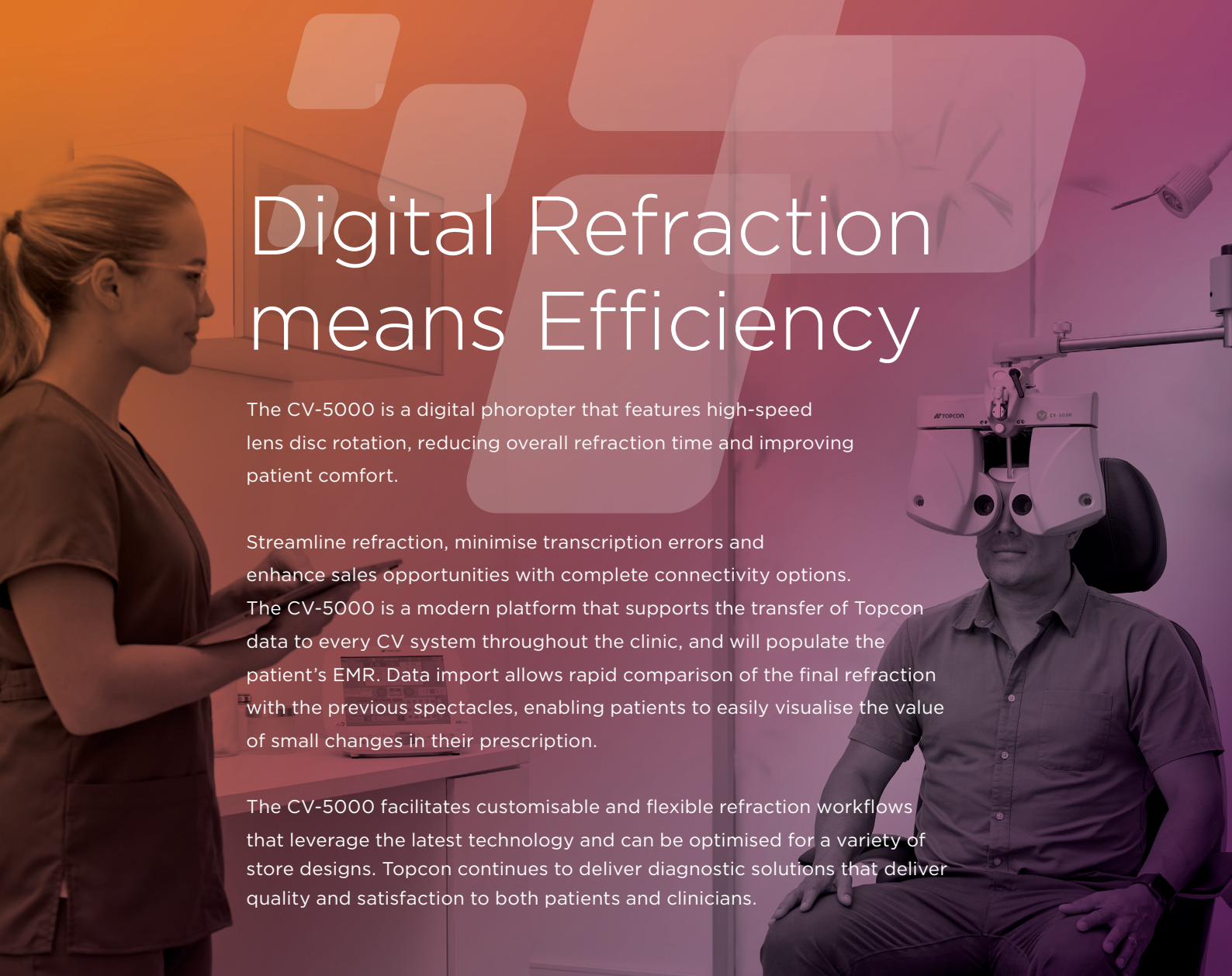


CV-5000

Digital Phoropter

Tailored refraction workflows, maximise revenue potential and increase patient and operator comfort.





Digital Refraction means Efficiency

The CV-5000 is a digital phoropter that features high-speed lens disc rotation, reducing overall refraction time and improving patient comfort.

Streamline refraction, minimise transcription errors and enhance sales opportunities with complete connectivity options. The CV-5000 is a modern platform that supports the transfer of Topcon data to every CV system throughout the clinic, and will populate the patient's EMR. Data import allows rapid comparison of the final refraction with the previous spectacles, enabling patients to easily visualise the value of small changes in their prescription.

The CV-5000 facilitates customisable and flexible refraction workflows that leverage the latest technology and can be optimised for a variety of store designs. Topcon continues to deliver diagnostic solutions that deliver quality and satisfaction to both patients and clinicians.

Overview

- Maximise revenue potential
- Support patient decision-making
- Optimise patient comfort
- Save time. Streamline refraction workflow
- Ergonomic operating position
- Rapid import of pretest data
- Image separation through red and green filters or circular polarisation to match linked test chart
- Multiple controller and connectivity options offer a flexible choice of system configuration
- Efficient clinic workflow offering smooth user experience and fast refraction time
- Convenience for patients while maintaining standardised clinical testing and oversight

Fast, Smooth Lens Rotation

The small head and quality Topcon engineering ensure rapid and efficient lens disc rotation, to minimise ocular stress and support patient decision-making. In tandem with digital connectivity, this also significantly reduces the total refraction time.



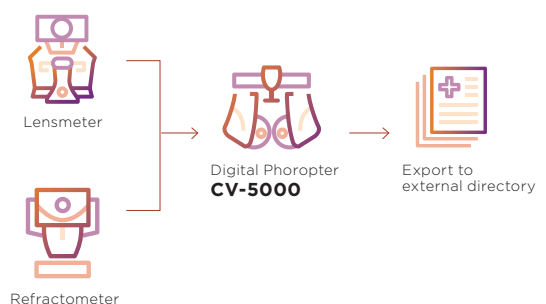
Digital Connectivity

The CV-5000 can receive refraction data from Topcon instruments and/or selected non-Topcon devices*, such as refractometers and lensmeters, allowing the import of key pretest data.

Automatic data transfer avoids transcription errors associated with manual typing and speeds up workflow. It also allows quick comparison between the current refraction and the patient's previous visual condition.

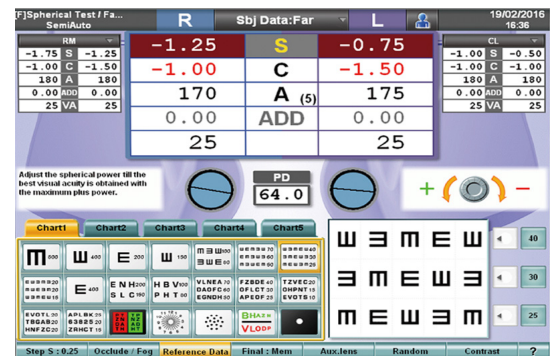
* Please check compatibility with non-Topcon devices.

System Chart



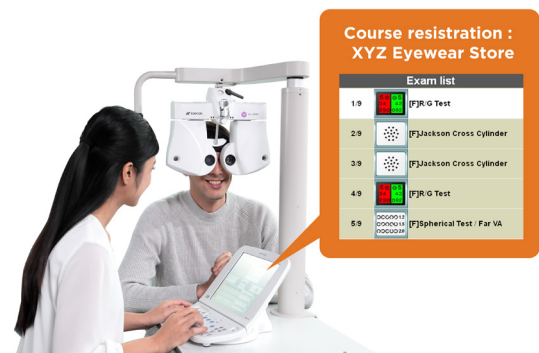
Easy-to-see Reference Data

The versatile user interface allows users to view all relevant data at a glance, in one screen. Additionally, the main data view can be modified according to user preferences.



Standard or Custom Programs

The CV-5000 offers versatile user interfaces to support any clinic workflow. Preprogrammed refraction routines optimise refraction efficiency. The standard program automatically moves through common tests to refine sphere and cylinder at the touch of a button. Alternatively, create consistency with custom programs for smoother and preferred workflows while giving trained professionals the option to incorporate additional testing, such as 21-point refraction, binocular vision testing, or polarisation testing.



Comfortable Near Vision Tests

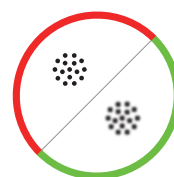
To provide a natural, more realistic reading position during the near-point tests, the CV-5000 head can be tilted. Selection of near tests also switches on the LED lights. Text can be displayed on the KB-50S controller or a range of near charts can be presented by lowering the robust near rod and mounting the near-point card.

Multiple “HELP” Function

At the touch of a button the HELP display is activated. HELP provides useful information on the selected test. Simplified (short text) or advanced (detailed) instructions are available.

Topcon Cross-Cylinder¹ Test with Colour Display

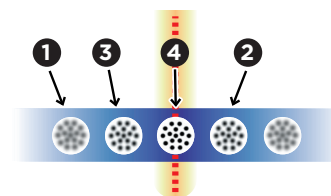
The Topcon Cross-Cylinder allows simultaneous display of both options 1 and 2, making it quicker and easier for the patient to compare options. The red/green surround, which is also available for the conventional Jackson cross-cylinder test, also aids patient communication.



Smart Cross: A Unique Logic for the Cross-Cylinder Test

The Smart Cross test is the semi-automatic process for cylinder refinement where clear and blurred images are deliberately shown to the patient, thereby making comparison easier.

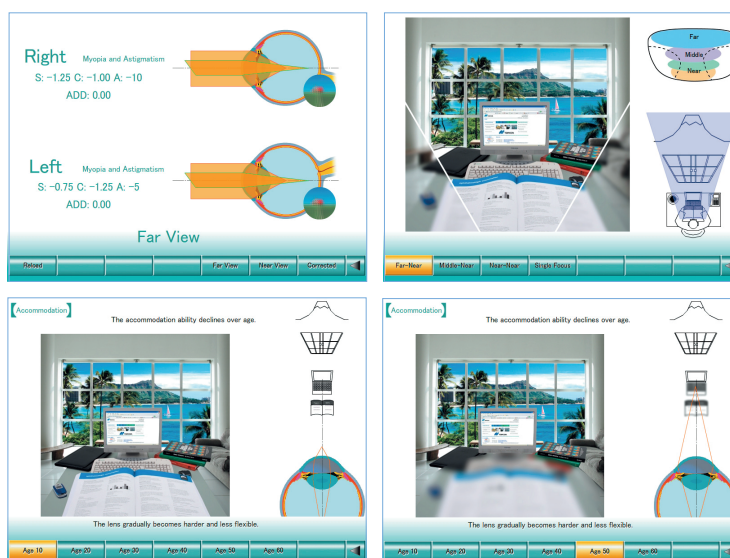
Starting the examination with an intentionally out-of-focus astigmatic axis and gradually shifting the axis in the opposite direction makes it easier for the patient to recognise large differences in vision, as well as helping them recognise the progress of the examination as the differences become smaller. Additionally, the axis shift and refining accuracy are automatically optimised, facilitating a smooth and efficient examination.



The best focus point

Patient Education

- Animations customised to the patient's refractive error
- Helps the patient to understand the impact of their refractive error or cataracts
- Demonstrates the effect of presbyopia and the benefits of multifocal lenses



¹ Topcon cross = Auto cross

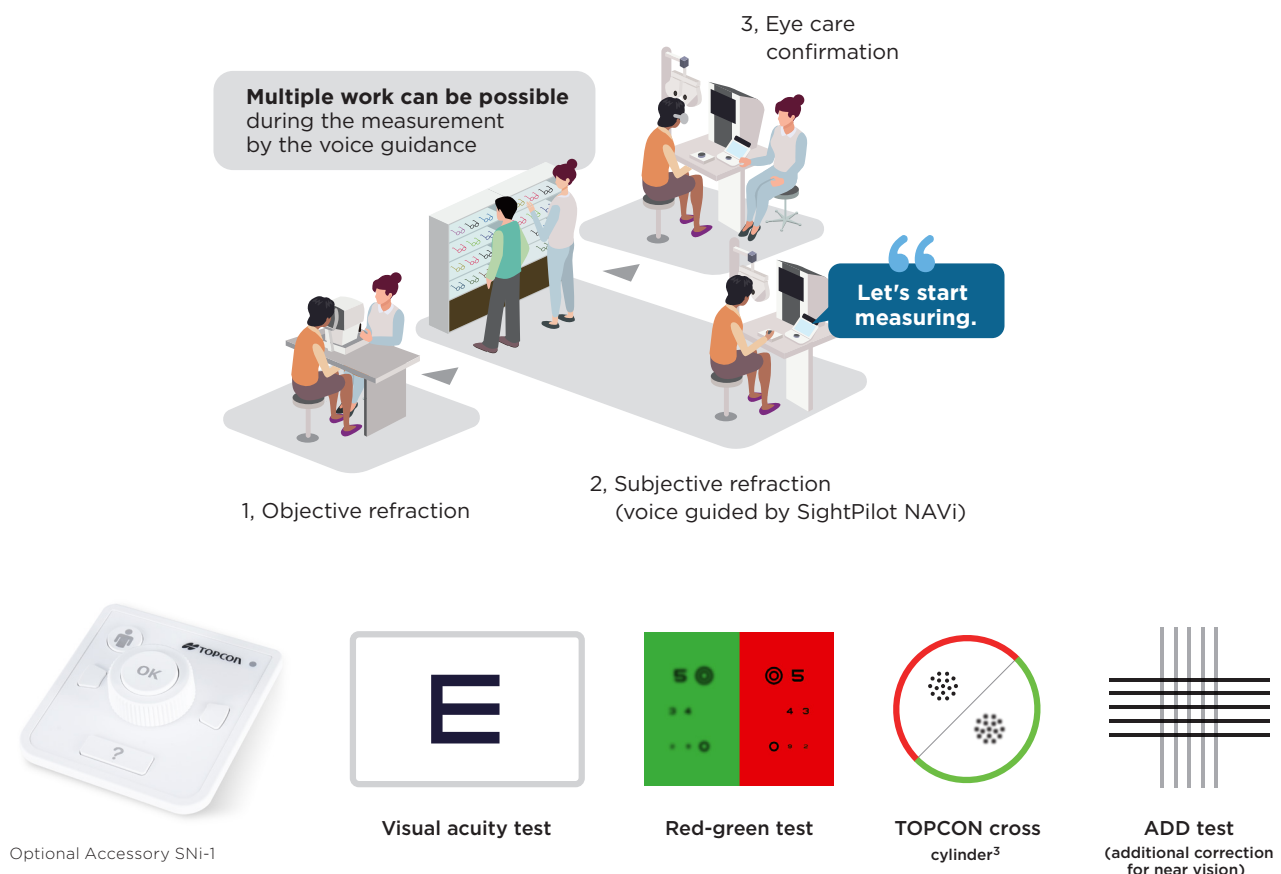
NEW SightPilot NAVi™

SightPilot NAVi™, equipped with multilingual voice guidance, allows patients to follow instructions and proceed through a patient-guided refraction. Using the easy-to-use dial controller, patients can compare and select their preferred option and perform subjective tests. Multilingual voice navigation ensures continuity of care regardless of language.

Overview

- Standardised Refraction Workflow
- Efficient and Time-Saving for Patients and Clinics
- Reduce Staff Workload while Maintaining Clinical Oversight
- Multi-language Voice Guidance Expands Access to Quality Vision Care for Diverse Patient Populations
- Easy to Use for Both Patients and Staff
- Compact Design and Flexible Layout

Voice Guidance² and Dial Controller



² Speakers are not included.
³ Topcon cross = Auto cross

Controller Options

One-Dial Controller KB-50S

The dial navigation function simplifies and speeds up control over the sphere, cylinder, or prism power in response to the patient's answers. Many functions can also be controlled from the KB-50S keyboard or touchscreen, to suit personal preference.



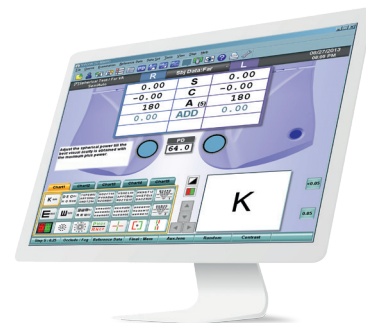
Tablet⁴

The wireless tablet option offers flexible operation from any position within the refraction room. Control of the refraction system can be combined with other useful clinical tablet applications to optimise workflow. The tablet enables intuitive operation through the touching and swiping of the screen.



Operating Software on an External PC⁵

Control the CV-5000 through an existing PC, minimising disruption to clinical workflow, saving space, and enabling the use of other software during the examination.



⁴ Available only for iPad.
⁵ Available for Windows 7,10,11.

Chart Screen and Projector

MC-5S

MC-5S provides sophisticated visual acuity testing with minimal space. Compatible with SightPilot NAVi.



CC-100 Series**

The CC-100 and CC-100XP LED chart systems are versatile solutions for presenting a wide range of test charts to patients. The high-resolution LED LCD ensures a sharp and bright chart display. Both models in the series provide around 40 different charts, with a range of designs and optotypes (ETDRS, letters, Landolt C, Tumbling E, symbols), and charts for assessment of oculomotor status, spatial frequency and letter contrast along with a pseudo-isochromatic colour vision test.



The CC-100 series are fully integrated in the CV-5000 interface, allowing charts to be selected from your preferred CV-5000 controller, and chart/test/auxiliary lens combinations to be customised and added to refraction programs.

*The CC-100 and CC-100XP are manufactured and distributed by VISIA imaging s.r.l.

#Not compatible with SightPilot NAVi

ACP-8 Auto Chart Projector#

The ACP-8 auto chart projector provides sharp image projection and fast rotation. A remote controller allows instant projection of 30 different test charts, including a range of optotypes to evaluate visual acuity and binocular status with a wide projection size (330x270mm). The ACP-8 chart projector is fully integrated with the CV-5000 controller interface.



#Not compatible with SightPilot NAVi

Specifications

Spherical power	Measuring range	+27.00 to -27.00D
	Measuring step	0.25D/1.00D/2.00D/3.00D
Cylinder power	Measuring range	+8.00 to -8.00D
	Measuring step	0.25D/1.00D
Cylinder axis	Measuring range	0 to 180°
	Measuring step	1°/5°/15°
Prism	Measuring range	0 to 20△(all directions)
	Measuring step	0.1△/0.2△/0.5△/1.0△
Pupillary distance	Adjustment range	48 to 80mm
	Adjustment step	0.5mm/1.0mm
Cross cylinder	Jackson Cross cylinder	±0.25D/±0.50D
	Auto Cross cylinder	±0.25D
Test lens (Aux lens)	Red-green filters, Polarizing filter (45°/135°, Circular Polarizing Filter ¹), Prism(6△/10△), Red Maddox (horizontal/vertical), Lens for retinoscopy (+1.5D/+2.0D), Cross cylinder for measuring presbyopia (±0.50D), Occluding plate, Pinhole, and Cross hairs glass.	
Reference eyeglass wearing distance	12mm, 13.75mm, 16mm, 18mm, 20mm	
Convergence	Near point distance 40/67cm (Minimum papillary distance at near-point 40cm convergence: 53mm)	
Forehead rest adjustment range	15mm	
Dimensions and weight	Measuring head (Non-arm mounted type)	309-341 (W) x 114(D) x 261(H)mm / 4.0kg
	Measuring head (Arm-mounted type)	309-341 (W) x 114(D) x 324(H)mm / 4.6kg
	Power Supply Unit W/External PC	276(W) x 197(D) x 117(H)mm / 2.7kg
	Power Supply Unit W/Built-in PC	276(W) x 197(D) x 117(H)mm / 3.9kg
	1 Dial Controller	300(W) x 250(D) (MAX) x 200(H) (MAX) mm / 2.3kg

¹The combination of the polarizing filter must be one of the following : 45°/135° and 135°/45° or 45°/135° and circular polarizing filter.

IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

Not all products, services or offers are approved or offered in every market, and products vary from one country to another. Contact your local distributor for country-specific information and availability.



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This product is in conformity with Regulation EU 2017/745 on medical devices(MDR). Compu Vision | CV-5000

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