Huvitz Non-Mydriatic Fundus Camera
with Full Color Digital Image Acquisition
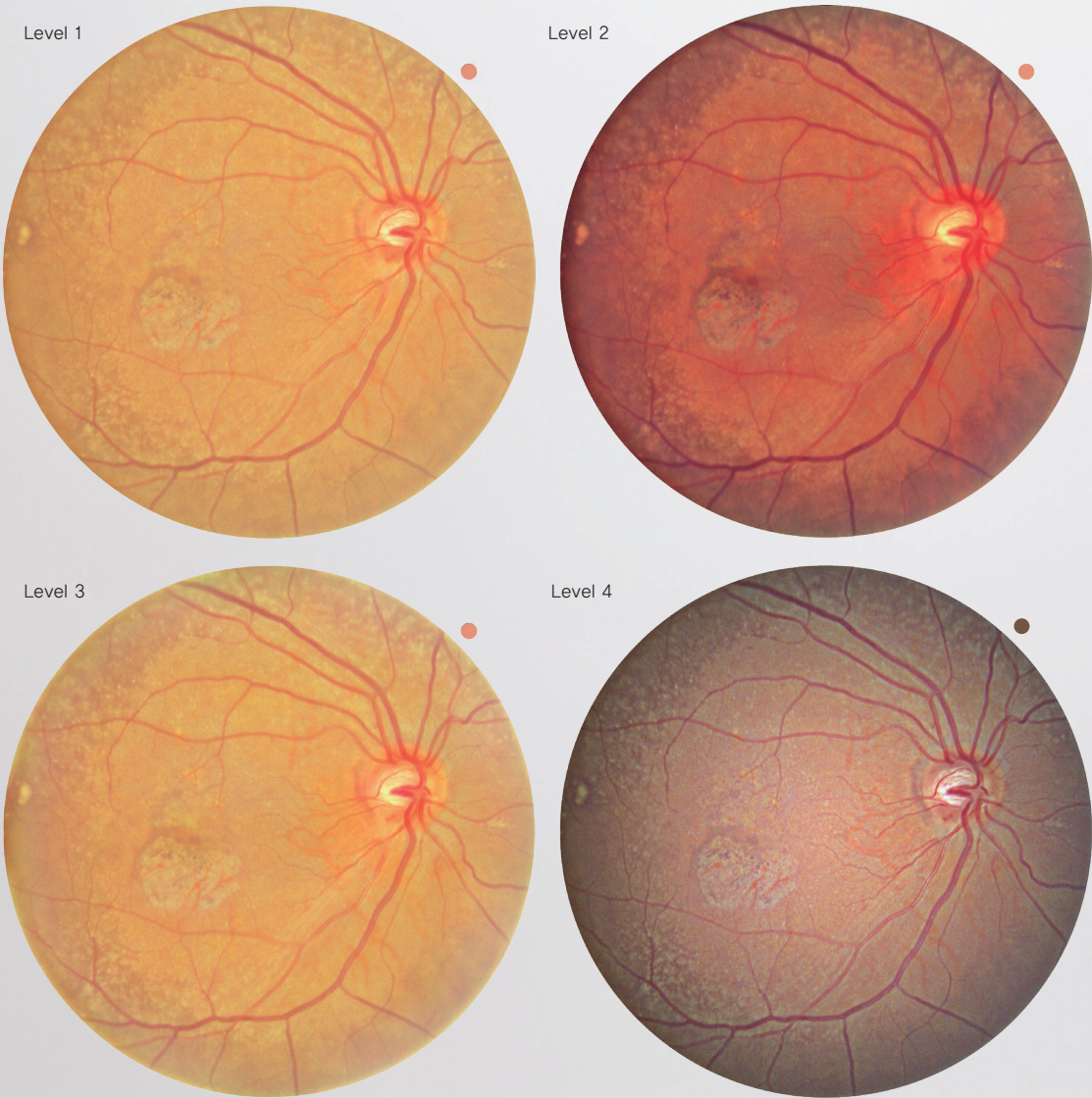
HFC-1

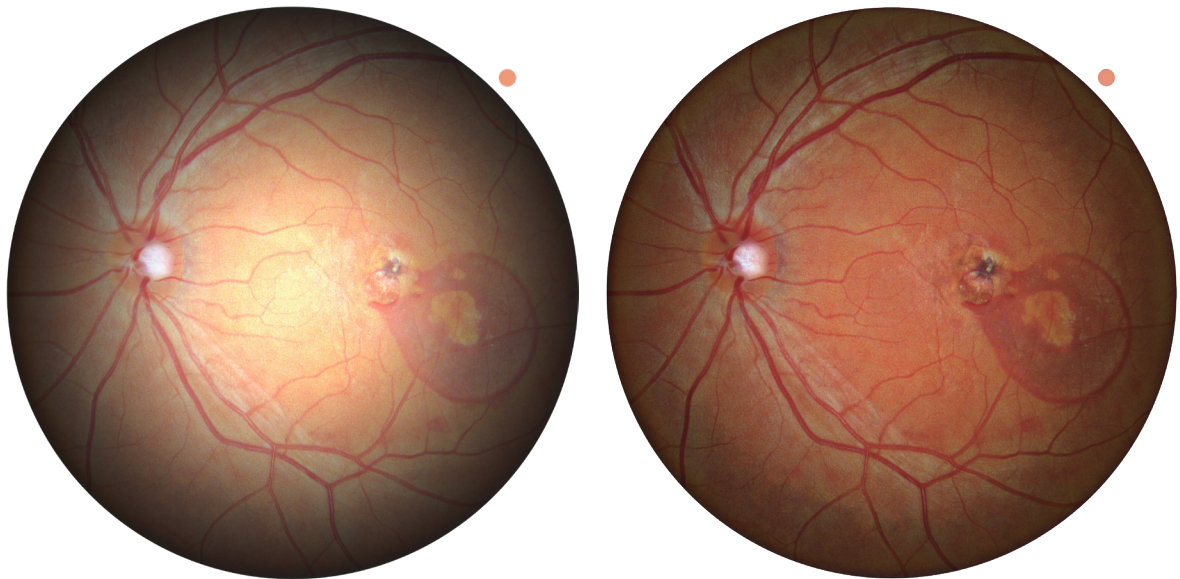**Huvitz** *CONNECTING SIGHT SUCCESS*

Advanced Fundus Imaging

Users can select the desired brightness and color tone of the fundus images according to their diagnostic style, enhancing clinical convenience.

Level 1

Level 2

Level 3

Level 4

AMD, Fundus single macular level 1~4, Dankook University
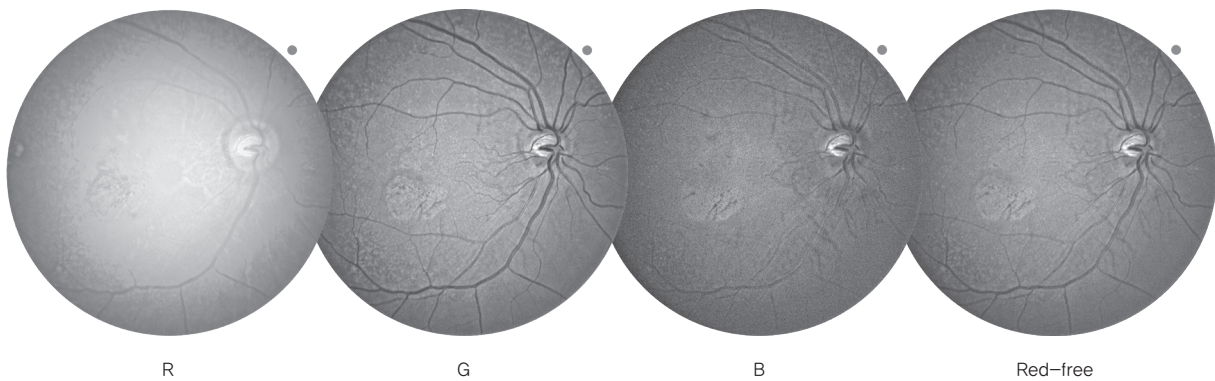
User-selected fundus color mode

Four types of fundus color images are provided, allowing users to choose the optimal color tone according to their diagnostic style or visual preference for precise observation of blood vessels.

Complicated macular hole with AMD, Fundus single macular level 4, Dankook University(with updated Central BR options applied)

Enhanced lesion visibility through brightness and color adjustment

By adjusting the Central BR and Gamma values, the brightness and color of the fundus image can be finely tuned. This allows users to observe specific areas where lesions are located more clearly.

| R | G | B | Red-free |

Fundus single macular level 4, Dankook University(R/G/B Channel Mode)

RGB color channels are available depending on the lesion

Users can select the R(Red), G(Green), or B(Blue) color channels to focus on lesions in the desired color.

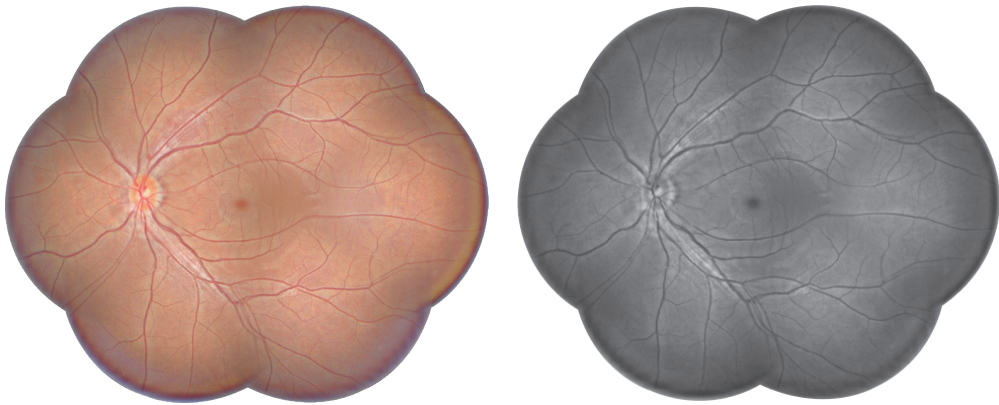| Clinical Insight | **R Channel :** Used to observe structures reaching deep retinal layers and the choroid (analyzes deep retinal vessels, choroidal abnormalities, and hemorrhagic lesions)
G Channel : Used to express contrast of superficial vessels and the nerve fiber layer (diagnoses vascular changes such as retinal edema, microhemorrhages, and neovascularization)
B Channel : Used to visualize fine structures of the retinal surface and nerve fiber layer (aids in the early diagnosis of nerve fiber layer damage, such as glaucoma) |

True Color Fundus in One Shot

Huvitz's proprietary image processing technology, Smart Viewing Technology(SVT), is based on the speckle noise reduction system and pre–acquisition algorithm to produce true–color images. This allows wide–ranging visualization of lesion location and extent without distortion, effectively supporting precise diagnosis and analysis.

Fundus single macular level 4, Dankook University

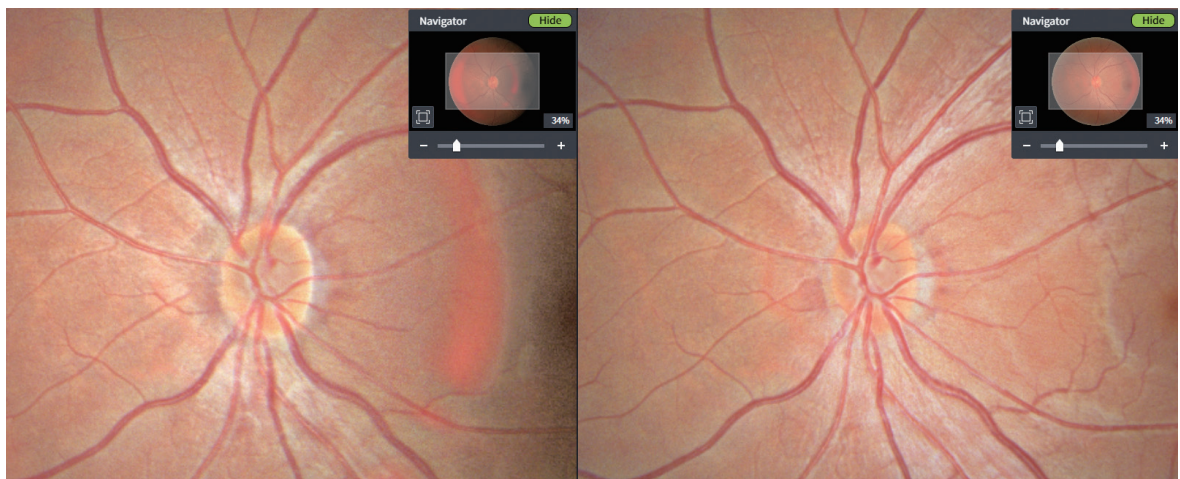## Capture the finest retinal microvasculature with uncompromised detail

By applying 12–bit color depth and Gamma correction technology, true–color fundus images are captured in a single shot. Brightness distribution is flattened to evenly represent both the dark retina and the bright optic nerve head, clearly visualizing arteries, veins, and even microvasculature. This enables accurate fundus image analysis without color distortion, enhancing diagnostic reliability.

Fundus panorama level 4/Grey, Huvitz

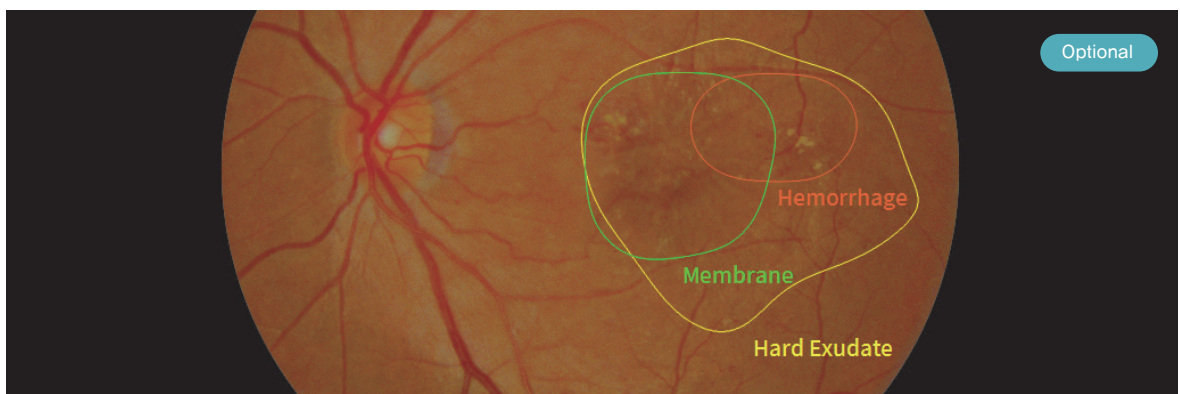## Wide-angle panorama view effective for lesion monitoring

A wide-angle panorama view effective for lesion monitoring is generated using between 2 and 7 fundus images. The wide-range fundus structure can be viewed in a single image, allowing for more intuitive identification of the location and extent of lesions such as diabetic retinopathy.

Fundus disc stereo in HIIS-1, level 4, Huvitz

Structural analysis of the optic nerve head

The patient's optic nerve head is measured from different left and right viewpoints to accurately analyze structural damage to the optic nerve head.

Fundus single macular, level 1, AI image

Analysis of 12 lesions using AI

The AI-based fundus analyzer divides the retina into eight regions, analyzes 12 lesions, and accurately indicates their locations.

HIIS-1 Optional

HIIS-1(Huvitz Integrated Image Server) enables the filing and integrated management of data measured by Huvitz devices.

The data can be accessed in real time on PCs, mobile devices, and tablets, enhancing clinical convenience.
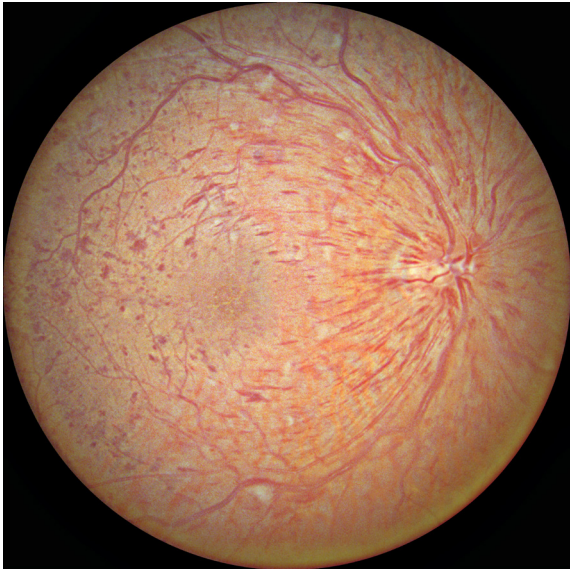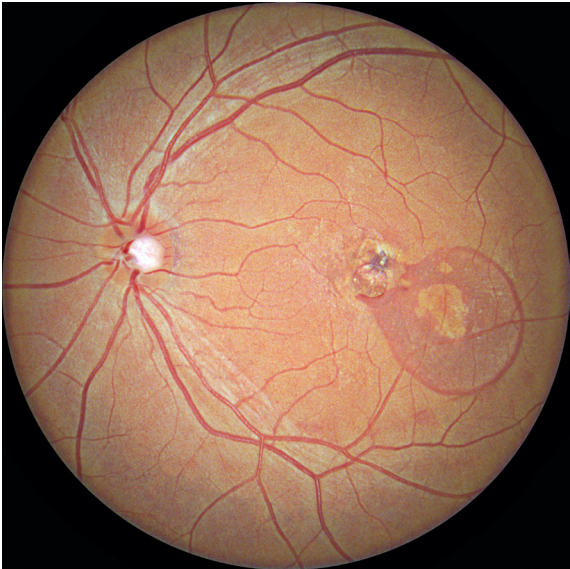
By Patient   By date   By diagnosis   Any devices

Clinic Exams

Fundus single macular level 4, Dankook University

The morphology of the hemorrhagic patches observed on the fundus photograph suggests that the CRVO is of recent onset.
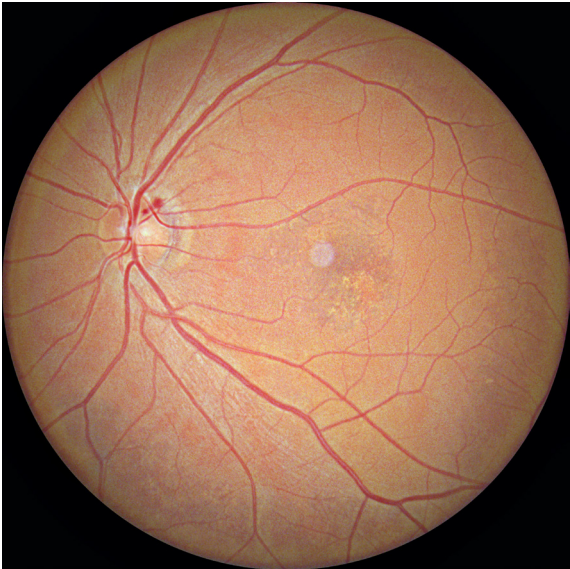

Fundus single macular level 4, Dankook University

On fundus photography, the location of the subretinal hemorrhage could be accurately identified.

Fundus single macular level 4, Dankook University

The fundus findings are indicative of age−related acular degeneration with quiescent choroidal neovascularization, characterized by the absence of recent exudative activity.

Fundus single macular level 4, Dankook University

The presence of choroidal vessel engorgement and hemorrhagic pigment epithelial detachment (PED) indicates that the lesion is consistent with neovascular age−related macular degeneration, even in the absence of fluorescein angiography.

HFC-1

Huvitz Non-Mydriatic Fundus Camera
with Full Color Digital Image Acquisition

Specification

Type	Non-mydriatic fundus camera
Resolution	Center : 60 lines/mm or more Middle (r/2) : 40 lines/mm or more Periphery(r) : 25 lines/mm or more
Angle of view	45°
Camera	Color Image Sensor
Minimum pupil diameter	4.0mm (Normal mode), 3.3mm (Small pupil mode)
Flash light	White light
Working distance	33mm
Display	12.1 inch, 1280x800 pixel, Touch panel color LCD
Dioptric compensation for patient's eye	−33D ~ +33D total −33D ~ −7D with minus compensation lens −13D ~ +13D with no compensation lens +7D ~ +33D with plus compensation lens
Fixation target	LCD (internal), White LED (external)
Horizontal movement	70mm (back and forth), 100mm (left and right)
Vertical movement	30mm
Chinrest movement	62mm (up and down), motorized
Auto tracking	X,Y for positioning, Z for working distance
Power supply	AC 100−240V, 50/60Hz, 1.6−0.7A
PC	Built-in computer
Dimensions	330(W) x 542(D) x 521(H)mm
Mass	28kg

* Specification and design are subject to change without notice.