

THE LEADER IN VISION DIAGNOSTICS°

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.

SPACE SAVING

Compact & Efficient

The M3 provides auto refraction, keratometry, and tonometry, while saving space and offering greater efficiency, as well as patient convenience. It eliminates the need for multiple instruments. Also, the M3 interfaces with EMR.

© FAST AND ACCURATE

High-Speed & Reliable Measurement

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

EYETRACKING SYSTEM

The M3 initiates

automatic

measurement

at the optimum

measurement point.

© FULLY AUTOMATIC

EyeTracking System

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

When the alignment is in the proper position,

measurement begins automatically.

OUSER 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 will still be able to be viewed.



TILTABLE LCD

New Easy-Load Paper

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

Simply open door, drop in paper, and go. No spool or feed to put paper through.



EASY-LOAD PAPER

Motorized Chinrest

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



ADJUSTABLE MOTORIZED CHINREST

® BALLOON TARGET

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





BALLOON TARGET

TARGET WITH FOG



COLOR ALIGNMENT INDICATORS



AUTO MEASUREMENT



RING DISPLAY



TONOMETRY READINGS

OPATIENT FRIENDLY

Gentle Air

The new M3 has an advanced APC (Automatic Pressure Control) function which provides a softer puff of air for IOP measurement and increased patient comfort.

Patient Detection Sensor

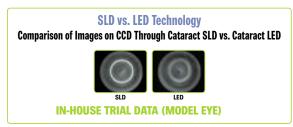
When a patient is in front of the unit, the chinrest will not move during calibration and initialization.

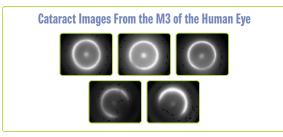
ADDITIONAL MEASUREMENTS

SLD vs. LED Technology.

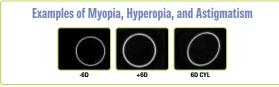
Competitors' utilization of LED technology to measure the refractive power of the optical system presents disadvantages including poor penetration of the LED through media opacities, limited data and accuracy of patients measured.

What's the difference?





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 that is closer to manifest refraction.



◎ NON-CONTACT TONOMETRY

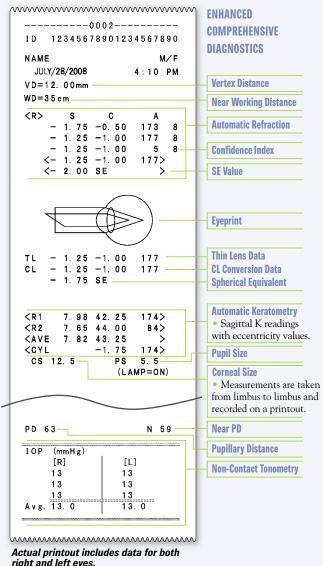
The M3 non-contact tonometry requires no sterilization. The automatic NCT measurements are operator independent, repeatable, and reproducible. Training is quick and easy.



PRINTOUT

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







AUTO REFRACTOR/KERATOMETER

Measurable Range

Sphere Cylinder -30.00D to +25.00D (V.D. =12mm),(0.01/0.12/0.25D increments) 0D to ±12D (0.01/0.12/0.25D increments)

0° to 180° (1°/5° increments)

Measurable Minimum

Pupil Diameter

2mm Scenery chart (balloon target)

5.00 to 13.00mm (0.01mm increments)

Radius Curvature 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)

0° to 180° (1°/5° increments)

Axis **Auto Tracking**

& Auto Shooting

X-Y-Z direction, Auto Shooting

PD Measurable Range Corneal Size (CS) Pupil Measurable Range 30.00mm to 85.00mm (indication increments: 1mm) 8.1mm-14.6mm (indication increments: 0.1mm)

0.8mm-12.1mm (indication increments: 0.1mm)

NON-CONTACT TONOMETER

Measurement Range

Measurement Range

1mmHg to 60mmHg

Setting

APC40, APC60 (APC=Automatic Puff Control)

Working Distance 11.0mm

Eye Fixation

Auto Tracking & **Auto Shooting** Inner Fixation Light

X-Y-Z direction, Auto Shooting

©GENERAL INFORMATION

Tiltable 5.7 inch color LCD Monitor

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 for Marco.





