

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





Next-generation fundus imaging offering bright and sharp images in well-lit conditions¹, even in eyes with small pupils².

Sharp, high-quality images Small pupils Easy to use Robotic

OVERVIEW

N AWSON

12



Slit-scan technology to image through **small pupils** (**\$\$\phi2.0mm or larger^3\$)**



Flexible positioning against a wall/in a corner



12MP sensor for enhanced image quality^{4,}



Compact design fits into almost any exam setting



Automatic, rapid, one-touch image capture



Wide variety of connectivity options for **seamless integration** and workflow⁵

1. A room with a brightness of 623 lux or less

2. ¢2.0 mm or larger, tested on model eye

3. Confirmed with model eye

4. As compared to Topcon non-mydriatic retinal camera TRC-NW400

5. Multiple connections with Direct DICOM, Ez Capture, IMAGEnet® 6, Shared folder and Direct Storage (USB/LAN)

KEY FEATURES

EXCELLENT QUALITY FUNDUS IMAGE

At an angle of view of 50 degrees (approx. 74.9 degrees at the spherical centre of the eye)⁶, the NW500 can capture a wider area than conventional models. Capable of capturing fundus images through a pupil diameter as small as 2.0mm, it provides sharp, detailed colour fundus images in dark and brightly lit rooms.¹



INTRODUCING NEW SLIT-SCAN PHOTOGRAPHY

Innovative slit-scan illumination and rolling shutter mechanism in the NW500 produces excellent quality colour fundus images with less flare and shadow.⁴ The slit-scan mechanism helps to overcome one of the known causes of poorly graded images with its ability to effectively image through small pupils. This innovative technology also helps the NW500 capture sharp, high-quality fundus images, regardless of miosis and the lighting conditions, unlike conventional fundus cameras.



Peripheral blood vesels

Epiretinal membrane Courtesy: Hanemoto Eye Clinic, japan



Eye with cataract, pupil size: φ2.0mm Courtesy: Silicon Valley Eyecare Optometry and Contact Lenses in Santa Clara, CA

Small pupil Φ 2.0mm² Wide 50° field of view

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 an approx. 90-degrees (approx. 132.3 degrees at the spherical centre of the eye) angle of view.





N NWSOD

Do R

BILATERAL 2-FIELD PHOTOGRAPHY

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



FEATURES

STEREO PHOTOGRAPHY^{8,9}

By displaying the left and right images side-byside 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.



EASE OF USE

Alignment, focusing, shooting and movement between the right and left eyes, 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.

The manual mode is used for external photography. 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.¹¹





9. Glasses for stereo viewing are not included

10. If the auto-shoot setting is turned on.

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

FEATURES

SPACE-SAVING

The touch panel monitor offers 360 degrees of rotation, giving the operator the flexibility to capture fundus photography from 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: Department of Technology and Design Thinking for Medicine, Hiroshima Univ. Endowed Chair, Hitoshi Tabuchi, MD, PhD, EMBA. Images D-F: Courtesy of Hanemoto Eye Clinic, Japan.

CONNECTIVITY

'orkstation osis by doctors

> Reception PC Patient info reservation

DIRECT DICOM

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

EZ CAPTURE/ IMAGENET®6

Ez Capture is standard capture software. NW500 also saves digital images to IMAGEnet® 6.



SHARED FOLDER

Save images directly to a shared folder on a network. Using a shared folder, third-party software, such as diagnostic AI, can retrieve images from NW500 and save them to 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 being used.



DICOM server (Image storage)

P



SPECIFICATIONS

ANGULAR FIELD OF VIEW	50°
OPERATING DISTANCE	35.5mm
PUPIL DIAMETER FOR PHOTOGRAPHY	Normal :
RESOLVING POWER ON FUNDUS	Colour image-capturing • Centre: 60 lp/mm or higher • Middle (r/2): 40 lp/mm or higher • Periphery (r): 25 lp/mm or higher
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

NOTE : In this product, 12MP digital camera is used.

OPTIONAL ACCESSORY



External fixation target EF-2

TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, JAPAN Phone: +81-(0)3-3558-2522/2502 Fax: +81-(0)3-3965-6898 www.topconhealthcare.jp

TOPCON HEALTHCARE SOLUTIONS EMEA OY TOPCON SCANDINAVIA Saaristonkatu 9, 90100 Oulu, FINLAND Phone: +358-20-734-8190 E-mail: thsemea.sales@topcon.com www.topconhealthcare.eu

EC REP TOPCON EUROPE MEDICAL B.V.

Essebaan 11, 2908 LJ Capelle a/d IJssel P.O. Box 145, 2900 AC Capelle a/d IJssel THE NETHERLANDS Phone: +31 -(0)10-4585077 Fax: +31 -(0)10-4585045 E-mail: medical@topcon.com www.topconhealthcare.eu

TOPCON DANMARK

Praestemarksvej 25, 4000 Roskilde DANMARK Phone: +45-46-327500 Fax: +45-46-327555 E-mail: info.todk@topcon.com www.topconhealthcare.eu/dk_DK

OPCON SCANDINAVIA Neongatan 2, P.O.Box 25, 43151 Mölndal SWEDEN Phone: +46-(0)31-7109200 Fax: +46-(0)31-7109249 E-mail: info.hcs.se@topcon.com www.topconhealthcare.eu/sv_SE

TOPCON ESPAÑA

OPCON ESPANA Oficina Principal en España Frederic Mompou, 4, 08960 Sant Just Desvern, Barcelona, SPAIN Phone: +34-93-4734057 Fax: +34-93-4733932 E-mail: medica@topcon.com www.topconhealthcare.eu/es_ES

TOPCON ITALY

OPCON ITALY Viale dell'Industria 60, 20037 Paderno Dugnano, (MI) ITALY Phone: +39-02-9186671 E-mail: info_tit@opcon.com www.topconhealthcare.eu/it_IT



 Bâtiment 2, 69760 Limonest, FRANCE

 Phone: +33-(0)4-37 58 19 40

 Fax: +33-(0)4-72 23 86 60

E-mail: topconfrance@topcon.com

www.topconhealthcare.eu/fr_FR

TOPCON DEUTSCHLAND MEDICAL

Hanns-Martin-Schlever Strasse 41, D-47877 Willich, GERMANY Phone: (+49)2154-885-0 Fax: (+49)2154-885-177 E-mail: info@topcon-medical.de

www.topconhealthcare.eu/de DE

TOPCON POLSKA SP. Z. O. O. ul. Warszawska 23, 42-470 Siewierz POLAND

POLAND Phone: +48-(0)32-670-50-45 Fax: +48-(0)32-671-34-05 E-mail: info.tpl@topcon.com www.topconhealthcare.eu/pl_PL

TOPCON FRANCE MEDICAL

CLASS1 LED PRODUCT PRODUIT LED DE CLASSE 1



TOPCON GREAT BRITAIN MEDICAL Topcon House, Kennet Side, Bone Lane, Newbury, Berkshire RG14 5PX UNITED KINGDOM Phone: +44-(0)1635-551120 Fax: +44-(0)1635-551170 E-mail: medical.tgbm@topcon.com www.topconhealthcare.eu/en_UK

TOPCON IRELAND MEDICAL

Unit 292, Block G, Blanchardstown, Corporate Park 2 Ballycoolin Dublin 15, D15 DX58, IRELAND Phone: +353-12233280 E-mail: medical.ie@topcon.com www.topconhealthcare.eu/en IE

tem code: 42-0002568 / Distributed in Europe 12.23



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 approved or offered in every market, and products vary from one country to another. Contact your local distributor for country-specific information and availability.

©2023Topcon Corporation | M000098E-3 | The product is in conformity with Regulation EU 2017/745 on medical devices (MDR)