OCT and imaging

HOCT-1 / HOCT-1F

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



HOCT-1 / HOCT-1F · 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

Spectral OCT

7 µm axial resolution for OCT imaging.

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

Integrated fundus imaging

Fundus photography without pupil dilation.

HOCT-1F only

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

Image management

Examination management with HIIS-1 software.

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

Review a structured report

Views and measurements are organised in a report designed to support comparison.

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

Structured imaging

Acquisitions brought together in a coherent reading environment.

Streamlined workflow

A workflow designed to move efficiently from acquisition to analysis.

Documented follow-up

Organised data for comparing examinations over time.

Capabilities in practice

Spectral-domain OCT

Fundus imaging on HOCT-1F only. Optional biometry, topography and angiography are not assumed included.

Sources and documentation

Non-mydriatic fundus photography

Fundus imaging on HOCT-1F only. Optional biometry, topography and angiography are not assumed included.

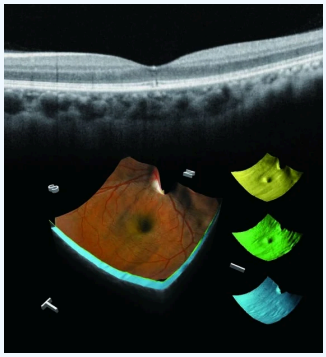
Sources and documentation

Explore OCT sections and volumes

Spectral OCT provides macular and disc protocols: lines, radial scans, volumes and rasters. The brochure specifies a maximum of 68,000 A-scans/s.

2021 brochure · generation to confirm

- 840 nm spectral OCT.
- Maximum speed: 68,000 A-scans/s.



HOCT-1 / HOCT-1F · Manufacturer capture

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

Sources and documentation

Sources and documentation

Add fundus photography in the 1F version

The HOCT-1F version adds a 45° non-mydriatic fundus camera. The selected configuration specifies the instrument version and photographic sensor.

HOCT-1F only

- 45° non-mydriatic camera for HOCT-1F.
- 12 M or 20 M sensor depending on the documented variant.

Sources and documentation

View vascular networks with OCTA

The OCT angiography module provides vascular views and the analysis tools described in the brochure.

Optional

- OCTA scan fields from 3 to 9 mm.
- FAZ and vessel-density analysis.

Sources and documentation

Add biometric distances

The biometry module adds longitudinal measurements used in the biometric assessment.

Optional

- Axial length and central corneal thickness.
- Chamber depth, lens thickness and white-to-white.

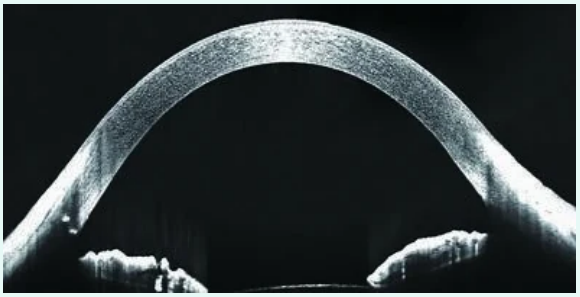
Sources and documentation

Explore the anterior segment

The anterior adapters extend examination to the anterior region of the eye.

Optional

- Regular field from 6 to 9 mm depending on the adapter.
- 16 mm wide anterior-field adapter.



HOCT-1 / HOCT-1F · Manufacturer capture

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

Sources and documentation

Sources and documentation

High-speed OCT

With a speed of 68,000 A-scans per second and high-resolution images, it provides information on 3D retinal structure, macular thickness and differentiation.

Analysis with tables and graphs

Combines patient symptoms, disease and progression information to monitor pathological changes, compare before and after treatment, and examine conditions from different perspectives using key indicators and normative data.

Panoramic imaging

Captures panoramic colour images and uses biometric tools combining relief magnification, accurate RGB colours and optimised contrast and saturation, with detailed assessment of structures such as the cup-to-disc ratio.

Analysis software

Integrated tables and graphs support detailed analysis: symptom monitoring, disease progression, before/after treatment comparison using Compare, and key indicator analysis against normative data.

Web-based functions

Multiple users can remotely access progression, comparative and 3D analysis and diagnostic assessment.

Designed for a smoother workflow

Choose assessment extensions

OCT angiography, biometry and topography are listed as optional. Anterior-segment adapters are also separate options to specify in the configuration.

Optional

- OCTA, biometry and topography are options.
- Anterior adapters are selected separately.



HOCT-1 / HOCT-1F · Manufacturer capture

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

Sources and documentation

Sources and documentation

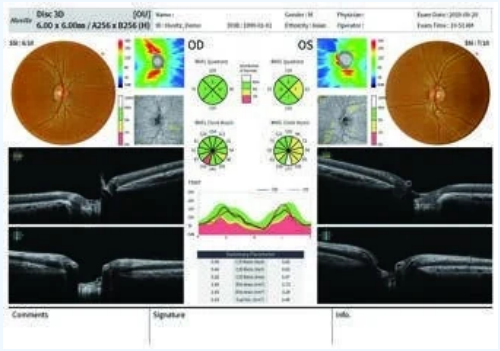
Designed for daily practice

Compare volumes and examinations

The HIIS-1 environment described in the brochure supports data review and comparative and three-dimensional analyses.

Depending on configuration

- HIIS-1: multi-user web access.
- Progression, comparison and 3D analysis.



HOCT-1 / HOCT-1F · Manufacturer report

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

Sources and documentation

Sources and documentation

Technical specifications & documentation

Brand
Huvitz

Model
HOCT-1 / HOCT-1F

Technology
OCT and imaging

Clinical use
Imaging and OCT

Axial resolution
7 µm

Resolution in tissue, index 1.36; digital screen resolution is not substituted.

Sources and documentation

Connectivity
USB ×2 · DisplayPort · RGB · LAN ×2

Sources and documentation

Software
HIIS-1

Sources and documentation

Adjustment ranges
Vertical 30 mm; motorised chin rest 62 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
30 kg

Sources and documentation

Resolution in tissue, index 1.36; digital screen resolution is not substituted.

Downloads & resources

- https://huvitz.com/wp-content/uploads/2025/02/HOCT-1F_24p_eng_210129.pdf
  Source checked on 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/HOCT-1F_24p_eng_250103.pdf
  Source checked on 2026-08-30
- https://huvitz.com/en/product/hoct-1-1f/
  Source checked on 2026-08-30
- https://huvitz.com/wp-content/uploads/2025/02/HOCT-1F_24p_eng_210129.pdf
  Source checked on 2026-10-18

Your questions about HOCT-1 / HOCT-1F

What is the documented Axial resolution of HOCT-1 / HOCT-1F?

7 µm — Resolution in tissue, index 1.36; digital screen resolution is not substituted.

Sources and documentation

What is the documented Connectivity of HOCT-1 / HOCT-1F?

USB ×2 · DisplayPort · RGB · LAN ×2

Sources and documentation

Which configuration should I confirm for HOCT-1 / HOCT-1F?

Resolution in tissue, index 1.36; digital screen resolution is not substituted.

Sources and documentation

Are all five modalities included?

No. The brochure distinguishes HOCT-1/HOCT-1F hardware and the angiography, biometry and topography options. The fundus camera is specified for HOCT-1F; the configuration needs to be itemised.

Sources and documentation

Which version has the fundus camera?

The brochure assigns the 45° non-mydriatic camera to HOCT-1F. The sensor can be 12 M or 20 M depending on configuration; HOCT-1 must remain distinguished from that version.

Sources and documentation

Is OCT angiography a standard function?

It is listed as optional, as are biometry and topography. Software modules and adapters must be included in the selected configuration.

Sources and documentation

Related products



OCTavius

Huvitz

OCT and imaging

Five examinations in one ophthalmic imaging platform.

View product



HFC-1

Huvitz

Fundus imaging

Non-mydriatic fundus imaging with panorama acquisition.

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.

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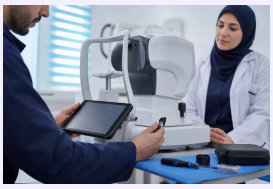
Training

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

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