

TRC-NW400

Non-Mydriatic Retinal Camera



Fully Automated, True Color Fundus Camera

The TRC-NW400 is a user-friendly, robotic fundus camera that provides high-quality imaging through simple finger touch operation. A 360° rotating touch panel monitor allows the operator to acquire images rapidly and easily for improved workflow efficiencies.



Overview



**Robotic
Fundus Camera**



**Sharp
Color Fundus Images**



**One-Touch
Acquisition**



360° rotating monitor
allows operator to
optimize operator-patient distance



Small Pupil Photography
φ3.3mm or more



**Quick Stereo
Photography**



**Small Footprint,
Space-Saving**



**Variety of Connectivity
Options** (including
EMR Compatibility)

Image Samples

1. Normal retina (OD)
2. Normal retina (OS)
3. High Myopia and Glaucoma Suspect
4. Epiretinal Membrane



Image courtesy: New York Eye and Ear Infirmary of Mount Sinai, NYC, New York.

High Quality Imaging Meets Ease of Use



Full Automatic Mode

Robotically aligns, focuses, captures and moves from right eye to left eye. The operator simply taps the screen to select a mode, touches the center of the pupil and then presses “Capture START”. The TRC-400 requires minimal training and provides consistent results regardless of operator experience.



Register patient



Adjust the chinrest position and touch [Capture START]



Result is instantly available

Manual Mode

The operator can drive the camera using the touch screen which functions much like a control lever. This is particularly useful in cases when an operator would like to capture a specific area of the fundus. Illumination level, flash intensity, diopter adjustment and fixation targets can also be manually adjusted.



Register patient



Adjust the chinrest position and touch [Capture START]



Stop the auto process and adjust in “Manual” mode

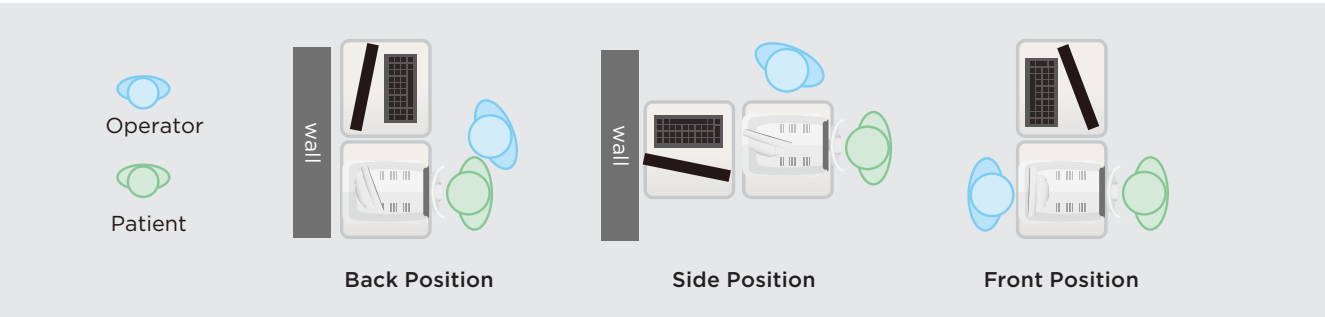


Result is instantly available

Key Features

Space-Saving

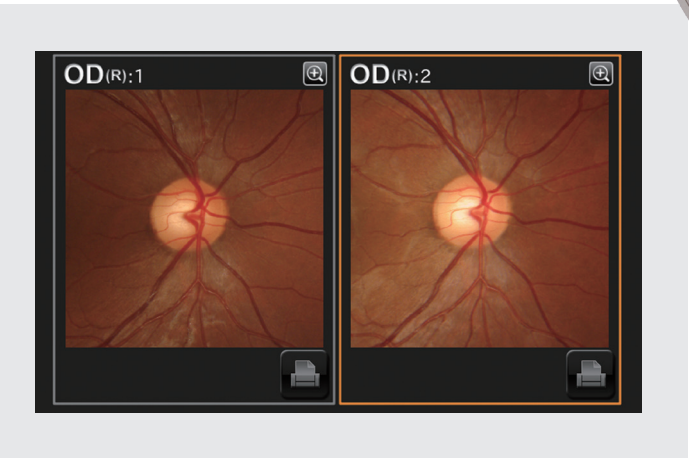
A rotating touch panel monitor allows operation of the instrument from virtually any angle. This feature lets the operator be in front, behind or at either side of the patient to optimize space. The TRC-NW400 can comfortably be operated when located against a wall or in a corner.



Stereo Photography*

The alignment for a stereo pair is performed automatically. A pair for stereo viewing can be easily and quickly acquired by simply following prompts on the screen.

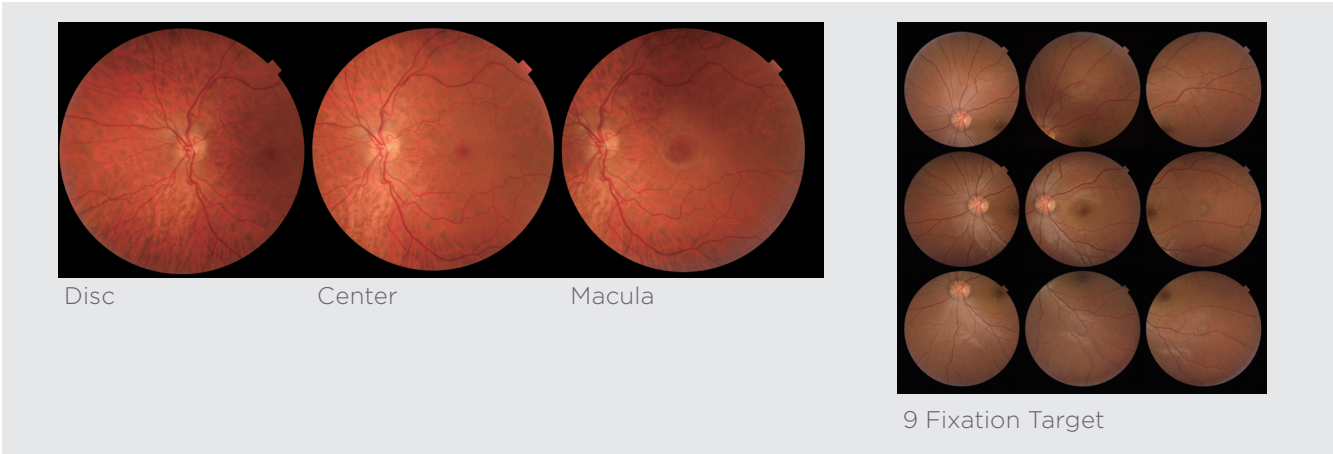
* Stereo viewer software is not incorporated.



Other Features

Internal Fixation Target Operation

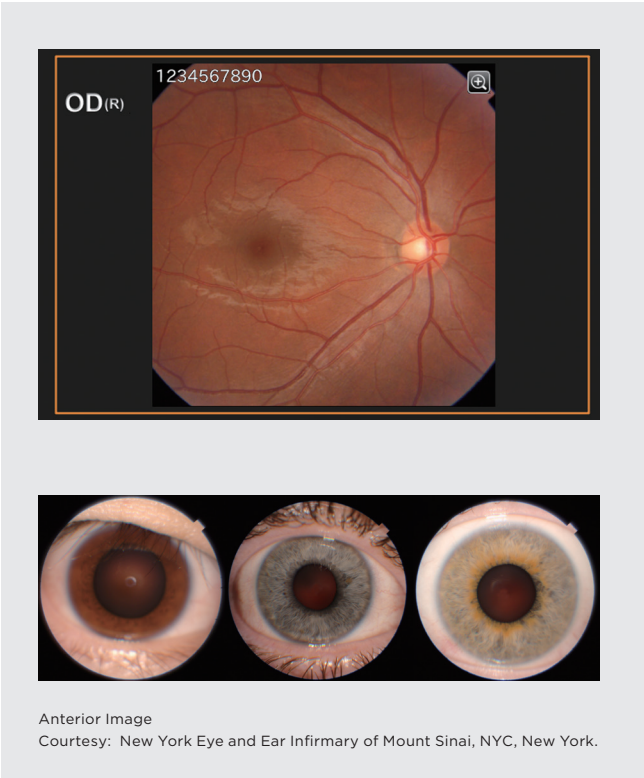
The traditional 3 fixation targets (Disc, Center and Macula) as well as the 9 fixation target for peripheral photography are incorporated.



Small Pupil Photography and Zoom Function*

The TRC-NW400 enables the user to acquire retinal images with pupils $\Phi 3.3\text{mm}$ or more. Assisting functions, including small pupil aperture, digital zooming function and overlayed mask are available. Note: When the “small pupil” mode is selected the camera will automatically adjust for small pupils.*

*Details depend on setting.



Anterior Photography

Allows for quick documentation of external conditions of the eye surface and cornea.

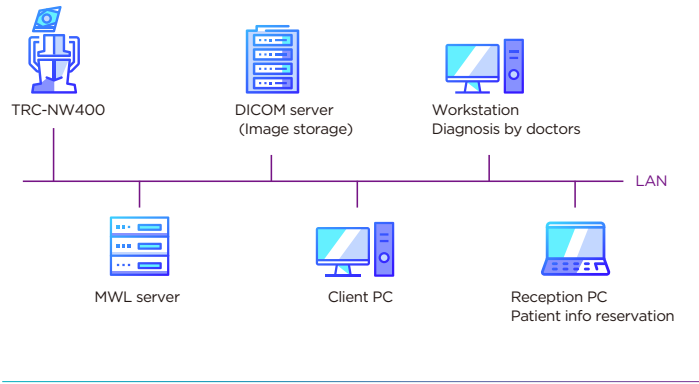
Low Flash

For patient comfort and compliance, a low 4Ws flash intensity is normally utilized, producing excellent images with low illumination and reducing patient’s discomfort.

Connectivity

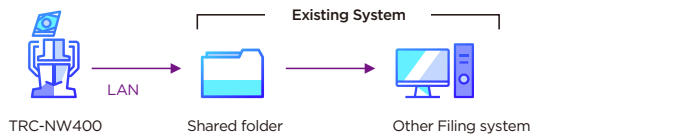
Direct DICOM

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



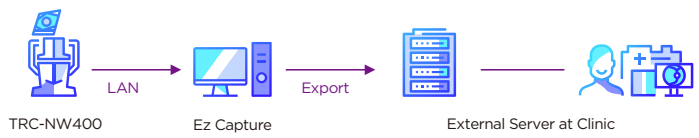
Shared Folder

The shared folder feature can retrieve images from the TRC-NW400 and save them on an external PC.



Ez Capture

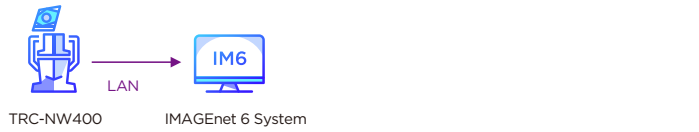
The TRC-NW400 includes Ez Capture as a standard software.



IMAGEnet 6*

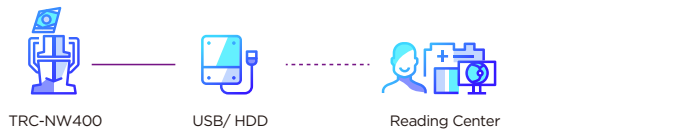
The TRC-NW400 can save digital images to IMAGEnet 6, ophthalmic data system.

*IMAGEnet 6 is an optional 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

Observation and Photography of the Fundus

Angle of coverage	45°/30° (digital zoom)
Working distance	34.8mm (in fundus photography)
Pupil diameter for photography	φ 4.0mm or more Small pupil diameter: φ 3.3mm or more
Fixation target	Internal fixation target: <ul style="list-style-type: none"> •Dot matrix type organic LED display. •The display position can be changed and adjusted. •The displaying method can be changed. Peripheral fixation target: <ul style="list-style-type: none"> •This is displayed according to the internal fixation target displayed position. External fixation target(EF-2)

Patient Diopter Correction Range

Without the diopter compensation lens	-13D to +12D
With concave compensation lens	-33D to -12D
With convex compensation lens	+11D to +40D

Power Source

Source voltage	AC100-240V
Power input	120VA
Frequency	50-60Hz

Dimensions and Weight

Dimensions	272-383mm (W) x 464-660mm (D) x 512-700mm (H)
Weight	18kg

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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 available for sale in all countries. Please check with your local distributor for availability in your country. **CAUTION** : Federal law restricts this device to sale by or on the order of a physician.