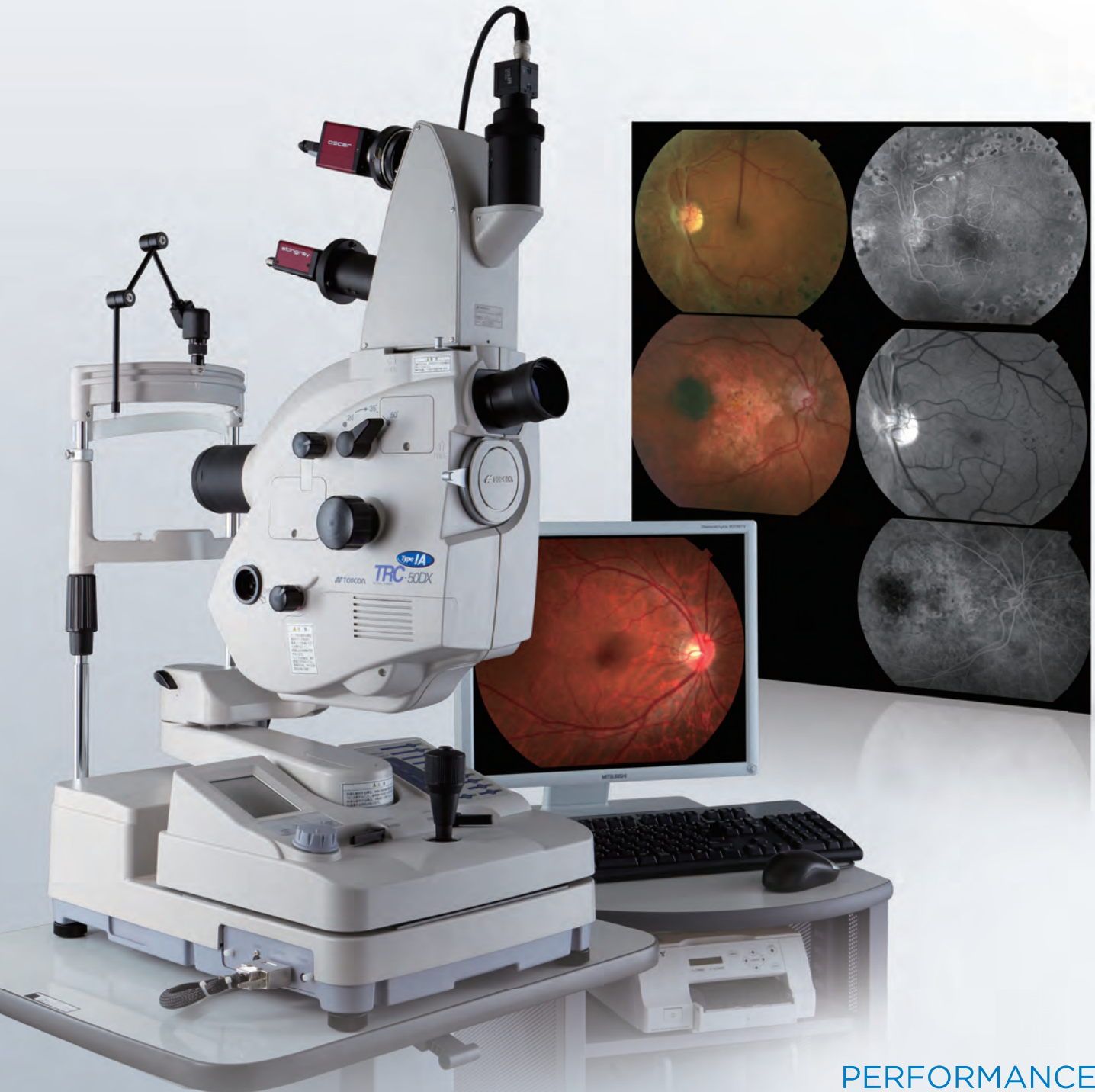


TRC-50DX

Retinal Camera



PERFORMANCE
YOU CAN COUNT ON

 **TOPCON**

Retinal Camera

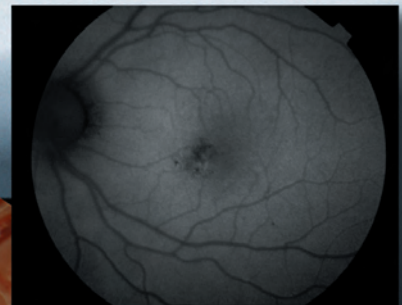
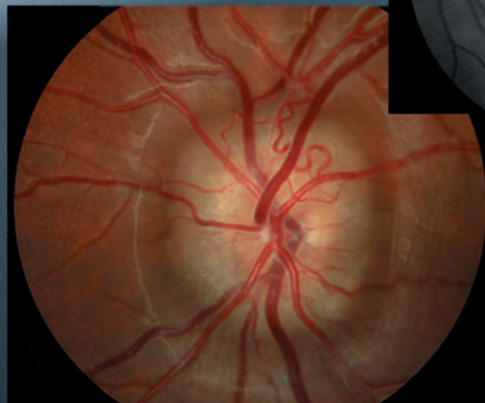
TRC-50DX / TRC-50DX_{Type IA}

Leading the way in Retinal Cameras

In the rapidly developing technology of digital cameras, retinal imaging techniques advance quickly towards higher resolution and newer methods. New diagnostic modes and procedures require versatility, precision and reliability more than ever before. The Topcon TRC-50DX, as well as the TRC-50DX(Type IA), improves on the unsurpassed quality of Topcon retinal cameras, incorporating new functions that enhance their versatility and operational ease. The camera can be used with a variety of photo devices, from 35mm camera backs to super-high resolution digital cameras. A newly developed control panel, equipped with a touch-screen, allows for a quick and easy change of settings while the Small Aperture function facilitates focusing and enhances sharpness.

Further enhancing its adaptability, the TRC-50DX(Type IA) can perform Auto Fluorescence studies, expanding its diagnostics aptitudes and application availability.

An adaptable filter mechanism lets the user add or exchange filters of his or her choice for different procedures or research projects.

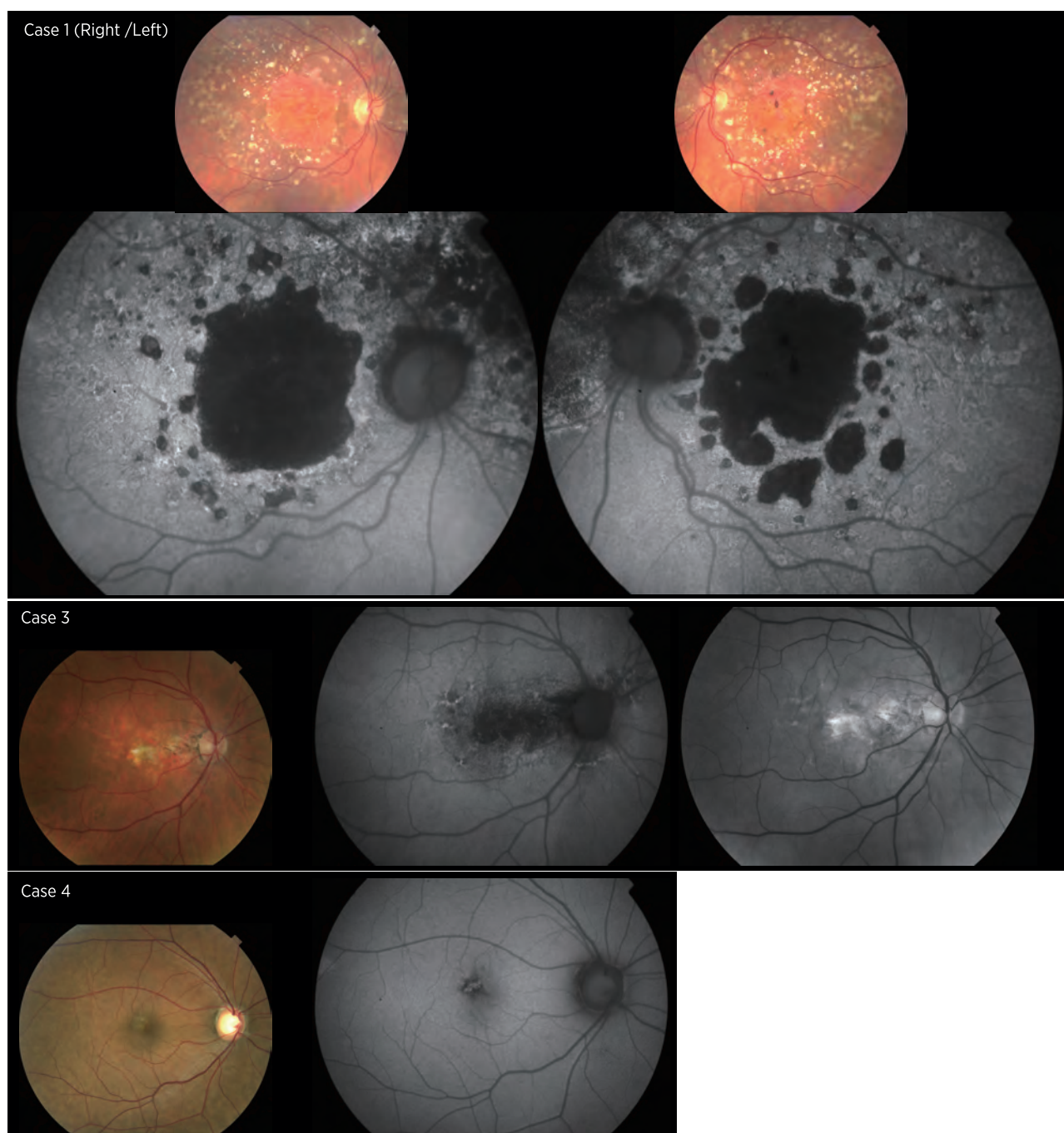




Auto Fluorescence

Fundus Auto Fluorescence (FAF) is a non-invasive technique to acquire images of the retina without injection, that visualizes the auto-fluorescence of lipofuscin distribution contained on the Retinal Pigment Epithelium (RPE). Lipofuscin, is a byproduct of cell metabolism. With age, lipofuscin accumulates in many types of cells throughout the body and it has been associated with several eye diseases.

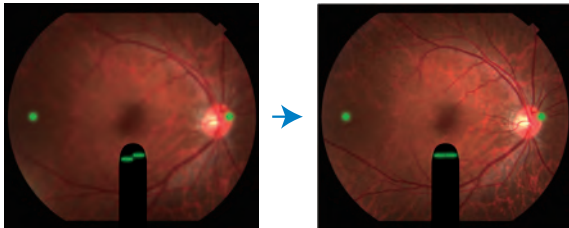
FAF is becoming increasingly important in the diagnosis of retinal pathology and is nowadays one of essential tools for observing and diagnosing exudative Age-related Macular Degeneration (AMD), Geographic Atrophy (GA) and addressing Retinal pigment Epithelium (RPE) functionality. TOPCON is the only company licensed by Dr. Richard Spaide for the use of his co-developed FAF filters. Dr. Spaide's filters are optimized for the observation of lipofuscin deposits in the retina and require 40% less illumination than conventional FAF filters. Additionally the optimized wavelength of those filters do not stimulate fluorescein or ICG so images can be taken during or post angiography.



TRC-50DX & TRC-50DX type IA

Split Image Focusing

This convenient feature minimizes out-of-focus images and allows even less experienced operators to obtain clear, sharp images with minimal effort.



Flash Intensity Control

Conveniently illuminated for use in subdued light, the flash intensity control has 21 levels and can be used in full or half steps. Sensitive membrane buttons permit total control on the image brightness.



Touch Panel Control

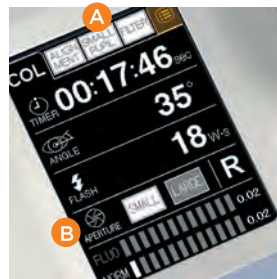
Designed with user convenience in mind, the TRC-50DX features a Touch Panel control that allows the operator to change the camera settings with a single touch. All adjustments are at the photographer's fingertips.

A Small Pupil Mode

The Small pupil mode permits imaging through pupils as small as 4.5mm diameter.

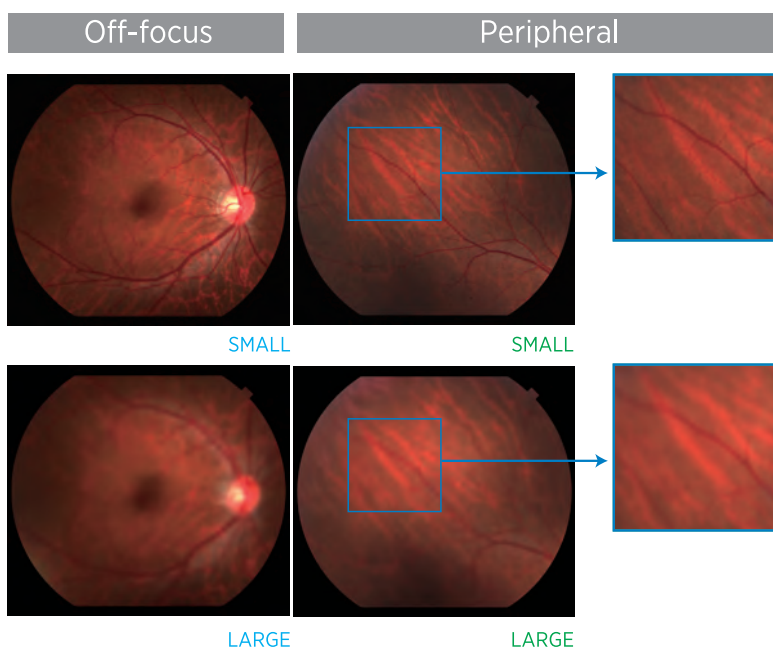
B Aperture Adjustment

The "Small" setting of the aperture produces a sharper, easier to focus image with enhanced depth of field. It offers remarkable effect in peripheral photography. Furthermore, its enhanced range of focus helps when using high resolution camera which requires severe focus aligning.



External Fixation Target

The newly designed fixation target guides the patient's eye to any desired position with a brilliant LED that shines in red or green light, changing automatically according to the study mode.

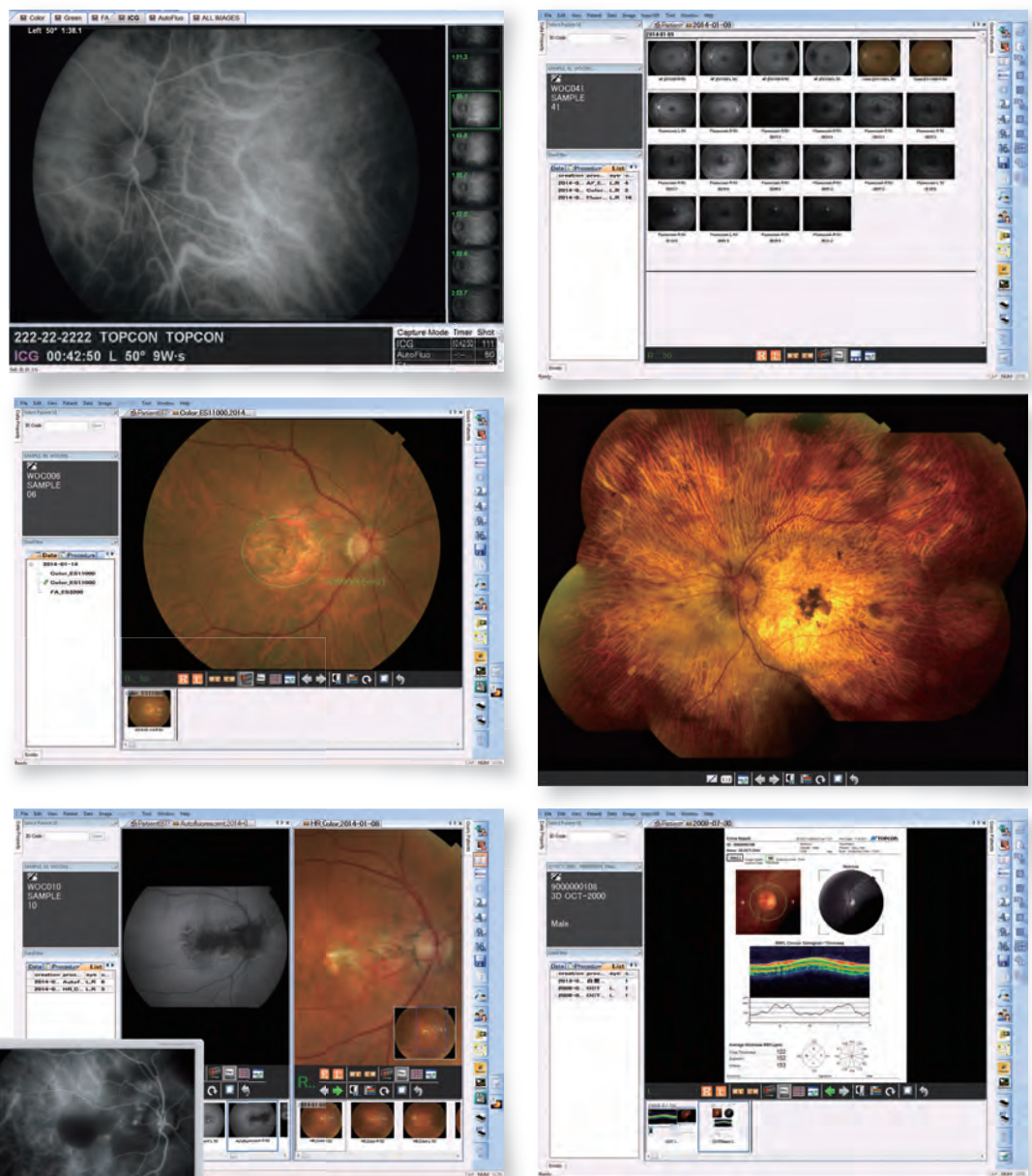


IMAGeNet™ System

IMAGeNet is a comprehensive digital imaging system capable of acquiring, processing, displaying, analyzing, and saving digital images obtained by a variety of Topcon capture devices. It enhances the clinical applications of the TRC-50DX Retinal Camera and integrates slit lamp images, Non-mydratric Retinal Camera images, OCTreports, etc. to maximize the diagnosis capability. IMAGeNet allows selecting capture modules depending on the configuration. For the TRC-50DX, DX Capture module will help for comfortable image acquisition. DX Capture detects the filter settings and CCD camera in use from the TRC-50DX and automatically sets the capture screen to the corresponding procedure.

IMAGeNet R4 (not available in all region and countries) furthermore acquires the measurement data from refraction instruments and facilitates comprehensive ophthalmology data management.

DICOM connectivity is included in IMAGeNet, which allows communicating with EMR, PACS and hospital servers. IMAGeNet fits the needs of small practices to the large hospitals.



TRC-50DX & TRC-50DX type IA

Optional Accessories

Relay Lens

OR-2 (1X Relay Lens)

The OR-2 enables conventional color photography and fluorescein angiography on film.



Double Mount TV Relay Lens

Various double relay lenses meet the requirement of attaching CCD cameras to the top part.



Triple Mount TV Relay Lens

Triple mount TV relay lenses enable integration of 3 CCD cameras to the top part.

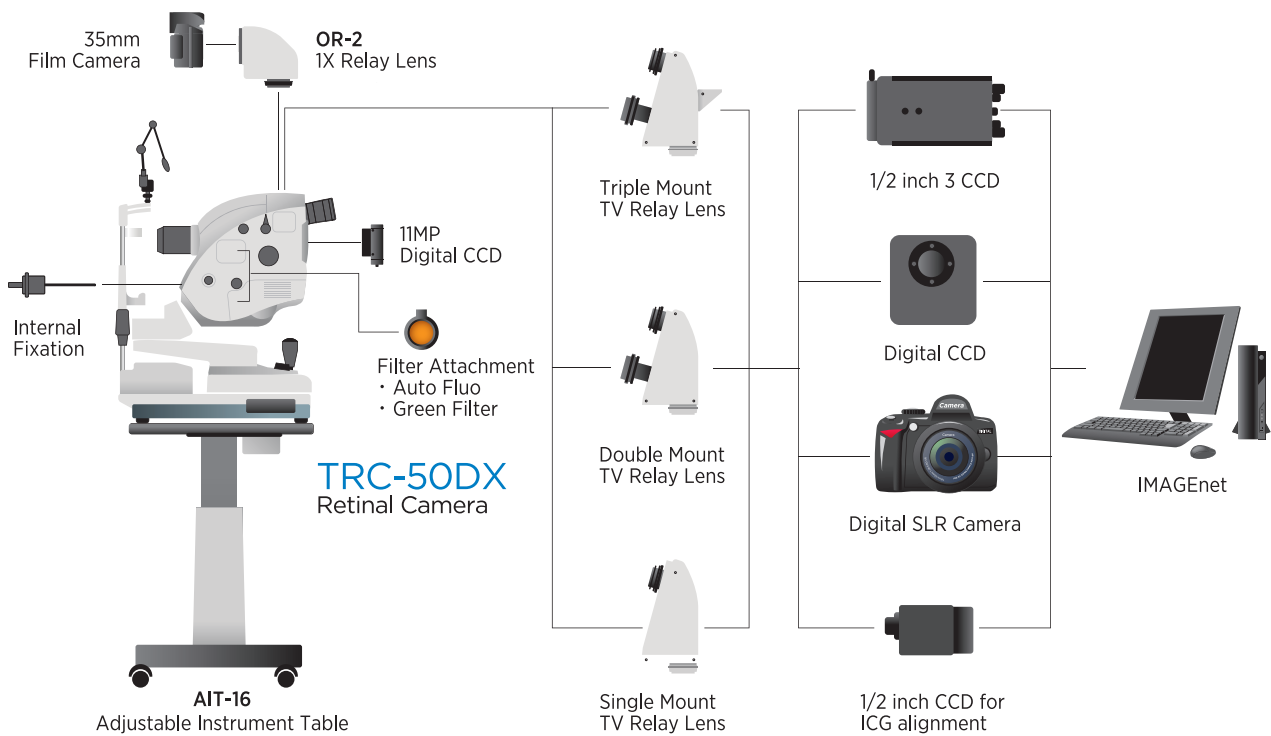


Single Mount TV Relay Lens

Single mount TV relay lenses make up simple and economical systems for color photography and fluorescein angiography.



System Chart



Specifications

TRC-50DX

50DX(Type IA)

Capture Mode	Color/Red-Free/FA	Color/Red-Free/FA/ICG/Auto Fluo
Auto Fluorescence	OPTION*	<input type="radio"/>
Angle of Coverage	50°/35°/20°	
Photographic Magnifications	With 35mm camera at zero diopter ;1.84x at 50°, 2.45x at 35°, 4.28x at 50°	
Working Distance	39 mm	
Diopter Compensation Range for patient's eye	0 -10D~+6D - -23D~-9D + +5D~+23D A +22D~+41D	
Diopter Compensation at finder	-6D~+5D	
Split Focus	<input type="radio"/> *	
Internal Fixation	OPTION*	<input type="radio"/>
Counter	<input type="radio"/> *	
Optical Head tilt	UP 15° / DOWN 10°	
Light Source	For photography : Max 300WS Xenon	
Power supply	100-120 V,200-240V / 50-60 Hz	
Power Consumption	1500VA	
Dimensions / Weight	340 mm(W) x 505 mm(D)x 506-715mm(H) / Aprox. 35 Kg	

* Available in not all countries



* 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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