NW500

Non-Mydriatic Retinal Camera

Enhanced image quality in ambient light,* even for eyes with small pupils.

TOPCON Healthcare

*A brightness of 623 lux or less

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 light[1].

OVERVIEW

- **Robotic** Fundus Camera
- **Enhanced** Image Quality with 12MP Sensor[2, 3]
- Small Pupil Photography **ϕ2.0mm**[4] or More
- **Rapid and Simple** Capture by Single Touch
- **Multiple Connectivity**[5] Options
- **50° Field of View**
- **Stereoscopic** Photography
- **Bilateral 2-Field** Photography

1. A brightness of 623 lux or less
2. Compared to Topcon non-mydriatic retinal camera TRC-NW400
3. Actual image size is 7.1MP
4. Confirmed with model eyes
5. Multiple connection with Direct DICOM, Ez Capture, IMAGEnet˚6, Shared Folder and Direct Storage (USB/LAN)

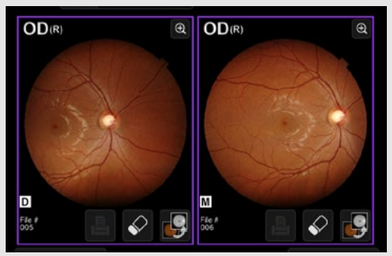
Slit Scan Technology

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.

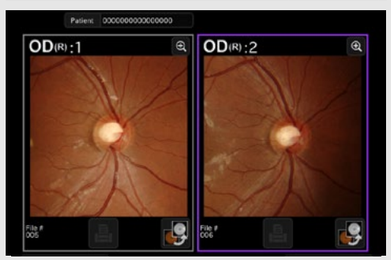
Bilateral 2-Field Photography

Automatically captures four images to improve clinical workflow efficiencies: disc-centered then macula-centered image of each eye.



Stereoscopic Photography[7,8]

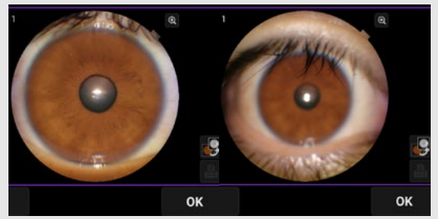
Captures images from two slightly different positions to aid clinical assessment.



6. As compared to Topcon non-mydriatic 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

In the peripheral photography mode, the operator may use up to nine internal fixation points to create a wide panorama image[10], with an angle of view of approximately 90°.

Small Pupil Photography

The NW500 captures enhanced quality color fundus retinal images through pupils as small as 2mm in diameter.[11, 12] Its slit scan technology produces sharp-quality images regardless of room light settings[13], with more consistency, even when imaging through small pupils.

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 requirend to generate panoramic images
11. Compared to Topcon non-mydriatic retinal camera TRC-NW400
12. Confirmed with model eyes
13. A brightness of 623 lux or less

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 efficient 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.

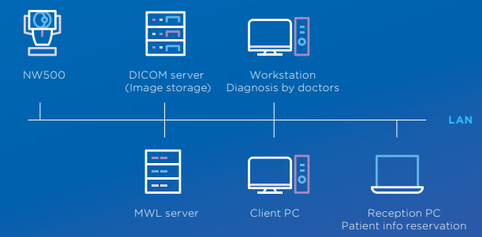
Shared Folder

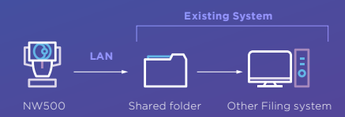
NW500 can save images into a shared folder on a network. By using a shared folder, third party software can retrieve and save images from NW500.

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 : 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 (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

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IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.
Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.

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