

# LM-1800PD AUTOMATED LENSMETER



The Marco **LM-600** and **LM-1800PD** Automatic Lensmeter Series represent the latest technology in lens measurement, providing simple and rapid operation. Faster detection and measurement acquisition offers unparalleled functionality and performance versatility, making it the most advanced automatic lensmeter series available on the market today.

#### **Hartmann-Shack sensor with 108 measurement points**

Advanced simultaneous measurement of 108 points within the nosepiece provides easier and faster analysis with greater accuracy and reliability.

**Green measurement light** Green light close to the ISO standard gives more precise values without Abbe value compensation.

**Automatic lens type detection** Placing the lens on the nosepiece activates the lens detection system to automatically determine the lens type and switch its measuring mode accordingly.

FEATURES	LM-600	LM-600P	LM-1800PD
Hartmann-Shack Principle			
Automatic Lens Detection			
Full Color & Graphic LCD			
Marking System			
UV Transmittance			
Green Measurement Light			
Built-in IC Card Reader			
Wide Prism Measurement Range			
Printer w/Automatic Cutter			
Net Vertical Prism			
PD Measurement			
Enlarged LCD Screen			
Tiltable LCD Monitor			
Ethernet Interface			

## LM-1800PD Specifications



Model	LM-1800PD
Measurement 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 $\pm 10$ D (-, MIX, +) (0.01 / 0.06 / 0.12 / 0.25 D increments)
Axis	0 to 180° (1° increments)
ADD	0 to +10 D Add, Add 2 (trifocal) (0.01 / 0.06 / 0.12 / 0.25 D increments)
Prism	0 to 20 $\Delta$ (0.01 / 0.06 / 0.12 / 0.25 $\Delta$ increments)
Prism mode	$\Delta$ , Base In / Out, Base Up / Down; Polar Coordinates
PD measurement (LM-1800PD only)	20.0 to 49.5 mm (monocular), Single vision PD, Progressive lens far vision PD
UV transmittance	0 to 100% (1 or 5% increments)
Measuring time	0.06 second $\pm 10\%$ (minimum)
Measurable lens diameter	
Spectacle lenses	20 to 120 mm
Contact lenses	Larger than the inner diameter of the nosepiece ( $\phi 5$ mm)
Measurable transmittance	10% and over (20% and over for $\pm 15$ to $\pm 20$ D)
Compensation function for high index lenses	The abbe number is changeable in the range of 20 to 60.
Marking system	Ink cartridge type (Red/Blue)
Wavelength / Measuring points	535 nm (green) / 108 within nosepiece
Display	5.7-inch color full graphic TFT-LCD, 640 x 480 dots with LED backlight
Printer	Thermal line printer with auto cutter (paper width: 58 mm)
Interface	RS-232C, USB2.0 HOST, USB2.0 FUNC, 10/100BASE-T Ethernet - 1 port each
Power supply	AC 100 to 240 V, 50 / 60 Hz
Power consumption	60 VAC
Dimensions / Mass	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.
Standard accessories	Magnetic card reader, Printer paper, Power cord, Dust cover, Nosepiece for contact lenses, Explanation Guide for Measuring Progressive Power Lenses
Optional accessories	Eye Care cards, Interface cable, USB cable, Foot switch, Ink cartridges (Red/Blue), Barcode scanner



Designed and Manufactured by NIDEK - Represented by MARCO

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