Huvitz Re:define, Re+create

Innovative Ophthalmology Solutions

Vision Screener

HVS-1



HVS-1

Rapid Vision Screening for Infants and Toddlers, in Less Than a Second! More Accurate with Higher Light Intensity!

Our device can quickly and accurately measure individuals from infants over six months of age, who do not like to sit in front of a desktop autorefractometer, or to adults with limited mobility. It assesses refractive errors within a second from a distance of 1 meter, making it useful for detecting risks of amblyopia, such as myopia, hyperopia, astigmatism, and strabismus.

Especially for infants and toddlers, where the easy and early diagnosis is crucial for eye development, our patented Focus LED technology measures more precisely with higher light intensity.

Experience easy and convenient testing with Huvitz's Vision Screener.



Quick and Comfortable Measurement

Non-contact measuring in one go

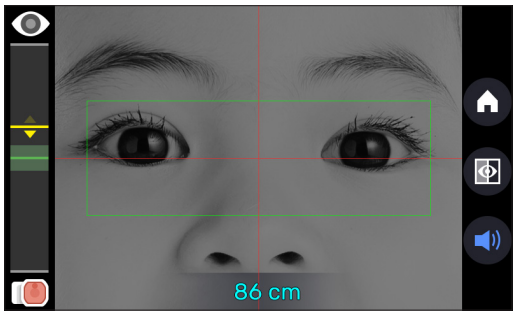
Measures refractive abnormalities like myopia, astigmatism, hyperopia, and strabismus within a second from 1 meter, similar to taking a photo. Infants who cannot sit alone can be measured while held by a guardian, and elderly with mobility issues can be measured comfortably without moving.

Child-friendly measurement method

Attracts the child's gaze and interest with light and sound to focus on the center of the vision screener.

Minimized shaking during measurement

A global camera sensor helps to minimize shaking during the quick measurement process.



Measurement Screen



Reliable Test Results

Accurate measurement with Focus LED technology

Measures the eyes precisely and in detail, minimizing the influence of external light using patented Focus LED technology with increased LED intensity.

*Use in a dark place is recommended for even higher data accuracy.

Enhanced measurement precision

High-resolution camera and advanced optometric measurement algorithms using a quad-core CPU provide more precise optometric data.

Trustworthy analysis results

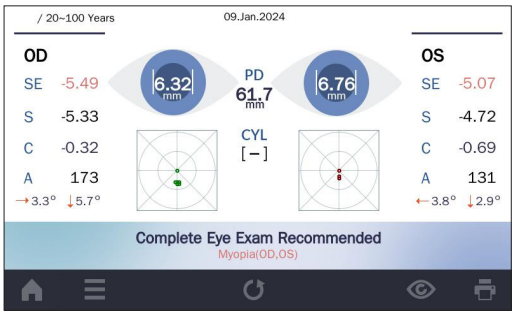
Offers reliable analysis by evaluating the reflection of light from the retina, identifying refractive and ocular alignment abnormalities.



Network in Huvitz Integrated Image Server(HIIS-1)



Screening report



Result Screen

User-Centered Convenience

Clear, wide-angle IPS monitor

Bright screen and wide viewing angle of the IPS monitor panel allow users to see data clearly from any angle.

Easy connectivity with various devices

The measured data can be accessed on a PC via Wi-Fi, and the patient data management as well as DICOM integration are available through the Huvitz Integrated Image Server (HIIS-1).

Screening report provision and convenient printing method

Report information can be printed conveniently without cables using the optional Bluetooth printer.

Various data transmission methods and fast search and management

A database of up to 7,000 individuals can be quickly accessed and searched by page, and bulk data transfer to a computer is possible via various methods (USB/cable/WIFI).



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Vision Screener

Specifications

Spherical	Range	−8.0D to +8.0D	
	Increment step	0.01D, 0.25D	
	Accuracy	−3.50D to +3.50D	± 0.5D
		−8.0D to 〈 −3.50D	± 1.0D
		〉+3.50D to +8.0D	± 1.0D
Cylindrical	Range	−3.0D to +3.0D	
	Increment step	0.01D, 0.25D	
	Accuracy	−1.50D to +1.50D	± 0.5D
		−3.00D to 〈 −1.50D	± 1.0D
		〉+1.50D to +3.00D	± 1.0D
Axis	Range	0 – 180°	
	Increment step	1°	
	Accuracy	± 10°	For CYL's values 〉0.50D
Pupil size	Range	4.0 – 9.0mm	
	Increment step	0.1mm	
	Accuracy	± 0.4mm	
Pupil distance	Range	35 – 80mm	
	Increment step	1mm	
	Accuracy	± 1.5mm	
Measurement time	Average	≤ 1s	
Measuring distance	Range	100cm± 5cm	
Power Supply	DC 15V, 2.0A / Output Rating : 15Vdc, 2.0A		
Dimensions / Weight	192(W) x 153(D) x 1260(H) mm / 1 kg		
LCD	IPS 800X480		
Printer	BIXOLON Bluetooth Thermal printer(Optional)		
Fixation target	visual pattern / audible sound		
wireless network	802.11 b/g/n		
interface	USB 2.0		

Specification and design are subject to change without notice.

Huvitz

Huvitz 38, Burim-ro 170beon-gil, Dongan-gu, Anyang-si, Gyeonggi-do, 14055, Republic of Korea
Tel : +82-31-428-9100 Fax : +82-31-477-8617 http ://www.huvitz.com

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