

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.

Expanded Prism Measurement Range

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

Wide Range for Measuring Small or Large (Blank) Lenses

It is easy to measure all lens diameters from Ø15mm to Ø120mm.

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.

Transmission Check Whole Bluelight Wavelength With 4 LEO

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



Hartmann Sensor



Prism Measurement



Mirror Lens Measurement



Minimize the Distance between PD Bar and Lens Support

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

Specification

Measurement Range	Spherical Power	OD – ±25D (0.25/0.12/0.06/0.01)
	Cylinder Power	OD – ±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
	Screen	5.7" Color LCD Panel (640x480)
	Transmission	395nm(UV) 415nm(Blue–Low) 460nm(Blue–High) 545nm(Green)
	Interface	RS–232 QR Code
	Communication Speed (bps)	9600, 57600, 115200bps
Product Size / Weight	187(W) x 234(D) x 413(H)mm / 4.3Kg	
Power Supply	DC12A MAX2.0A	

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



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.



Progressive Lens Measurement



Auto Lens Recognition