

SPECIFICATIONS

Angle of coverage	50°, 35° and 20°
Working distance	39 mm [1.5 in.]
Photographic magnifications	With 35 mm camera at zero diopter: 1.84X at 50°, 2.45X at 35° and 4.28X at 20°
Total observation magnification (at zero diopter)	10X at 50°, 13.3X at 35° and 23.3X at 20°
Diopter compensation range for patient's eye	0 setting: -10 to +6 diopter - setting: -9 to -23 diopter + setting: +5 to +23 diopter A setting: +22 to +41 diopter (Ocular anterior photography)
Filters	Fluorescein angiography Autofluorescence imaging (optional) Red free photography: Green filter Other filters: Two blank settings for inserting filters of user's choice ICG angiography filter set (available only with 50DX ICG)
Illumination diaphragm	Three step changing system for patient's pupil size
Light source	For observation: 12V 100W halogen lamp For photography: Max 300WS Xenon lamp: adjustable in 21 steps Flash recycling time: 1 second
Power supply unit	AC 120V, AC 220V, AC 230V and AC 240V adjustable with voltage selector Frequency 50/60Hz
Power consumption	MAX 1,500 VA/NORMAL 150 VA
Dimensions (Main body)	340 (W) x 505 (D) x 589 (H) mm [13-3/8" (W) x 19-7/8" (D) x 23" (H)]
Weight (Main body)	37 kg [81.5 lbs]

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

* In compliance with the terms of the Export Administration Regulation of the United States of America, some of the (optional) software is not salable in some regions/countries. Some of the (optional) software is not sold in some regions/countries. Subject to change in design and/or specifications without advanced notice.



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TRC-50DX

RETINAL CAMERA
Digital Ready

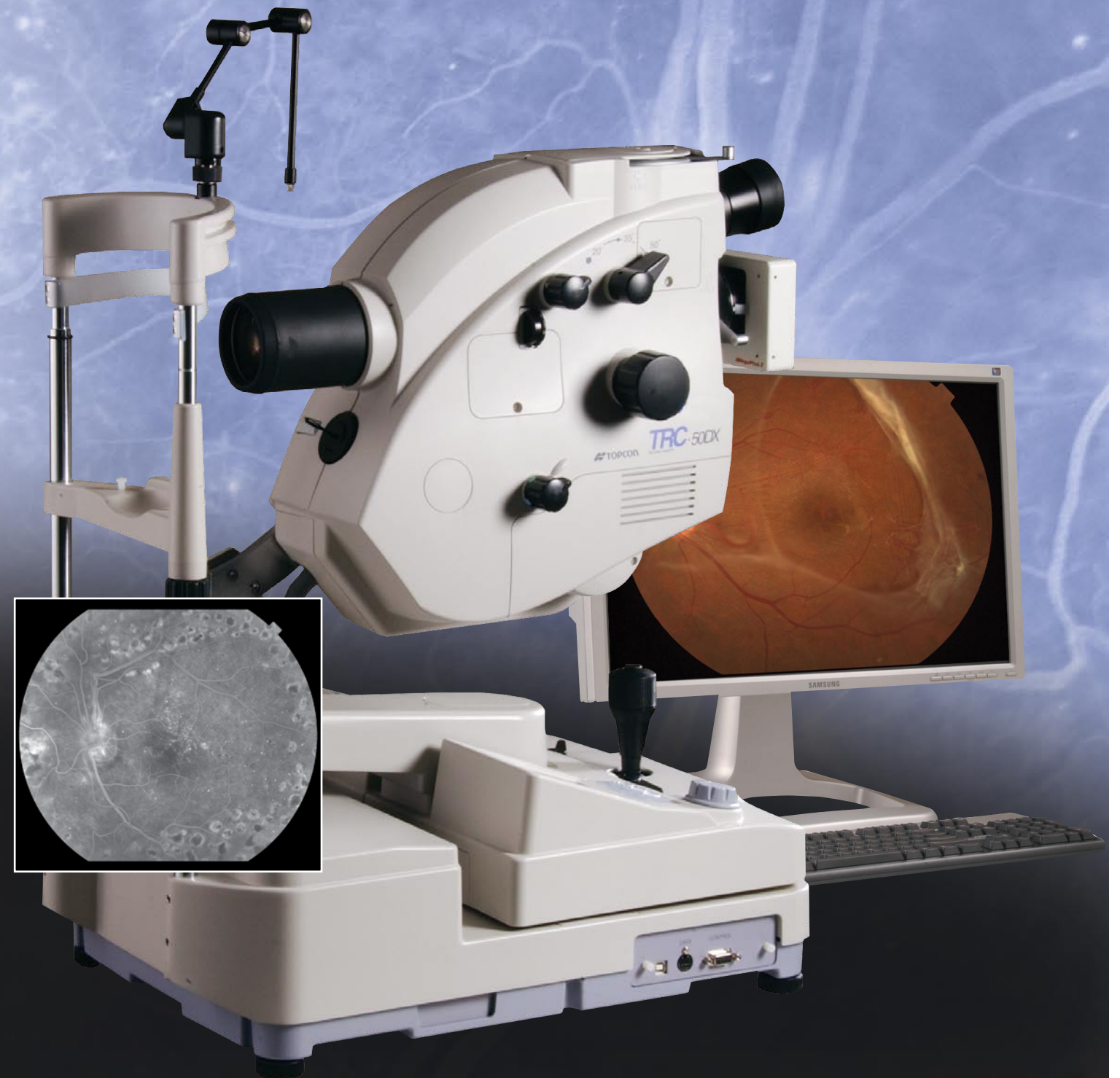
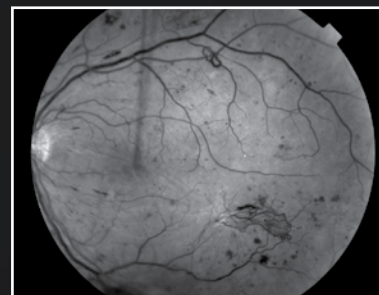
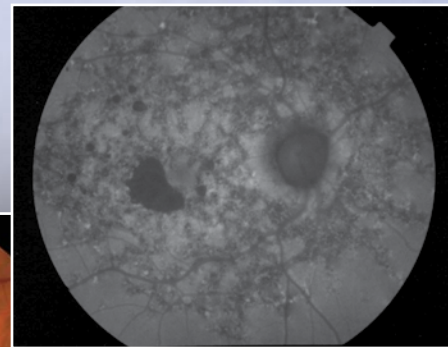
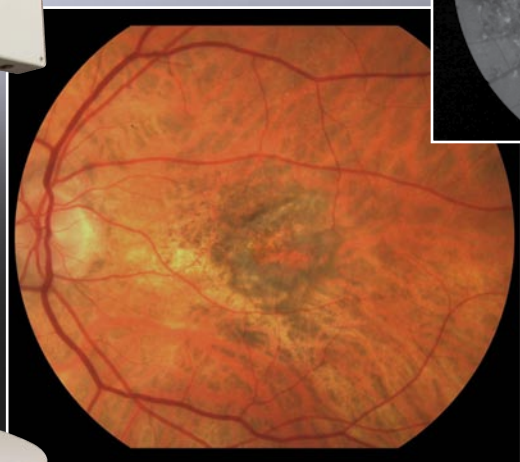


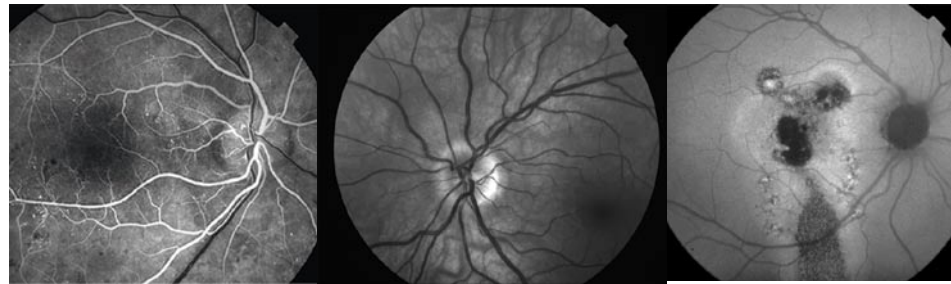
The **Gold Standard** in Retinal Imaging

In the rapidly developing technology of digital cameras, retinal imaging techniques advance quickly towards higher resolution and newer methods. Changing diagnostic applications require versatility, precision and reliability more than ever before.

The Topcon TRC-50DX Retinal Camera incorporates new functions that enhance its versatility without sacrificing Topcon's unsurpassed quality and exceptional reputation. The TRC-50DX can be used with a variety of photo devices, from film 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. Coupled with other unique features, this enables experienced as well as new users to obtain high quality photography results.





Adaptable Filter Mechanism

Filter mechanisms for barrier, exciter and supplemental filters are more easily accessible to allow filter changes for replacement, choice of procedures and research projects.

Autofluorescence

This diagnostic procedure is new to fundus camera imaging. It allows imaging of the ocular fundus relying on the presence of lipofuscin in the retina pigment epithelium (RPE). The TRC-50DX features the capability of adding the additional exciter and barrier filters for use with digital monochromatic CCD cameras. Auto Fluorescence is a promising addition to other standard fundus camera procedures. Auto Fluorescence is optional and requires an upgrade kit.



Shown with MT-10 camera back.



Optimized Flash-Intensity Control

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

Small Pupil Mode

The "SMALL PUPIL" mode permits imaging through pupils as small as 4.5mm, which is useful when the patient is not well dilated due to medication and other physiological reasons.



Small Aperture Adjustment

The "SMALL" setting produces a sharper and easier to focus image because of enhanced depth-of-field.



Working Distance Dots

Green alignment dots provide easy confirmation of working distance of the objective lens to the ocular region. These alignment dots are helpful for pre-injection positioning in fluorescein angiography (FA), red-free, and color fundus photography.

Digital Transfer

The Topcon TRC-50DX features several unique capabilities which enhance its use, increase convenience and reduce errors when coupled with IMAGEnet™. The angle selection [20° – 35° – 50°] as well as Left Eye – Right Eye transfer data directly to the patient file automatically during image capture.



Stereo Image Capability

Stereo imaging is simple and repeatable using the stereo locking lever. Two images representing stereo pairs are captured quickly and easily every time.



Immediate Access to Controls

Designed with user convenience in mind, the TRC-50DX features an illuminated touch panel control that allows the operator to change camera settings with a light touch. All adjustments are at the technician's fingertips.



High and Wide Eyepiece Viewing

The eyepiece of the TRC-50DX is designed for high and wide eye distance viewing making alignment and focusing fast, easy and comfortable for the technician.



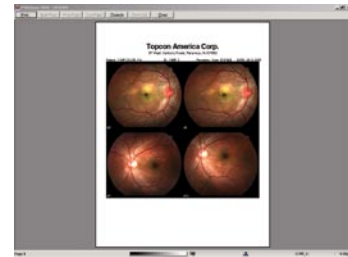


Communicating with TRC-50DX

- Transfer of Left Eye – Right Eye
- Field of view 20° – 35° – 50°
- Enters into permanent Patient Database file
- Eliminates transcription errors

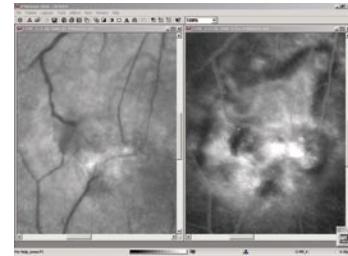
Superior Measuring Functions

- Photo dynamic therapy
- Linear distance and area measurement
- ETDRS segmentation report
- Cup to disk ratio
- Stereo viewing with measuring



Flexible Print Control Panel

- Click on the desired template, apply the chosen images and the print template is built automatically
- Individual image enhancements
- Customizable print templates
- Multiple print sizes

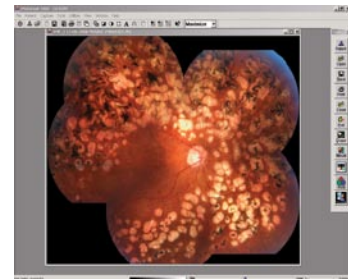


Database Power

- Fully compatible with all IMAGEnet releases
- Easy to navigate
- Access all patient data with powerful IMAGEnet Search™ function

Image Compare

- Easily compare multiple images side-by-side
- Map overlay from one image to another



Easy Image Navigation

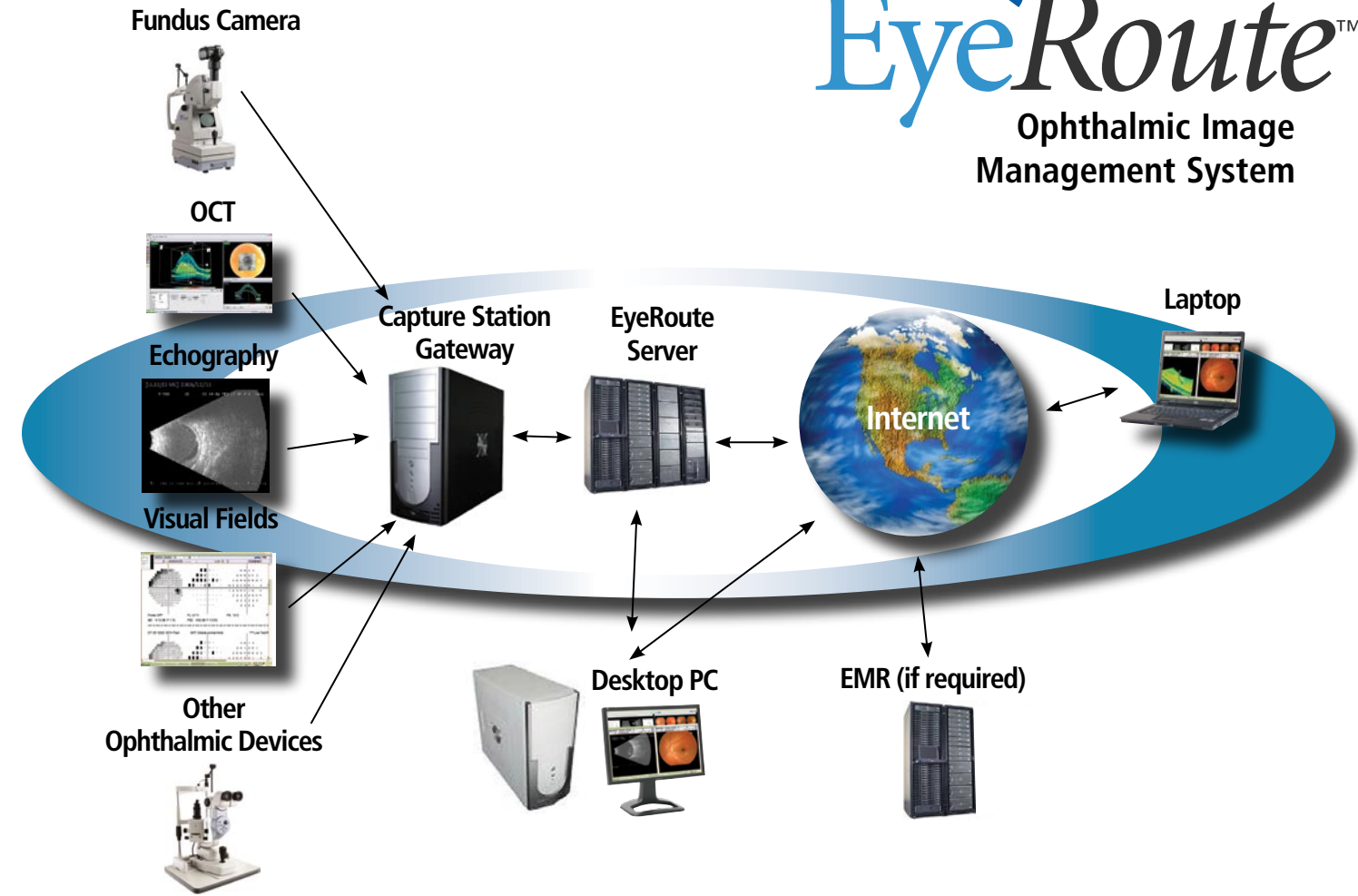
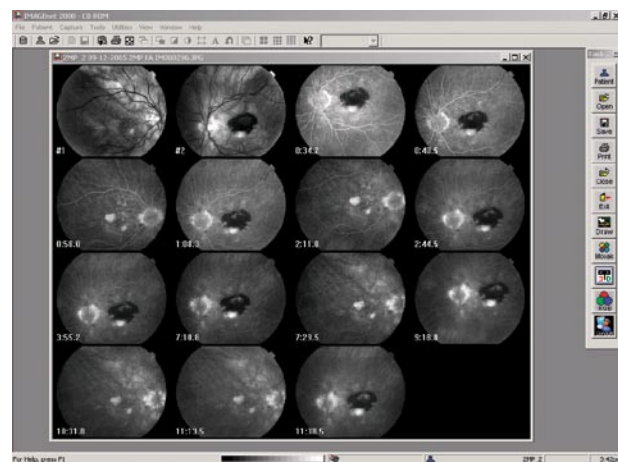
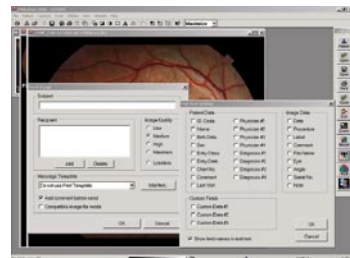
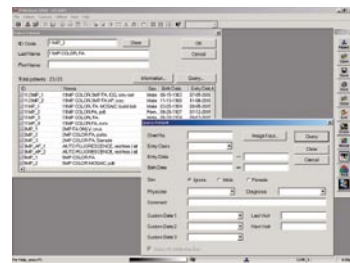
- Access image files through a variety of inquiry commands
- Customizable navigational icons

Wide-field Automosaic

- Allows up to 110° documentation of the retina
- Automatically stitches a series of retinal images to form a large composite image

Patient Education

- Enhances the communication with patient and family members
- View simulations, sample diseases of the eye and graphic eye drawings



Easy-to-use

- Works on a single point-and-click web-based browser
- Can be accessed remotely from any web enabled device
- Automatically imports patient data, reports and images from different instruments
- Can be easily expanded and customized to your particular needs

Fast

- Uses the latest networking technology for fast access and rapid transfer of large image files
- Gives rapid access to referring doctors, facilitating instantaneous consultations
- Powerful search tool speeds and enhances research
- Simplifies the use of images in presentations

Safe and Secure

- Offers multi-level patient data validation
- Is a redundant, fault tolerant system designed to operate even with hardware failures
- Provides high reliability - no more misplaced charts and incorrect graphics
- 24/7 remote monitoring
- HIPAA-compliant, meeting the highest network security requirements and with high-end firewall protection

Affordable

- Preserves past investments, as it complements and is compatible with most instruments and EMR systems
- Uses existing data
- Eliminates much of the paper and printing cost
- Eliminates hours of dictation through specific drawing and automatic report generation