

# Automated Vision Tester

## CV-5000PRO



# COMFORTABLE AND VERSATILE OPERATION

## CV-5000PRO

Topcon's CV-5000PRO automatic vision tester is the heart of your refraction system. The CV-5000PRO offers various operation interfaces such as a Topcon KB-50S controller, a tablet, an integrated PC in the CV-5000PRO or an external PC.

The CV-5000PRO's automatic vision tester head provides fast and silent lens rotation for user and patient comfort.

The CV-5000PRO is connectable to other refraction instruments. Data import and export can be done through a direct connection with these instruments, or through database software, such as Topcon IMAGENet i-base.



# CV-5000PRO FEATURES

## CV-5000PRO vision tester

- » Small & compact design
- » High speed lens disc rotation
- » Near vision LED illumination
- » Tilting function for near vision test

## Small & compact design

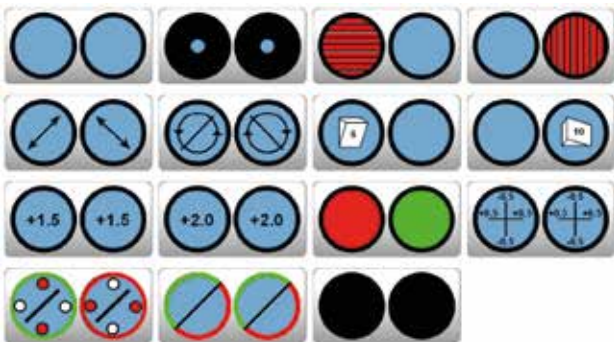
The open and compact design allows perfect interaction with your patient.

## High speed lens disc rotation

Efficient lens disc rotation reduces ocular stress as well as confusion for the patient. The total refraction is reduced significantly.

## Versatile auxiliary lens pack

A variety of available auxiliary lenses ensures a professional subjective refraction examination.



Auxiliary lenses CV-5000PRO vision tester

## Tilting function for near vision test

To provide a natural and comfortable reading position during the near test, the CV-5000PRO vision tester can be tilted within a wide range.



Near vision LED

## 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.



## CV-5000PRO operation

- » KB-50S, 1-dial control
- » Mouse & monitor control
- » CV-tablet control, wireless operation by tablet

# KB-50S, 1 DIAL CONTROL

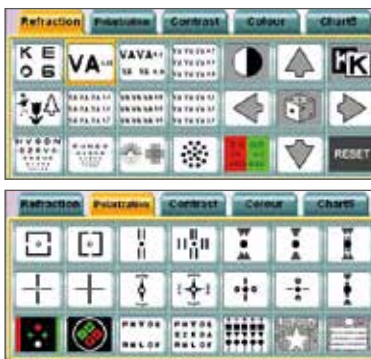
The KB-50S is a dedicated controller for the CV-5000PRO vision tester. This controller enables an easy and intuitive operation of the CV-5000PRO. The buttons are ergonomically placed with a 1-dial button in the centre of the KB-50S, combined with a large LCD touch screen.



## Large 10.4" colour LCD touch screen

The large colour screen provides clear display of examination data. All relevant data, such as lens meter data, objective data, can be viewed at a glance.

The touch screen ensures quick and easy access of various refraction functions.

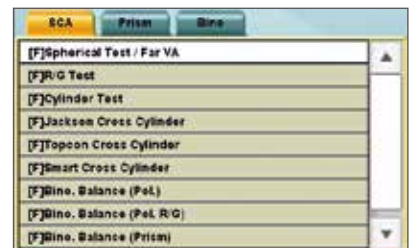


## Personalised display lay-out

The KB-50S incorporates all the charts which are available in all Topcon Computerised Chart systems, such as CC-100XP. Depending on your personal preference and depending on the selected Computerised Chart System, test charts are displayed on five tab pages. The lay out of these five tab pages can be defined by the user.

## 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.



## 1-Dial navigation help

The 1-dial button is used to fine-tune several procedures such as axis rotation, adjusting refractive power etc. The 1-dial navigation helps to indicate the rotation direction of the 1-dial according to the responses of the patient.





# CV-TABLET CONTROL



## CV-tablet control, wireless operation by tablet

The CV-5000PRO vision tester can be controlled by a tablet. The wireless tablet offers flexible operation within the refraction room. Intuitive operation of the CV-5000PRO through tablet features, such as sliding and touching the screen.

The CV-tablet control operates in combination with Topcon Computerised Charts Systems, such as CC-100, and CC-100XP. The tablet offers unique wireless control of the CV-5000PRO, as well as controlling the CC-100 or CC-100XP at the same time.

The CC-100 and CC-100XP LCD chart systems are versatile solutions to present charts to patients. The high resolution LCD ensures clear and bright chart display. All commonly known acuity tests are available, including ETDRS. The CC-100XP offers additionally polarisation.

The CV-tablet has its own unique user interface, dedicated for use with the technique of tablets.



# SALES SUPPORT FUNCTION

CV-5000PRO provides a sales support, through which the operator can advise the customer which type of lens is most beneficial to fulfill their needs. Clear images display the view for different lens types, single vision, mid range progressive and full range progressive lenses. Lens type selection is made easier and more time saving.

## Vision of progressive Lens



Far-Near



Middle-Near



Near-Near



Single Focus

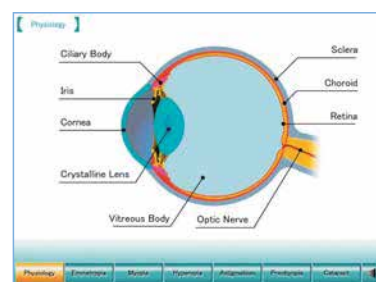
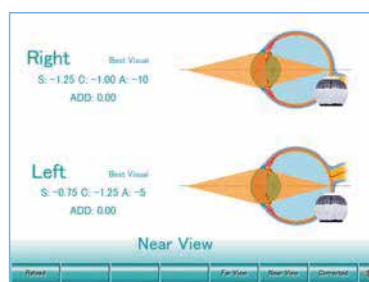
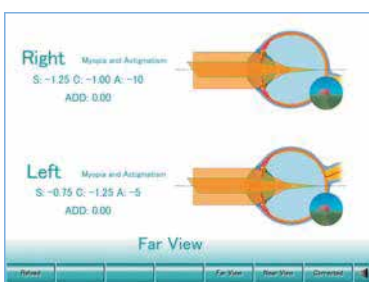
## Accommodation



## Patient Information

Patients like to know why they need glasses.

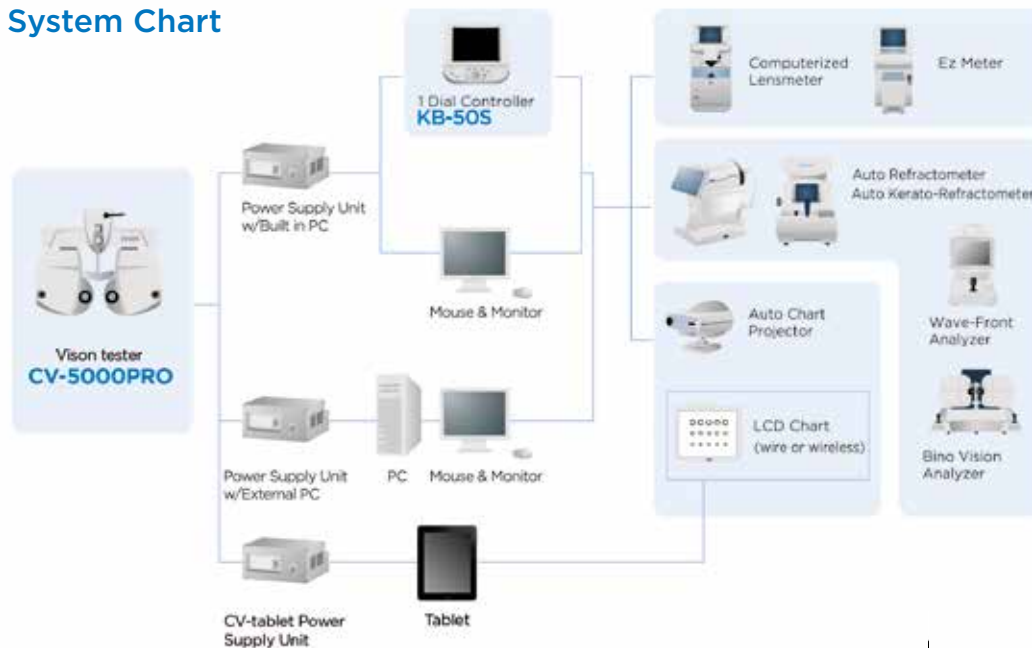
The animated patient information provides a clear understanding to the patient.



## Specifications

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

## System Chart



TOPCON CORPORATION

### 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.

**Topcon Europe Medical B.V.**  
Essebaan 11; 2908 LJ Capelle a/d IJssel; P.O. Box 145;  
2900 AC Capelle a/d IJssel; The Netherlands  
Phone: +45-46-327500; Fax: +45-46-327555  
E-mail: medical@topcon.eu; www.topcon-medical.eu

**Topcon Danmark**  
Praestemarksvej 25; 4000 Roskilde, Danmark  
Phone: +45-46-327500; Fax: +45-46-327555  
E-mail: info@topcon.dk  
www.topcon.dk

**Topcon Scandinavia A.B.**  
Neogatatan 2; P.O. Box 25; 43151 Mölndal, Sweden  
Phone: +46-(0)31-7109200; Fax: +46-(0)31-7109249  
E-mail: medical@topcon.se; www.topcon.se

**Topcon España S.A.**  
HEAD OFFICE; Frederic Mompou, 4;  
08960 Sant Just Desvern; Barcelona, Spain  
Phone: +34-93-4734057; Fax: +34-93-4733932  
E-mail: medica@topcon.es; www.topcon.es

**Topcon Italy**  
Viale dell'Industria 60;  
20037 Paderno Dugnano, (MI) Italy  
Phone: +39-02-9186671; Fax: +39-02-91081091  
E-mail: info@topcon.it; www.topcon.it

**Topcon France**  
BAT A1; 3 route de la révolte, 93206 Saint Denis Cedex  
Phone: +33-(0)1-49212323; Fax: +33-(0)1-49212324  
E-mail: topcon@topcon.fr; www.topcon.fr

**Topcon Deutschland GmbH**  
Hanns-Martin-Schleyer Strasse 41;  
D-47877 Willich, Germany  
Phone: (+49) 2154-885-0; Fax: (+49) 2154-885-177  
E-mail: info@topcon-medical.de; www.topcon-medical.de

**Topcon Polska Sp. z o.o.**  
ul. Warszawska 23; 42-470 Siewierz; Poland  
Phone: +48-(0)32-670-50-45; Fax: +48-(0)32-671-34-05  
www.topcon-polska.pl

**Topcon (Great Britain) Ltd.**  
Topcon House; Kennet Side; Bone Lane; Newbury  
Berkshire RG14 5PX; United Kingdom  
Phone: +44-(0)1635-551120; Fax: +44-(0)1635-551170  
E-mail: medical@topcon.co.uk; www.topcon.co.uk

**Topcon Ireland**  
Unit 276, Blanchardstown; Corporate Park 2  
Ballycoolin; Dublin 15, Ireland  
Phone: +353-18975900; Fax: +353-18293915  
E-mail: medical@topcon.ie; www.topcon.ie