

LM-Series SPECIFICATIONS



MODEL	LM-1800PD	LM-7P, LM-7
Measurable Range		
Sphere (Spectacle lenses)	-25 to +25 D	
Sphere (Contact lenses)	-25 to +25 D (BC=6.0 to 9.0), (0.01 / 0.06 / 0.12 / 0.25 D increments)	
Cylinder	0 to ±10 D (-, MIX, +), (0.01 / 0.06 / 0.12 / 0.25 D increments)	
Axis	0 to 180° (1° increments)	
ADD	0 to +10 D (Add, Add2)	
Prism	0 to 20Δ, (0.01 / 0.06 / 0.12 / 0.25Δ increments)	
Prism mode	Δ, Base In / Out, Base Up / Down; Polar Coordinates	
PD measurement	20.0 to 49.5 mm (monocular), single vision PD, progressive lens far vision PD	Scale module screen display
UV transmittance	0 to 100% (1 or 5% increments)	
Measurable lens diameter		
Spectacle lenses	20 to 120mm	
Contact lenses	Larger than the inner diameter of the nosepiece (5 mm)	
Measurable transmittance	10% and over (20% and over for ±15 to ±20 D)	
Compensation function for high index lenses	The abbe number is changeable in the range of 20 to 60.	
Marking system	Ink cartridge type	
Wavelength/measuring points	535 nm (green) / 108 within nosepiece	
Printer	Thermal line printer with auto cutter; paper width: 58 mm	Thermal line printer with auto cutter; paper width: 58 mm *Printer not included with LM-7.
Power supply	AC 100 to 240 V, 50 / 60 Hz	
Display	5.7-inch color full graphic LCD, 640 x 480 dots with LED backlight	5.7-inch color full graphic LCD, 640 x 480 dots with LED backlight
Interface	RS-232C, USB2.0 HOST, USB2.0 FUNC, 0/10 BASE-T Ethernet - 1 port each EyeCard IC Card Reader	RS-232C, USB2.0 HOST, USB2.0 FUNC, 0/10 BASE-T Ethernet - 1 port each EyeCard IC Card Reader WLAN (WLAN optional on LM-7)
Measuring time	0.06 second ±10% (minimum)	0.1 sec. ±10% (min.)
Power Consumption	60 VA	50 VA
Dimensions / Weight	220(W) x 252(D) x 430(H)mm / 5.0 kg 8.7"(W) x 9.9"(D) x 16.9"(H) / 11.0 Lbs.	200(W) x 240(D) x 410(H)mm 7.87"(W) x 9.45"(D) x 16.14"(H) LM-7 weight: 3.7 kg / 8.1 lbs. LM-7P weight: 4.3 kg / 8.8 lbs.
Standard Accessories	Printer paper, dust cover, power cord, nosepiece for contact lenses, explanation guide for measuring progressive power lenses	
Optional accessories	EyeCare IC Card, foot switch, barcode scanner magnetic card reader, USB communications cable, RS 232 communications cable, ink pad type marking unit	

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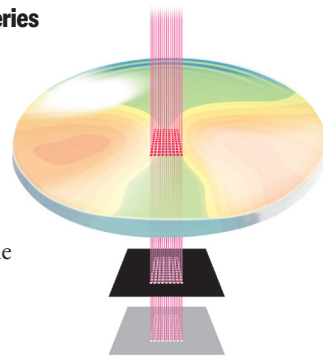


7.19 3000 BR-LM-SERIES

Marco LM-Series AUTOMATED LENSMETERS



The **Marco Automated Lensmeter Series** represents the latest technology in lens measurement, providing simple and rapid operation. Faster detection and data acquisition offer unparalleled functionality and performance versatility, making it the most advanced automated lensmeter series available on the market today.



User Friendly

Hartmann-Shack sensor with 108 measurement points

Advanced simultaneous measurement of 108 points within the nosepiece automatically provides quick, accurate, reliable lens analysis regardless of lens type.

Automatic Lens Detection

Placing a lens on the nosepiece activates the auto lens detection mode, which determines if a lens is a single vision or progressive lens. The LM automatically adjusts to the appropriate measuring mode for the lens type.

Green Measurement Light

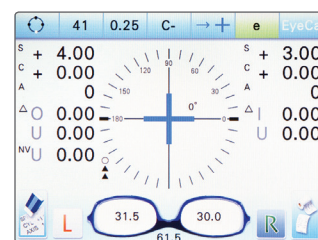
Close to the ISO standard wavelength and gives more precise values without having to change the Abbe Value. This is particularly beneficial when measuring high index lenses.

Full Color & Graphic LCD

Full color graphic display offers clear and easy recognition of various values, from single-vision lens to progressive lens. Superior LCD brightness and horizontal/vertical viewing angle.

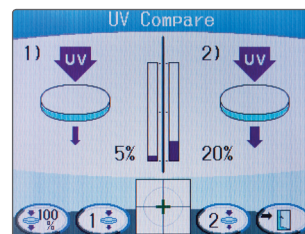
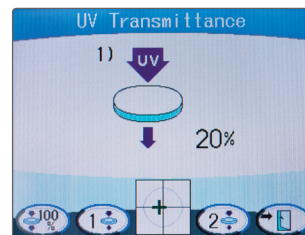
5.7" Enlarged LCD Color Touch Screen Display

The touch monitor provides an enhanced viewing angle allowing the operator to sit or stand.



UV Transmittance Measurement

UV transmittance is reported in 1 or 5% increments over a range of 0-100%. The measured data can be saved and the UV transmittance of multiple lenses can be compared.



Wide Prism Measurement Range

Prism measurement range is expanded to 20 diopters in both horizontal and vertical directions, offering greater versatility.



Ergonomic Design

Built-in EyeCare IC Card Reader

A built-in EyeCare IC card reader provides quick and easy wireless data transfer to auto refractors and refraction systems. Ethernet interface available also.



Marking System

Marking system is easy-to-use and can successfully mark even lenses that have a water repellent coating/finish.

High-Speed Printer with Automatic Cutter

The printer produces legible printouts. Replacing a new roll of paper is easy and takes only a few seconds. Available on all models except LM-7.



Easy PD measurement

Pupillary Distance (PD) can be measured for both near and distance. The LM-1800PD provides automatic Right/Left detection and PD measurement with a nose piece slider, which assists the operator in holding glasses while measuring.



The LM-7 offers the scale module function where PD can be measured easily by aligning the marked glasses to the scale displayed on the screen.



----- 0002 -----			< PROGRESSIVE >		
< PROGRESSIVE >			RIGHT	LEFT	
RIGHT	LEFT		+1.25	SPH	+0.50
+1.25	SPH	+1.00	-0.50	CYL	-1.25
-0.50	CYL	-0.50	142°	AXS	20°
108°	AXS	156°	I 0.50	PSM	I 0.75
+2.50	ADD	+2.50	D 1.75	ADD	D 0.75
			+1.50	ADD	+1.50
			15%	UV	20%
NIDEK LM-7P			----- PD -----		
			30.0	62.0	32.0
			NIDEK LM-1800PD		

Printout sample of progressive power lens measurement available on LM-7P and LM-1800PD

FEATURES	LM-7	LM-7P	LM-1800PD
Hartmann-Shack Principle	///	///	///
Automatic Lens Detection	///	///	///
Full Color & Graphic LCD	///	///	///
Marking System	///	///	///
UV Transmittance	///	///	///
Green Measurement Light	///	///	///
Built-in EyeCare IC Card Reader	///	///	///
Wide Prism Measurement Range	///	///	///
Printer w/Automatic Cutter		///	///
Net Vertical Prism			///
PD Measurement	///	///	///
Enlarged LCD Touch Screen	///	///	///
Tiltable LCD Monitor			///
Ethernet Interface			///
Optional Ethernet/Wireless	///	///	



LM-7 Series

LM-1800PD