![NIDEK logo]

Auto Lensmeter

LM-1800PD/1800P

Auto Lensmeter
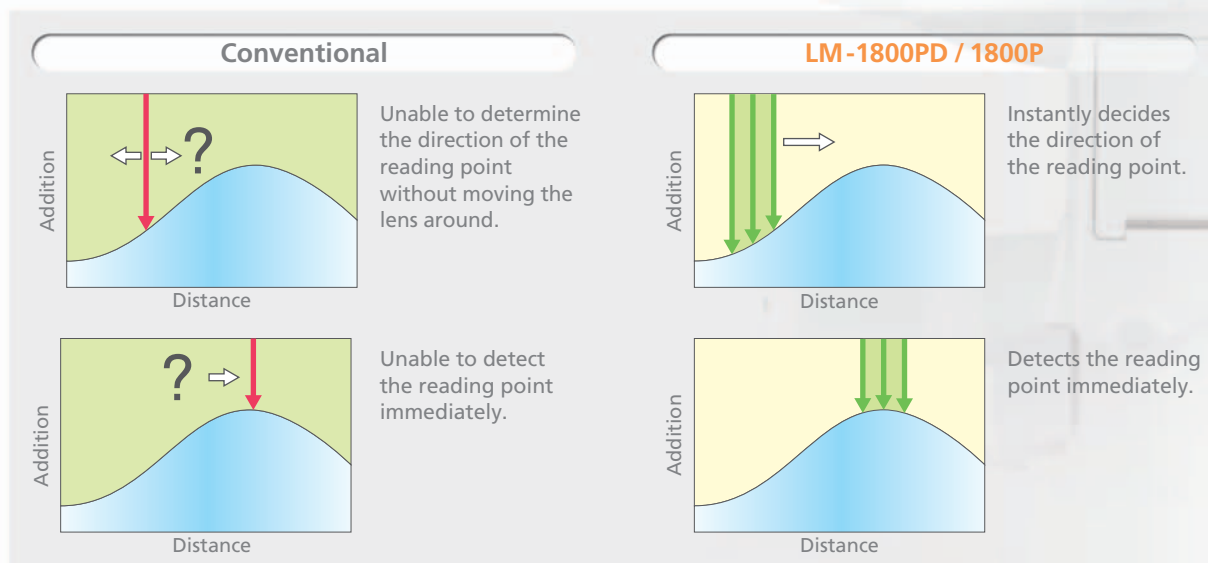# LM-1800PD / 1800P

Beyond compare –like nothing else–

The culmination of NIDEK's accumulated experience and passion for the Auto Lensmeter.

Hartmann sensor with 108 multiple measurement points

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

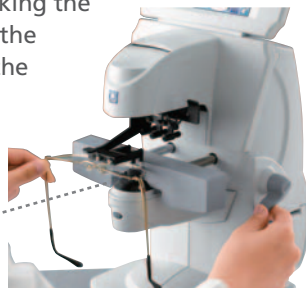| Conventional		LM-1800PD / 1800P	
(Addition vs Distance graph with red arrow and "?")	Unable to determine the direction of the reading point without moving the lens around.	(Addition vs Distance graph with green arrows)	Instantly decides the direction of the reading point.
(Addition vs Distance graph with "?" and red arrow)	Unable to detect the reading point immediately.	(Addition vs Distance graph with green arrows)	Detects the reading point immediately.

Green measurement light

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

Automatic lens type detection

Placing the lens on the nosepiece activates the auto lens detection to automatically determine the lens type and automatically switches its measuring mode accordingly.

A new lens table expanding measurement range

The new mechanism of the lens table allows the nosepiece to partially enter into the lens table. The mechanical change enables easy measurement of near portion of progressive lens without taking the lens table off even though the near portion is located on the edge of the frame.

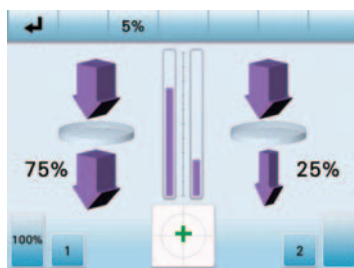## Easy PD measurement *(only for the LM-1800PD)*

Papillary distance can be measured easily. The LM-1800PD offers automatic Right / Left detection with the special PD slider, which also helps the operator easily hold glasses while measuring.

Prism layout function

Entering the prism prescription value in advance allows easy blocking by just following the target shown on the screen for blocking lenses at the prism prescription position.

UV transmittance measurement

A new UV measurement with the visually-enhanced display shows the UV transmittance in the range of 0 to 100% by 1 or 5% increments. The comparison of the two lenses can be easily displayed.

High-Speed line printer with auto cutter

The LM-1800 series feature a high-speed printer with fast and easy to read printouts. Measurement data is simply laid out and is useful for explanation to customers.

```
< PROGRESSIVE >
RIGHT              LEFT
- 2.00    SPH    - 2.25
- 1.00    CYL    - 0.50
   10°    AXS     170°
0 0.25    PSM   0 0.00
U 0.50           U 0.25
+ 1.75    ADD   + 2.00
------------ PD ------------
30.5    61.5    31.0

NIDEK   LM-1800PD
```

Sample Printout
(LM-1800PD)

Full graphic LCD with 5.7-inch touch color panel

The adoption of the touch panel achieves ideal layout display superior in operability, visibility and external appearance. Moreover, you can choose a favorite color from a lot of choices.

User-Friendly tiltable LCD

The tiltable (30°) full-graphic LCD monitor provides easier operation for both standing and sitting operators.

Improved marking dots

NIDEK's newly developed marking ink provides clear dots even on lenses with water repellent coating / finish.

Built-in Eye Care card system

The LM-1800 series incorporates the card slot for Eye Care card system, which provides quick and easy wireless data tracer, eliminating paper print outs from the auto refractometers and the auto optometry systems, which are leading products that also carry built-in Eye Care card system.

Interface enhancement

In addition to the conventional three interfaces, LAN interface is preloaded in the LM-1800PD/1800P. It is accessible to the auto refractometer, the auto optometry system and a PC directly.

LAN

LM-1800PD / 1800P Specifications

Model	LM-1800PD	LM-1800P
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 ±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, Ad2)	
	(0.01 / 0.06 / 0.12 / 0.25 D increments)	
Prism	0 to 20Δ	
	(0.01 / 0.06 / 0.12 / 0.25Δ increments)	
Prism mode	Δ, θ, Base In / Out, Base Up / Down	←
PD measurement	20.0 to 49.5 mm (monocular), Single vision PD, Progressive lens far vision PD	Not available
UV transmittance	0 to 100% (1 or 5% increments)	←
Measuring time	0.06 second ±10% (minimum)	←
Measurable lens diameter		
Spectacle lenses	ø20 to 120 mm	←
Contact lenses	Larger than the inner diameter of the nosepiece (ø5 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 point	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 VA	←
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	Printer paper, Power code, Dust cover, Nosepiece for contact lenses, Measuring Progressive Power Lenses explanation guide	←
Optional accessories	Eye Care card, Interface cable, USB cable, Foot switch, Ink cartridge (Red/Blue), Ink cartridge, Ink pad type marking unit, Simple refractive measurement system, Barcode scanner, Magnetic card reader	←

Specifications and design are subject to change without notice.

Eye & Health Care
NIDEK CO., LTD.

VEGETABLE OIL INK