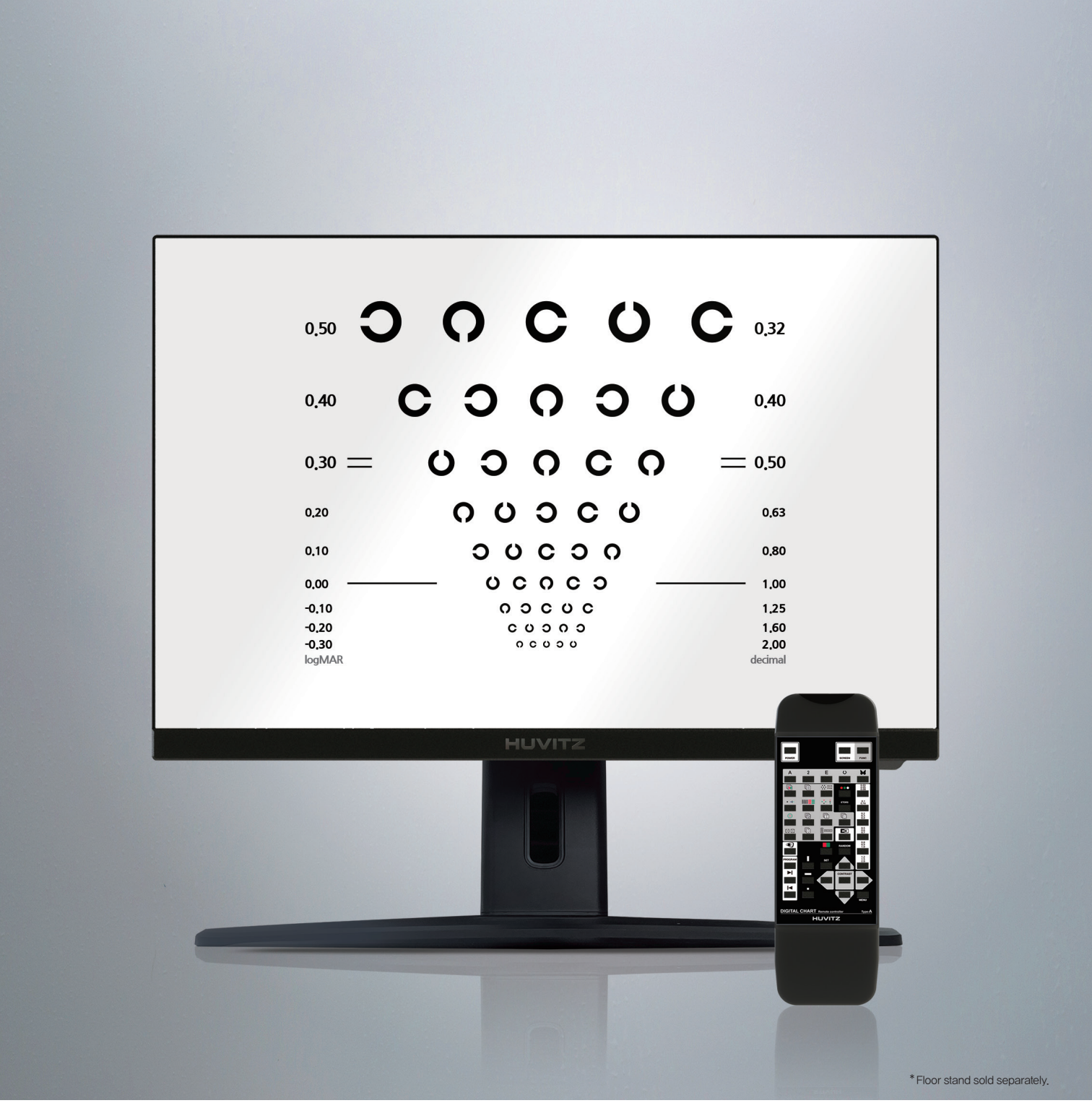
Innovative Refraction Solutions

Huvitz Digital Chart

HDC-100

Huvitz CONNECTING SIGHT SUCCESS



* Floor stand sold separately.

Optimal Choice for Efficient Vision Testing, HDC–100

Precise Diagnostics with a Variety of Test Charts

The HDC–100 supports comprehensive vision and visual function assessments by offering over 100 types of charts, including ETDRS and randomized charts.

Optimized Testing Environment with Convenient Settings

With adjustable testing distances and vertical mode support, the HDC–100 delivers accurate measurements in a variety of examination room setup.

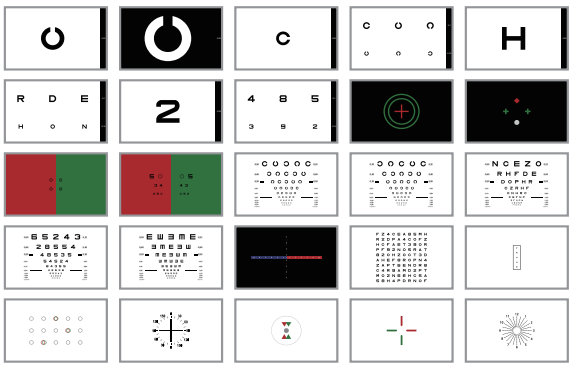
Enhanced Testing Efficiency with User–Centered Convenience

Seamless networking with Huvitz refractors ensures a fast and convenient testing experience.

Accurate Vision Measurement Achieved Through Diverse Test Charts

Over 100 Standard Eye Charts

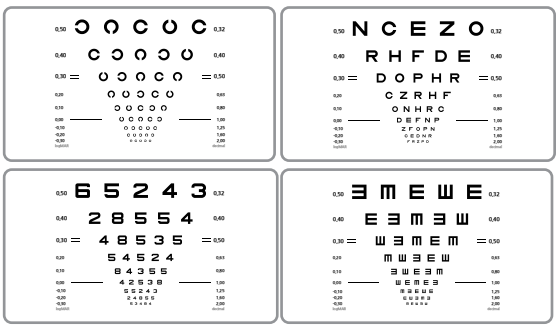
Offering more than 100 types of charts, the HDC-100 supports a wide range of methods for precise vision and visual function testing. It provides English, numeric, Landolt ring, and Snellen charts, as well as picture charts for children



Various Charts

Standardized ETDRS Vision Testingat Multiple Distances

Chart sizes are standardized according to testing distance, allowing vision to be measured accurately to decimal precision. Using LogMAR charts, letter sizes decrease uniformly, enabling even more precise vision assessment.



ETDRS Chart

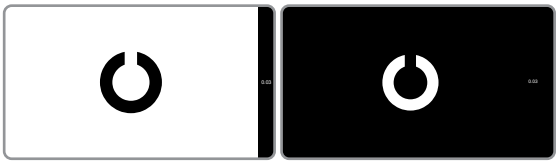
Test Charts for Low-Vision Patients

For patients whose vision is difficult to assess with standard charts, all charts support 0.03, 0.05, and 0.08 levels, enabling precise measurement of low vision.

Low Vision 0.03/0.05/0.08

Black & White Inverted Charts for LASIK Patients

To evaluate contrast sensitivity in LASIK patients, black-and-white inverted charts are provided, allowing for a more precise vision assessment.



Black & White Reversed Chart

Randomized Charts

Charts are displayed in random order to prevent memorization by the patient. During retests, charts of the same size are presented in different combinations, increasing the reliability of test results.

Random Chart

10-Level Contrast Adjustment

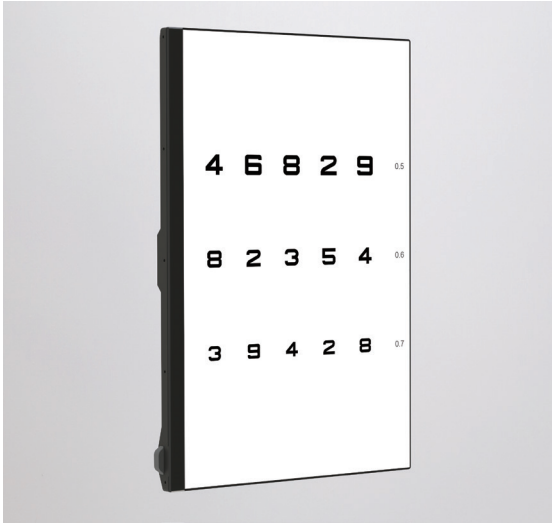
For contrast sensitivity testing and vision assessment of ophthalmic surgery patients, contrast can be adjusted across 10 levels, from 100% to 1.5%.

10-Step Brightness Control

User-Centered Vision Testing Environment Enhanced for Convenience

Adjustable Testing Distance and Vertical Screen Mode

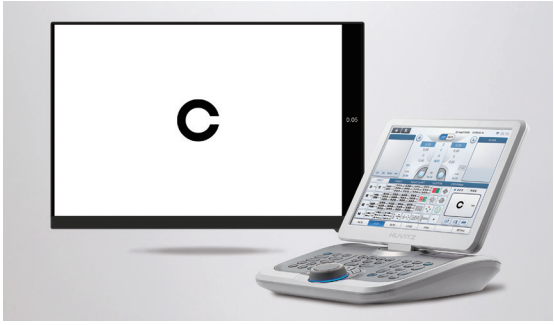
The testing distance can be easily set from 1.5 m to 8 m in 0.1 m increments, allowing flexible vision testing in various environments. Both horizontal and vertical screen modes are supported, making it adaptable to different spaces and usage conditions.



Screen Portrait

Integration with Huvitz Refractors

When connected to Huvitz digital refractors (HDR-9000, HDR-7100P), the HDC-100 can be controlled directly from the refractor's control panel, enabling a fast and convenient workflow for vision testing.



HDR Series Networking

Playback of Sample Images and Videos

Examples and videos demonstrating refractive errors, such as myopia, hyperopia, and astigmatism, can be displayed. Users can also play videos or view images stored on a USB drive.

Specifications

Screen	24 inch (61.1 cm) WUXGA TFT LCD
Visible area	(W)518.4×(H)324.0 mm
Screen ratio	16:10
Resolution	1920×1200 pixels
Brightness	Max. 300 cd/㎡
Refraction distance	1.5~8.0m (0.1m step) / 4.75 ~26.00 feet (0.25 feet step)
Main processor	Amlogic S905 SoC 4 × ARM Cortex-A53 1.5GHz 64bit ARMv8 Architecture @28nm / 3×ARM Mali-450 MP 700MHz
Internal memory	MicroSD 16GB 90MB/s
Operating System (OS)	Google's Android
Power	DC 12V 5A
Power consumption	55W
Control	Infrared radiation or serial communication of RS-232
Multi-channel	Max. 4 channels
External interface	4x USB, 1x RS-232, 1x Ethernet (10/100/1000)
Standard accessory	IR Remote-control, Wall-mount bracket
Optional accessory	Floor stand, Red/Green glass
Dimension and weight	(W)534×(H)361×(D)41 mm, approximately 4.0 kg

Specification and design are subject to change without notice.

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