Visual tests and charts

HCP-7000

LED projector for practice-based visual testing.

The Huvitz chart projector has an adjustable projection distance of 2.5 to 8 metres (optimal between 3 and 5 m), with 41 charts and 34 masks for visual acuity, binocular vision and screening tests. Red/green and polarising filters support chromatic and 3D examinations. A 4W LED provides consistent brightness, a long service life and low energy consumption. Fast chart changes (0.15 sec) and two automated programs of 30 charts provide smooth operation. Automatic shutdown after 10 minutes and up to 15° tilt provide convenience and energy savings.



HCP-7000 · Equipment view

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

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Key advantages

Varied visual tests

41 optotypes and 34 presentation masks.

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

LED projection

LED light source for visual chart projection.

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

Examination distance

Projection suited to examination distances of 2.5–8 m.

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

Capabilities in practice

Projection of 41 optotypes and 34 masks

Sources and documentation

Choose the chart and mask

The projector provides 41 charts and 34 masks, with red/green and polarising filters. Mask selection adapts the presentation to the test.

- 41 charts and 34 masks.
- Red/green and polarising filters.

Sources and documentation

Vision tests

Precise vision testing.

41 test charts.

Red/green and polarising filters.

Binocular balance test.

Stereoscopic vision test.

Aniseikonia test.

Binocular fusion test.

Features

Projection distance: 2.5~8m.

41 charts, 34 masks, red/green filters.

Polarising filters.

Chart change speed: 0.15 sec.

Projection distances: 3 to 5m.

Energy saving: automatic shutdown (10 min).

2 programs with 30 charts each.

Tilt angle: 15°.

4W LED lamp.

A versatile, high-performance chart projector

The chart projector adapts to different environments and communicates with Huvitz refractors and HIS-1 software.

Suitable for ophthalmic practices, hospitals, eye clinics, optical stores and mobile vision screening campaigns.

Versatility, advanced functions and energy efficiency make it a practical choice.

Designed for a smoother workflow

Program routine chart sequences

Two programs can each contain up to 30 charts. The 2.5–8 m projection range supports installation at the room’s examination distance.

- Two sequences of up to 30 charts each.
- Chart change: 0.15 s on average.

Sources and documentation

Adapt projection to the room

Distance and projector orientation are set when installing the acuity station.

- Projection distance from 2.5 to 8 m.
- 15° tilt; 30× magnification at 5 m.

Sources and documentation

Designed for daily practice

LED chart projection

A 4 W LED provides chart illumination. The brochure describes automatic switch-off after 10 minutes.

- 4 W LED source.
- Automatic switch-off after 10 minutes.

Sources and documentation



HCP-7000 · Equipment view

Sources and documentation

Technical specifications & documentation

Minimum distance
2.5 m

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Maximum distance
8 m

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Display
LED projection

Sources and documentation

Adjustment ranges
Tilt 15°

Sources and documentation

Power supply
100–120 V AC 50 Hz or 200–240 V AC 60 Hz; LED 4 W

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Dimensions
270 × 182 × 230 mm

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Weight
3.44 kg

Sources and documentation

Downloads & resources

- https://huvitz.com/wp-content/uploads/2024/10/HCP-7000_2p_engonly_170426.pdf
  Source checked on 2026-10-05
- https://huvitz.com/wp-content/uploads/2024/10/HCP-7000_2p_engonly_170426.pdf
  Source checked on 2026-10-18

Your questions about HCP-7000

What is the documented Minimum distance of HCP-7000?

2.5 m

Sources and documentation

What is the documented Maximum distance of HCP-7000?

8 m

Sources and documentation

Can charts be organised in advance?

Yes. HCP-7000 provides two programs of up to 30 charts each for a sequence chosen by the practitioner.

Sources and documentation

What distance is needed for projection?

The brochure specifies a 2.5–8 m range and 30× magnification at 5 m. The projector provides 15° tilt.

Sources and documentation

Related products



HDC-7000

Huvitz

Visual tests and charts

Digital visual tests for refraction and binocular vision.

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

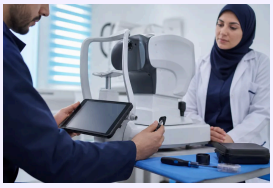


Service illustration

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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Expert advice

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

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