

# CV-5000PRO

Compu Vision



## Comfort and Efficiency in a Compact System

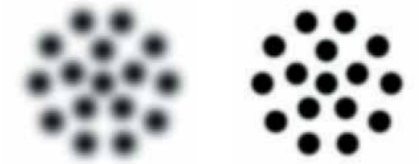
CV-5000 PRO allows for comfort and efficiency in your refraction. Easy understandable layouts and various programs supports a smooth operation and stress free refractions for operators and patients. A quick operation with various controllers and wide connectivity with other devices supports efficient workflow. Comfortable and efficient operations assist communication with patients, and provides more satisfaction of refraction results compared to traditional manual refractor heads.



## CV-5000 PRO Feature

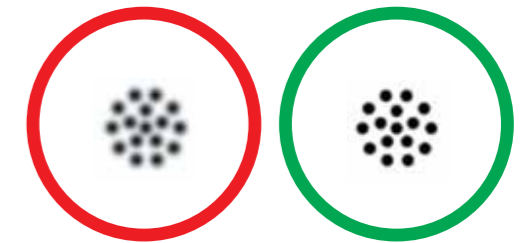
### Topcon's Smart Cross System

Topcon's original system, Smart Cross offers a smooth operation for cylinder test. Seeing the different values on flapping, enables the patient to easily pick up which one they can distinguish better.



### Colour display for cross cylinder

CV-5000PRO displays the chart in a red or green circle, during cross cylinder tests. A patient quickly mentions their choice, and it enables accurate refraction results.



### Compact, Open and Contemporary Design

The open and compact design allows effective interaction with your patient. The operator is able to monitor the patient's expression during the refraction.



### High Speed Lens Disc Rotation

Efficient lens disc rotation reduces ocular stress as well as confusion for patients. The total refraction time is minimised.



## Range of control solutions to suit your practice

CV-5000PRO is available with a range of control options, allowing you to tailor the solution to meet your needs and optimise workflow in your practice.



## Control Options

### KB-50S

The KB-50S is a dedicated controller for the CV-5000PRO vision tester. This controller enables easy and intuitive operations of the CV-5000PRO. For quick and easy operation, the buttons are ergonomically placed around a central dial control. A large 10.4" colour LCD touch screen monitor also provides a range of options.



### Tablet\*

The wireless tablet option offers a flexible operation within the refraction room; the system can be operated from any location in the room, and control of the refraction system can be combined with other useful clinical tablet applications to optimise patient care. The tablet enables intuitive operation through the touching and swiping of the screen. An operator enables the position of any location during the refraction, and can also use other application software on the same tablet for better consulting.



### Operating software on the integrated PC\*

Instead of the KB-50S as a controller, software on an integrated CV-5000PRO system PC allows control simply by connecting a mouse and LCD monitor. The user interface normally displayed on a KB-50S is viewed on the LCD monitor.



### Operating software on external PC\*

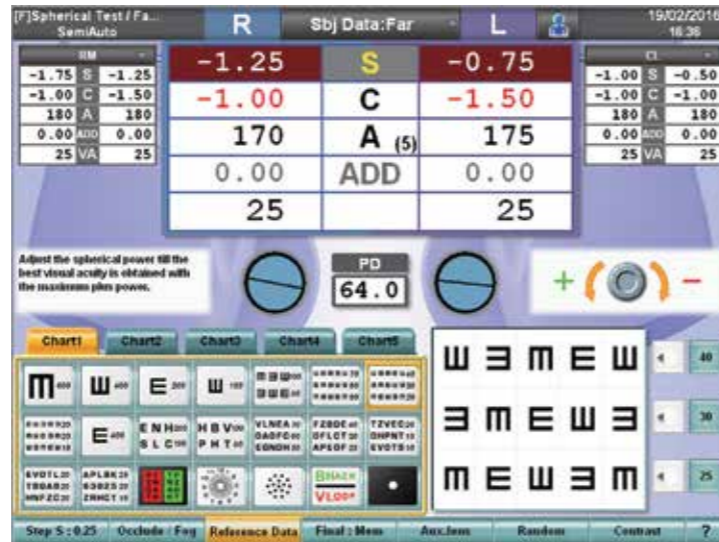
An innovative feature is the ability to control the CV-5000PRO vision tester through your own Personal Computer, enabling you to use other software simultaneously.

\* Not available in all countries, please check with your distributor for availability in your country.  
\* Please check with your distributor about available type of tablet and PC.

## Easy to Use

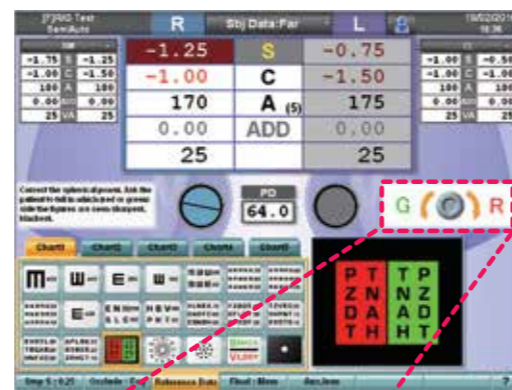
### Intuitive Layout

The redesigned interface is flexible and easy to use. All relevant data can be viewed at a glance. The layout can be modified to suit the users needs.



### Dial Navigation Function (KB-50S)

The user can select to use the dial navigation function, allowing precise control over the sphere, cylinder or prism power in response to the patient's answers.



## Examination Support Features

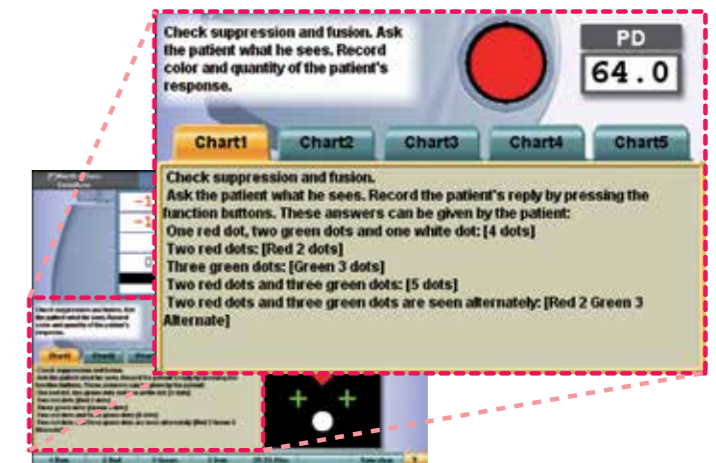
### Personalised Chart Pages

A wide range of test chart options are laid out on five tab pages, accessed via the touch panel. This includes the conventional charts used by the Topcon chart projectors. The layout of the pages can be defined by the user, allowing rapid access to favoured charts.



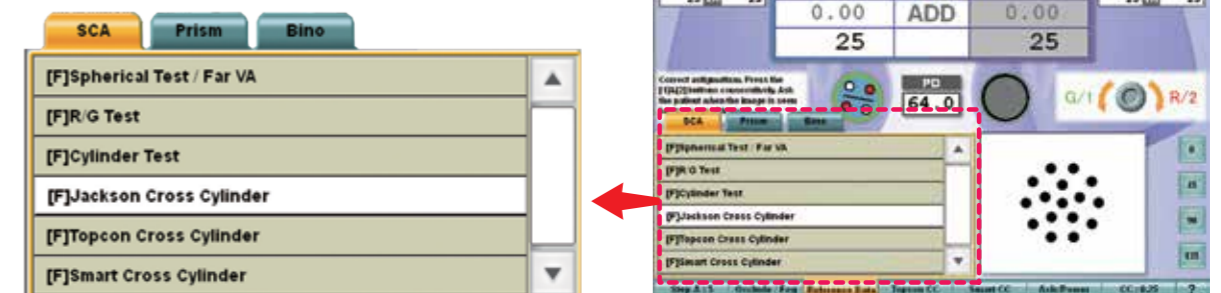
### Multiple "HELP" Function

At the touch of a button the HELP display is activated. HELP provides useful information on the selected test. A simplified (short text) or an advanced (longer text) HELP display can be selected.



### Pre defined examinations

The KB-50S provides pre defined examinations to correct the spherical, cylindrical refraction as well as phoria tests and binocular function tests.

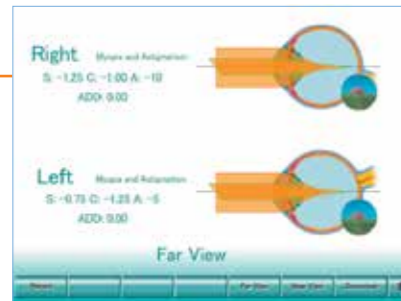


## Other Specification

### Range of illustrations for better communication with patients

CV-5000PRO provides a range of illustrations to help explain progressive lenses, accommodation, and refractive status. Communication with simple animation supports patient's understanding of the examination results.

#### Myopia / Hyopia



#### Progressive Lens



#### Accommodation



Age 10



Age 50

### Tilting Function for Near Vision Tests

To provide a natural reading position during the near tests, the CV-5000PRO head can be tilted. The tilting angle can be fixed within a wide range.



### Near vision LED Illumination

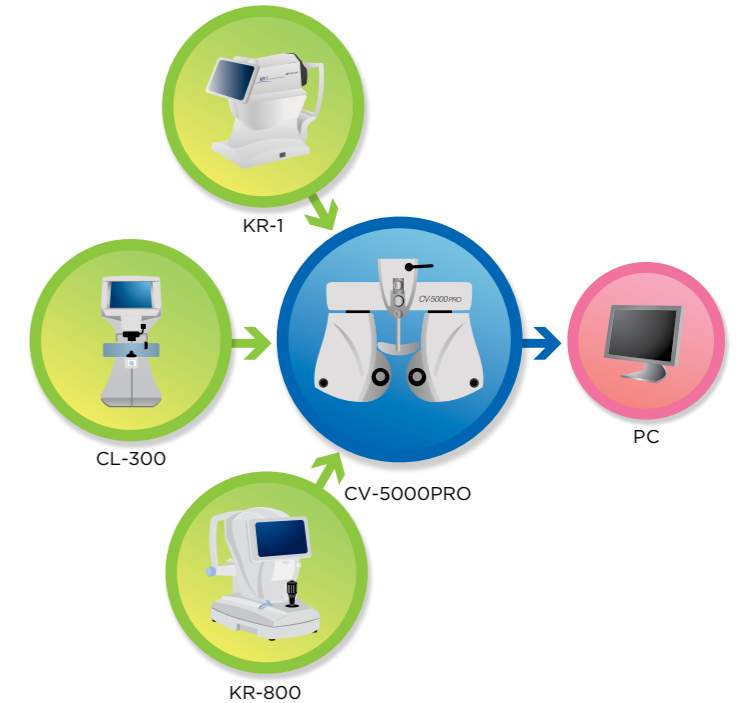
LED illumination from the CV-5000PRO vision tester provides bright illumination of the near test chart. The use of external illumination is no longer required.



## Data Import & Export Functions

### Easy Operation by networking

CV-5000PRO is able to receive refraction data from other Topcon instruments, such as refractometers and lensmeters, so that an operator is able to log this data rapidly on to the control monitor at the start of an examination. Automatic data transfer avoids mistakes associated with manual typing and makes the routine more efficient. An efficient workflow has benefits both for your patients and your practice.



### Integration in IMAGEnet series/ other software

The CV-5000PRO software integrates with the IMAGEnet system\*. Subjective, objective and lensmeter data can be transferred from the CV-5000PRO system to the IMAGEnet system and assigned to a patient. The CV-5000PRO also enables the export of data to other software within the practice.



More choice for your system

## MC-4S Mirror Chart

- » Space-saving
- » Liquid crystal polarization
- » High resolution
- » 3D Contents
- » Smooth Operation
- » Active Charts



## PC-50S Pixel Chart

- » Comprehensive Range of Optotypes
- » True Visual Acuity Testing System
- » Wide variety of chart types, images and movies
- » Minimal Design
- » Active Charts

## ACP-8 Auto Chart Projector

- » Easy to Use
- » Easy Setup and Maintenance
- » Program Settings
- » Connectivity with CV-5000PRO
- » Tilt function



## CL-300 Computerised Lensmeter

- » LCD Touch Panel
- » Compact Slim Body
- » Automatic Mono- & Multi-focal Detection
- » UV Transmittance Measurement
- » Green Measurement Light Beam



## KR-800 series Auto Kerato-Refractometer

(KR-800 /KR-800S)

- » Auto Kerato-Refractometer with objective and subjective testing (KR-800S)
- » Smooth operation
- » 8.5 inch wide touchscreen control panel
- » Compact designed body
- » Easy set-up with a LAN network

## KR-1 Auto Kerato-Refractometer

- » Simple and Quick Operation
- » Easy-to-Use Colour Touchscreen Control Panel
- » Flexible and Space Saving Layout
- » New Compact and Ergonomic Design
- » Reliable Measurement



## TRK-2P Auto Kerato-Refracto Tonometer

- » Refractometer, Keratometer, Non-Contact Tonometer and Pachometer in one single instrument
- » Fully automated
- » Rotating touch screen control panel
- » Compact and modern design
- » Easy manual alignment with new control lever accessory

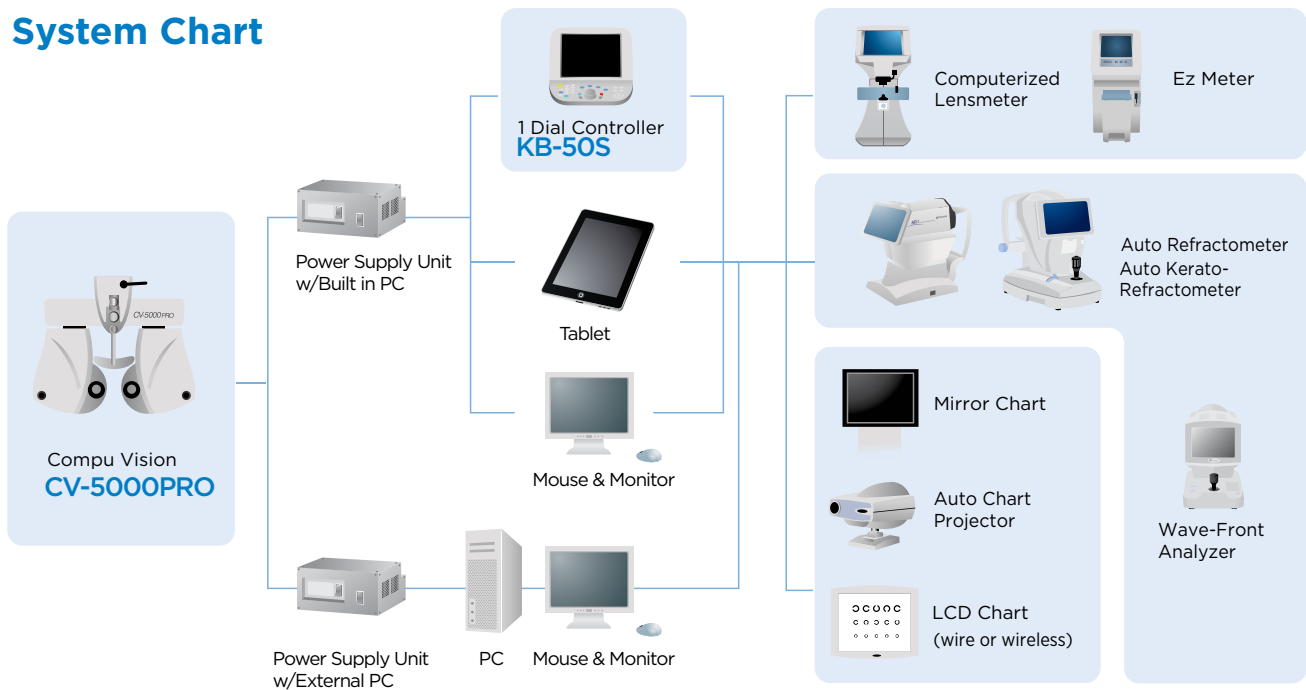


LU-1  
Control lever

## Specifications

<b>Spherical power</b>	Measuring range	+27.00 to -27.00 D
	Measuring step	0.25D/1.00D/2.00D/3.00 D
<b>Cylinder power</b>	Measuring range	+8.00 to -8.00 D
	Measuring step	0.25D/1.00 D
<b>Cylinder axis</b>	Measuring range	0 to 180°
	Measuring step	1°/5°/15°
<b>Prism</b>	Measuring range	0 to 20 Δ (all direction)
	Measuring step	0.1 Δ /0.2 Δ /0.5 Δ /1.0 Δ
<b>Pupillary distance</b>	Adjustment range	48 to 80 mm
	Adjustment step	0.5 mm/1.0 mm
<b>Cross cylinder</b>	Jackson Cross cylinder	±0.25D/±0.50 D
	Auto Cross cylinder	±0.25 D
<b>Test lens (Aux lens)</b>	Red-Green filter, Polarizing filter (45°/135°), Prism (6Δ / 10Δ), 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.	
<b>Reference eyeglass wearing distance</b>	12mm, 13.75 mm, 16 mm, 18 mm, 20 mm	
<b>Convergence</b>	Near-point distance 40/67 cm (Minimum pupillary distance at near-point 40 cm convergence : 53 mm)	
<b>Forehead rest adjustment range</b>	15 mm	
<b>Dimensions and weight</b>	Measuring head(Non-arm mounted type)	294-328 mm (W) x 115 mm (D) x 261 mm (H) 4.0 kg
	Measuring head(Arm-mounted type)	294-328 mm (W) x 115 mm (D) x 324 mm (H) 4.6 kg
	Power Supply Unit W/External PC	276 mm (W) x 197 mm (D) x 117 mm (H) 2.7 kg
	Power Supply Unit W/Built-in PC	276 mm (W) x 197 mm (D) x 117 mm (H) 3.9 kg
	1Dial Controller	300 mm (W) x 250 mm (D) (MAX) x 200 mm (H) (MAX) 2.3 kg

## System Chart



**TOPCON**

**IMPORTANT**

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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