













MARCO

MARCO WORLD'S FIRST SYSTEM COMBINING TONOMETRY WITH AUTOREFRACTION

New Non-Contact Tonometer, Automatic Refractor, and Automatic Keratometer

Combining the measurement of refractive power, corneal curvature and intraocular pressure (IOP), the device provides fast and accurate ophthalmic patient care.

YSPACE SAVING

Compact & Efficient

The M3 provides auto refraction, keratometry, and tonometry, while saving space and offering greater efficiency by eliminating the need for multiple instruments. Also, the M3 interfaces with EMR.

YFAST AND ACCURATE

High-Speed & Reliable Measurement

With the latest advanced technologies, the M3 provides highly accurate, reliable measurements with significantly reduced measurement time.

Pupil Zone Imaging Method

The Marco M3 adopts the advanced Pupil Zone Imaging Method for refraction measurement,



which analyzes a wider area (max. ø4mm) to obtain more reliable and realistic data closer to manifest refraction. The M3 is also capable of measuring a 2mm pupil.

YUSER FRIENDLY

Adjustable Monitor

The clear 5-inch color LCD monitor with tilting function offers easy operation. If the operator needs to stand to lift the patient's eyelid, the monitor can still be viewed.



Printer provides fast and automatic paper loading, cutting and detachment.

Simply open door, drop in paper, and go. No spool or paper feed needed.



Up/Down buttons are used to adjust the motorized chinrest to the correct height for patient measurement.



TILTABLE LCD



EASY-LOAD PAPER

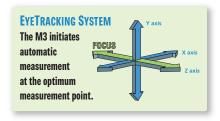


ADJUSTABLE MOTORIZED CHINREST

¥FULLY AUTOMATIC

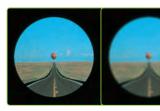
EyeTracking System

The M3 is completely automatic, using three axes: alignment, tracking, and focusing.



¥BALLOON TARGET

The balloon picture is an infinity target. Automatic fogging minimizes accommodation and maintains fog through all measurement readings.



BALLOON TARGET

FOGGED TARGET



COLOR ALIGNMENT INDICATORS



AUTO MEASUREMENT



RING DISPLAY



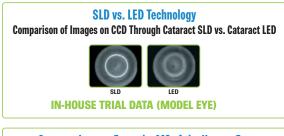
TONOMETRY READINGS

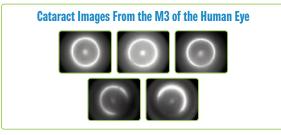
¥ADDITIONAL MEASUREMENTS

SLD vs. LED Technology.

SLD technology measures patients with small pupils and media opacities. Competitors' utilization of LED technology to measure the refractive power of the optical system presents disadvantages including poor penetration of the LED through media opacities, limited data and accuracy of patients measured.

What's the difference?







YPATIENT FRIENDLY

Gentle Air

The new M3 has an advanced APC (Automatic Pressure Control)—high volume—low pressure puff-function which provides a softer puff of air for accurate IOP measurements and increased patient comfort. The M3 system automatically adjusts the strength of the air puff based on the first measurement of the patient's IOP (including glaucoma suspects).

YNON-CONTACT TONOMETRY

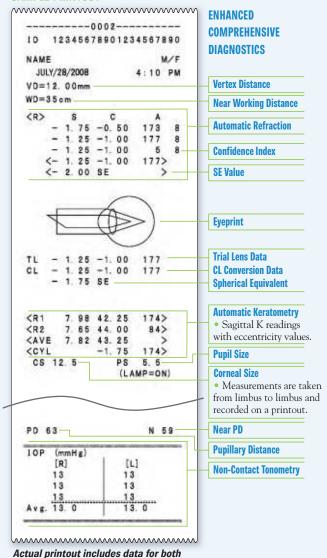
The M3 non-contact tonometry requires no sterilization. The automatic NCT measurements are operator independent, repeatable, and reproducible. Training is quick and easy.



YPRINTOUT

The Automatic Refractor, Automatic Keratometer, and Non-Contact Tonometer data are automatically separated when printing. The printer comes equipped with an automatic paper cutter, eliminating torn printouts.

SAMPLE PRINTOUT



MARCO

right and left eyes.





VAUTO REFRACTOR/KERATOMETER

Measurable Range

Sphere -30.00D to +25.00D (V.D. =12mm), (0.01/0.12/0.25D increments)

Cylinder 0D to ±12D (0.01/0.12/0.25D increments)

Axis 0° to 180° (1°/5° increments)

Measurable Minimum

Pupil Diameter 2mm

Chart Scenery chart (balloon target)

Radius Curvature 5.00 to 13.00mm (0.01mm increments)

Refractive power 25.96D to 67.50D (n=1.3375), (0.01/0.12/0.25D increments)

Astigmatism 0D to ±12.00D (0.01/0.12/0.25D increments)

Axis 0° to 180° (1°/5° increments)

Auto Tracking

& Auto Shooting X-Y-Z direction, Auto Shooting

PD Measurable Range 30.00mm to 85.00mm (indication increments: 1mm)

Corneal Size (CS) 8.1mm-14.6mm (indication increments: 0.1mm)

Pupil Measurable Range 0.8mm-12.1mm (indication increments: 0.1mm)

YNON-CONTACT TONOMETER

Measurement Range 1mmHg to 60mmHg

Measurement Range Settings APC40, APC60 (APC=Automatic Puff Control)

40, 60 Standard PC puff does not automatically adjust

Working Distance 11.0mm

Eye Fixation Inner Fixation Light

Auto Tracking & Auto Shooting X-Y-Z direction, Auto Shooting

GENERAL INFORMATION

Monitor Tiltable 5.7 inch color LCD

Printer Thermal line printer with automatic paper cutter

Power Supply AC100-240 V±10%

Power Consumption 100VA

Dimensions & Weight 10.23"(W) x 18.93"(D) x 19.9"(H) / 50.7 lbs.

Standard Accessories Spare printer paper, Chinrest paper, Fixing pins, Power cord,

Dust cover, Model eye.

The TONOREFII (M3) is manufactured by Nidek





