

NW500

Non-Mydriatic Retinal Camera



Enhanced Image Quality Meets Ease of Use



NW500

Non-Mydriatic Retinal Camera

is a user-friendly, robotic fundus camera that provides sharp-quality, consistent imaging even in ambient light¹.

OVERVIEW



**Robotic Fundus
Camera**



**Enhanced Image
Quality with 12MP
Sensor^{2,3}**



**Small Pupil
Photography
φ2.0mm⁴ or More**



**Rapid and Simple
Capture by Single Touch**



**Multiple Connectivity⁵
Options**



50° Field of View



**Stereoscopic
Photography**

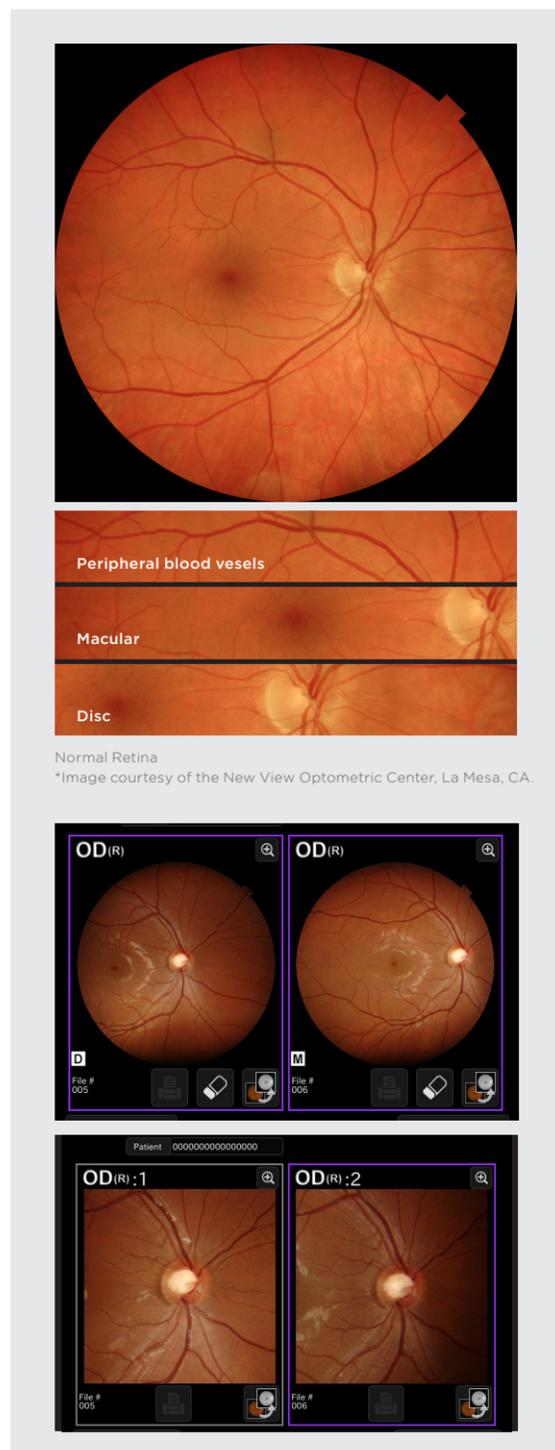


**Bilateral 2-Field
Photography**

1. A brightness of 623 lux or less
2. Compared to Topcon non-mydratic retinal camera TRC-NW400
3. Actual image size is 7.1MP
4. Confirmed with model eyes
5. Multiple connection with Direct DICOM, Ez Capture, IMAGEnet⁶, Shared Folder and Direct Storage (USB/LAN)

Slit Scan Technology

Innovative slit scan illumination and rolling shutter mechanism in the NW500 make it possible to obtain excellent quality color fundus images with less flare and shadow.⁶ The slit scan technology enables consistent imaging across the traditional three fixation positions, Disc, Center and Macula, as well as the nine fixation positions for peripheral photography.



Normal Retina
*Image courtesy of the New View Optometric Center, La Mesa, CA.

Bilateral 2-Field Photography

Automatically captures four images: disc centered, then macula centered (OU) to improve clinical workflow efficiencies.

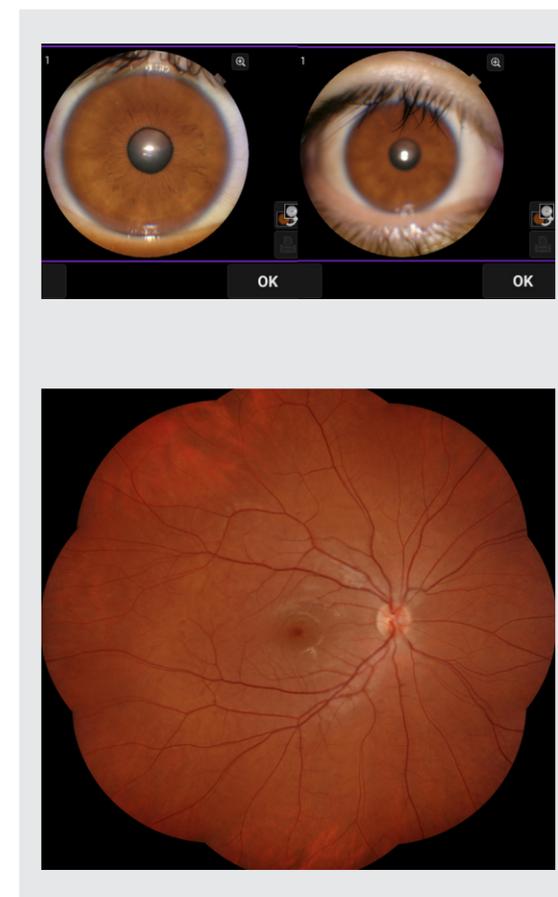
Stereoscopic Photography^{7,8}

Captures images from two slightly different positions for stereoscopic image viewing to aid clinical assessment.

6. As compared to Topcon non-mydratic retinal camera TRC-NW400
7. Performed on the monitor screen or IMAGEnet*6
8. Glasses for stereo viewing are not included

Manual Photography

Allows for external imaging. Users are given more control over image capture.⁹



Panoramic Wide Field Photography

When the peripheral photography mode is turned on, you can shoot peripheral areas using up to 9 internal fixation points. It is possible to create a wide panorama image¹⁰ with the angle of view approximately 90°

Small Pupil Photography

The NW500 captures enhanced quality color fundus retinal images of pupils as small as 2mm in diameter.^{11,12} Its slit scan technology produces sharp-quality images regardless of room light settings¹³, with more consistency, even when imaging through small pupils.

Improved Shooting Process Speed

Compared to the conventional fundus camera, the operation and shooting processing speed were improved with the new equipped a high-spec processor. Capturing of both eyes can be completed within about 30 seconds.¹⁴

9. The intended use of manual photography mode is to capture the eye's appearance as a reference. It is not intended for diagnosis
10. IMAGEnet*6 is required to generate panoramic images
11. Compared to Topcon non-mydratic retinal camera TRC-NW400
12. Confirmed with model eyes
13. A brightness of 623 lux or less
14. Based on the internal verification results. The shooting time depends on the environment of the examination room and the patient's conditions

FEATURES

Space-Saving

With 360° positioning touch panel monitor, the operator can capture the fundus photography from various positions according to the layout of the facility. The NW500, which can be installed anywhere, contributes to effective use of the examination room.

Case Images



Images A-C: Courtesy of Tsukazaki Hospital, Hyogo, Japan.
Images D-F: Courtesy of Silicon Valley Eyecare Optometry and Contact Lenses in Santa Clara, CA.

Direct DICOM

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

Ez Capture for NW500/ IMAGEnet®6

Ez Capture for NW500 software streamlines the image acquisition process. All digital images are saved to Topcon's IMAGEnet® 6 software for review and analysis.

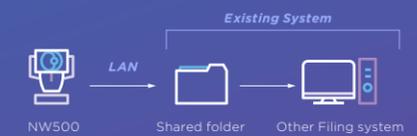
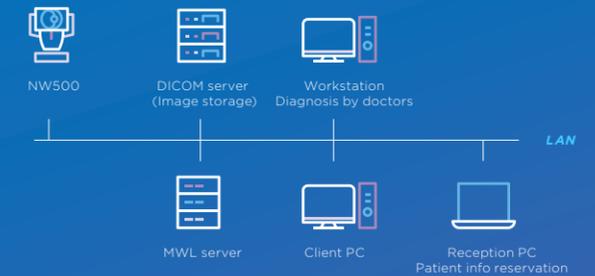
Shared Folder

NW500 can save images into a shared folder on a network. By using a shared folder, third party software can retrieve and save images from NW500.

Direct Storage (USB)

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

CONNECTIVITY



Specifications

Angular field of view	50°
Operating distance	35.5mm (1.4in)
Pupil diameter for photography	Normal : ϕ 2.5mm or more Small pupil: ϕ 2.0mm or more (confirmed with model eyes)
Resolving power on fundus	Color image-capturing <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Positions Steady light/Blinking light Blinking speed Brightness Shapes
External fixation target	LED
Auxiliary functions for photography	<ul style="list-style-type: none"> 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 (13.1-16.8in)(W) x 540-680mm (21.3-26.8in)(D) x 519-769mm (20.4-30.3in)(H)
Weight	20 kg (44.1lb)

Optional accessory



External fixation target
EF-2



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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