

Canon

CX-1

Digital Retinal Camera **MYD/NM**

Mydriatic/Non-mydriatic Hybrid Retinal Camera



A simple, compact unit for high-quality mydriatic and non-mydriatic photography.

The CX-1 provides one-touch operation to select all modes, and features mydriatic and non-mydriatic photography.

Its sleek, compact body boosts efficiency in exam rooms.

It features a digital camera unit combining Canon's SLR camera technology and fundus camera technology. All this delivers high-definition, high-quality retinal images.





One Unit for Simple Mydriatic/Non-mydriatic Photography

CX-1 is a single system capable of mydriatic and non-mydriatic photography. Mydriatic photography uses an optical viewfinder, while non-mydriatic photography uses the monitor for fundus observations. Modes can be switched with one touch of the panel button.

Digital Camera Unit for Fundus Camera

A digital camera unit has been developed specifically for the CX-1, combining the functions of SLR camera technology and fundus camera technology. The result is clear with greater-detail, higher-quality images.

Mydriatic/Non-mydriatic Color Low-light Photography

Color photography with the CX-1 is possible with low flash intensity for less strain on the patient, regardless of mydriatic and non-mydriatic modes.

Five Photography Modes

Five photograph modes: COLOR/RED FREE/COBALT/FLUO/FAF. Both mydriatic and non-mydriatic images can be captured. All modes can be selected by simply using the button on the panel.

Non-mydriatic Fundus Autofluorescence (FAF) Photography

The CX-1 can take fundus autofluorescence (FAF) photography for non-mydriatic observations. Imaging is quick and easy, and also less stressful for patients.





Intuitive Operation

Lightweight, compact design means the CX-1 is a breeze to handle, and easy to assist the patient in opening their eyelids. With pan and tilt functions, it can be stopped in the direction you want to photograph.

A simple, compact retinal camera with functions

Five Photography Modes

COLOR / RED FREE / COBALT / FLUO / FAF

Each mode is available with mydriatic and non-mydriatic photography.

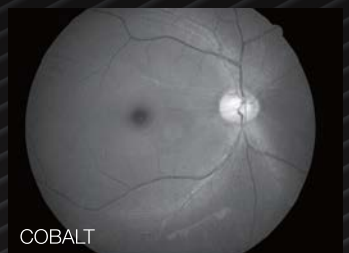
FLUO photography can be used in 1 photo/sec burst mode.



COLOR



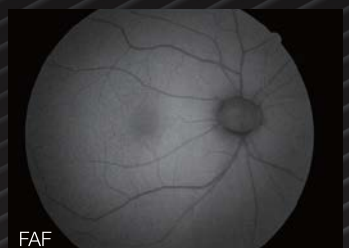
RED FREE



COBALT



FLUO



FAF

Easy-to-use Control Panel

Frequently used functions, like switching between mydriatic and non-mydriatic observations or selecting modes, are arranged intuitively. The result is simple and easy-to-use operations.



for mydriatic and non-mydriatic observations



Dedicated Digital Camera for Retinal Photography

A digital camera unit has been developed specifically for the CX-1, combining Canon's expertise with SLR camera technology and fundus camera technology. The CX-1 and Canon's digital camera technology operate in concert to deliver high-quality images.



Five photography modes available in both mydriatic and non-mydriatic modes.

CX-1 Image samples



COLOR

Retinitis pigmentosa



FLUO

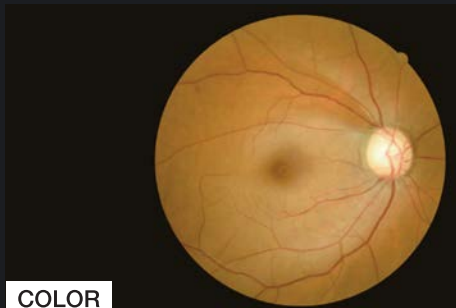


COLOR

Retinitis pigmentosa

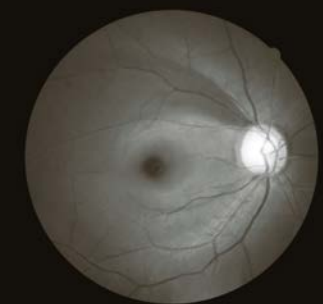


REDFREE

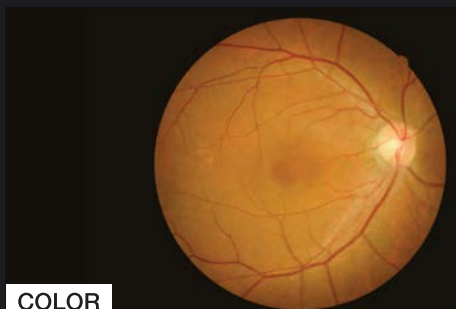


COLOR

Nerve fiber layer defect

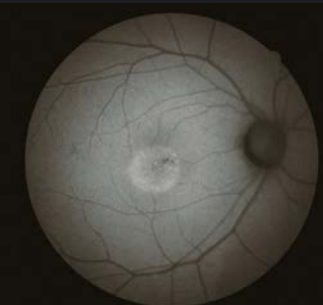


REDFREE

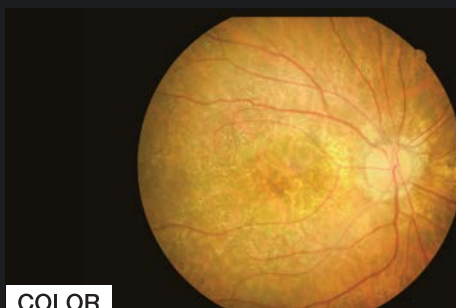


COLOR

Central serous chorioretinopathy

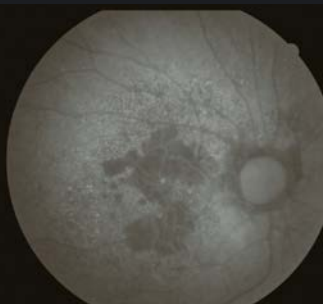


FAF



COLOR

Atrophic age-related macular degeneration



FAF

Fundus Autofluorescence (FAF) Photography Available for Both Mydriatic and Non-mydriatic

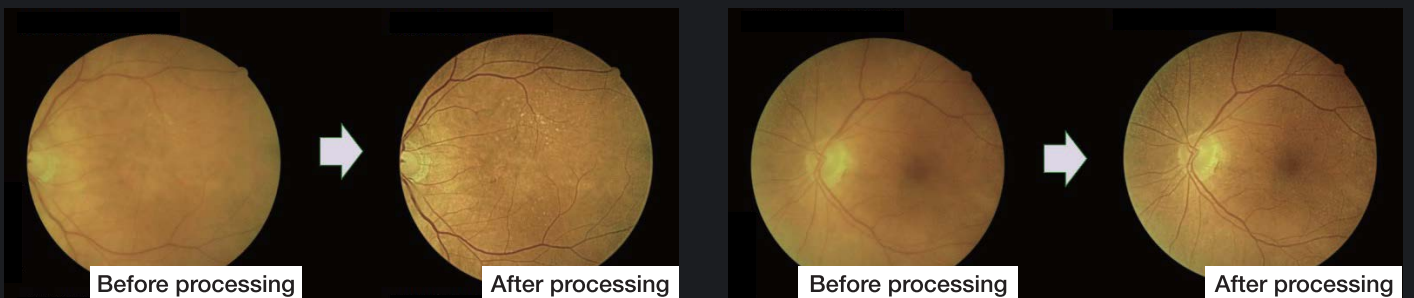
The CX-1 comes standard with the fundus autofluorescence (FAF) photography function for mydriatic and non-mydriatic observation of both eyes. Results are available quickly and easily, which can also reduce patient stress.

High-quality Fundus Autofluorescence (FAF) Photography

Canon's autofluorescence (FAF) photography uses a high-sensitivity digital camera unit capable of taking realistic, high-quality images.

Opacity Suppression

An image processing method that makes optic nerve heads and blood vessels easier to see in unclear fundus images with cloudy optic media, such as with cataracts.



Panorama Image Creation * Optional

The software automatically stitches together multiple images taken from any desired direction.



CX-1 Specifications

Type	Mydriatic and Non-mydriatic
Photography mode	COLOR, RED FREE, COBALT, FLUO (fluorescein angiography), FAF (autofluorescence)
Retinal observation	Mydriatic mode: Optical viewfinder
	Non-mydriatic mode: LCD monitor mounted on rear of digital camera unit
Field angle	Mydriatic mode: 50°
	Non-mydriatic mode: 45°
Magnification	2x (digital)
Mounted digital camera	CX-1 digital camera unit
Patient diopter compensation range	Without compensation lens: -10 D to +15 D
	When using negative compensation lens: -31 D to -7 D
	When using positive compensation lens: +11 D to +33 D
Working distance	35 mm
Focusing	Split-line alignment type
Working distance adjustment	Working dots
Eye fixation lamp	Mydriatic mode: External eye fixation lamp
	Non-mydriatic mode: External eye fixation lamp, internal eye fixation lamp
Observation light source	Mydriatic mode: Halogen lamp
	Non-mydriatic mode: Infrared LED
Photography light source	Xenon tube
Operating range	Stage: Front/back: 65 mm, Left/right: 110 mm
	Main unit up/down: 30 mm
Panning range	Left/right: 30°
Tilting range	Up: 15°
	Down: 10°
Operating environment	Temperature: 10°C to 35°C
	Humidity: 30% to 80% RH
Dimensions	W320 mm × L531 mm × H577 mm
Weight	26 kg

Main Components

CX-1 main unit
Digital camera
External eye fixation lamp
Digital camera cover
Objective lens cap
Chin rest paper (100 sheets)
Dust cover

Options

Internal eye fixation target

* Specifications and appearance are subject to change without notice.



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General Safety Information

- Make sure you read the manual before using the instrument.
- Use the correct power source and voltage shown.
- Make sure the instrument is properly connected to ground. Failure to do so may result in an electric shock if there is a malfunction or ground leakage.

