CX-1 Specifications

Type	Digital retinal camera (mydriatic and non-mydriatic)
Types of photography	Color, FA, Red Free, Cobalt, FAF
Retinal observation	Mydriatic: optical viewfinder Non-mydriatic: camera unit monitor
Angle of view	Mydriatic: 50 degrees Non-mydriatic: 45 degrees
Magnification	2X (Digital)
Minimum pupil size	Mydriatic: ø 5.1 mm or more, ø 4.3 mm or more when SP function is selected Non-mydriatic: ø 4.3 mm or more, ø 3.8 mm or more when SP function is selected
Mounted digital camera	Dedicated digital camera by Canon EOS technology
Sensor	15.1 megapixels CMOS
Patient's diopter compensation range	Without compensation lens: -10D to +15D With "-" compensation lens: -31D to -7D With "+" compensation lens: -11D to +33D
Working distance	35 mm from the front of objective lens
Working distance adjustment	Working distance dots on retina
Fixation target	Mydriatic: external type (Standard), internal type (Optional) Non-mydriatic: internal fixation target (LED dot matrix, green)
Light source	Mydriatic: halogen lamp for observation, xenon tube for photography Non-mydriatic: IRED for observation, xenon tube for photography
Range of base movement	65 mm front and back, 110 mm side to side, 30 mm up and down
Panning range	30 degrees to the right and left
Tilting range	15 degrees up, 10 degrees down
Operating environment	Temperature: 10˚C to 35˚C Humidity: 30% RH to 80% RH
Dimensions (W x D x H)	320 mm x 531 mm x 577 mm (12.6 in. x 20.9 in. x 22.3 in.)
Weight	Approx. 26 kg (57 lbs.)

COMPONENTS

Main unit
Digital camera
External eye fixation lamp
Video cable
Power cable
Camera mount cap
Chin rest paper (100 sheets)
Dust cover
Retinal imaging control software for CX-1

OPTIONAL ACCESSORIES

Stereo unit SU-1
Internal eye fixation CX-IF
Chin rest paper (500 sheets)

Simulated images and specifications are subject to change without notice.

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CX-1

Digital Retinal Camera

MYD / NM

Sleek & Compact. Simple to Operate. Smart.

REDEFINING TRUE VERSATILITY

The CX-1 digital retinal camera synergizes digital mydriatic and non-mydriatic imaging capabilities, as well as multiple functions and photography modes – including one-shot FAF photography – by dedicated onboard SLR technology, all in one easy-to-use system.

CX-1
Digital Retinal Camera
MYD / NM

- Myd and Non-Myd hybrid digital retinal camera
- Sleek and compact
- Simple to operate
- Five photography modes (Color, FA, Red-free, Cobalt, FAF)
- One-shot FAF for Myd and Non-Myd
- Advanced stereo photography system
- EOS camera technology for unsurpassed Canon imaging

A CANON INNOVATION – COMBINING MYD & NON-MYD TECHNOLOGIES IN ONE SIMPLE DIGITAL SYSTEM

The CX-1 Digital Retinal Camera is a fully digital hybrid retinal camera system with mydriatic and non-mydriatic modes. High-quality diagnostic image capturing is easier and more efficient than ever. By simple push-button operation, change modes and adjust functions to deliver comfortable procedures to the patient for concurrent eye examinations.

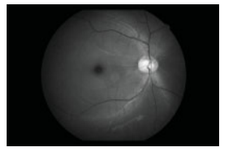
Unprecedented Operation and Functionality

Never before have so many convenient retinal imaging technologies appeared in such a sleek and compact system. Here are but a few of the retinal imaging features and impressive capabilities of the CX-1.

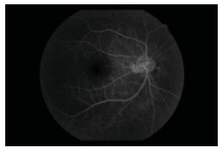
CX-1
Digital Retinal Camera
MYD / NM

Color photography

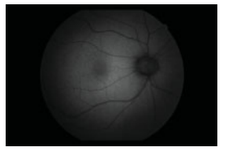
Red-free photography



Cobalt photography



Fluorescein angiography



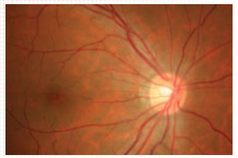
FAF photography

Five available photography modes.

One-touch selection of Myd / Non-Myd

A Canon first – with one touch, switch between mydriatic and non-mydriatic imaging modes. A single push of the “Myd/Non-Myd” button initiates the automatic adjustment of the inner mechanisms. The operator can effortlessly utilize different functions within seconds and perform several concurrent ocular tests.

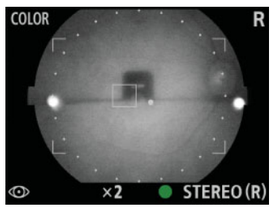
Superior image quality



High-precision Canon optics achieve retinal imaging of the highest quality. Wide angles of view for both Myd and Non-Myd observation are exceptionally clear with higher resolution, even when magnified to double the original size using “2x Mode.”

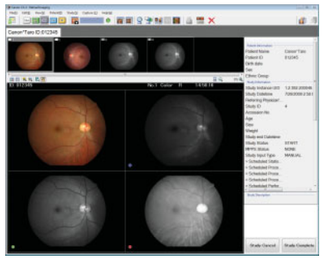
Intelligent monitor assistance

The onboard EOS camera’s LCD monitor provides several features to assist in efficient image acquisition, such as automatic magnification during focusing for clear split line observation. Magnification size options for the monitor enhance effective examination.



Intuitive operation

The configuration of the controls is based on simplified operation, workflow efficiency, and ergonomic design. During either Myd or Non-Myd observation, select freely from the five available shooting modes for optimal exam combinations. The entire control panel facilitates smooth procedural transitioning; where several steps were once required manually, the CX-1 needs only the touch of a button for adjustments to occur. The bundled control software provides even further usability.



Stereo image management

The LCD monitor displays guides which automatically determine the base length for acquiring successful stereo images. These captured images can be displayed simultaneously on the provided PC software. The pairing can subsequently be stored and managed as a pair, so as to eliminate the need to look for corresponding files.

Screening Revolutionized: Myd & Non-Myd Fundus Autofluorescence

CX-1
Digital Retinal Camera
MYD / NM

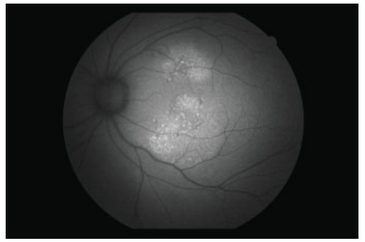
Take Myd or Non-Myd FAF photography as a part of your regular retinal exam.
Sharp and clear images. No additional options needed.

FAF photography with Myd and Non-Myd

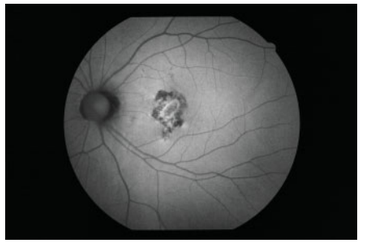
Optimal imaging, even with cataracts

Superior high-quality images

Sample FAF images with CX-1

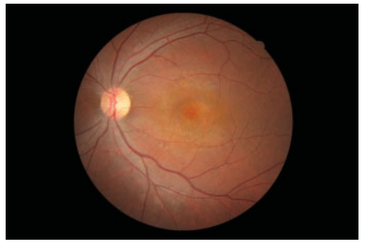


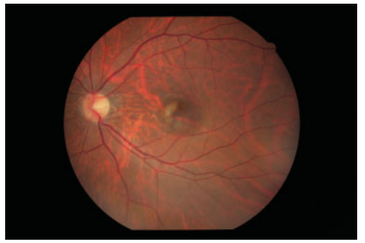
Central serous chorioretinopathy

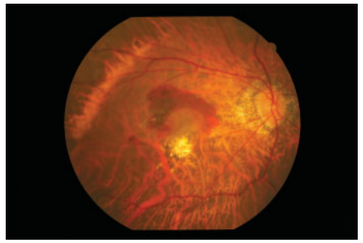


Idiopathic choroidal neovascular

High-myopia







Photos courtesy of Dr. Takayuki Tanaka, Tanaka Ganka Iin

What is FAF?

Fundus autofluorescence, or FAF, is the occurrence of autofluorescence in macular waste, particularly Lipofuscin. Examinations that check for and monitor autofluorescent waste material are a key step in AMD detection.

EOS CAMERA TECHNOLOGY

Linking EOS camera technology with CX-1 retinal imaging capabilities for exceptional performance and quality

Canon's own EOS camera technology, with its renowned image processing capabilities, is adapted exclusively for medical use in CX-1 to provide optimal retinal imaging in a compact and convenient system. The single onboard digital camera handles with ease five different photography modes, including non-mydriatic FAF photography, allowing EOS imaging technology to benefit all retinal images from CX-1.