Visual tests and charts

HDC-7000

Digital visual tests for refraction and binocular vision.

HDC-7000 is a Huvitz visual chart system with chart software, remote control and receiver. The current manufacturer page describes 41 charts and support for different monitor sizes. Examination distance and optotype size are calibrated to the actual configuration. Monitor and computer requirements must be specified with ASEM; no fixed-size screen or computer shown in the photographs is advertised as included.



HDC-7000 · Equipment view

Sources and documentation

Request a quote

View product

Generated on 2026-11-23

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

Key advantages

Binocular vision

Stereopsis, fusion and fixation disparity tests.

Sources and documentation · Source checked on 2026-10-06

Customisable tests

Contrast, masks, red/green and mirrored presentation.

Sources and documentation · Source checked on 2026-10-06

PC-based installation

Tests on a compatible PC and screen to be specified.

Separate PC and screen

Sources and documentation · Source checked on 2026-10-06

Capabilities in practice

Visual testing

Sources and documentation

Binocular balance

Sources and documentation

Stereopsis

Sources and documentation

Fixation disparity

Sources and documentation

Fusion

Sources and documentation

Present binocular-vision tests

The 41 charts include binocular balance, aniseikonia, stereopsis and fusion. Masks and red/green adjustments extend presentation on a compatible screen.

- Binocular balance, aniseikonia, stereopsis and fusion.
- 41 charts in the documented library.

Sources and documentation

Designed for a smoother workflow

Calibrate distance and mirror mode

Test distance adjusts from 2.5 to 6 m in 0.1 m steps. Mirror mode supports smaller-room installation with optical-path calibration.

- Distance from 2.5 to 6 m in 0.1 m steps.
- Mirror mode to adapt the optical path.

Sources and documentation

Select the mask and presentation settings

The remote selects the chart area to display and the contrast and colour settings.

- Single-optotype, horizontal-row or column mask.
- Contrast and red/green balance adjustment.

Sources and documentation

Designed for daily practice

Prepare sequences on a compatible installation

Chart order can be programmed and characters displayed randomly. HDC-7000 is a software-and-control solution: the PC, screen and their compatibility must be defined.

Separate PC and screen

- Programmable order for frequently used charts.
- 17-, 19-, 20-, 23- and 24-inch screens in the brochure.

Sources and documentation

Connect the PC and refractor control

The brochure describes receiver interfaces and compatible refractors of this generation.

- USB connection to the PC and CAN to HDR/CDR.
- Documented compatibility with HDR-7000 and CDR-3100.

Sources and documentation

Calibrating distance and display

Examination distance adjusts from 2.5 to 6 m in 0.1 m increments. Documented compatible monitor sizes are 17, 19, 20, 23 and 24 inches; actual dimensions and resolution must be considered during calibration. Mirror mode supports small-room configurations without eliminating the need to verify optical distance.

Sources and documentation

Defining the configuration with ASEM

The chart system must be configured with a suitable computer and monitor. The official photograph illustrates one possible installation and does not prove that this computer is supplied. Software compatibility and operating system versions must be confirmed for the proposed configuration rather than copied from an old brochure.

Sources and documentation

Technical specifications & documentation

Minimum distance
2.5 m

Sources and documentation

Maximum distance
6 m

Sources and documentation

Display
Compatible 17, 19, 20, 23 or 24-inch monitors; display to be specified, no fixed panel included

Sources and documentation

Connectivity
USB to PC · CAN/IR to HDR/CDR · Infrared remote control

Sources and documentation

Adjustment ranges
Screen calibration; distance in 0.1 m increments; contrast, red/green, mask, random and mirror

Sources and documentation

Power supply
USB receiver 5 V, 100 mA, 0.5 W; PC and monitor powered separately

Sources and documentation

Downloads & resources

- https://www.huvitz.com/product/hdc-7000/
  Source checked on 2026-10-06
- https://huvitz.com/wp-content/uploads/2024/10/HDC-7000_2p_eng_20080828.pdf
  Source checked on 2026-10-18

Your questions about HDC-7000

What is the documented Minimum distance of HDC-7000?

2.5 m

Sources and documentation

What is the documented Maximum distance of HDC-7000?

6 m

Sources and documentation

Does the brochure establish support for modern operating systems?

The archived brochure lists Windows 2000, XP and Vista. It does not alone establish compatibility with a current system; the software configuration needs confirmation.

Sources and documentation

Can a single optotype be shown without the full row?

Yes. The brochure provides single-optotype, horizontal-row and column masks operated by the infrared remote.

Sources and documentation

Which screens does the brochure describe?

It lists 17-, 19-, 20-, 23- and 24-inch sizes. The PC, resolution and calibration to the actual distance must be defined for the installation.

Sources and documentation

Related products



HCP-7000

Huvitz

Visual tests and charts

LED projector for practice-based visual testing.

View product



HDC-9100N/PF

Huvitz

Visual tests and charts

Digital visual chart display on a Full HD LCD screen.

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

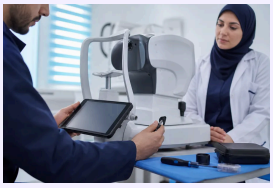


Service illustration

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

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