



Auto Ref / Keratometer

CR-1/CRK-1/CR-1P/CRK-1P

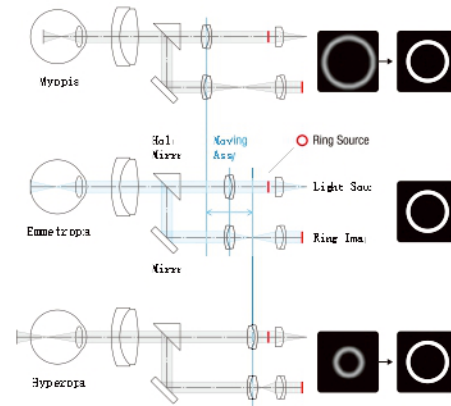
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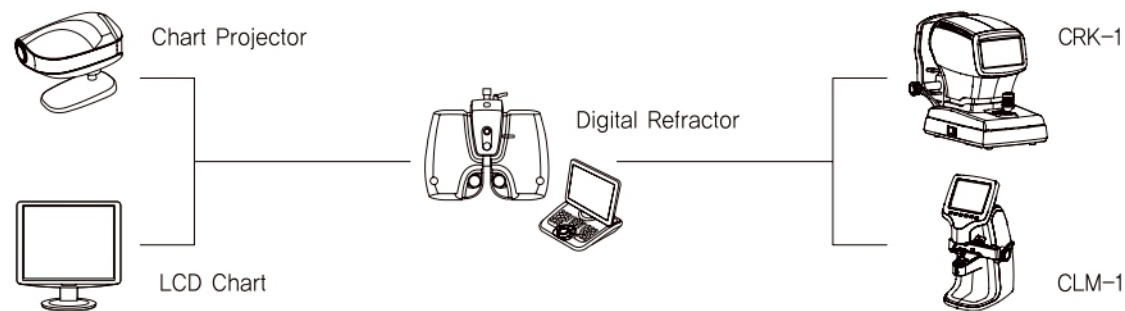
Smart Assembly Moving Control Technology

The invisible technology behind REF optical system can be seen in the accuracy and stability of the measurement results. Considering the refractive error of the patient, the measurement ring is projected on the retina, and is adjusted automatically by Smart Assembly moving to secure a stable signal. CRK improves the effect of uneven light reflection in normal and cataract eyes with the results being more accurate refractive power REF data.



Smart Assembly Moving Control (SAMC) Tech

System Networking



Specification		CR-1	CRK-1	CR-1P	CRK-1P
Measurement Mode	K/R Mode	Continuous Keratometry & Refractometry		×	○
	REF Mode	Refractometry		○	○
	KER Mode	Keratometry		×	○
	Retro-ILL	Retro-illumination		×	×
	Color View Mode	Color View & Contact Lens Fitting Assistance (White & Blue LED Light)		×	×
Refractometry	Vertex Distance (VD)	0.0, 12.0, 13.75, 15.0			
	Sphere (SPH)	-30.00~+25.00D (VD=12mm) (Increments : 0.01, 0.12, 0.25D)			
	Cylinder (CYL)	0.00~±12.00D (Increments : 0.01, 0.12, 0.25D)			
	Axis (AX)	0~180° (1° unit)		○	○
	Astigmatism Indication	-, +, ± (Mixed)			
	Pupil Distance (PD)	10~85mm			
	Minimum Pupil Diameter	02.0mm			
Keratometry	Radius of Curvature	5.0~13.0mm (Increments : 0.01mm)			
	Cornea Power	25.96D~67.50D (Increments : 0.05, 0.12, 0.25D) (When cornea equivalent refractive index is 1.3375)			
	Cornea Astigmatism	0.00~15.00D (Increments : 0.05, 0.12, 0.25D)		×	○
	Axis	0~180° (Increments : 1°)			
	Pupil, Iris Diameter	2.0~14.0mm (Increments : 0.1mm)			
Memory of Data	10 measurements for each eye				
Auto Tracking Distance	Up and down	±15mm		×	×
Others	Display	7 inch Wide Color TFT LCD Resistive Touch Panel			
	Interface	RS-232C			
	Internal Printer	Thermal Line Printer			
	Power Supply	100~240VAC, 1.0~0.6A, 50/60Hz			
Dimensions / Weight	261 (W) X 513 (D) X 433 (H)mm/16kg				

Designs and details can be changed without prior notice for the purposes of improvement.

Wavefront Analysis Technology with the Hartmann Sensor

Providing more accuracy in the measured values utilizing the Hartmann Sensor Wavefront Analysis Technology with more measurement points than our previous generations.



Hartmann Sensor

Expanded Prism Measurement Range

Prism measurement range has been expanded up to 20Δ, measuring from all directions of: BU, BD, BI, BO.



Prism Measurement

Wide Range for Measuring Small or Large (Blank) Lenses

It is easy to measure all lens diameters from Ø 15mm to Ø 120mm.

Easily Measures Sunglasses

While measuring the refractive power of darkly tinted or mirrored sunglasses, the CLM-1 will calculate the refractive power of the lens by automatically amplifying the amount of light without requiring any additional key strokes, the same way it measures normal lenses.



Mirror Lens Measurement

Transmission Check Whole Blue Light Wavelength With 4 LEO

CLM-1 can check transmission rate for 4 wavelength 395nm (UV), 415nm (Blue - Low), 460nm (Blue - High), 545nm (Green).



Minimize the Distance between P.D. Bar and Lens Support

CLM-1 Charops Lensmeter with Wavefront Analysis Tech Four Transmission checks

Specification

Measurement Range	Spherical Power	0D - ±25D (0.25/0.12/0.06/0.01)
	Cylinder Power	0D - ±10.00D (0.25/0.12/0.06/0.01)
	Cylinder Axis	0° - 180° (1° step)
	Progressive Power	0 - 10D (0.25/0.12/0.06/0.01)
	Prism	0 - 20Δ (0.25/0.12/0.06/0.01)
Measurement Mode	Cylinder	±, +, -
	Prism	Rectangular / Pole / Displacement
	LED Wavelength	545nm (Green)
	Contact Lens	Hard / Soft Contact Lens
	Abbe Value	Manual Revision
	Wavelength	e-Line, d-Line
Others	Transmission	395nm (UV) 415nm (Blue - Low) 460nm (Blue - High) 545nm (Green)
	Screen	5.7" Color LCD Panel (640x480)
	Interface	RS-232 QR Code
	Communication Speed (bps)	9600, 57600, 115200 bps
	Internal Printer	Thermal Line Printer (Option)
Product Size / Weight	187(W) x 234(D) x 413(H)mm / 4.3Kg	
Power Supply	DC12A MAX2.0A	

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Charops

Newly designed, Charops continues to lead in product development combining innovation with value and performance.

CLM-1 Charops Lensmeter with Wavefront Analysis Tech



CHAROPS

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Our New Generation of Lensmeter with the Hartmann Sensor Wavefront Analysis Technology



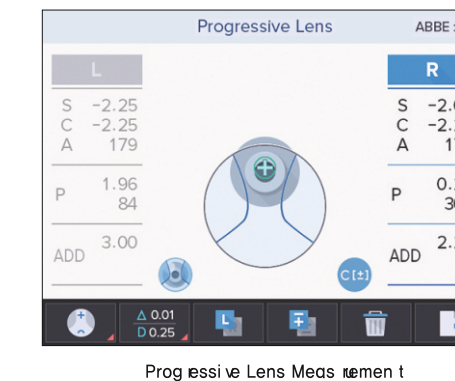
Faster and More Accurate Results

Comes with CLM-1

Well-arranged Measurement Method

The new CLM-1, from Charops, has a slim and modern design. Its Hartmann Sensor Wavefront Analysis Technology makes the measured values more accurate and reliable.

Surprisingly great economical value for the new standard features brought to you by Charops in the CLM-1.



Slim and Compact Design

Measuring only 182x415x235mm, the CLM-1 works well in today's compact office designs.

Auto Lens Recognition

Single Vision, Progressive and other lenses are recognized and the CLM-1 automatically enters the appropriate measurement mode.

Improved Progressive (Multifocal) Lens Measurement

Measurement is fast and easy by simply moving the target and following the guides on the screen.

User-Friendly Graphical Interface

New bright and easily visible Graphical User Interface (GUI) that gives feedback and guidance for easy-to-use operation.

QR Code

Measurement data can be shown on display with QR code.

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