

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.

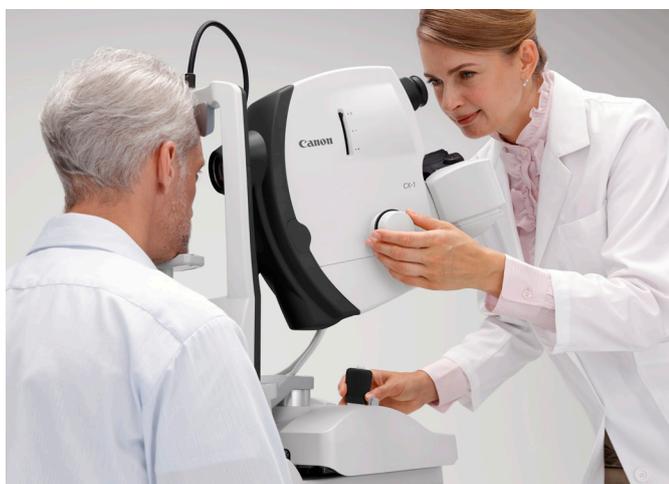
The CX-1 can be changed into a NM camera by a simple push of a button. The Non-Mydriatic mode is essential for non dilatable patients such as glaucoma suspects. Children and photosensitive patients will also benefit from the non invasive IRED observation light.

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



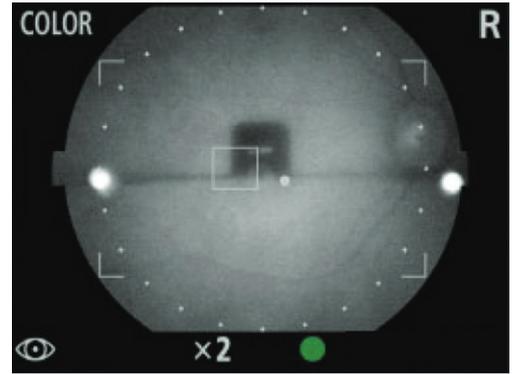
NON MYD mode

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.



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.



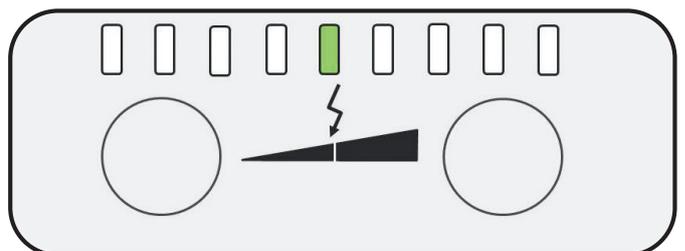
Motorized filters; easy to operate and
protected from dust.

Motorized chin rest for easy adjustment.



Automatically optimized flash range

The CX-1 has an automatically optimized
flash range, adjusted to the different
photography modes and ISO 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 32.5 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

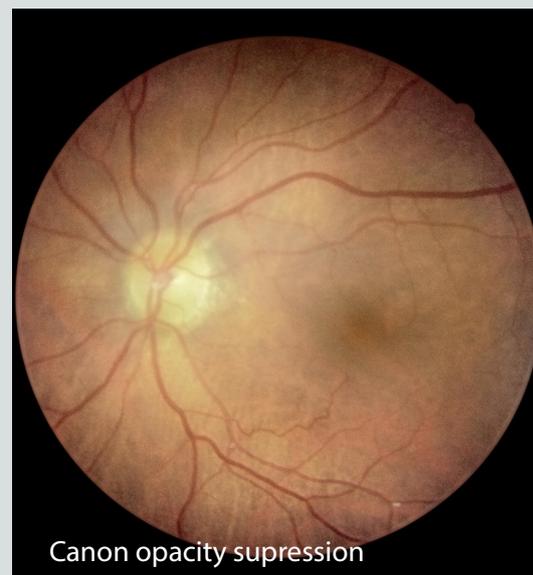
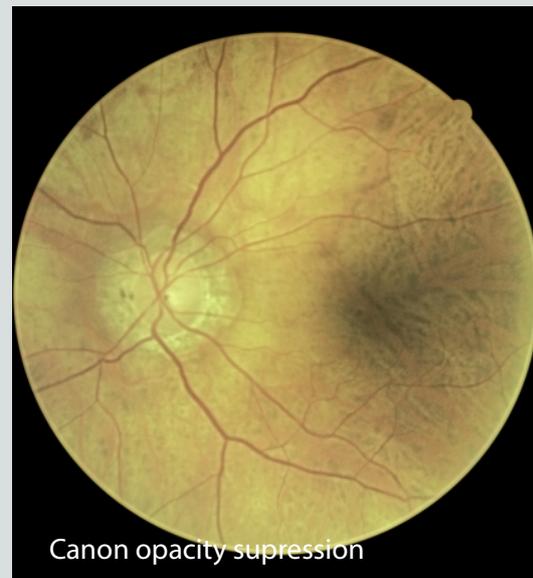
When obtaining retinal images, ocular opacities can cause several problems. Canon opacity suppression tool is a unique and sophisticated software tool, that based on information from the EOS CMOS sensor will largely suppress the effect of ocular opacities on color images.

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

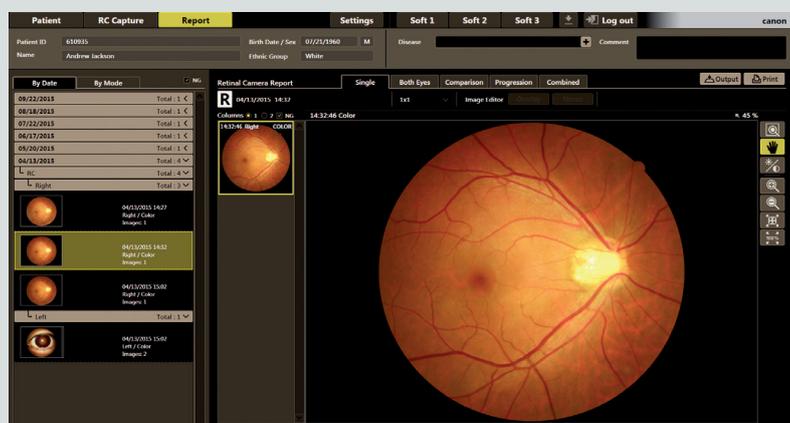


With Canon Opacity Suppression (COS) the effect of ocular opacities will be largely suppressed: previously unsuitable images could now provide you with essential clinical information.

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

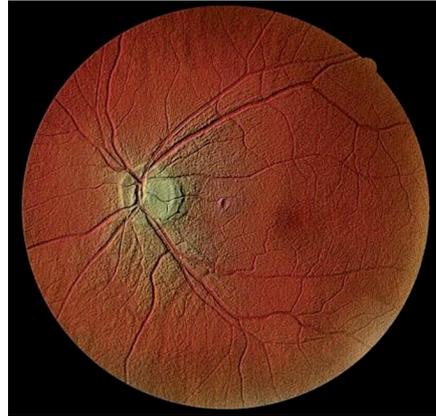


Observe progression; select up to 5 past examinations

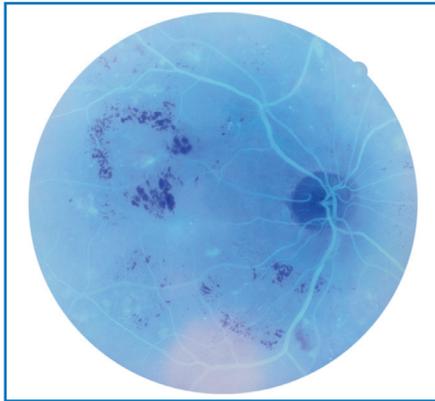
Extensive Software Tools



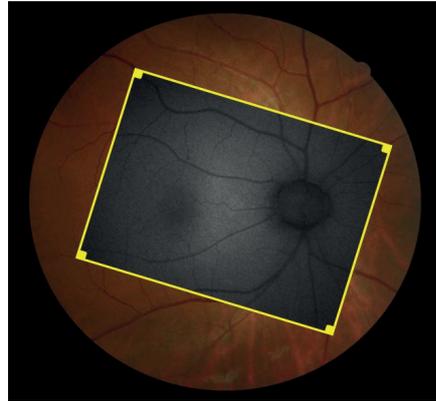
Emboss Negative
The blood vessels stand out.



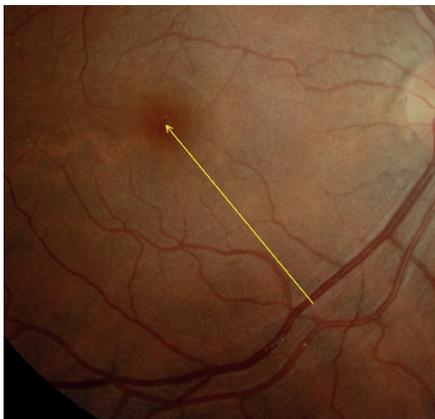
Emboss Positive
The optic disc stands out.



Inversion
Inverts the color of an image to assist diagnosis.



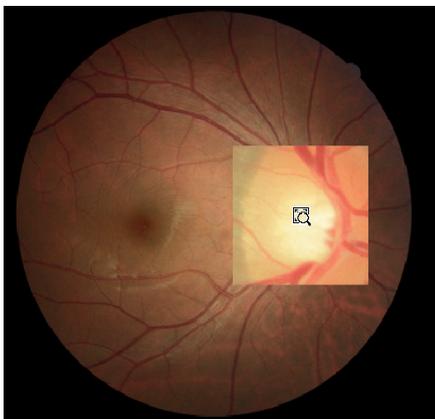
Overlay
Overlay 2 images to see differences and changes in pathology.



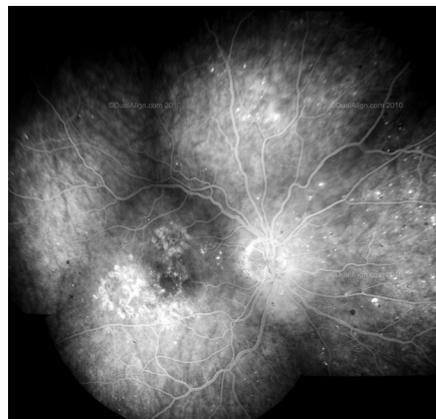
Annotations
Add shapes and texts to a captured image.



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.

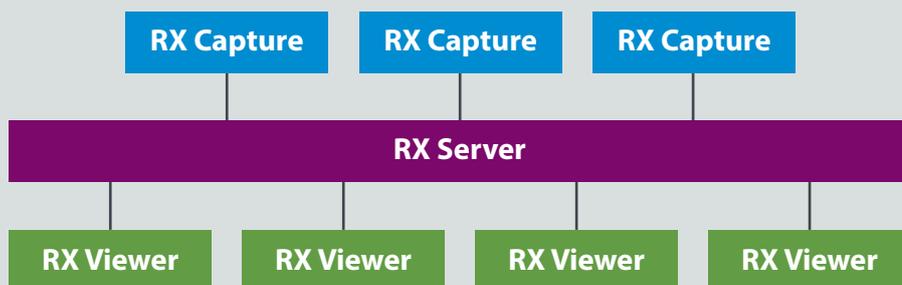
Up to 2 RX viewers can access the database at the same time.

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

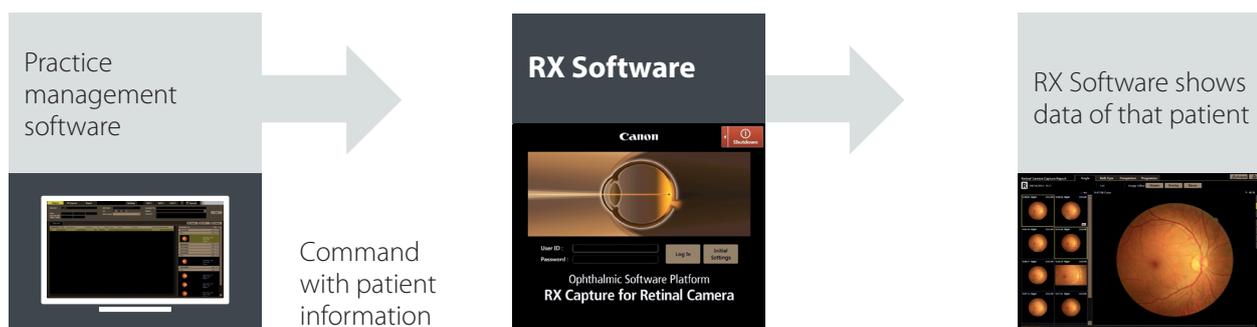


RX server and RX viewers have to be purchased separately.

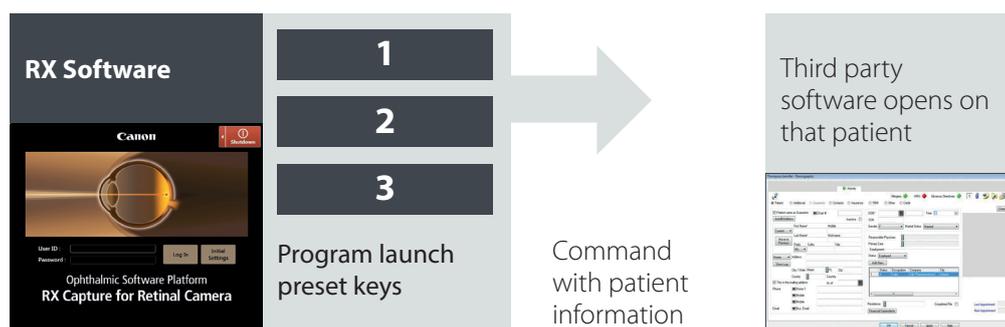
Seamless Integration with Patient Management Systems

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

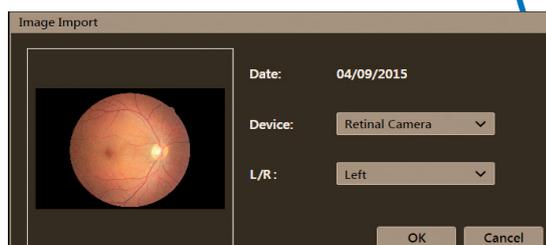
- Input data manually
- Import a list from the practice management system
- Use a Modality worklist (in a DICOM environment)



RX software is fully DICOM compatible

Image Import

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



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 5.1 mm (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	Color /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 (32.5 MegaPixel for current model) HDMI Output for external monitor Full HD resolution	Optional accessories	Internal eye fixation (CX-IF) Chin rest paper (500 sheets)
Patient's diopter	-31D ~ -7D, -10D ~+15D (standard) compensation +11D ~+33D		

To schedule a demo or for additional information, call (833) 521-3937 or visit our website.

Follow us: <https://us.medical.canon>



@CanonMedicalUS



Canon Medical Systems USA, Inc.



+CanonMedicalUS

CANON MEDICAL SYSTEMS USA, INC.

<https://us.medical.canon> | 2441 Michelle Drive, Tustin CA 92780 | 800.421.1968

©Canon Medical Systems, USA 2023. All rights reserved. Design and specifications are subject to change without notice. Made for Life is a trademark of Canon Medical Systems Corporation. YouTube logo is a trademark of Google Inc. TWITTER, TWEET, RETWEET and the Twitter logo are trademarks of Twitter, Inc. or its affiliates. LinkedIn, the LinkedIn logo, the IN logo and InMail are registered trademarks or trademarks of LinkedIn Corporation and its affiliates in the United States and/or other countries. Canon Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.

Some products and features described in this brochure may only be offered as options and may not be commercially available in all countries due to regional restrictions. Please contact your local Canon Medical Systems sales representatives for the most current information.

ECBR13590US

Made For life