Subjective refraction

HDR-9000

Digital refractor for subjective examination and measurement transfer.

The Huvitz HDR-9000 digital phoropter combines advanced technology and ergonomics. Precise measurements and intelligent functions are designed to improve consultations and diagnostic assessment while providing a comfortable patient experience.



HDR-9000 · Equipment view

Sources and documentation

Request a quote

View product

Generated on 2026-11-29

> This product sheet is prepared by ASEM. It does not replace the manufacturer’s official documentation or instructions for use.

Key advantages

Subjective refraction

Sphere from −29 to +26.75 D for visual examination.

Sources and documentation · Source checked on 2026-10-05

Prism correction

Prism power up to 20 Δ.

Sources and documentation · Source checked on 2026-10-05

Wireless connection

Data exchange through Wi-Fi or RS-232.

Sources and documentation · Source checked on 2026-10-05

Guide subjective refraction

The displayed workflow organises refraction steps and practitioner choices.



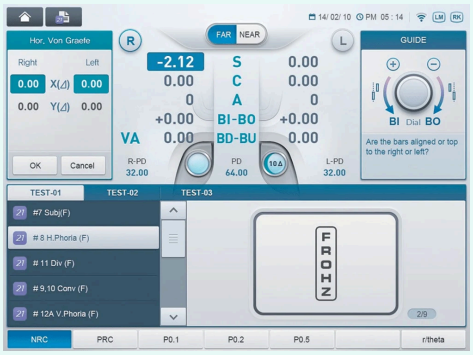
HDR-9000 · Hardware detail

Sources and documentation

Sources and documentation · Source checked on 2026-08-30

Control from one interface

Core controls are grouped to limit interruptions during the examination.



HDR-9000 · Manufacturer interface

Manufacturer illustration: the configuration shown may differ from the delivered configuration.

Sources and documentation

Sources and documentation · Source checked on 2026-08-30

Compare corrections

The structured presentation supports comparison of correction options with the patient.



HDR-9000 · Hardware detail

Sources and documentation

Sources and documentation · Source checked on 2026-08-30

Objective measurement

A workflow dedicated to refraction data acquisition.

Organised settings

Useful information remains accessible in the interface.

Connected flow

Results can join the practice refraction workflow.

Capabilities in practice

Subjective refraction

Sources and documentation

Refine cylinder axis and power

HDR-9000 provides Jackson and dual cross-cylinder lenses. Lens changes support subjective comparison of astigmatic axis and power.

- Jackson cross cylinder.
- Dual cross cylinder for comparison.



HDR-9000 · Hardware detail

Sources and documentation

Sources and documentation

HDR-9000: A new era in ophthalmic diagnostics

The Huvitz HDR-9000 digital phoropter combines advanced technology and ergonomics. Precise measurements and intelligent functions are designed to improve consultations and diagnostic assessment while providing a comfortable patient experience.

Main features

1. Advanced digital technology:
Smooth transitions between different visual correction options support quick, precise results.

2. Large, intuitive touchscreen:
A high-resolution screen facilitates navigation and parameter control for an efficient diagnostic process.

3. Connectivity and compatibility:
Integration with Huvitz refractometers and other instruments simplifies data management and synchronisation.

4. Automated, customisable settings:
The HDR-9000 adjusts parameters automatically while retaining flexibility for individual patient requirements.

5. Greater patient comfort:
Ergonomic design and smooth operation reduce discomfort during prolonged testing.

Key technical specifications

Vision tested: distance, near and intermediate vision.
Progressive lens compatibility: yes, with optimised transitions.
Test modes: includes acuity, binocular vision and advanced refraction tests.
Connectivity: compatible with EMR systems and Huvitz instruments.

Benefits for professionals

Efficient consultations: automation and a fast, responsive interface save time.

Improved diagnostic assessment: more reliable, reproducible results support precise patient monitoring.

Enhanced patient experience: less visual fatigue and greater comfort during tests contribute to overall satisfaction.

HDR-9000: Everyday technology for your practice

Take your practice further with the HDR-9000. This innovative digital phoropter offers performance designed to meet practitioners' and patients' expectations.

Designed for a smoother workflow

Structure a 21-point examination

The 21-point sequence organises refraction steps. Values are shown as charts and graphs on the control panel for review with the patient.

- Structured 21-point refraction sequence.
- Review of values on the control panel.



HDR-9000 · Manufacturer interface

Manufacturer illustration: the configuration shown may differ from the delivered configuration.

Sources and documentation

Sources and documentation

Designed for daily practice

Adjust the near-vision posture

The head tilts up to 45° for near work. Monocular height adjustment of ±3 mm adapts the position of the two eye apertures.

- Head tilt up to 45° for near work.
- Monocular height adjustment of ±3 mm.

Sources and documentation

Retrieve refraction-station data

Wireless communication brings together results from compatible Huvitz devices to prepare subjective examination.

Depending on configuration

- Documented exchange with the auto ref-keratometer.
- Communication with the HLM-9000 lensmeter.



HDR-9000 · Hardware detail

Sources and documentation

Sources and documentation

Technical specifications & documentation

Brand
Huvitz

Model
HDR-9000

Technology
Refractor / auto-refractor

Clinical use
Diagnostics and biometry

Minimum sphere
-29 D

Standard examination; reduced range during XC / prism tests.

Sources and documentation

Maximum sphere
26.75 D

Standard examination.

Sources and documentation

Maximum cylinder
8.75 D

Sources and documentation

Maximum prism
20 Δ

Sources and documentation

Connectivity
Wi-Fi · RS-232

Sources and documentation

Adjustment ranges

Tilt 45°; monocular height ±3 mm

Sources and documentation

Power supply

100–240 V AC ; 50–60 Hz

Sources and documentation

Dimensions

329 × 103 × 296 mm

Refractor head only; panel and control box excluded.

Sources and documentation

Weight

4.2 kg

Refractor head only.

Sources and documentation

Standard examination; reduced range during XC / prism tests.

Standard examination.

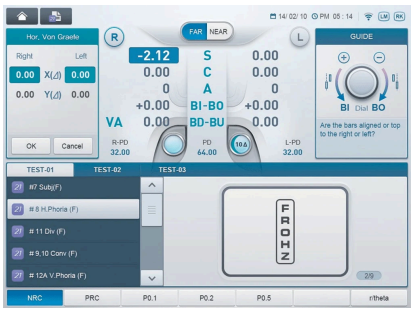
Refractor head only; panel and control box excluded.

Refractor head only.



HDR-9000 · Hardware detail

Sources and documentation



HDR-9000 · Manufacturer interface

Manufacturer illustration: the configuration shown may differ from the delivered configuration.

Sources and documentation



HDR-9000 · Hardware detail

Sources and documentation

Downloads & resources

- https://huvitz.com/wp-content/uploads/2024/09/HDR-9000_8p_eng_20180330.pdf
  Source checked on 2026-10-05
- https://huvitz.com/ko/product/hdr-9000/
  Source checked on 2026-10-05
- https://huvitz.com/en/product/hdr-9000/
  Source checked on 2026-08-30
- https://huvitz.com/ko/product/hdr-9000/
  Source checked on 2026-10-18

Your questions about HDR-9000

What is the documented Minimum sphere of HDR-9000?

-29 D — Standard examination; reduced range during XC / prism tests.

Sources and documentation

What is the documented Maximum sphere of HDR-9000?

26.75 D — Standard examination.

Sources and documentation

Which configuration should I confirm for HDR-9000?

Standard examination; reduced range during XC / prism tests.

Sources and documentation

Which devices are named for Wi-Fi transfer?

The manufacturer names data exchange with its auto ref-keratometer and HLM-9000. The devices and practice-network integration need to be specified in the configuration.

Sources and documentation

How does the head adapt to near examination?

It tilts up to 45°. Monocular height adjustment of ±3 mm also aligns the apertures with the eyes.

Sources and documentation

What is the 21-point presentation used for?

It organises the refraction sequence and presents values in charts and graphs on the control panel for review during examination.

Sources and documentation

Related products



Refractor 900

Haag-Streit

Subjective refraction

Refractor for subjective refraction with connectivity.

View product



HDR-7100P

Huvitz

Subjective refraction

Refractor for distance and near subjective examination.

View product

Explore the ASEM clinical catalogue

Browse related areas of the ASEM catalogue. These links do not extend the indications of this device.

Diagnostics and biometry

More than a device, a long-term partnership

Discuss your project with ASEM: equipment selection, installation, training and technical support.



Service illustration

Installation

Discuss the installation requirements and configuration with our technical team.

Learn more

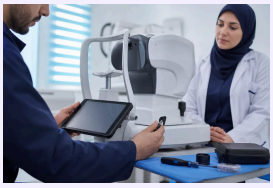


Service illustration

Training

Ask about the training and familiarisation available for your equipment.

Learn more



Service illustration

After-sales service

Contact ASEM for technical assistance and the support appropriate to your equipment.

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Service illustration

Expert advice

Tell us about your clinical needs to discuss a suitable equipment selection.

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