Fundus imaging

HFC-1

Non-mydriatic fundus imaging with panorama acquisition.

The HFC-1 non-mydriatic fundus camera combines high-resolution retinal imaging with fast analysis and automated functions. A colour camera and panoramic imaging without pupil dilation support straightforward operation with a flexible fixation target. Reliable, precise and fast, the HFC-1 supports high-quality diagnostic assessment.



HFC-1 · Equipment view

Sources and documentation · Source checked on 2026-10-18

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

Non-mydriatic imaging

Retinal image acquisition with a 45° field.

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

Panorama view

Panoramic stitching of fundus images.

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

Small pupil

Acquisition from a pupil diameter of 3.3 mm.

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

Document the retina

The high-definition colour image provides a clear basis for observation and follow-up.

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

Adjust image review

Brightness, contrast and gamma controls support review of the acquired image.

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

Build a panoramic view

The panorama function combines captures to document a wider retinal area.

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

Retinal imaging

Acquisition dedicated to fundus documentation.

Guided acquisition

The workflow helps the team frame and record examinations.

Documented follow-up

Images support comparison between examinations.

Capabilities in practice

Non-mydriatic fundus photography

Sources and documentation

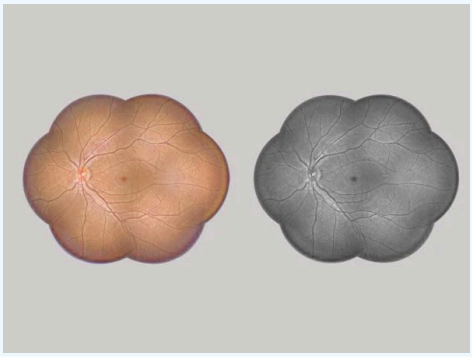
Panorama

Sources and documentation

From single capture to panorama

The panorama function stitches fundus images captured at different positions. An adjustable fixation target helps select the photographed areas.

- Captures at several fixation positions.
- Image stitching in the panoramic presentation.



HFC-1 · Manufacturer capture

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

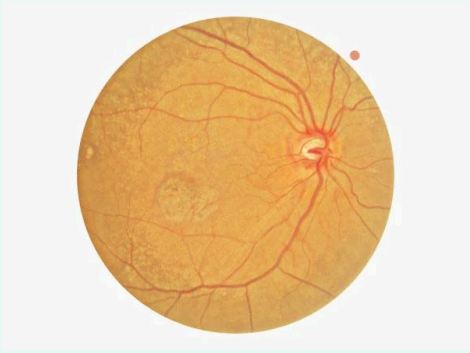
Sources and documentation

Sources and documentation

Capture the non-mydriatic fundus

The fundus camera captures a 45° image using the on-screen fixation targets. Small-pupil mode adapts acquisition to pupil diameter.

- Minimum pupil: 4.0 mm in normal mode, 3.3 mm in small-pupil mode.
- Internal fixation target and external white-LED target.



HFC-1 · Manufacturer capture

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

Sources and documentation

Sources and documentation

Fundus camera with integrated PC and high-resolution imaging

Automatic pupil size detection.

Automatic flash adjustment.

Panoramic function for peripheral viewing.

Comprehensive overview images

Detailed zoom options.

Facilitates viewing, analysis and assessment through RGB imaging modes and biometry functions.

Technical specifications

Non-mydriatic.

Resolution: 60 lines/mm.

Viewing angle: 45°.

Camera: colour image sensor.

Minimum pupil diameter:
4.0 mm (normal mode), 3.3 mm (small-pupil mode).

Flash: white light.

Working distance: 33 mm.

Dioptric compensation for the patient's eye:
-33D ~ +33D in total.

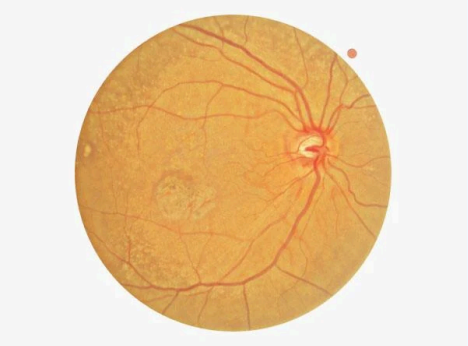
Automatic eye tracking:
X and Y axes for positioning, Z axis for working distance.

Designed for a smoother workflow

Automate tracking and capture

Automatic tracking and shooting support non-mydriatic acquisition. The brochure describes small-pupil handling without a manual mode change.

- Automatic tracking and automatic shooting.
- Small-pupil operation without the described manual mode change.



HFC-1 · Manufacturer capture

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

Sources and documentation

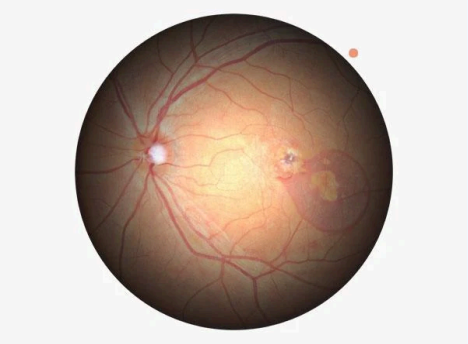
Sources and documentation

Designed for daily practice

Review through the integrated system

Colour, blue, red, red-free and cobalt modes provide complementary presentations of the fundus photograph.

- Image-mode selection after acquisition.
- EVT visualisation technology described by Huvitz.



HFC-1 · Manufacturer capture

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

Sources and documentation

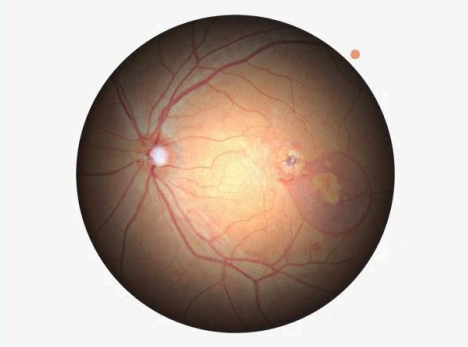
Sources and documentation

Review images on the device

The built-in PC and touchscreen allow work directly at the acquisition station.

Depending on configuration

- 12.1-inch touchscreen.
- Browser review and DICOM interface according to network configuration.



HFC-1 · Manufacturer capture

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

Sources and documentation

Sources and documentation



HFC-1 · Equipment view

Sources and documentation

Technical specifications & documentation

Brand
Huvitz

Model
HFC-1

Technology
Fundus imaging

Clinical use
Imaging and OCT

Field of view
45 °

Sources and documentation

Central resolution
60 lignes/mm

Manufacturer’s minimum value.

Sources and documentation

Minimum pupil diameter
3.3 mm

Small-pupil mode; normal mode 4 mm.

Sources and documentation

Software
HIIS-1

Sources and documentation

Adjustment ranges
Longitudinal 70 mm; lateral 100 mm; vertical 30 mm

Sources and documentation

Power supply
100–240 V AC ; 50–60 Hz

Sources and documentation

Dimensions
330 × 542 × 521 mm

Sources and documentation

Weight
28 kg

Sources and documentation

Manufacturer’s minimum value.

Small-pupil mode; normal mode 4 mm.

Downloads & resources

- https://www.huvitz.com/product/hfc-1/
  Source checked on 2026-10-05
- https://huvitz.com/en/product/hfc-1/
  Source checked on 2026-08-30
- https://huvitz.com/wp-content/uploads/2024/10/HFC-1_4p_eng_200420.pdf
  Source checked on 2026-10-18
- https://huvitz.com/wp-content/uploads/2024/10/HFC-1_4p_eng_200420.pdf
  Source checked on 2026-10-18

Your questions about HFC-1

What is the documented Field of view of HFC-1?

45 °

Sources and documentation

What is the documented Central resolution of HFC-1?

60 lignes/mm — Manufacturer’s minimum value.

Sources and documentation

Which configuration should I confirm for HFC-1?

Manufacturer’s minimum value.

Sources and documentation

Does HFC-1 produce OCT sections?

HFC-1 is a fundus camera. It provides photographs, viewing modes and panoramas; the brochure does not describe it as a tomographic OCT instrument.

Sources and documentation

How is the panoramic image produced?

It is stitched from several photographs acquired at different fixation positions. It is distinct from a single 45° photograph.

Sources and documentation

Is an external computer needed for local acquisition?

HFC-1 includes a built-in PC and a 12.1-inch touchscreen. Network and DICOM review require the corresponding installation to be configured.

Sources and documentation

Related products



HOCT-1 / HOCT-1F

Huvitz

OCT and imaging

Spectral OCT and non-mydriatic fundus imaging in one platform.

View product



OCTavius

Huvitz

OCT and imaging

Five examinations in one ophthalmic imaging platform.

View product

Explore the ASEM clinical catalogue

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

Imaging and OCT

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

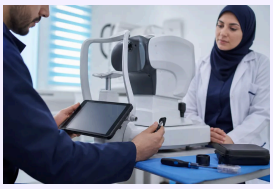


Service illustration

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.

Learn more



Service illustration

Expert advice

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

Learn more

Contact a specialist | Explore all products | Manufacturer website

+21320092281 · direction@asem-medical.com

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