Sphere	- 25.00 to + 25.00 D	Cylinder	0 to +10.00 D
Add	0 to +10.00 D	Prism	0 - 20 Δ
PD	42.0 - 82.0 mm	Light / points	525 nm green, 145 points
Interface	RS232 / LAN / USB	Dimensions	203 x 233 x 471 mm
Weight	4.5 kg		

LE-5600

Patternless Edger



The next-generation in-house edger. Roughing and finishing are combined, cutting about 40 seconds from each job compared with the previous LE+, and dual-job mode lets you trace, centre and block the next lens while the current one edges. Also offered as LE-5600B and LE-5600M.

- Seven functions: optical tracing, centring, bevelling, grooving, chamfering, polishing, lens thinning
- Optical tracing of lens, demo lens, or pattern in 2.3 seconds
- 90 mm small wheel for high-base-curve and sunglass lenses
- Anti-slip clamping verified on 60+ lens coatings to prevent axis shift

Specifications

Job memory	3,000 jobs	Materials	CR39, PC, MHI, Trivex
Bevel height	0.3 - 0.8 mm	Groove depth	0.1 - 0.8 mm
Groove width	0.6 - 1.2 mm	Screen	10.1-inch colour touch
Dimensions	716 x 555 x 460 mm	Weight	75 kg
Power	220/230 V, 1,000 W		



LE+ 3.0

Patternless Edger

An all-in-one patternless edger with a built-in digital blocker, combining bevel, flat edge, grooving, and polishing in one compact unit. It adjusts speed and pressure to each lens material, shape, and thickness to keep the axis accurate. The LE+ 3.0 adds safety bevel.

- 3D optical tracing of pattern or lens
- Blocks on optical or geometric centre, compensating for power, prism and parallax
- Auto bevel and groove modes, with pause-and-adjust during edging
- 500-shape memory on a 7-inch touch screen

Specifications

Materials	PLA, PC, Trivex, high index
Min. diameter (bevel)	19.1 mm
Max. diameter	80 mm
Dimensions	728 x 600 x 442 mm
Power	230 V or 115 V, 1340 VA

Min. diameter (flat)	17.5 mm
Min. diameter (groove)	18.5 mm
Screen	7-inch colour touch
Weight	75 kg

OPTICARE

See the Difference

Learn more about i-Optik

Ask us for a demonstration, a quote or advice on fitting out a consulting room. We install, train, and support every instrument we supply.

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Designs and specifications may change without notice for the purpose of improvement. Some models are also available in variants not shown. Ask Opticare for details.