Perimetry and visual fields

HVF-100

Visual field assessment with white-on-white static perimetry.

Blind spot testing, horizontal visual angle assessment and programs for neurological eye conditions support assessment and monitoring of optic nerve disorders, glaucoma, visual impairment and retinal disease.



HVF-100 · Equipment view

Sources and documentation

Request a quote

View product

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

Key advantages

Static perimetry

White-on-white visual field examination.

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

Field up to 90°

Perimetric examination of fields up to 90°.

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

Goldmann III stimulus

Goldmann III stimulus size for visual field tests.

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

Capabilities in practice

White-on-white static perimetry

Sources and documentation

Explore the static visual field

HVF-100 presents white Goldmann III stimuli on a white background. The specification gives a maximum 90° field and a 1–10,000 asb intensity range.

- White Goldmann III stimulus on a white background.
- Background: 31.5 asb; maximum field: 90°.

Sources and documentation

Define stimulus parameters

The static protocol uses the documented intensity, duration and position parameters.

- Intensity from 1 to 10,000 asb; display from 0 to 40 dB.
- 200 ms/adaptive duration; 456 available positions.

Sources and documentation

Precise measurement

Measurement conforming to Goldmann standards assesses the visual field with different stimulus sizes and intensities against white and black backgrounds, measuring visual sensitivity and extent.

Test programs

Blind spot testing, horizontal visual angle assessment and neurological eye test programs are included to assess and monitor conditions such as optic nerve disorders, glaucoma, visual impairment and retinal disease.

Convenient measurement

Automatic OD/OS recognition alerts the operator to help prevent examination errors.

The system automatically measures pupil diameter during testing to correct visual errors and provides spoken guidance through the test for convenient measurement.

Technical specifications

Displayed dB range: 0-40db.

Stimulus intensity range: 1asb-10000asb.

Stimulus size: Goldmann III.

Stimulus colour: white.

Stimulus duration: 200ms/adaptive.

Maximum measurement field: 90°.

Test distance: 30cm.

Test mode: static.

Number of stimulus locations: 456 points.

Stimulus plane: aspherical surface.

White background luminance: 31.5asb (10cd/m^2).

Custom test program.

Automatic eye recognition.

Blind spot area test.

Stimulus source: LED.

Designed for a smoother workflow

Monitor fixation during the test

The brochure combines Heijl/Krakau blind-spot monitoring, an eye video monitor and gaze tracking. These indicators support review of result reliability.

- Heijl/Krakau blind-spot monitoring.
- Eye video, head tracking and gaze tracking.

Sources and documentation

Adjust positioning from the station

The chinrest and forehead rest move together during positioning adjustment.

- Controls through touchscreen, keyboard/mouse or buttons.
- Automatic eye-position calibration.

Sources and documentation

Designed for daily practice

Review a structured perimetry report

Report examples present the single field, deviations and indices including MD, PSD, GHT and VFI. The manufacturer illustrates monocular and binocular reports.

- Single-field and deviation presentation.
- Illustrated indices: MD, PSD, GHT and VFI.

Sources and documentation

Technical specifications & documentation

Stimulus sizes
Goldmann III

Sources and documentation

Maximum stimulus intensity
10000 asb

Sources and documentation

Maximum test field
90 °

Sources and documentation

Connectivity
Ethernet · Wi-Fi

Sources and documentation

Power supply
100–240 V AC ; 50–60 Hz

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Dimensions
480 × 430 × 528 mm

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Weight
14 kg

Sources and documentation

Downloads & resources

- https://huvitz.com/wp-content/uploads/2025/02/230717HVF-100_eng_v2.pdf
  Source checked on 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/230717HVF-100-%EC%8B%9C%EC%95%BC%EA%B3%84_eng_v2_%EC%97%B4%EB%9E%8C.pdf
  Source checked on 2026-10-18

Your questions about HVF-100

What is the documented Stimulus sizes of HVF-100?

Goldmann III

Sources and documentation

What is the documented Maximum stimulus intensity of HVF-100?

10000 asb

Sources and documentation

Does this specification describe kinetic perimetry?

The HVF-100 specification lists a static test mode. It does not establish a kinetic protocol for this instrument.

Sources and documentation

Which indicators help review fixation?

The manufacturer describes Heijl/Krakau monitoring, eye video, head and gaze tracking, and the tracking curve. These complement the report indicators.

Sources and documentation

Which stimulus is documented?

The specification gives a white Goldmann III stimulus lasting 200 ms or adaptively, on a 31.5 asb white background. The test mode is static.

Sources and documentation

Related products



Octopus 600

Haag-Streit

Perimetry and visual fields

Perimeter combining SAP static perimetry and Pulsar perimetry.

View product



Octopus 900

Haag-Streit

Perimetry and visual fields

Static perimetry; other capabilities depend on the configuration.

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.



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Installation

Discuss the installation requirements and configuration with our technical team.

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Training

Ask about the training and familiarisation available for your equipment.

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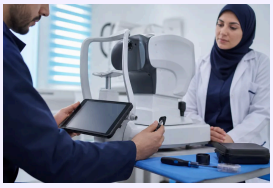

Service illustration

After-sales service

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

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Service illustration

Expert advice

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