

**Canon**

you can

Redefining  
true versatility.



**CX-1 DIGITAL RETINAL CAMERA  
MYDRIATIC & NON-MYDRIATIC**

*We Speak Image*



# Redefine your horizons. The best of both worlds.

The multifaceted CX-1 has integrated mydriatic and non-mydriatic imaging capabilities, for true versatility in retinal imaging, in one simple digital system.

## More reliable diagnoses with FAF

The diagnosis of retinal disorders with fundus auto fluorescence (FAF) is becoming more and more popular. This is because it is very gentle, being non-invasive, and gives quick and easy information on the health of the retinal pigment epithelium (RPE). FAF imaging has shown to be very useful for the early detection of Age-related Macular 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 detection of intraocular tumors. When using FAF in conjunction with other diagnostic equipment, eye care professionals can more confidently diagnose ocular disease.

**CX-1: All in one, one for all.** The versatile CX-1 can quite simply be characterized as the hero in your clinic, with the motto “all in one, one for all”.

The CX-1 is an “All in one” solution: it is a Mydriatic camera with FAF mode that has all the advantages of Non-Mydriatic functionality. This provides exceptional versatility and enables diagnosis, screening and monitoring of all major eye diseases.

The CX-1 is also a “One for all” instrument. It is an ideal camera that captures high-quality retinal images of even the most challenging patients such as those with small pupils or high photosensitivity. In addition, from simple screening to complex diagnosis, any user can operate the device with ease.

The CX-1 compact digital camera combines the best of both worlds.



CX-1

Digital Retinal Camera

MYD/NM

## CX-1

Digital Retinal Camera

Redefining true versatility. Mydriatic Retinal Camera with full Non-Mydriatic functionalities and FAF photography.



Canon EOS  
Camera Technology



Stereo Mode



Non-Mydriatic



Mydriatic



FAF

## THE MULTIFACETED CX-1

**Extensive photography modes;** in an attractive body and under all conditions.



### Integrated EOS technology

In addition to being optimized for ophthalmic imaging, the dedicated EOS camera combines several functions in one:

- IRed observation
- 3.0 inch vari-angle LCD screen for optimized viewing angles
- 18 MegaPixel CMOS sensor
- Intelligent monitor assistance; automatic magnification during focusing and displaying of stereo guide marks

**Mydriatic Retinal Camera with full Non-Mydriatic functionality**, equipped with FAF photography as a standard feature.

**Extensive photography modes** Colour, Red Free, Cobalt, FLUO and Fundus Auto Fluorescence, for wide diagnostic applications. All photography modes can be used either in Mydriatic or Non-Mydriatic mode.

**Extremely versatile** One camera for diagnosis of all major ocular diseases: Glaucoma, Diabetic Retinopathy, AMD, etc.

**Use of Canon EOS Camera Technology** The CX-1 is equipped with a unique 18 MegaPixel digital camera unit that has been created for unsurpassed ophthalmic imaging.

**Ideal for non dilatable and sensitive patients** The Non-Mydriatic mode is essential for non dilatable patients such as glaucoma suspects or children. Photosensitive patients will benefit from the non-invasive IRed observation light.

**High quality FAF images** Sophisticated optical FAF filters for highest contrast and best image quality. Dedicated camera with optimized image processing for FAF and automatic image enhancement for cataract eyes.

**Ease of use:** Compact design for maximum patient interaction, vari-angle LCD screen for optimized viewing angles. Easy switching between capturing modes. Easy changing between Mydriatic and Non-Mydriatic mode.

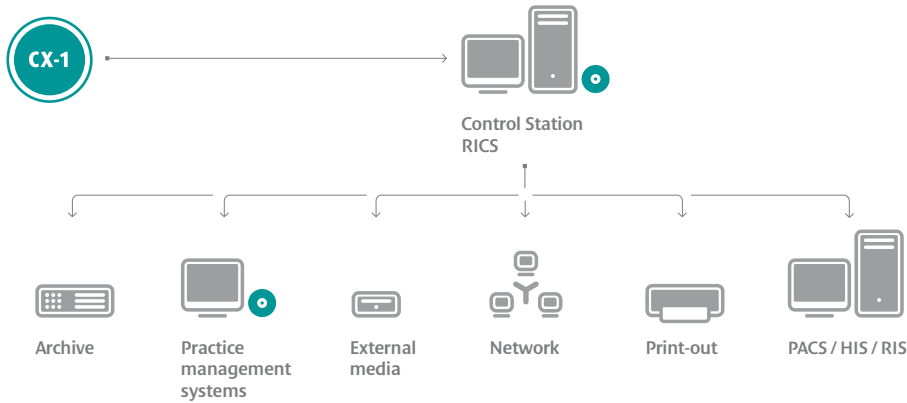
**Easy panning and tilting** for working around central obstructions (cataracts, vitreous hemorrhages) and imaging the peripheral retina.

**Small pupil mode** In Non-Mydriatic mode a pupil size of only  $\varnothing$  3.8 mm is required.

**2x zoom** Canon's high precision optics and the high resolution allow for 2x digital zoom of the original wide angle image.

**Stereo photography was never as easy** Clear stereo guide marks to create an image pair in just two simple steps.

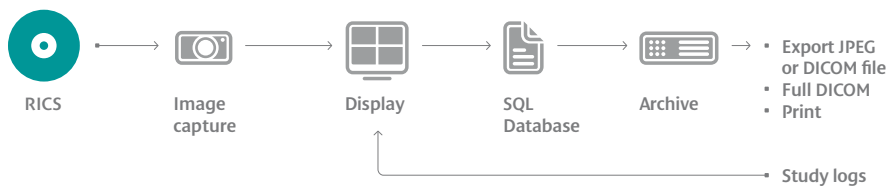
# Configuration



Canon is constantly thinking ahead when it comes to software design, and understands the importance of networkability and ease of integration. This has resulted in the development of new solutions that are designed to be flexible to suit the needs of the user and their image management systems.

The Canon Retinal Imaging Control Software allows the CX-1 to be used as a stand-alone system. But it can also be easily integrated with an existing clinic network or DICOM-compliant network system.

## RICS Retinal Imaging Control Software



In the latest version of Canon's extensive Retinal Image Control Software. Image capturing, processing, archiving, referencing and the export of data have been made much easier.

- Features include:
- Full screen mode
  - Loupe function
  - Stereo view screen
  - Image comments function
  - White mask printing
  - Study comparison
  - RGB channel view
  - Cup / Disc ratio
  - Full DICOM compliance

## Photography modes

	Observation light	Observation	Angle of view	Colour	Red Free	Cobalt	FLUO	FAF
<b>Non-Myd</b>	IR light	LCD screen	45°	+	+	+	+*	+
<b>Mydriatic</b>	Visible light	Through viewfinder	50°	+	+	+	+	+

\* For fluorescein photography in Non-Mydriatic mode mydriasis will be required

## Specifications

Dimensions	320 W x 531 D x 577 H mm	Patient's diopter compensation	-31 D ~ -7 D, -10 D ~ +15 D (standard), +11 D ~ +33 D
Weight	26 kg	Focus adjustment	Split lines
Angle of view	Myd: 50 degrees, Non-Myd: 45 degrees	Working distance adjustment	Reflection dots
Minimum pupil size	Myd: ø 5.1 mm (SP mode ø 4.3 mm) Non-Myd: ø 4.3 mm (SP mode ø 3.8 SP)	Panning and tilting range	30 degrees to the left and right 15 degrees up, 10 degrees down
Magnification	X2 (digital)	Light sources	Xenon tube for photography Halogenlamp for observation (Myd) IRED LED for observation (Non-Myd)
Photography modes	Colour / FA / Red Free / Cobalt and FAF	Optional accessories	Stereo Unit SU-1, Internal eye fixation (CX-IF) Chin rest paper (500 sheets)
Working distance	35 mm		
Mounted camera	Dedicated digital EOS (18 MegaPixel)		
Fixation target	External Internal LED dot matrix for Non-Myd mode Internal fixation target for Myd mode (optional)		

Canon has been defining the future with innovative solutions for more than 70 years. In all that time we've constantly strived to improve medical diagnostics in healthcare. Perhaps that's what made us a leading global provider of eye care solutions.



**Canon Eco**

Our actions are based on honesty and sustainability.



**Canon Quality**

Safety and quality are an integral component of our actions.



**Canon Flexibility**

Everything we do has to have a superior customer advantage.

Choose the eye care system of the future and let our local, authorized Canon dealer advise you:

**Canon**

CX-1  
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