CX-1 Specifications

GENERAL	
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, ø 4.3 mm when SP function is selected Non-mydriatic: ø 4.3 mm, ø 3.8 mm when SP function is selected
Mounted digital camera	Dedicated Digital Camera by Canon EOS Technology
Sensor	18 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.)

Specifications are subject to change without notice.

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)

DICOM COMPATIBILITY
DICOM Storage Service Class (SCU)
DICOM Worklist Management Service Class (SCU)
DICOM Modality Performed Procedure Step (SCU)

Canon

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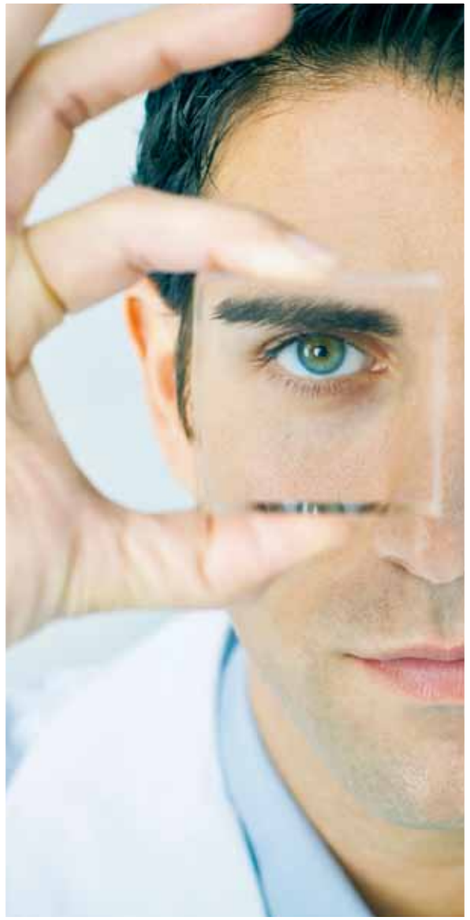


CX-1 Digital Retinal Camera

Redefining True Versatility

CX-1 Digital Retinal Camera | Canon

CX-1 Digital Retinal Camera

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, you can change modes and adjust functions to deliver comfortable procedures to the patient for concurrent eye examinations.

Key Features

One-touch Selection of Myd/Non-Myd
A Canon first—with one touch, you can switch between mydriatic and non-mydriatic imaging modes. 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.

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 to eliminate the need to look for corresponding files.

From novice technician to the experienced ophthalmic photographer, the non-mydriatic alignment mode allows the operator to quickly learn how to capture Color, Red-free, Cobalt, Fluorescein angiography, and FAF images.

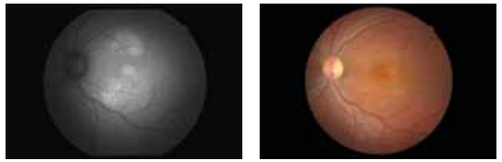
Intuitive Operation
The configuration of the controls is based on simplified operation, workflow efficiency, and ergonomic design. During either Myd or Non-Myd observation, select freely from the five available shooting modes for optimal exam combinations. The entire control panel facilitates smooth 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.

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

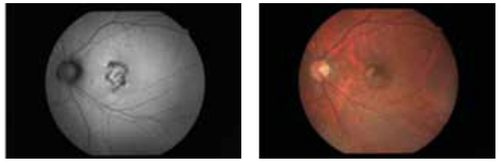
What is FAF?

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.

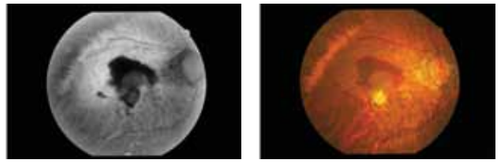
Samples of FAF images with the CX-1
(Photos courtesy of Dr. Takayuki Tanaka, Tanaka Ganka Iin)



Central Serous Chorioretinopathy



Idiopathic Choroidal Neovascular



High-myopia