CV-5000S

Compu Vision

PERFORMANCE
YOU CAN COUNT ON

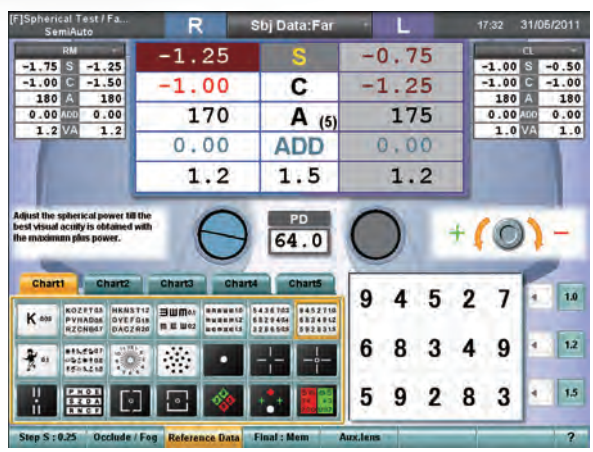
TOPCON

Enhanced Patient Care

CV-5000 + KB-50S Provide unique features to assist patient consultation.

Easy-to-Understand Layout

The newly designed interface offers the best in user friendliness. All relevant data can be viewed at a glance. The layout can be modified to the users preference.



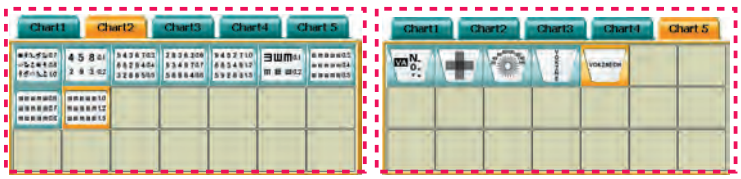
KB-50S Features

Large 10.4 Inch Color LCD Touch Screen

The worlds largest touch screen provides clear display of examination data. User friendliness has improved dramatically compared to previous models. The highest operation comfort level is achieved by using this large and clear screen.

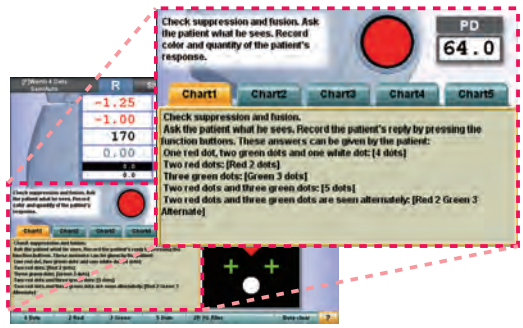
Your Own Chart Pages

Chart selection is operated through five tab pages in the touch panel. Next to the conventional charts for Topcon chart projectors, the defined charts can be implemented. The layout of the five tab pages can be defined by the user.



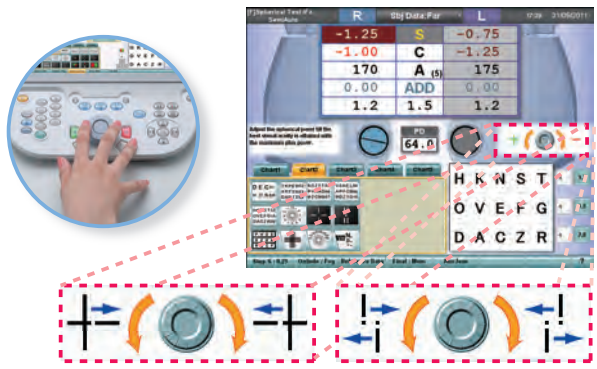
Multiple "HELP" Function

By just 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.



Dial Navigation Function

On request the dial navigation function is available. Dial navigation indicates the rotation direction of the 1-dial according to the responses of the patient. Comfort at its best !



Other Benefical Features

- Reduced number of operation buttons on the KB-50S improves the ease-of-use.
- Performs complete optometric extension program - American 21 step routine.

Comfortable Operation with Three Types of Interfaces from Topcon...

Topcon's CV-5000 provides three interfaces for operation. The 1st option is the 1 dial controller KB-50S utilizing a large 10.4 inch color LCD touch screen. The 2nd and 3rd options allow you to load the controller software on your PC or the PC integrated inside the CV-5000 power supply giving you full control of the CV-5000 with the PC mouse. The CV-5000's automatic phoropter head also provides fast lens rotation for user and patient comfort. Compact and contemporary design contributes to a professional image.

CV-5000 Features

Compact, Open and Contemporary Design

A 50% volume reduction compared to previous models allows the operator to monitor the patient's expression during the refraction. The contemporary design is appealing to both users and patients and emphasizes the professionalism of the user.

High Speed Lens Disc Rotation

Efficient lens disc rotation reduces ocular stress as well as confusion for the patient. The total refraction time is reduced significantly. The lens disc rotation speed has been increased 50% compared to the previous model.

Illumination Comes as Standard

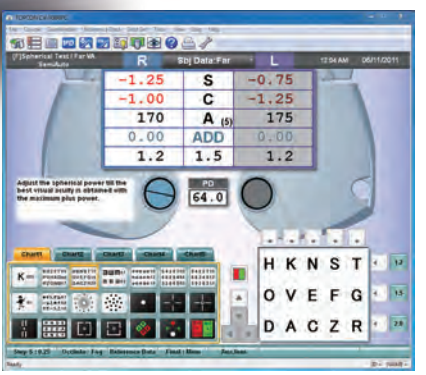
LED illumination from the phoropter provides bright illumination of the near test chart. The use of external illumination is no longer required.

Tilting Function for Near Vision Tests

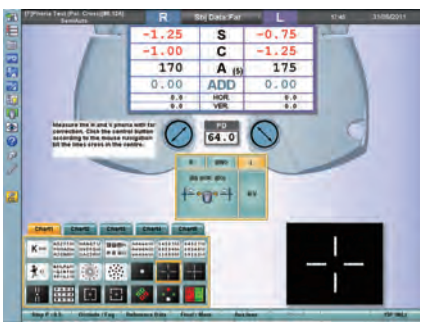
To provide a natural reading position during the near tests, the CV-5000 head can be tilted. The tilting angle can be fixed with in a wide range.

Mouse and Monitor Control

The unequaled operating software can be run from the user's own PC or directly from the Topcon's power supply with built in PC.



User's PC type



Embedded PC type

Multiple Options to Reduce Cost

Cost of the system can be reduced by using the operator's own PC or the PC integrated inside the Power Supply (Embedded PC) to control the CV system.

User Friendly Interface

The newly designed user interface offers the best in user friendliness. All relevant data can be viewed at a glance. The displayed layout can be modified to the user's preference.

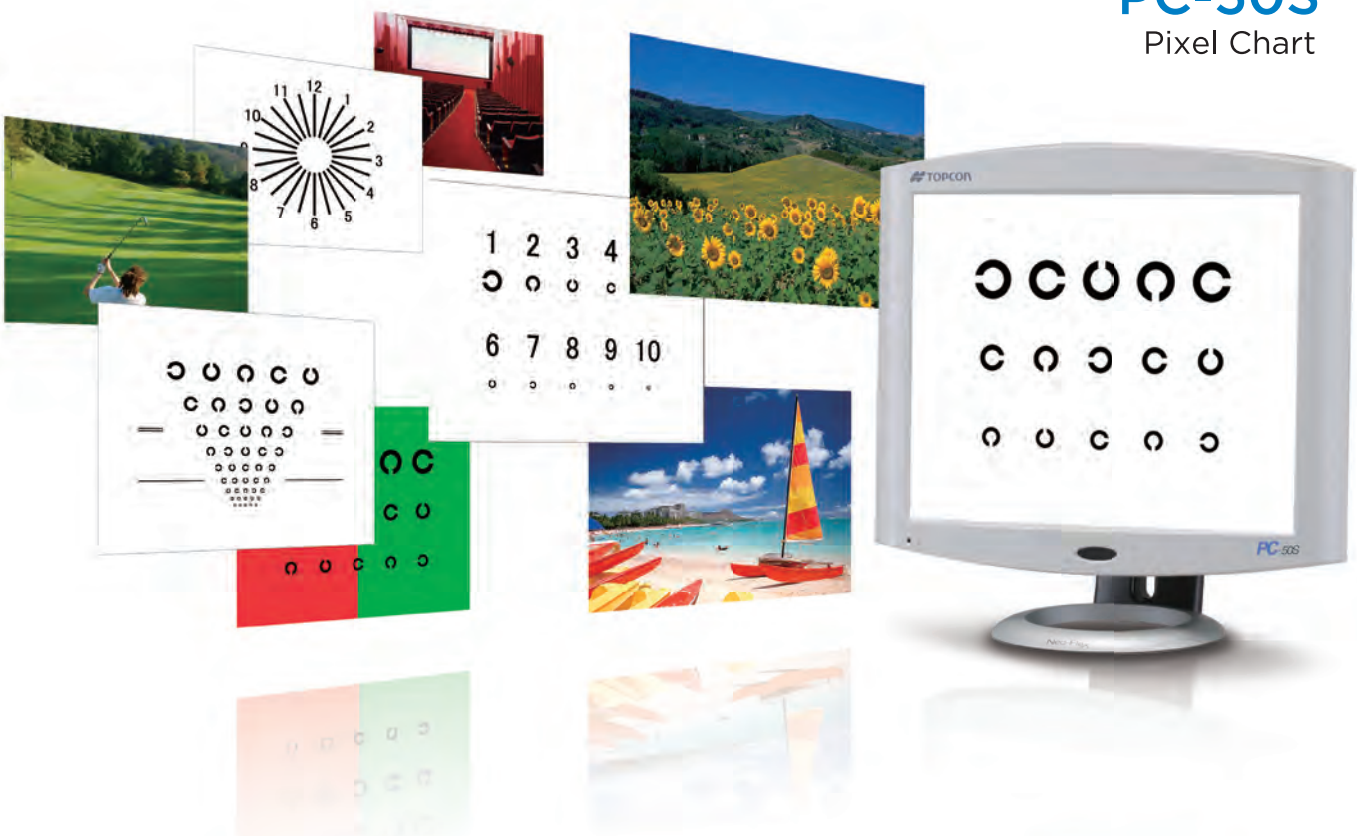
Mouse Operated

Mouse and monitor interface can easily control the CV-5000 head, and ensures a comfortable overview of the refraction data.

Integration in IMAGEnet™ R4

The CV-5000 software integrates with the IMAGEnet™ R4 software system. Subjective, objective and lensmeter data can be transferred from the CV-5000 system to IMAGEnet™ R4 and assigned to a patient. As the communication is bi-directional, IMAGEnet™ R4 can transfer objective, old glasses and lensmeter data to the CV-5000 system as a starting point for subjective refraction.

PC-50S
Pixel Chart



Comprehensive Range of Optotypes

The combination with CV-5000, KB-50S and PC-50S integrates examination, consultation, and final fitting smoothly into a handy optometry system.

True Visual Acutity Testing System

The advanced True Acuity Testing System, PC-50S incorporates high resolution 19" LCD that offers unsurpassed sharp and clear chart projection.

The Variety of Chart, Image and Movie

The PC-50S features comprehensive range of optotypes and tests that are used by today's eyecare practitioners. Besides, photo and movie clips canbe played on the LCD for greater patient comfort.

Mimimal Design

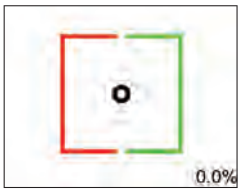
The PC-50S is ready to be installed on the wall directly or on another mount / stand, on order to fit any design of refcation room. (Please ask for details. A wall metal plate and fixingscrews are standard componets.)

Floor Stand Type

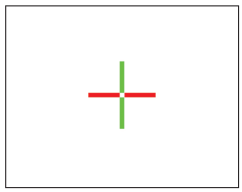
Optional Accessory: PC-50S

Active Charts

TOPCON's unique "Active Charts" helps testing correct visual funvtion in practical condition.



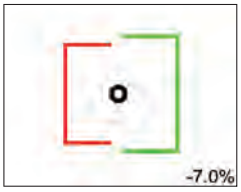
Coincidence Test
(Aniseikonia Test)

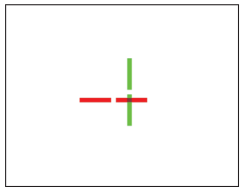


Phoria Test

Phoria Test

Astigmatism Test





Expanded Application of KB-50S for Your Daily Scene

Needless to say that the KB-50S functions as a remote controller for chart switching for visual acuity tresting, it incorpotates a new function for near view simulation.

Daily Scene

Various contents of daily scene are ready for near view with KB-50S and far view with PC-50S. This combination is quite useful for checking the final prescription.

Far

PC-50S

Golf Theater Shopping Travel

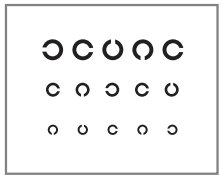
Near

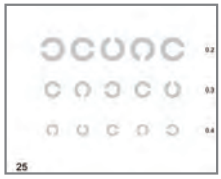
KB-50S

Contrast Test

It helps to examine the contrast sensitivity with piual and singular frequency chart.

Change of contrast

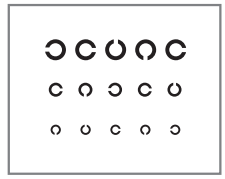


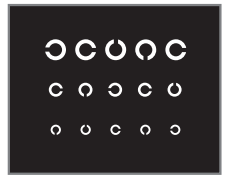


Single ratio
character contrast

Plural ratio
character contrast

Black-and-white inversion





Sales Support Function

CV-5000 provides a sales support function, 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

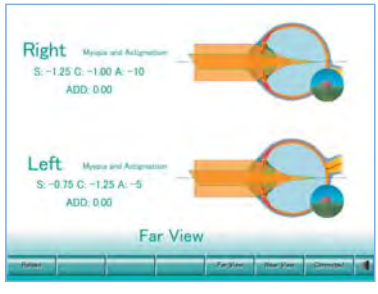
Age 10

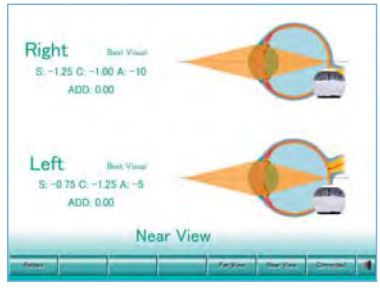
Age 50

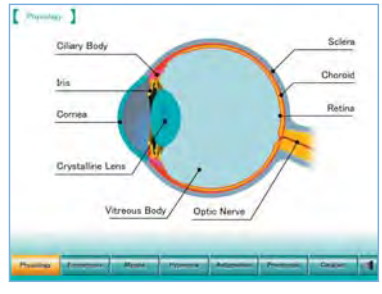
Age 60

Patient Information

Patients like to know why they need glasses.
The animated patient information provides a clear understandings to the patient.



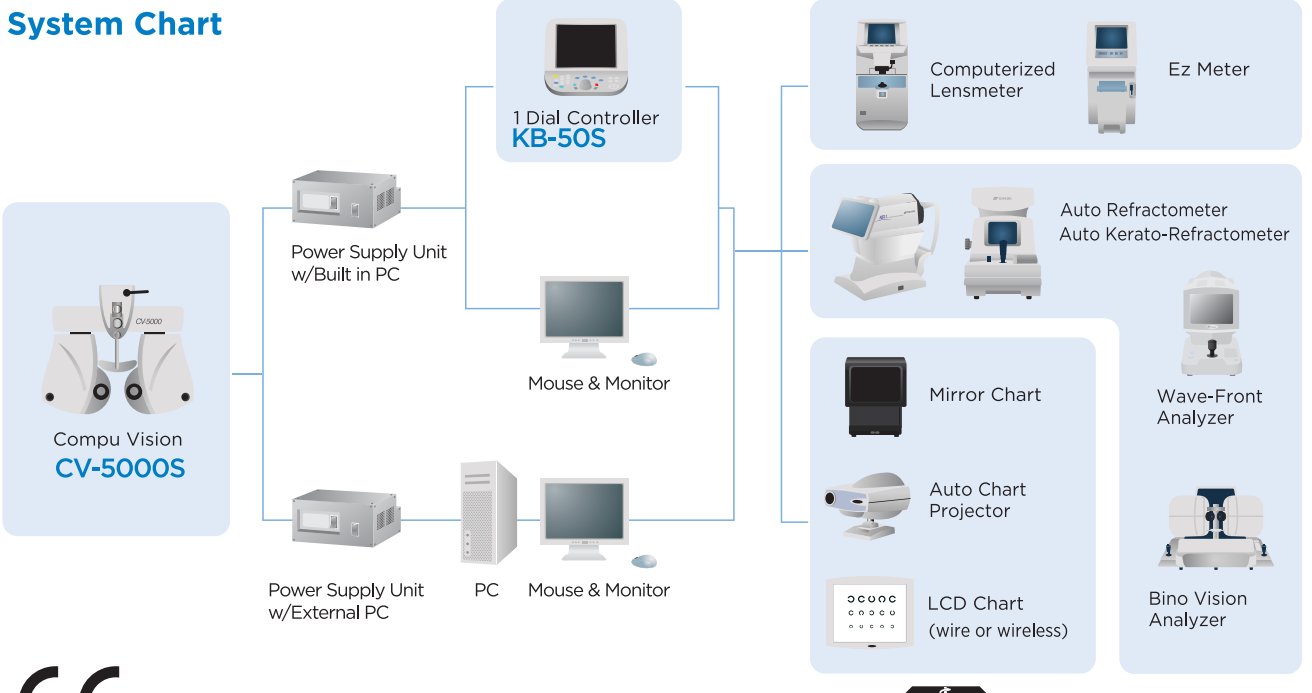




Specifications

Spherical power	Measuring range	+27.00 to -27.00D
	Measuring step	0.25D/3.00D
Cylinder power	Measuring range	+8.00 to -8.00
	Measuring step	0.25D/1.00D
Cylinder axis	Measuring range	0 to 180°
	Measuring step	1°/5°/15°
Prism	Measuring range	0 to 20Δ(all direction)
	Measuring step	0.1Δ/0.2Δ/0.5Δ /1.0Δ
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 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.	
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	
Dimentions and weight	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/Extenal PC	276mm (W) x 197mm (D) x 117mm (H) 2.7kg
	Power Supply Unit W/Built-in PC	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



*Subject to change in design and/or specifications without advanced notice.
*In compliance with the terms of the Export Administration Regulation of the United States of America,this product may not be available in some regions or countries.

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

EC97J1081

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