

MR- 6000

*Multifunction
Unit*





Simplicity meets variety

The versatile multifunctional unit for eye examinations can:

- + Determine the objective refraction
- + Visualise the corneal shape
- + Assess the IOP and C.IOP as part of glaucoma screening
- + Measure the central corneal thickness
- + Observe dry-eye



You + eye.
We care.



“IT’S APPEALING TO
WORK WITH HIGH-END
TECHNOLOGY DEVICES
AND LEARN ABOUT THEIR
BENEFITS FOR MEDICAL
TREATMENT.”

Katharina Koriski

TECHNICAL DEPARTMENT
ENGINEER

MR-6000

Multifunction Unit

The MR-6000 delivers a smart combination of five different eye examinations and a Dry Eye observation app. Along with the advantage of automatic alignment, this means that the MR-6000 speeds up your workflow and makes it more efficient.



Five functions in one system

This multifunction unit includes objective refraction, keratometry, topography, tonometry, and pachymetry. In addition, the Dry Eye observation app completes the powerful 5 + 1 system.



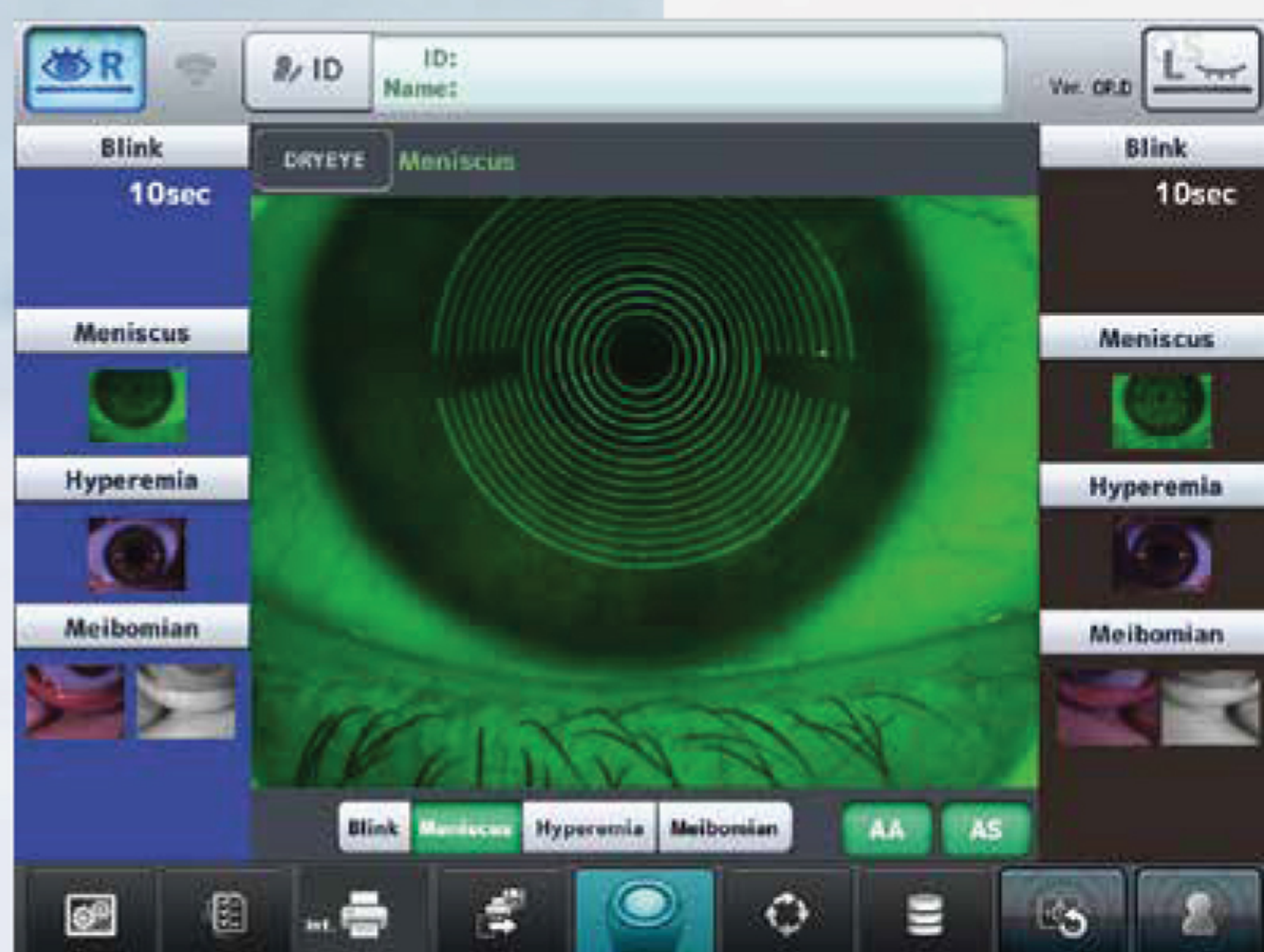
Quick refraction mode

The quick refraction mode supports refraction values to be obtained within seconds despite fixation loss: for example, for patients with nystagmus, children, or uncooperative patients.



Corrected IOP

A new generation of air-flow technology delivers a patient-friendly and gentle air puff. The automated IOP correction mode utilizes pachymetry values to correct the IOP.



+ Dry-eye application

Blinking frequency, tear meniscus height, hyperemia, and Meibomian gland observation all help assess dry eye.



+ Topography

16 Mire rings examine an area 8 mm in diameter. A number of topography maps, including Fourier analysis, provide a wide range of options for visualising corneal shape.

+ Wide range alignment by image recognition

Refined auto alignment and auto shot support the operator during the examination.



+ Measurement cone interchange in just 4 sec

Electrical cone interchange enables rapid switching between the measurement modes.

+ Pupil and corneal diameter

The diameters of pupil and cornea (WTW) are measured with each topography. Manual correction allows the user to adjust the measurement points.

Specifications



REFRACTIVE POWER MEASUREMENT

Spherical power	-30.00 D to +25.00 D (at VD = 12.00 mm)
Cylindrical power	0.00 D to ± 12.50 D (at VD = 12.00 mm)
Astigmatic axis	0° to 180°
Minimum pupil diameter	2.0 mm

KERATOMETRY MEASUREMENT

Corneal curvature radius	5.00 mm to 13.00 mm
Corneal astigmatic axis	0° to 180°

INTRAOCULAR PRESSURE MEASUREMENT

Measurement range	1 mm Hg to 60 mm Hg (1 hPa to 80 hPa)
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PACHYMETRY MEASUREMENT

Measurement range	300 μ m to 800 μ m
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TOPOGRAPHY MEASUREMENT

Corneal curvature radius	5.50 mm to 10.00 mm
Corneal astigmatic axis	0° to 180°

AUXILIARY FUNCTION

Interpupillary distance	20 mm to 85 mm
Corneal diameter and pupil diameter	1.00 mm to 14.00 mm
Dry-eye application	Blinking frequency, tear meniscus height, hyperemia, Meibomian glands

DATA MANAGEMENT

Internal database	Integrated SD card
Printer	Integrated thermal printer
Data output type	3x USB 2.0, 1x Ethernet, 1x SD card slot, 1x WLAN (not available in all countries)
Export format	DCM, XML, CSV, JPG, PDF

DIMENSIONS AND ELECTRICAL REQUIREMENTS

Dimensions WDH	312 x 491 x 450 mm
Weight	approx. 23 kg
Voltage	100 VAC to 240 VAC
Frequency	50/60 Hz
Power consumption	110 VA
Laser class	Class 1

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