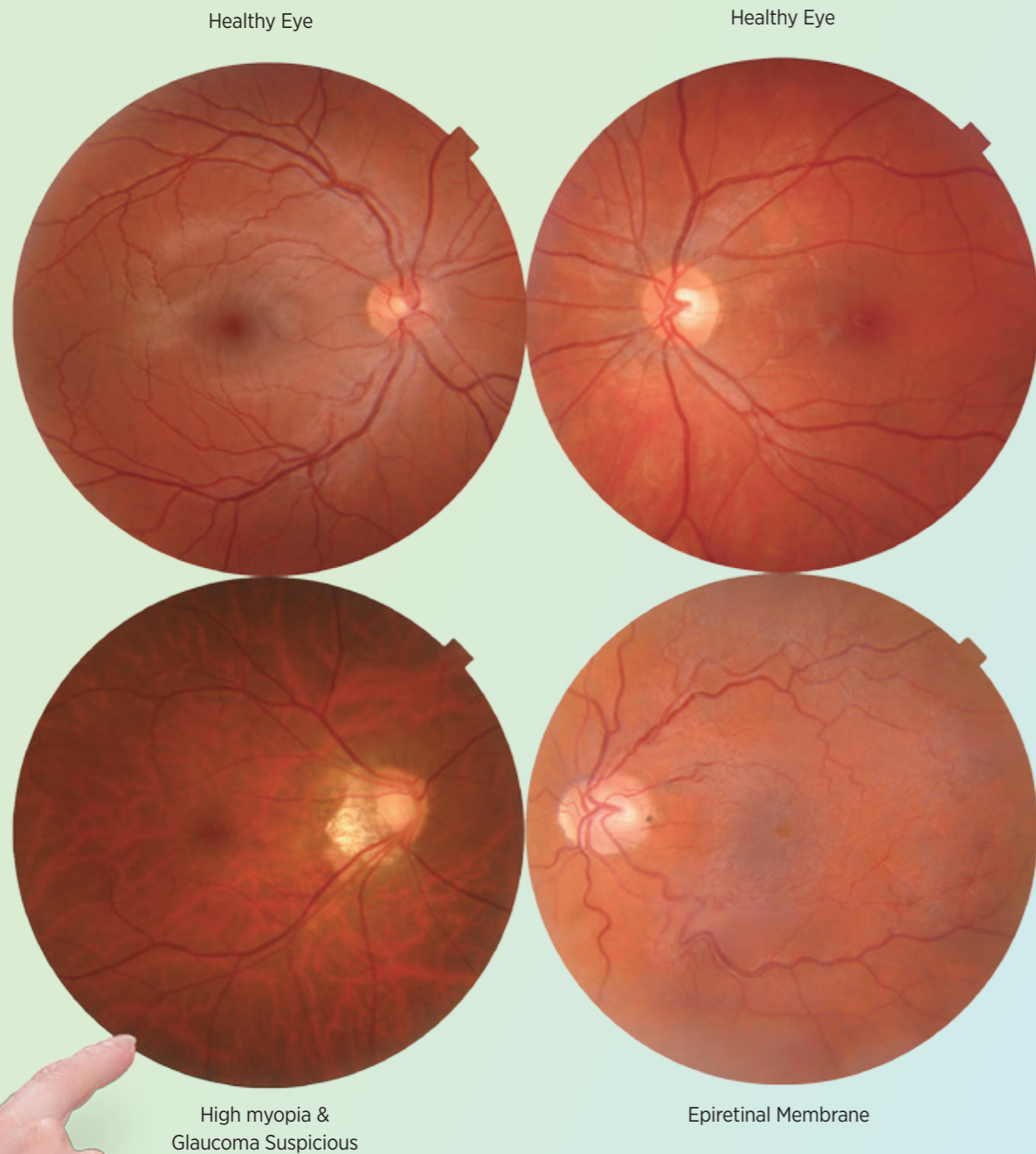


# Non-Mydriatic Retinal Camera

TRC-NW400





### Features

- » **True colour fundus images**
  - » High quality sensor using proprietary technology
- » **Easy to navigate**
  - » Fully automated fundus photography
  - » Intuitive touch screen control panel
- » **Space saving**
  - » Rotating touch screen control panel
  - » Compact and modern design
- » **Versatile and simple operation**
  - » DICOM and various connectivity



High quality image  
meets ease of use

**Fully automatic mode**

In full auto mode, alignment, focusing, shooting and movement between right eye and left eye are operated automatically. Any operator can use the TRC-NW400 without practice. An operator simply touches the screen to select a mode, touches the center of the pupil and presses "Capture START".



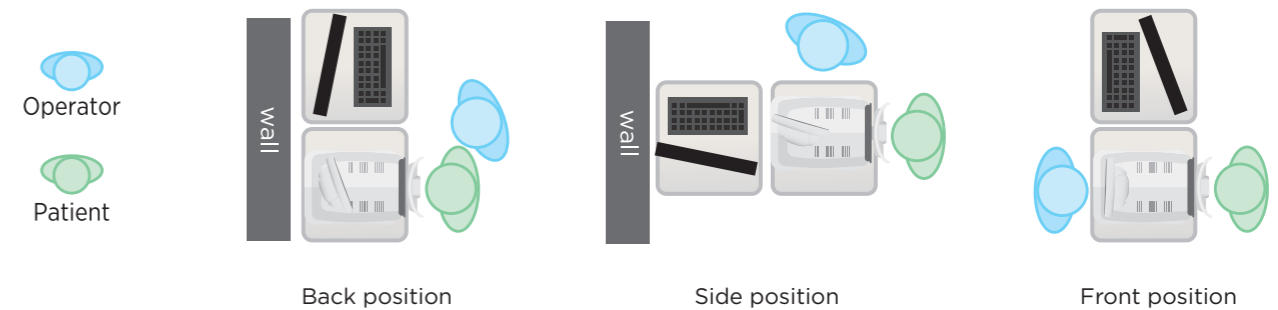
**Manual operation mode**

In manual mode, the user can operate the camera using the touch screen the same as the control lever. This is particularly useful in cases where auto mode is not possible or a specific area of the fundus requires illustration. In manual mode alignment is adjusted by a finger touch on the screen and illumination, flash intensity, diopter adjustment, internal fixation targets etc. can be adjusted.



**Perfect solution in a limited space**

The TRC-NW400 incorporates a rotating touch panel monitor that allows the operation of the instrument from virtually any angle. This feature lets the photographer be in front, behind or at either side of the patient, optimizing space saving. The TRC-NW400 can comfortably be operated when located against a wall or in a corner.



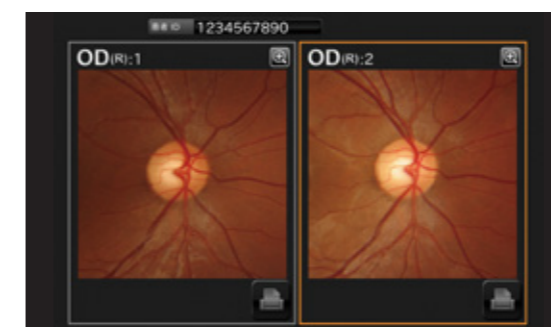
The IC-1 wall mounted instrument column is designed especially for combinations with Topcon's line of touch screen operated instruments. This workstation setup saves valuable floor space and is easy accessible for wheel chairs.

The TRC-NW400 combined with an IC-1 will fit seamlessly in any consulting room or practice. The TRC-NW400 can easily be combined with a touch screen PC.



**Brightness Shield BS-1**

Light conditions in examination rooms have an influence on the image quality of non-mydratric fundus images. In some rooms the light conditions are hard to control or adapt. The optional Topcon BS-1 Brightness Shield will help to reduce undesired light. The slim and sophisticated design will not interfere with patient interaction.



**Stereo photography**

In stereo photography mode, the alignment for a stereo pair is performed automatically. Following the prompts on screen a stereo pair for stereo viewing can be quickly and easily acquired.

\* Stereo viewer software is not incorporated.

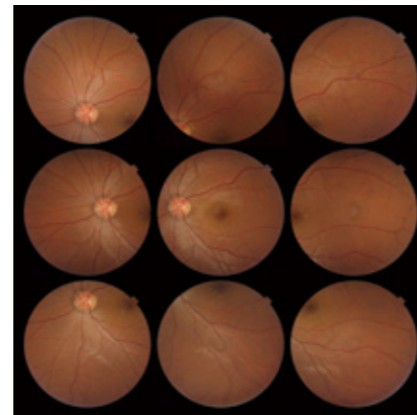
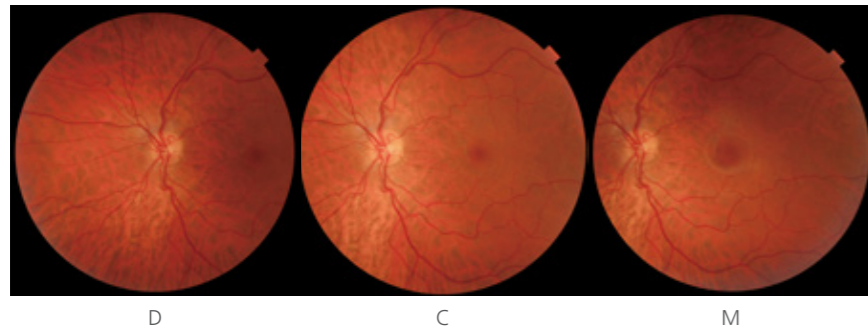
# Other features

## Internal fixation operation



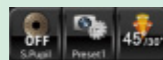
The traditional 3 fixation targets (Disc, Center and Macula) as well as the 9 fixation targets for peripheral photography are incorporated.

\* Panorama software is not incorporated.



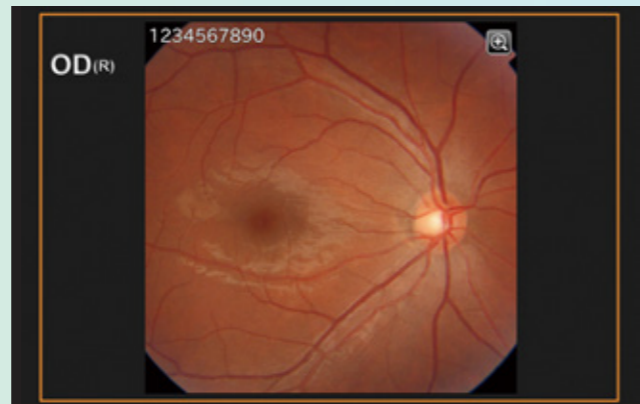
9 Fixation Target

## Small pupil photography & zoom function

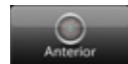


The TRC-NW400 enables the user to acquire retinal images with pupils as small as 3.3mm, with assistance functions as small pupil aperture, digital zooming function and overlaid mask. When the "small pupil mode" is selected, the camera will automatically adjust for small pupils.

\*Details depend on setting



## Anterior photography



Anterior photography function allows for quick documentation of external conditions of the eye surface and cornea.



## High sensitivity and low flash

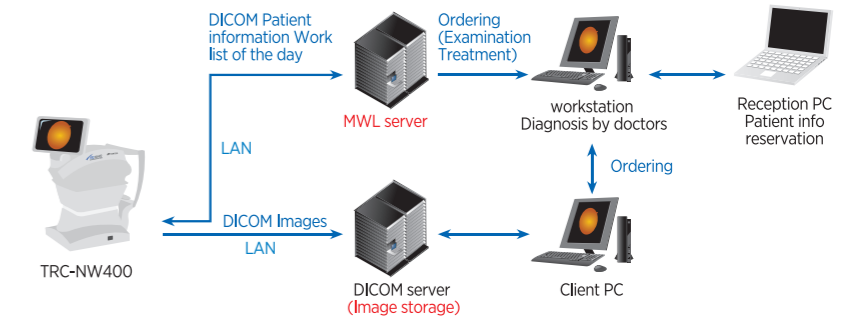
For patient comfort and compliance, a low 4.0Ws flash intensity is normally utilized, producing excellent images with low flash and reducing the patient's stress.

# Connectivity

TRC-NW400 is incorporated with USB and LAN interface allowing flexible storage solutions.

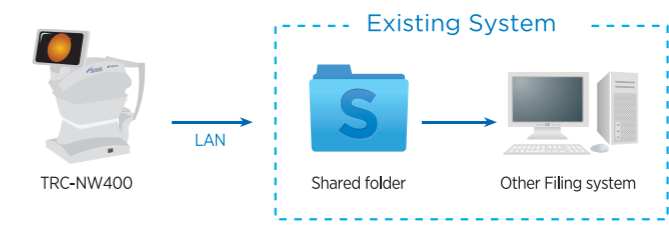
## Direct DICOM

The TRC-NW400 is DICOM compliant, making it easy to integrate within PACS and EMR programs.



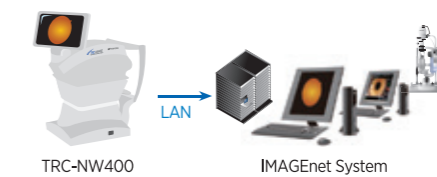
## Shared folder

The TRC-NW400 can save images into a shared folder on a network. By using shared folder, the third party's system can retrieve the images from TRC-NW400 and save them into their system.



## IMAGEnet

The TRC-NW400 is supplied with basic IMAGEnet software. IMAGEnet is a solution for image and data capturing, processing and storing. IMAGEnet basic fulfills the basic needs of image enhancement. This basic software can be upgraded with more sophisticated imaging tools, mosaic fundus image software and a module for refraction equipment.



## 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

<b>Observation &amp; photography of fundus image</b>	
<b>Angle of coverage</b>	45°/30° or equivalent (digital zoom)
<b>Working distance</b>	34.8mm (in fundus photography)
<b>Pupil diameter for photography</b>	45°: Ø 4.0mm or more Small pupil diameter: Ø 3.3mm or more
<b>Fixation target</b>	<p><b>Internal fixation target:</b></p> <ul style="list-style-type: none"> <li>- Dot matrix type organic EL</li> <li>- The display position can be changed and adjusted.</li> <li>- The displaying method can be changed.</li> </ul> <p><b>Peripheral fixation target:</b></p> <ul style="list-style-type: none"> <li>- This is displayed according to the internal fixation</li> <li>- Target displayed position.</li> </ul> <p><b>Peripheral fixation target</b></p>
<b>Patient diopter correction range</b>	
<b>Without the diopter compensation lens*</b>	-13D to +12D
<b>When the concave compensation lens is used</b>	-12D to -33D
<b>When the convex compensation lens is used</b>	+11D to +40D
<b>Power source</b>	
<b>Source voltage</b>	AC 100-240V
<b>Power input</b>	120VA
<b>Frequency</b>	50Hz-60Hz
<b>Dimensions and weight</b>	
<b>Dimensions</b>	272 - 383mm (W) × 464 - 660mm (D) × 512 - 700mm (H)
<b>Weight</b>	18kg

\*Area where the split lines are used.

## Optional accessory



External fixation target

EF-2

## Brightness Shield BS-1



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### IMPORTANT

Subject to change in design and/or specifications without advanced notice.

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

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