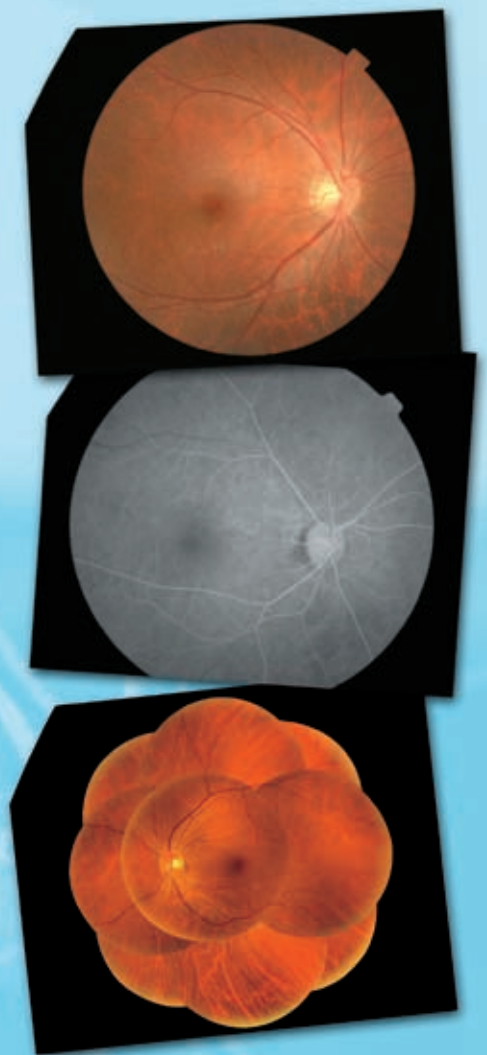


Retinal Camera TRC-NW7SF

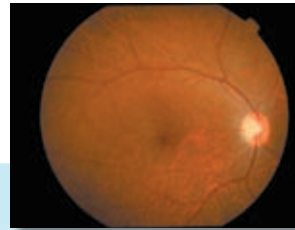


CONNECTING VISIONS

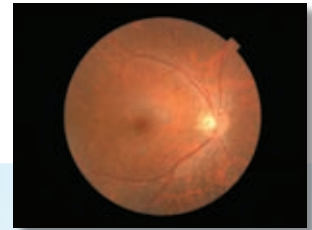
Integrated solution

mydriatic and non mydriatic in one retinal camera

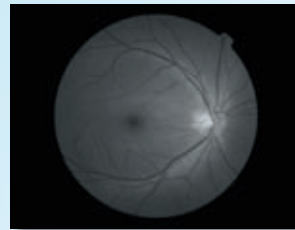
Including new functions for best results! The revolutionary **TRC-NW7SF** offers the versatility of undilated and dilated retinal imaging in both black & white and color modes.



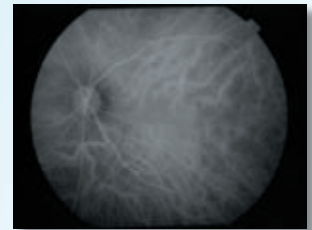
Color



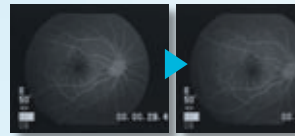
Color (Non-mydriatic)



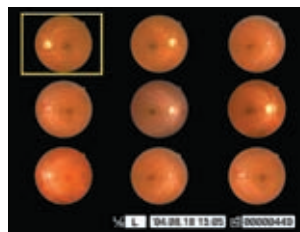
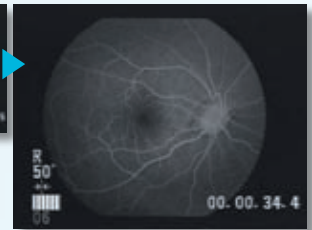
Red free



ICG Still/Live



FAG Still/Live



Other camera options

All components are built at the factory. Other options are available upon special order.

Topcon's unique built-in digital camera DC-100

DC-100 is Topcon's unique built-in digital camera. With its easy-to-use control panel, switching between PC/still/live modes and other operational settings can be done quite easily. It captures live images as digital data and transfers direct to the PC via USB 2.0. Timer, R/L eye detection, angle and patient data will also be transferred with images directly into IMAGEnet™.



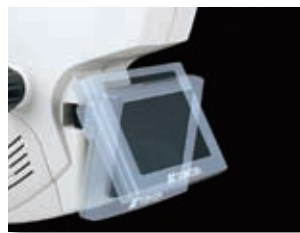
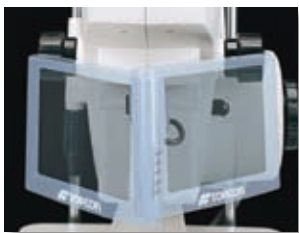
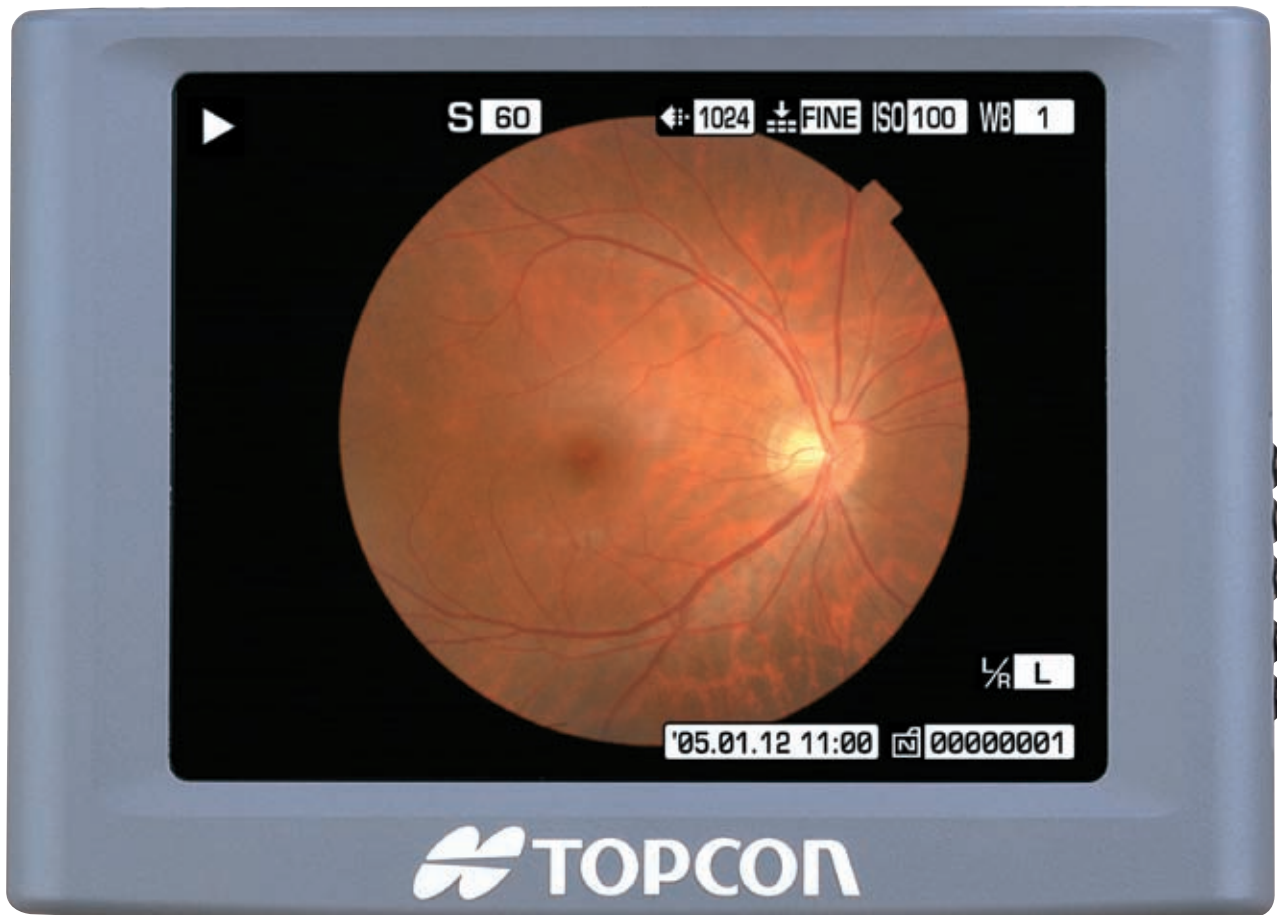
with TV relay lens
TL-272 for Nikon D2H
(for color and FAG)



with TV relay lens
TL-271 & KY-F75
(for color and FAG)

TRC-NW7SF incorporates a variety of useful functions in one instrument. It, provides smooth and enhanced controllability for the academic demands of ICG and fluorescein angiography to simple screening applications of color fundus imaging. The user is assured of the optical quality needed for Mydriatic

images as well as the user-friendly characteristics desired in non Mydriatic photography. The TRC-NW7SF touts its patient-oriented design for every user and for every ophthalmic diagnosis.



Finderless

TRC-NW7SF incorporates a tilting 6.4 inch color monitor. Alignment and focusing are performed through the monitor without the need of a viewfinder. Alignment in all image types can be viewed as a live image. The optical head movement is smooth and light for easy alignment. The viewing monitor can be tilted and moved horizontally for even greater viewing comfort for the operator.

TRC-NW7SF offers the versatility of white and color modes

Enhanced controllability for the academic demands of ICG and fluorescein needed for Mydriatic images as well as the user-friendly characteristics desired in ophthalmic diagnosis.

Swing and Tilt

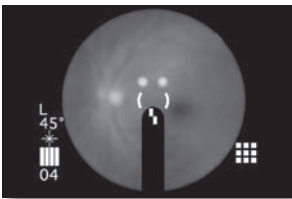
TRC-NW7SF incorporates a swing and tilt mechanism as would be expected of a good Mydriatic fundus camera. This allows viewing of peripheral segments without moving the patient's head or fixation.



Exposure Assistance

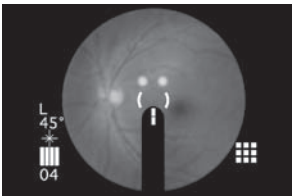
Optimum flash intensity is automatically detected and suitable exposure assured every time.

Alignment & focus procedure



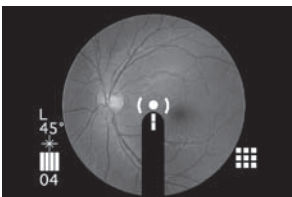
Easy focus

Sharp focus is achieved by simply aligning split vertical bars.



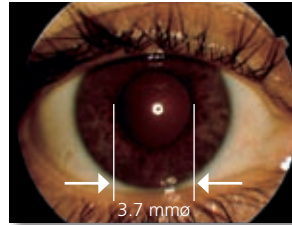
Easy alignment

Alignment is achieved by overlapping two bright spots on the monitor while bringing the objective closer to the patient's eye. Using the joystick for an in-out and left-right motion, the spots overlap and sit atop the focusing bar for optimal alignment.



IR illumination

TRC-NW7SF employs IR alignment for alignment and focusing to assure patient comfort.



ø 3,7 mm

TRC-NW7SF handles small-diameter pupils down to 3,7 mm.

Touch panel operation

An easy-to-use colorful touch panel allows the user to configure the camera settings, such as photo mode, flash intensity, etc at the touch of a finger. Suitable settings for each photo type are applied automatically.

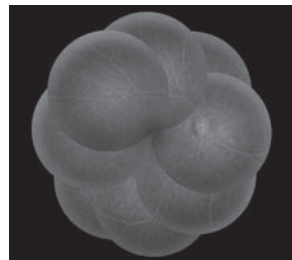


Stereo switch

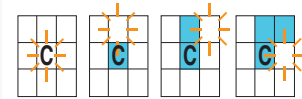
By pressing the stereo button, alignment bracket on the screen automatically shift laterally and stereo images will be achieved quickly even in non-mydriatic photography.

9 points internal fixation LEDs

TRC-NW7SF incorporates 1 central point and 8 peripheral fixation points. All points are shifted easily on a touch panel and provide 80 degrees of retinal coverage. In combination with AutoMosaic software, panoramic images are generated in seconds. If fields are beyond the standard 80 degrees, use



of the external fixation light can assist the patient in cooperating. The AutoMosaic software will seamlessly include the additional field(s).



Imaging system

In command of every user



TRC-NW7SF & video printer and color monitor

RGB transfer is automatic thus live color monitor viewing and direct video printing is possible for simple screening.

IMAGeNet™ optional software

IMAGeNet™ offers additional software features such as AutoMosaic, PDT, ETRDS, DICOM connectivity, measuring while viewing in stereo and patient consultation. Additional helpful utilities are being added frequently.



IMAGeNet™ & desktop

IMAGeNet™ Pro is cutting edge and a comprehensive patient database management system. It features efficient data viewing, storage, analysis and flexible networking solutions. With its unique utilities; such as PDT, AutoMosaic, measuring, stereo functionality, patient consultation, the user has control over the important applications that best meet his needs.



Auto Mosaic

A panoramic view of the retina is seamlessly stitched together using AutoMosaic software. Using a special algorithm to detect vessel edges, fields taken at random are automatically arranged in their correct positions without user intervention. Yet there is enough user control that a field can be removed, moved or rotated in that ability produces a better final result.

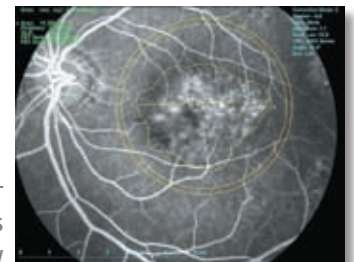


IMAGeNet™ & laptop

TRC-NW7SF, laptop PC, and IMAGeNet™ Lite can be a sample of convenient system. IMAGeNet™ Lite provides an advanced solution for image acquisition filing and evaluation. In addition, as the TRC-NW7SF can save images into CompactFlash™ card, images can be viewed in software programs such as Microsoft® Photo Editor.



Stereo



PDT
MPS
rings S/W

Specifications

Angle of coverage	(Non mydriatic)	45°, 30° (Color/Red free) *only 45° when combined with TL-272
	(mydriatic)	50° 45° 30° *only 45° when combined with TL-272
Working range		40,7 mm
Diopter compensation range for patient's eye		0 setting: -13D ~ +12D -setting: -12D ~ -33D +setting: +9D ~ +40D
Pupil diameter		50°: ø 5,5 mm 45°: ø 4,5 mm 30°: ø 4,0 mm
Possible photography images		Color, Fluorescein, Infrared fluorescein, Red-free (Infrared fluorescein photography is possible only in ICG type)
Filter		Exciter, Barrier, Green, ICG-Exciter(*), ICG-Barrier(*) *equipped only with ICG type
Internal fixation		4 central and 8 peripheral points
Optical head swing		Right and Left 30° each
Optical head tilt		Upper 15° / Lower 10°
Light source		Photography: No flash-300Ws / 35 steps
Monitor		6,4 inch color LCD
Interface		USB 2.0, RGB, CompactFlash™ card
Chinrest movement		Vertical movement: 60 mm External fixation target: standard / Red or Green
Base movement		Longitudinal movement: 80 mm Lateral movement: 110 mm Vertical movement: 30mm Fine movement: 12 mm
Power supply		Europe: AC 110 / 120 / 230 / 240V 50/60Hz Outside Europe: AC 100 / 120 / 220 / 240V 50/60Hz
Power consumption		200VA (normal) 2000VA (max)
Dimensions		340mm(W) x 490mm(D) x 645-832mm(H)
Weight		34,5 Kg

Optional Accessory



Adjustable Instrument Table AIT-16



TOPCON CORPORATION



TOPCON CORPORATION



Certificate No. JIP0018661QA
TOPCON CORPORATION

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

IMPORTANT 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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