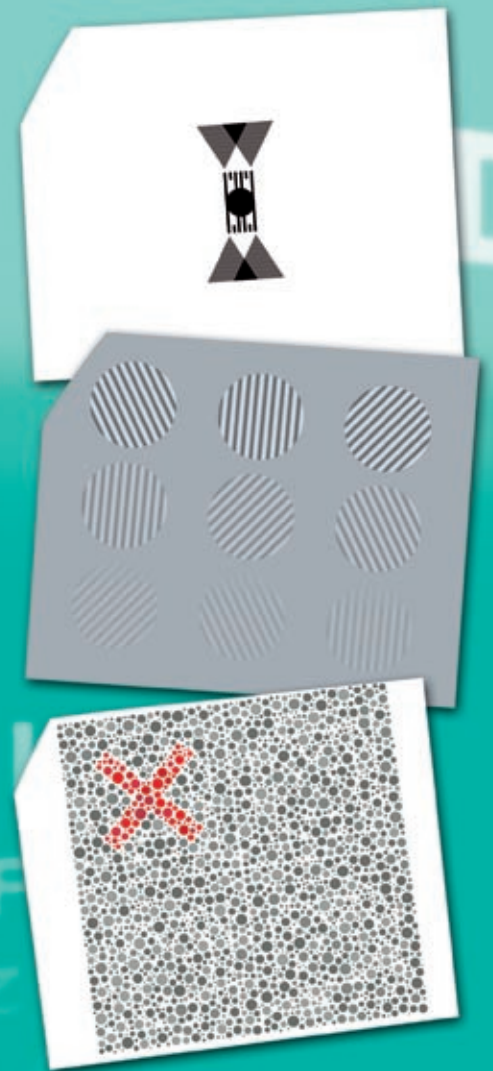


Computerized Chart System CC-100XP



CONNECTING VISIONS

Your Personal Test Chart LCD

CC-100XP

Topcon is proud to present the latest development in high tech LCD test charts; Topcon CC-100XP. CC-100XP is provided with a 22 inch wide screen, high resolution, high contrast and high brightness LCD display. The contemporary design of CC-100XP fits into every modern eye care practice and matches the smooth design of Topcon ophthalmic instruments.

CC-100XP can be controlled by dedicated Topcon CV-5000 automated phoropter, by dedicated remote control or PC driven virtual remote control.

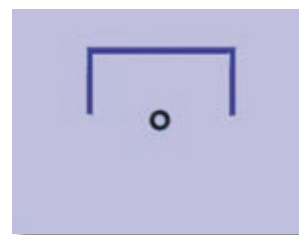
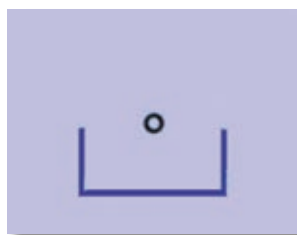
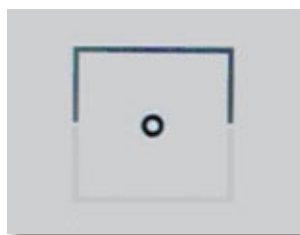
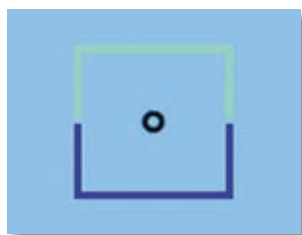
CC-100XP automatically scales the test charts to the distance set by the operator.



CC-100XP

CC-100XP offers most of the commonly used visual acuity tests, like Letters, Tumbling E, Landolt C and Numbers as well as 3 different Children charts. Image separation for binocular testing is created through a specific Polarization technique, which is unique for LCD test charts. This unique Polarization technique provides 100% image separation, leaving no "ghost image"; a significant improvement compared to all conventional Polarized LCD chart systems currently available on the market.

Conventional LCD test chart systems also display different background colors when Polarization lenses are in use; a phenomenon that is elaborated by Topcon CC-100XP. Additional to the commonly used visual acuity tests CC-100XP provides numerous charts and tests for further, extended screening purposes. A unique feature is the availability of the Spatial Frequency Contrast Sensitivity Test which provides quantitative and qualitative information about the patients contrast visual acuity.



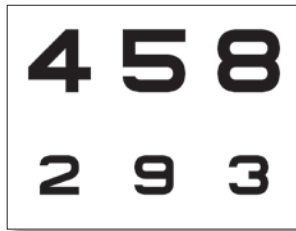
Ghost images and different background colors in conventional LCD chart systems

100% separation and equal background in Topcon CC-100XP

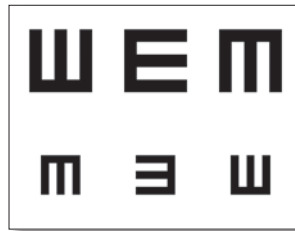
Available Standard Visual Acuity Charts in CC-100XP



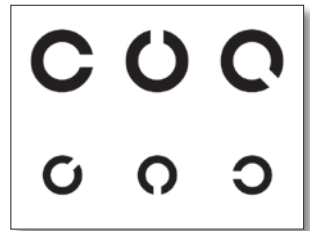
VA charts available in characters



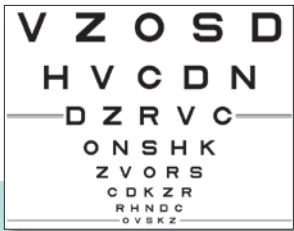
Numbers



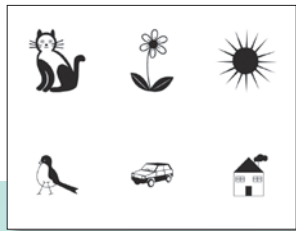
Tumbling E



Landolt C

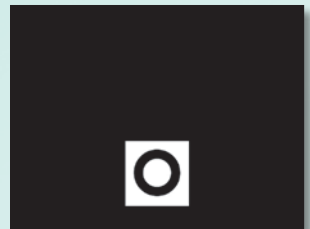
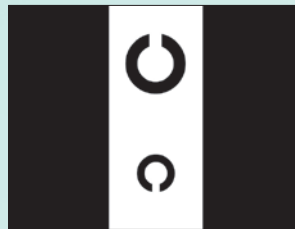
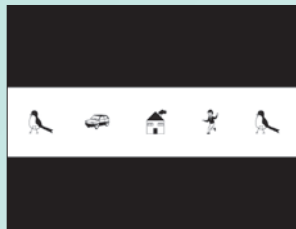


ETDRS chart (2)



Illiterates and children charts

Masking is available for horizontal (row), vertical (column) and single characters.



MKH test sequence according to Haase



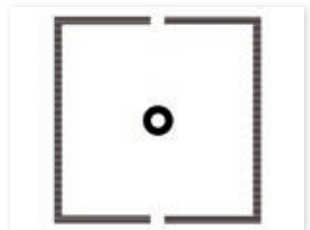
Cross



Indicator



Double indicator



Coincidence



Stereo triangle



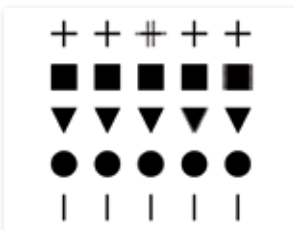
Reduced stereo triangle



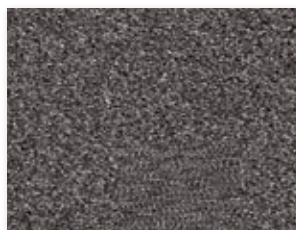
Stereo Valence



Reduced Stereo Valence



Differential stereo



Random dot Hand



Random dot Stage

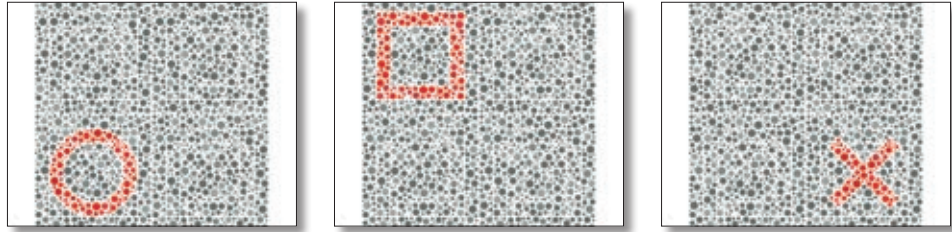


Cowen

MKH test sequence is available in CC-100XP for functional optometry testing

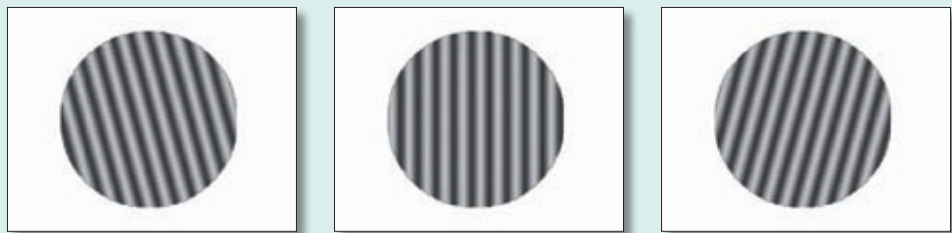
Further tests available within CC-100XP

Hardly-Rand-Rittler Pseudo-Isochromatic Color Vision Test



The H-R-R Pseudo-Isochromatic test is based on the well-known Ishihara test, but providing better quantitative data on color vision deficiencies. CC-100XP displays the results in an easy to understand graph which is printable as well.

Spatial Frequency Contrast Sensitivity Test



The Spatial Frequency Contrast Sensitivity Test can be customized by setting the amount of spatial frequencies and contrast levels. The result gives valuable information on the patients contrast visual acuity. Test results are displayed in a graph which is printable as well.

CC-100XP hardware features

Light sensor

The light sensor senses the examination room light level and indicates whether or not this light level needs adjustment in order to achieve the best test results.

White Maddox LED

The white Maddox LED provides a small light source, extremely well fitted for Maddox testing. All conventional LCD chart systems provide the Maddox Light within the LCD display itself, which is either too big or not bright enough to perform proper Maddox testing.

WiFi connection

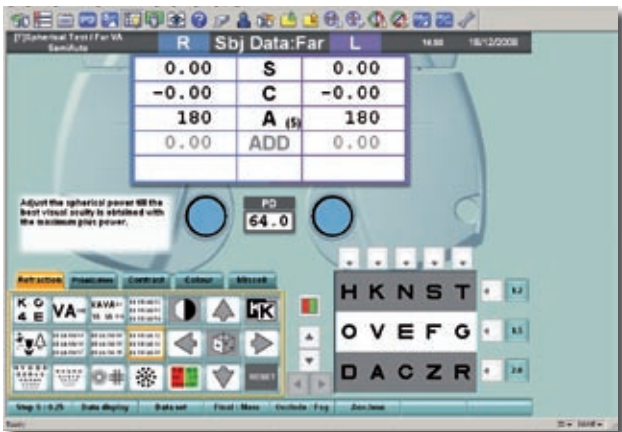
CC-100XP is equipped with WiFi connection to send data to a PC for the virtual remote control or WiFi printer to print test results.

USB connection

CC-100XP provides USB connection to a printer to print test results.



A range of operation options are available for CC-100XP



CV-5000 PC operation window

Operation can be done by Topcon's dedicated CV-5000* automated phoropter in combination with KB-50 operation panel or CV-5000PC operation software.

Both combinations offer full functionality and the charts displayed by CC-100XP are displayed in either KB-50 or CV-5000PC operation software.

Both systems allow operation of CC-100XP without the need of the dedicated remote control.



CV-5000 optical head



KB-50 operation panel

The Remote control, offers easy operation and full functionality of CC-100XP



*The dedicated CV-5000 automated phoropter, matching CC-100XP Polarization method, is available from early 2009. To ensure whether or not your CV-5000 automated phoropter is suitable to be combined with CC-100XP, please contact your local supplier.

Specifications CC-100XP

Testing distance	2.9 - 6.1 m, step size: 0,2m	
Viewing area W x D (mm)	437 x 293	
Visual acuity range / steps	Decimal: 0.05 to 2.0	
	LogMar: 1.3 to - 0.30	
	Snellen (m): 120 to 3	
	Snellen (f): 400 to 10	
	Monoyer: 0.5 to 2.0	
Standard VA tests	Letters	ETDRS
	Numbers	Monocular R/G
	Landolt C	Clock fan
	Tumbling E	Fan and Block
	3 Children / Illiterate charts	Astigmatism
Binocular tests	Schober	Stereo triangle 11
	Worth 4 dots	Stereo valenz 20
	H: Horizontal	Stereo valenz 11
	V: Vertical	Stero test
	Duochrome balance	Differential Stereo
	Zeiger	Vertical OXO
	Double Zeiger	Horizontal OXO
	VA balance	Random dot (Hand)
	Fixation disparity	Random dot (Stages)
	Stereo triangle 20	Cowen
LCD Display		
Dimensions W x H x D (mm)	578 x 430 x 58	
Contrast ratio	10 000 : 1	
Weight (kg)	7	
Main Voltage	AC 110 - 240 V; 50-60 Hz	
Power Consumption	120 Watt	

Accessories



Remote Control (optional)



Virtual remote control (optional)



Wall Mount (optional)

Special Polaroid filters for trial frames (standard)



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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