NW500

Non-Mydriatic Retinal Camera



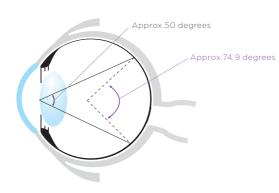


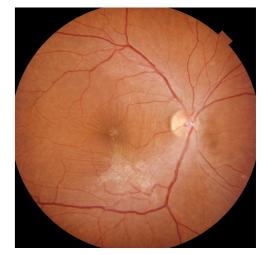


Excellent Quality Fundus Image

At an angle of view of 50 degrees (approx. 74.9 degrees at the spherical center of the eye)⁵, the NW500 can capture a wider area than conventional models. Capable of capturing fundus images with a pupil diameter as small as 2.0mm, it provides sharp, detailed color fundus images in dark and brightly lit rooms.6

5.Xincheng Yao, Devrim Toslak, Taeyoon Son, Jiechao Ma. Understanding the relationship between visual-angle and eye-angle for reliable determine the field-of-view in ultra-wide field fundus photography. Biomedical Optics Express, 2021 Sep 30;12(10):6651-6659. 6.A room with a brightness of 623 lux or less











Courtesy: Tuskazaki Hospital, Japan

OVERVIEW



Slit scan technology to image through **small pupils** (φ2.0mm or More¹)



Rotating monitor allows operator to work from the optimized distance



12MP sensor for enhanced image quality ^{2,3}



Compact design fits into almost any exam setting



Automatic, rapid, one-touch image capture



Wide Variety of connectivity options for seamless integration and workflow⁴

Introducing New Slit Scan Photography

Innovative slit scan illumination and rolling shutter mechanism available in the NW500 make obtaining an excellent quality colour fundus image with less flare and less shadow possible.² The slit scan mechanism helps to overcome one of the known causes of poorly graded images in its ability to effectively image smaller pupils. This innovative technology also contributes to the NW500's ability to capture sharp-quality fundus images regardless of the miosis and lighting conditions, unlike conventional fundus cameras.



Cataract Eye, pupil size: \$2.0mm Courtesy: Silicon Valley Evecare Optometry and Contact Lenses in Santa Clara, CA

^{1.} Confirmed with model eye

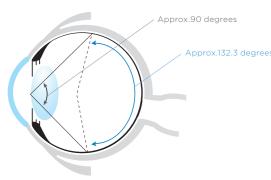
^{2.}As compared to Topcon non-mydriatic retinal camera TRC-NW400

^{4.}Multiple connection with Direct DICOM, Ez Capture, IMAGEnet*6, Shared folder and Direct Storage(USB/LAN)

Panoramic Wide Field Photography⁷

In peripheral photography mode, up to 9 internal fixation positions are available to shoot peripheral areas, making it possible to create a wide panorama image with approx. 90 degrees (approx. 132.3 degrees at the spherical center of the eye) angle of view.

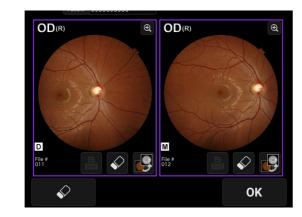
7. IMAGEnet®6 is requirend to generate panoramic images.



Approx.132.3 degrees

Bilateral 2-field photography

After capturing the optic nerve head, the fixation target automatically moves to the macula position and captures continuously. The NW500 allows users to confidently and smoothly shoot fundus photography at different fixation positions without the need for intermediate previews.

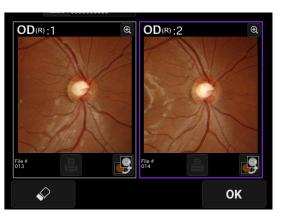




Stereo Photography8.9

By displaying the left and right images side-by-side for stereoscopic viewing, it is possible to observe the shape and depression of the optic nerve head, as well as the state of compression and traction.

8.Performed on the monitor screen or IMAGEnet®6 9.Glasses for stereo viewing are not included



Ease of Use

Alignment, Focusing, Shooting and movement between the right and left eye are operated automatically with a single touch, making the NW500 easy to operate¹⁰. The need to recapture is reduced even when taking pictures of eyes with small pupils, contributing to the overall efficiency of the fundus photography workflow.

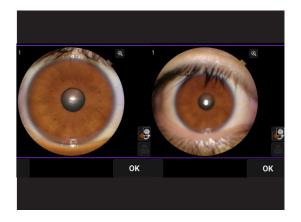
10. In case auto-shoot setting is turned on.



Manual Photography

In manual mode, the camera will switch to the shooting screen without auto alignment or auto focus. While observing the live image displayed on the monitor, it is possible to capture any area including the pupil, iris, conjunctiva, etc.¹²

12. The intended use of manual photography mode is to capture the eye's appearance as a reference. It is not intended for diagnosis.



OTHER FEATURES

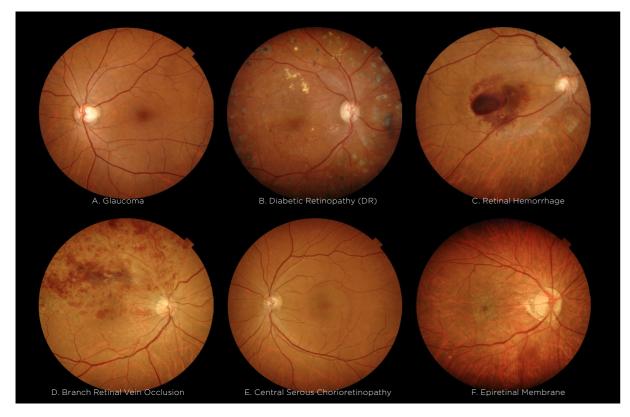
CONNECTIVITY

Space-Saving

The touch panel monitor offers 360 degrees of rotation, giving the operator the flexibility to capture fundus photography from virtually any position. The small footprint of the device means it can be installed virtually anywhere, allowing for optimal use of the examination room.



Case Images



Images A-C: Courtesy of Tsukazaki Hospital, Hyogo, Japan. Images D-F: Courtesy of Hanemoto Eye Clinlic, Japan.

Direct DICOM

NW500 is DICOM compliant, making it easy to integrate with PACS and EMR programs.

Ez Capture/IMAGEnet®6

Ez Capture is a standard capture software. NW500 also saves a digital image to IMAGEnet*6.

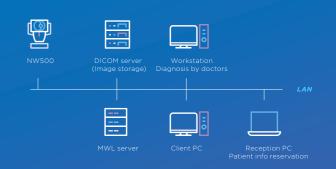
Shared Folder

Save images directly into a shared folder on a network. By using a shared folder, third party software, such as Al diagnostic, can retrieve and save images from NW500 and save them into their software.

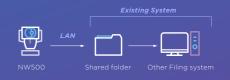
Direct Storage

Direct Storage is the simplest configuration and does not require an external PC.

Convenient for mobile stations or when a network is not used.









Specifications

Angular field of view	50°
Operating distance	35.5mm
Pupil diameter for photography	Normal : φ2.5mm or more Small pupil: φ2.0mm or more (confirmed with model eyes)
Resolving power on fundus	Color image-capturing • Center: 60 lp/mm or more • Middle (r/2): 40 lp/mm or more • Periphery (r): 25 lp/mm or more
Measuring range for the dioptric power of the patient's eye	-33D to +40D -13D to +12D (When used without diopter correction lens) -33D to -12D (When used with the minus diopter correction lens) +11D to +40D (When used with the plus diopter correction lens)
Internal fixation target	OLED The display method is adjustable: Positions Steady light/Blinking light Blinking speed Brightness Shapes
External fixation target	LED
Auxiliary functions for photography	 Auto-alignment Auto-focus (Usable only when used without diopter correction lens) Auto-shoot (Usable only when used without diopter correction lens) Auto-small pupil (Usable only when used without diopter correction lens)
Power source	
Source voltage	AC100-240V
Power input	70-120VA
Frequency	50-60Hz
Dimensions and weight	
Dimensions	332-426mm(W) x 540-680mm (D) x 519-769mm (H)
Weight	20kg

Optional accessory



External fixation target

IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Not available for sale in all countries. Please check with your local distributor for availability in your country.

Not all products, services or offers are approved or offered in every market, and products vary from one country to another.

Contact your local distributor for country-specific information and availability.

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