

Canon



CX-1

Digital Retinal Camera

Mydriatic/non-mydriatic

Redefining True versatility

The multifaceted CX-1

The CX-1 is a Mydriatic Retinal Camera with full Non-Mydriatic functionality. Besides color photography, the CX-1 is equipped with high quality optical filters for FLUO, Red Free, Cobalt and standard even with FAF photography.

The CX-1 can be changed into a NM camera by a simple push of a button. The Non-Mydriatic mode is essential for non dilatable patients such as glaucoma suspects. Children and photosensitive patients will also benefit from the non invasive IRED observation light.

All photography modes can be performed in the MYD and NON MYD mode. This provides exceptional versatility and enables diagnosis, screening and monitoring of all major eye diseases.



MYD mode

Observation by viewfinder
Visible observation light



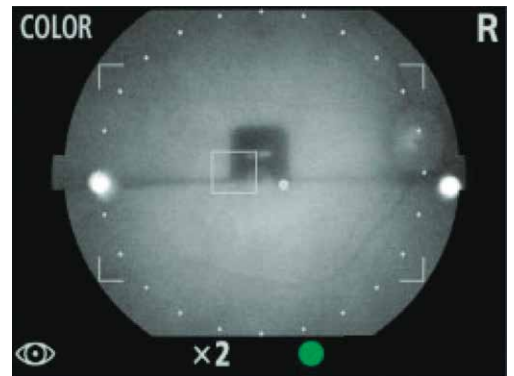
NON MYD mode

Observation by EOS screen
Invisible IR observation light



Dedicated EOS camera

Canon has used their expertise in digital camera technology to create a unique digital EOS camera dedicated to ophthalmic photography: Completely integrated with the functions of the CX-1 to assist in easy image acquisition.



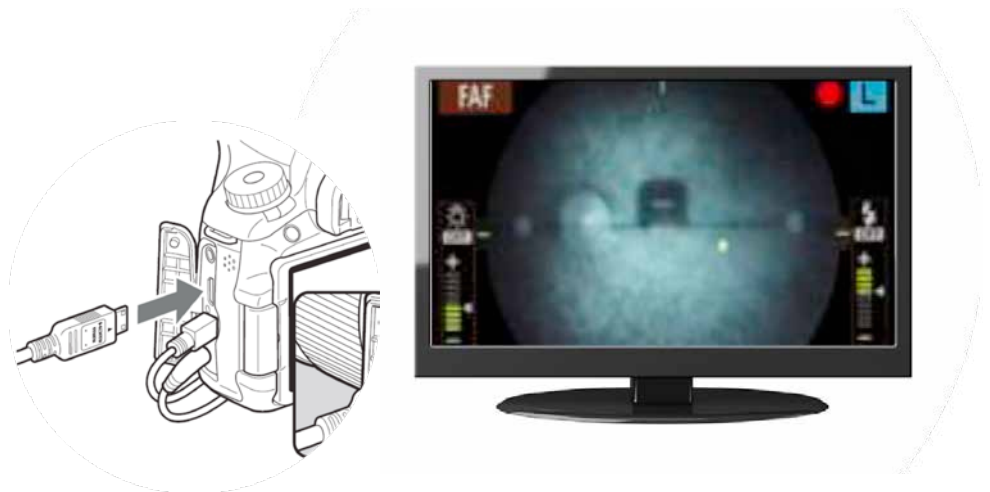
Vari-angle LCD screen

For ergonomic observation.



External monitor

The IR observation image on the EOS screen can be viewed on an external larger monitor in full HD. Simply connect a HDMI cable to the EOS.



Easy panning and tilting

For working around central obstructions (cataracts, vitreous hemorrhages) and imaging the peripheral retina for creating large mosaic images effortlessly.



Easy operation

Compact device

For maximal patient interaction.
Easy to observe patient.



Short reaching distance for easy opening patient's eyelid.



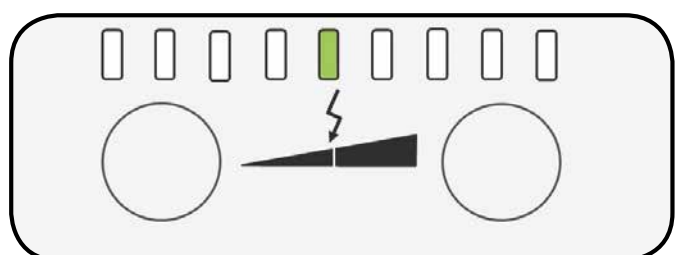
Motorised filters; easy to operate and protected from dust.

Motorized chin rest for easy adjustment.



Automatically optimized flash range

The CX-1 has an automatically optimised flash range, - adjusted to the different photography modes and ISO settings. It will help you by automatically selecting one of the 168 possible flash settings.



Extensive Photography Modes

Sophisticated optical filters for highest image quality

All photography modes are available in MYD or NON-MYD mode.



Color
Base Line



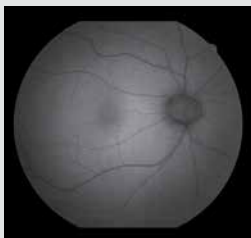
Cobalt
Visualizing Nerve
Fiber Layer,
important for
checking for
Glaucoma



Fluo
Checking retinal
flow for occlusions
and leakages



Red free
Useful for checking
the condition of
the blood vessels,
important for
detecting Diabetic
Retinopathy



FAF
FAF Imaging for the diagnosis of retinal disease is a relatively new diagnostic technique that provides more information on the health of the retinal pigment epithelium. FAF has proven to be very useful for the early detection of age related Macula Degeneration (AMD), one of the leading causes of visual impairment. Recent studies indicate that FAF Imaging can also aid in the diagnosis of a variety of other diseases and even in the detection of intraocular tumors.

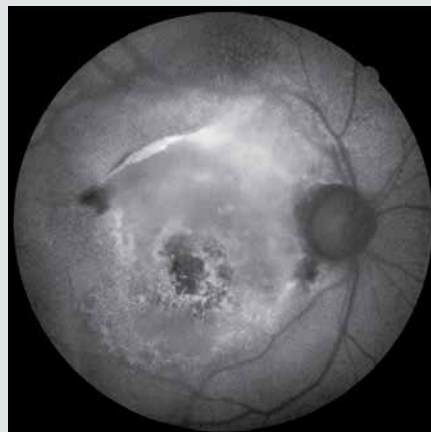
Diabetic retinopathy



Occlusion



AMD

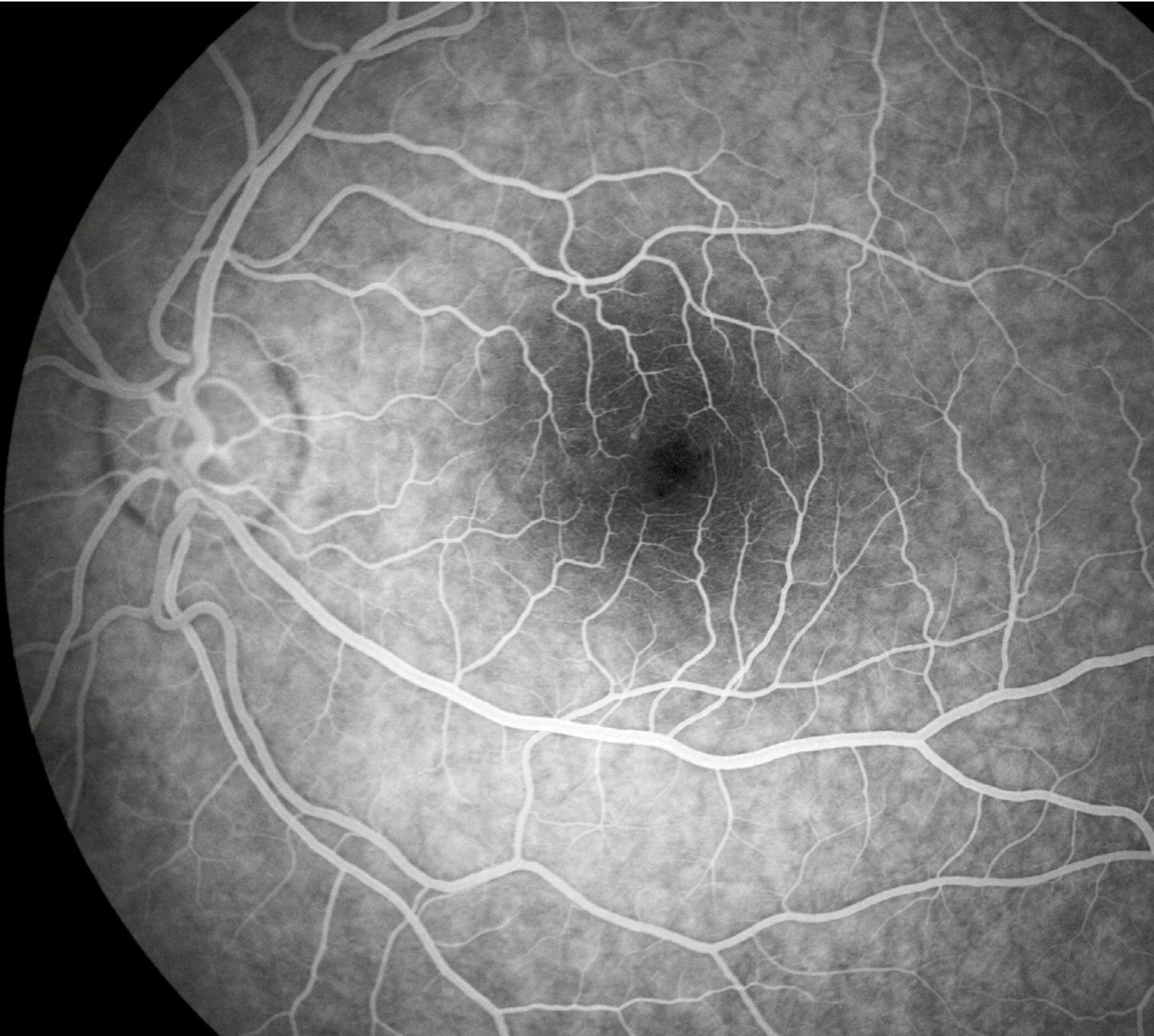


- # Unrivalled Image quality



Dedicated 24 Mega Pixel EOS camera

Canon's own EOS camera technology, with its renowned image processing capabilities, is adapted exclusively for Canon retinal cameras, it provides optimal retinal imaging.



Canon Opacity Suppression

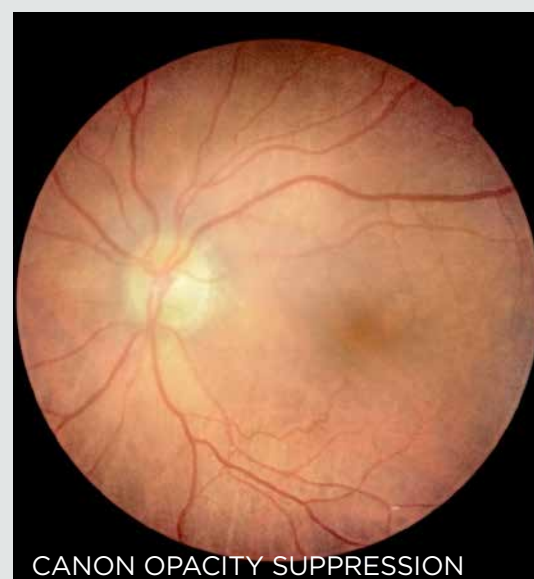
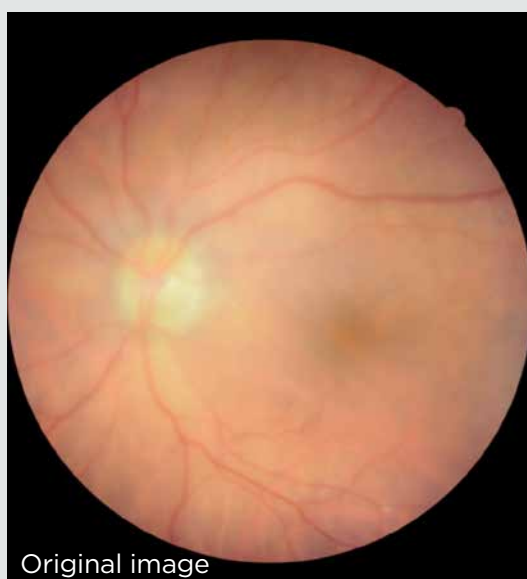
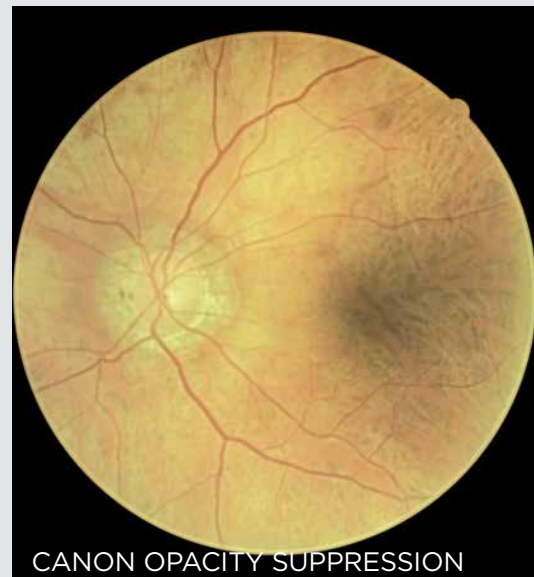
When obtaining retinal images, ocular opacities can cause several problems. Canon opacity suppression tool is a unique and sophisticated software tool, that based on information from the EOS CMOS sensor will largely suppress the effect of ocular opacities on color images.

Ocular opacities

- The scattering of the light will make the edges of the blood vessels appear blurred
- The difference in brightness of the retina will be reduced, making it very difficult to distinguish between structures
- A cataract eye will cause images to appear more yellow

With Canon Opacity Suppression

- The original brightness and color of the retina will be restored
- The blood vessels will appear much clearer

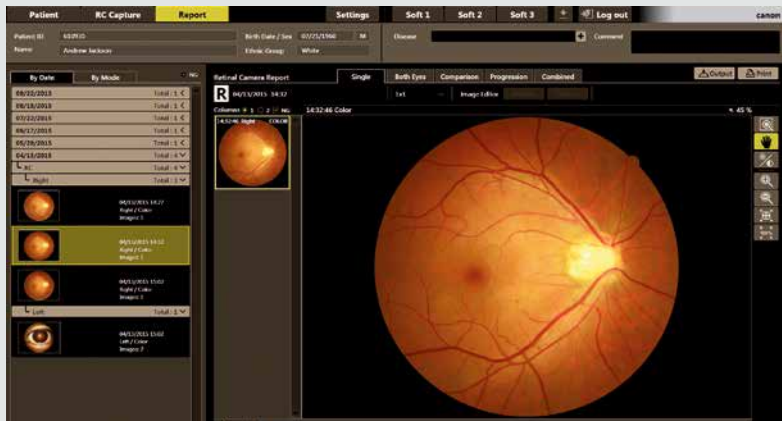


With Canon Opacity Suppression (COS) the effect of ocular opacities will be largely suppressed: previously unsuitable images could now provide you with essential clinical information.

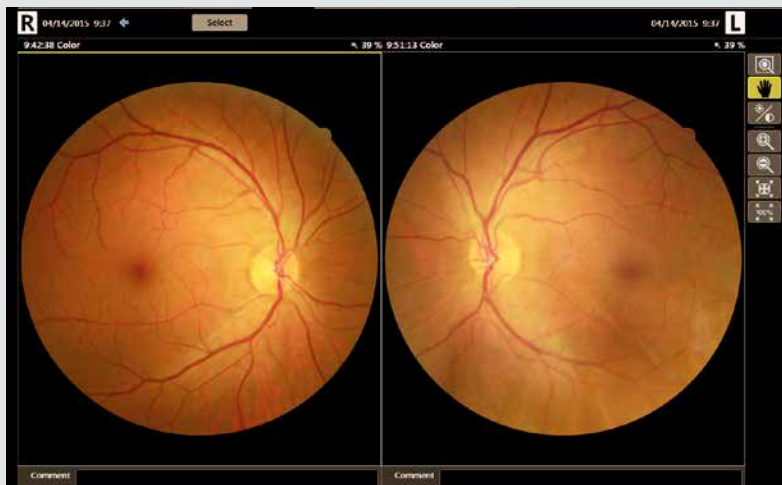
Canon Retinal Expert software RX

RX

The new software platform for Canon retinal cameras and OCT. Designed for seamless integration and connectivity with patient management systems.



Extremely intuitive user interface

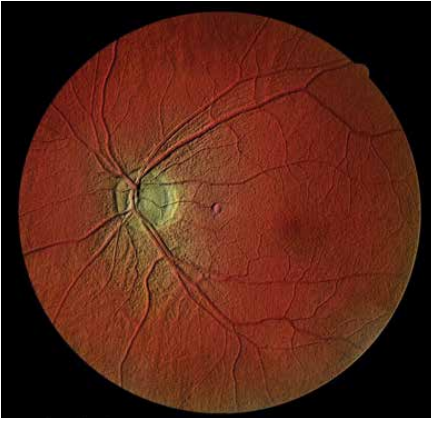


Compare both eyes or studies from different dates

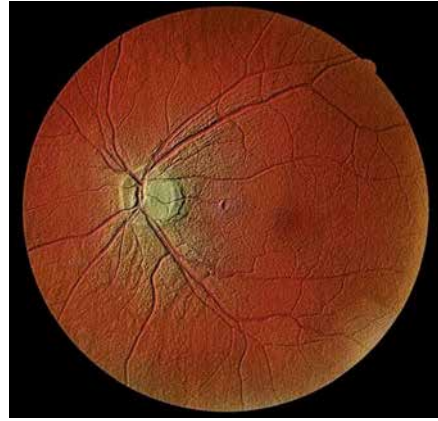


Observe progression; select up to 5 past examinations

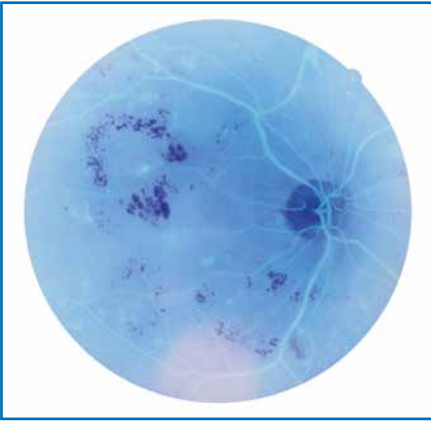
•
Extensive software tools



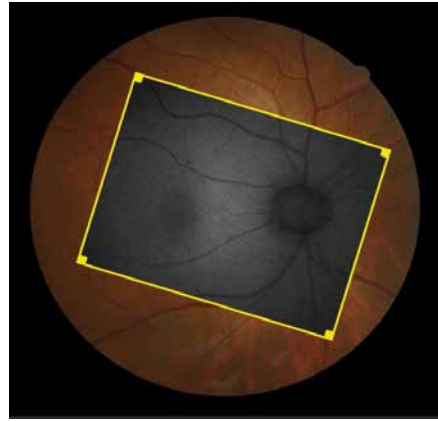
Emboss Negative
The blood vessels stand out.



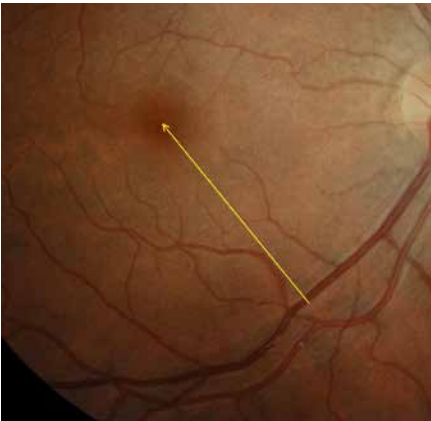
Emboss Positive
The optic disc stands out.



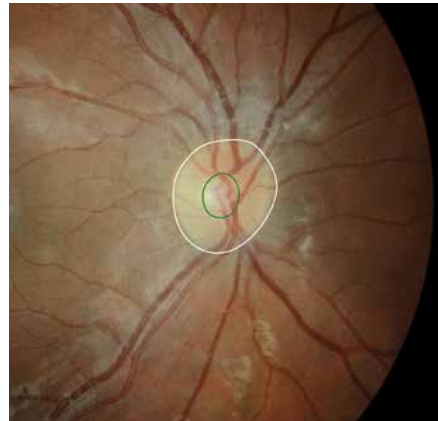
Inversion
Inverts the color of an image to assist diagnosis.



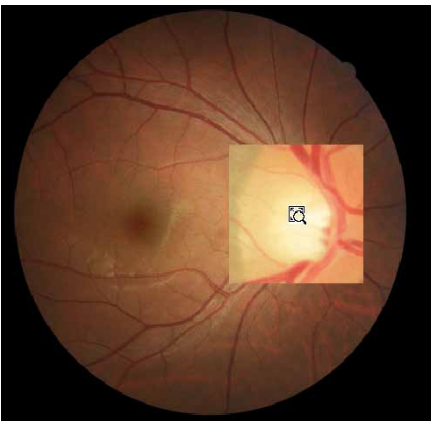
Overlay
Overlay 2 images to see differences and changes in pathology.



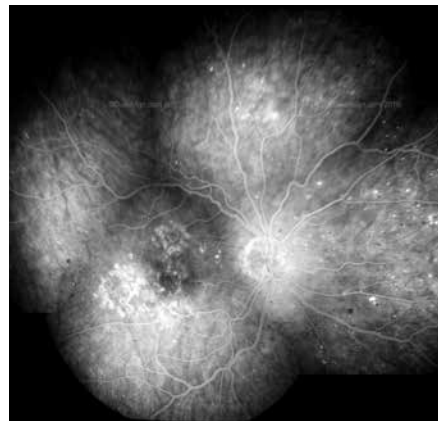
Annotations
Add shapes and texts to a captured image.



Cup/disc measurement
Measure the optic nerve papillary area.



Loupe function
To assist diagnosis.



Mosaic function
Up to 20 images can be combined (optional feature).

Canon Retinal Expert Software Platform RX



Stand alone configuration

All-in one system. Capturing, viewing and database.



RX Capture

- Capturing
- Reviewing and reporting
- Database and archive

RX Viewer

- Reviewing
- Reporting

RX Viewer

- Reviewing
- Reporting

Optional

RX Viewers can be connected over the network and access the database of the device.

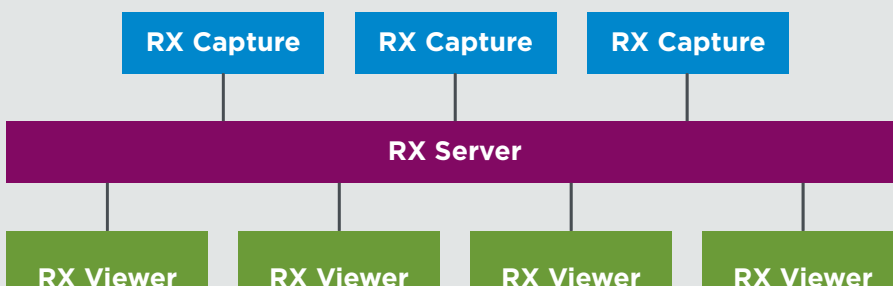
Up to 2 RX viewers can access the database at the same time.

A CX-1 could be added to a Canon OCT in a standalone configuration, sharing the same PC and database. Analysis results of both devices can be combined in one combined report.



Network configuration

With a RX Server up to 5 systems can be connected with maximum 10 concurrent viewers.



RX server and RX viewers have to be purchased separately.

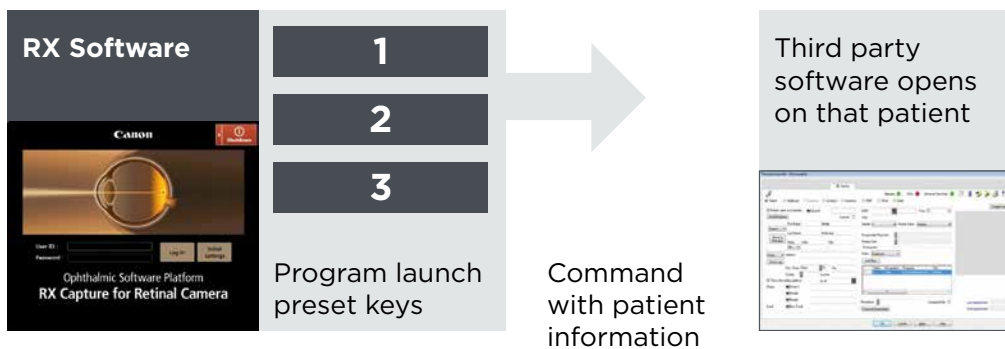
Seamless integration with patient management systems

The Canon RX software can automatically start the patient management software on the selected patient and vice versa. (Command Line Interface)

Third party software can start the Canon RX software



Canon RX software can start third party software



Versatile Patient data input possibilities for optimal integration

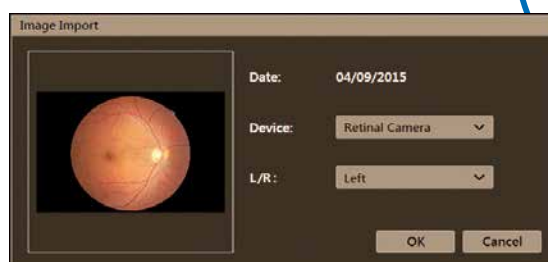
- Input data manually
- Import a list from the practice management system
- Use a Modality worklist (in a DICOM environment)

Image Import

Import images from other devices and save them into the database together with the other diagnostic information of the patient.



RX software is fully DICOM compatible



Specifications CX-1

Dimensions	320 W x 531 D x 577 H mm, 26 kg	Focus Adjustment	Split Lines
Angle of view	MYD: 50 degrees, Non-Myd: 45 degrees 2 X magnification (digital)	Working distance	Corneal Reflection dots adjustment
Minimum pupil size	Myd: \varnothing 5.1mm (SP mode \varnothing 4.3 mm) Non-Myd: \varnothing 4.3 mm (SP mode \varnothing 3.8 mm)	Panning and Tilting	30 degrees to the left and right tilting range 15 degrees up, 10 degrees down
Working Distance	35mm	Light sources	Xenon tube for photography Halogenlamp for observation (Myd mode) IRED LED for observation (Non-Myd mode)
Photography modes	Colour /FA /Red Free /Cobalt and FAF	Fixation targets	External Internal LED dot matrix for Non-Myd mode (70 points) Internal fixation target for Myd mode (optional)
Mounted camera	Dedicated digital EOS camera (24 MegaPixel for current model) HDMI Output for external monitor Full HD resolution	Optional accessories	Stereo Unit SU-1 Internal eye fixation (CX-IF) Chin rest paper (500 sheets)
Flash levels	168 steps		
Patient's diopter	-31D ~ -7D, -10D ~+15D (standard) compensation +11D ~+33D		

Your Canon dealer:

Canon

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