

Canon
SEE IMPOSSIBLE

CX-1

HYBRID DIGITAL MYDRIATIC/
NON-MYDRIATIC RETINAL CAMERA

Redefining
True Versatility



SLEEK AND COMPACT, SIMPLE TO OPERATE, AND SMART

The CX-1 Digital Retinal Camera offers digital mydriatic (Myd) and non-mydriatic (Non-Myd) imaging capabilities, functions, and photography modes—including one-shot FAF photography—via dedicated, onboard SLR technology. And all this comes in one, easy-to-use system.

- Mydriatic and Non-Mydriatic Hybrid Digital Retinal Camera
- Sleek and compact
- Simple to operate
- Five photography modes (Color, FA, Red-free, Cobalt, FAF)
- One-shot FAF for Mydriatic and Non-Mydriatic
- Advanced stereo guide photography system
- EOS camera technology for unsurpassed Canon imaging

EASY-TO-MANAGE
CONTROLS RIGHT AT
YOUR FINGERTIPS



INNOVATION IN ONE SIMPLE, DIGITAL SYSTEM

TWO TECHNOLOGIES, ONE 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. With simple, push-button operation, you can 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 a few of the retinal imaging features and impressive capabilities of the CX-1.

One-Touch Selection

A Canon "first!" With one touch, you can 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. This allows the operator to effortlessly use different functions within seconds and perform several concurrent ocular tests.

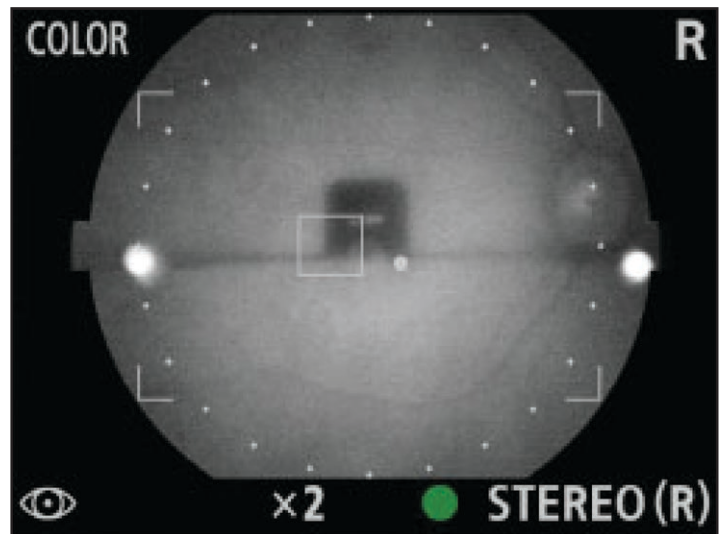


Superior Image Quality

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. And 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.

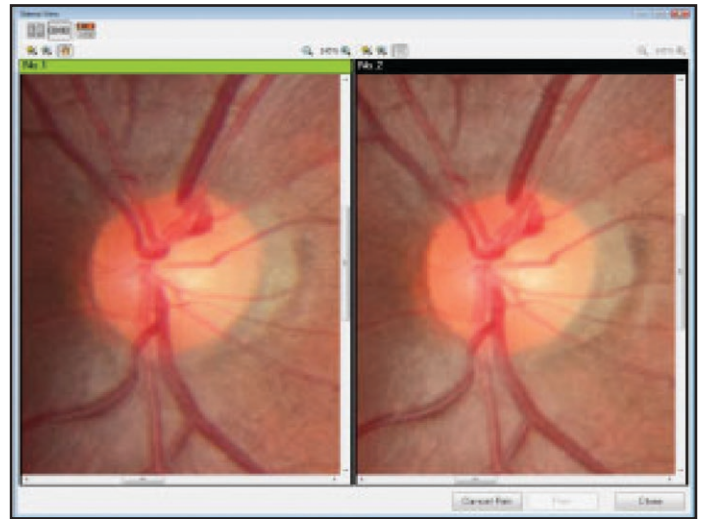


Myd/Non-Myd Fundus AutoFluorescence

Screening has been revolutionized! Take Myd or Non-Myd FAF photography as a part of your regular retinal exam—sharp and clear imaging with no additional options needed. Use FAF photography with Myd and Non-Myd for optimal imaging, even with cataracts.

Stereo Image Management

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



EOS Camera Technology

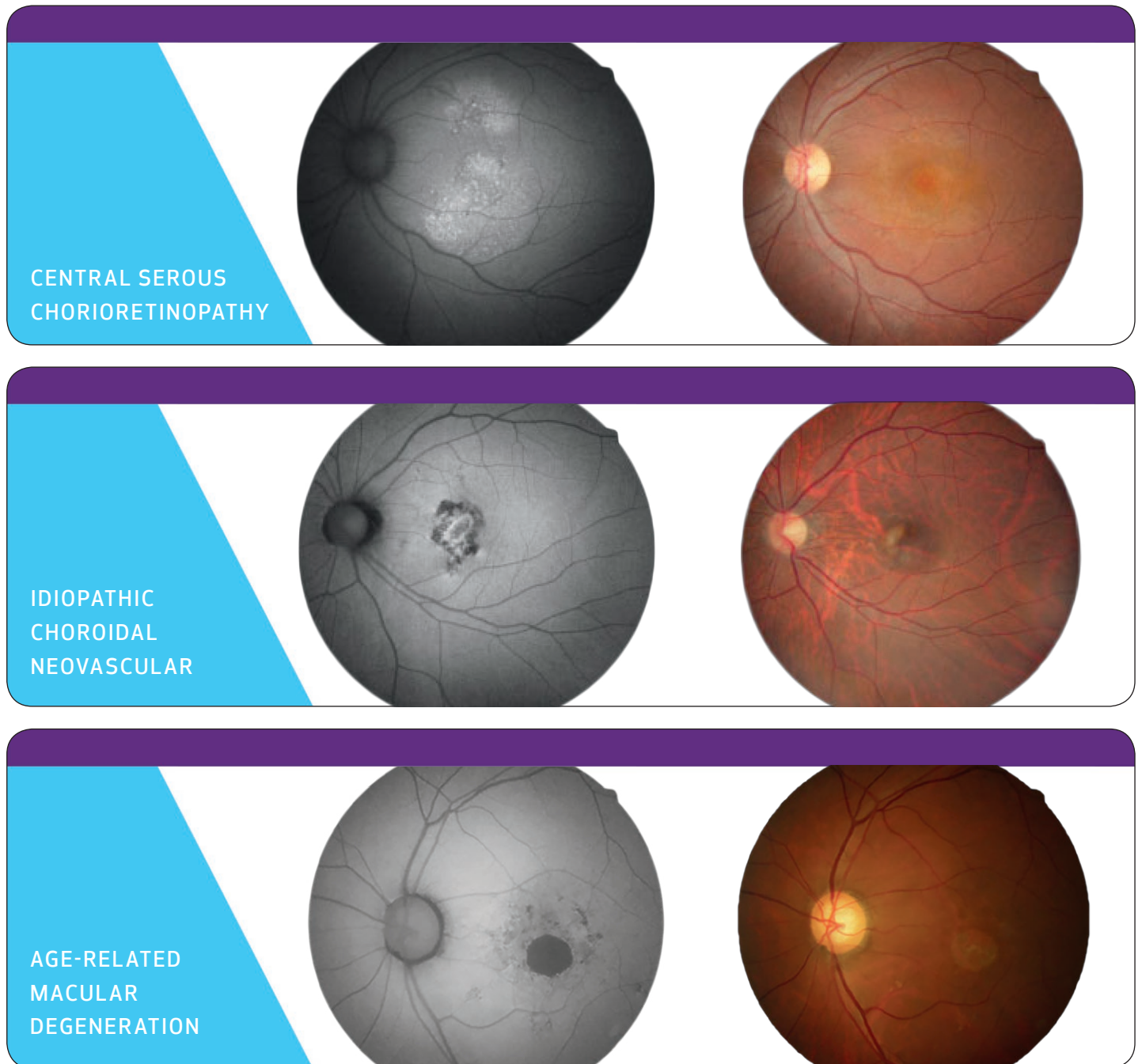
EOS camera technology links with CX-1 retinal imaging capabilities for exceptional performance and quality. Canon's very own EOS camera technology, with its renowned image processing capabilities, is adapted exclusively for medical use in CX-1 to provide optimal retinal imaging in a compact, convenient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



FUNDUS AUTOFLUORESCENCE (FAF)

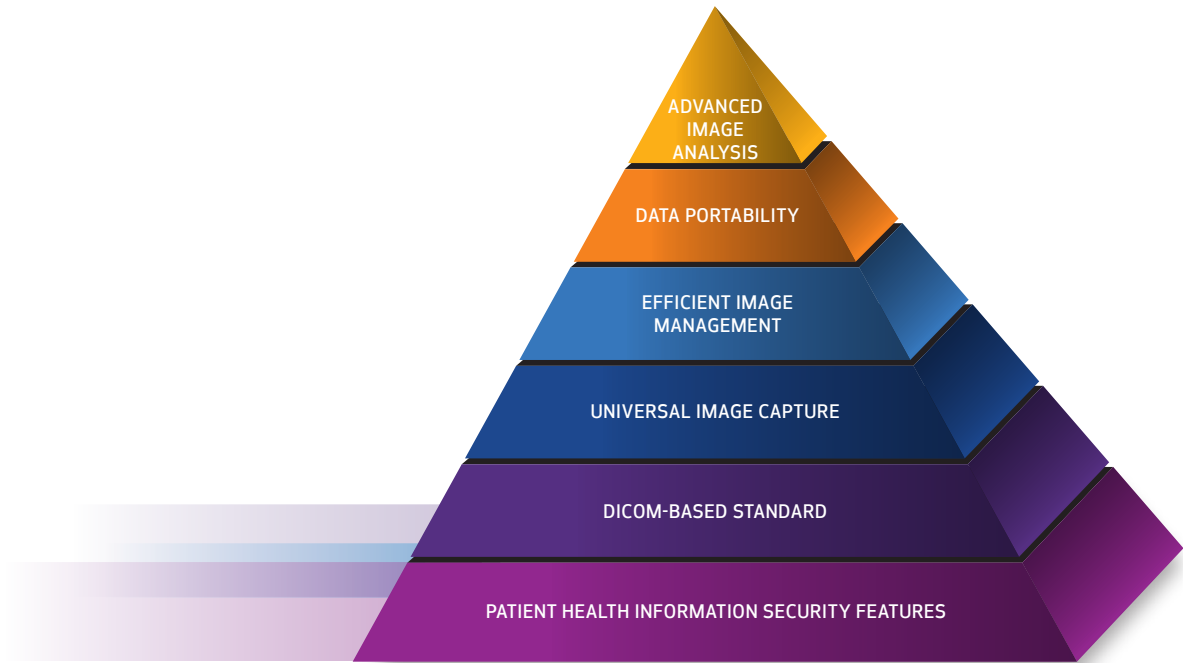
At the touch of a button, the CX-1 provides instant access to this valuable diagnostic tool, enabling you to document changes in the Retinal Pigment Epithelium (RPE). Such changes may be an early indicator of vision problems including diabetic retinopathy, AMD, glaucoma, and geographic atrophy.

SAMPLES OF FAF IMAGES WITH THE CX-1



Photos courtesy of Takayuki Tanaka, MD, Tanaka Ganka Ophthalmic Clinic.

imageSPECTRUM IMAGE MANAGEMENT SOFTWARE



ADVANCED IMAGE ANALYSIS

Use Advanced Tools to help quantify progression; overlay and merge images to clearly see and assess changes; add notes to help document and annotate.

DATA PORTABILITY

Provides for the secure transmission of patient data to referring physicians and other coordinated care partners.

EFFICIENT IMAGE MANAGEMENT

This is not an EMR. It's software specifically designed to enhance practice workflow and productivity through the efficient viewing, query, analysis, storage, and sharing of completed images and studies, whether in the next room or across the country.▲

UNIVERSAL IMAGE CAPTURE

Bluetooth wireless encryption allows images and reports from third-party legacy instruments to be easily integrated for secure, single-patient record access.▲

DICOM-BASED STANDARD

Universal standard easily integrates with your diagnostic imaging and measurement devices from Canon and most other eye equipment manufacturers.▲

PATIENT HEALTH INFORMATION SECURITY FEATURES

Uniquely equipped with advanced security features, such as Aging Password, Role-based Access, 256K Encryption, Audit Log Recordkeeping, Patient Reconciliation, Auto Log-off, Automatic Archival Solution, and more.

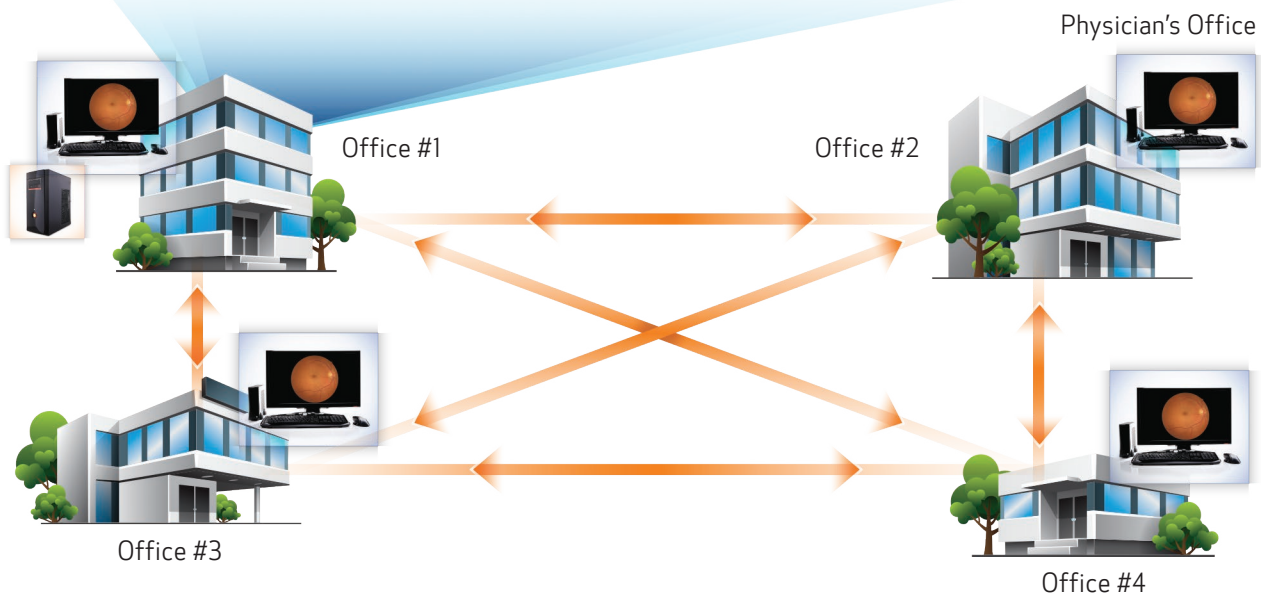
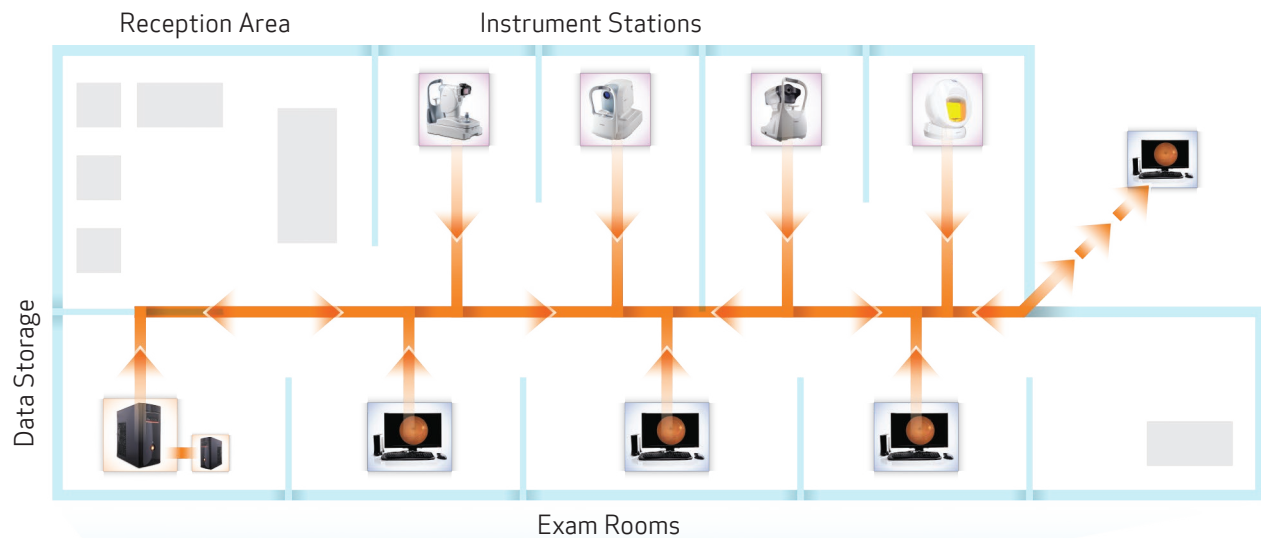
BEYOND THE EMR:
HOW TO BUILD
SECURE PEACE
OF MIND

▲ Instruments must have print-to-file capability and either an RS-232 or USB port.

imageSPECTRUM FITS EASILY INTO NEARLY ANY BUSINESS ENVIRONMENT

imageSPECTRUM can be easily configured to support virtually any practice network, small or large. Designed with your growing practice in mind, this system is readily scalable. This means that imageSPECTRUM can support not only the needs of your current practice, but also easily expand as your practice grows or your needs change.

▼ A SINGLE-SITE NETWORK WITH MULTIPLE EXAM ROOMS ▼



▲ A MULTISITE NETWORK WITH MULTIPLE EXAM ROOMS ▲

General

Type: Digital Retinal Camera
(Mydriatic and Non-Mydriatic)

Type of Photography:
Color, FA, Red Free, Cobalt, FAF

Retinal Observation
Mydriatic: Optical Viewfinder
Non-Mydriatic: Camera Unit Monitor

Angle of View
Mydriatic: 50°
Non-Mydriatic: 45°

Magnification: 2x Digital

Minimum Pupil Size
Mydriatic: ϕ 5.1 mm or more (ϕ 4.3 mm SP)
Non-Mydriatic: ϕ 4.3 mm or more (ϕ 3.8 mm SP)

Patient Diopter Compensation Range
Without Compensation Lens: -10 D to +15 D
With "-" Compensation Lens: -31 D to -7 D
With "+" Compensation Lens: +11 D to +33 D

Light Source
Mydriatic: Halogen Lamp For Observation,
Xenon Tube For Photography
Non-Mydriatic: IRED For Observation,
Xenon Tube For Photography

Fixation Target

Mydriatic: External Type (Standard)
Internal Type (Optional)
Non-Mydriatic: Internal Fixation Target
(Led Dot Matrix, Green)

Working Distance: 35 mm
(from the front of the objective lens)

Working Distance Adjustment
Working Distance Dots on Retina

Sensor: 18.1 megapixels or more CMOS

Mounted Digital Camera: Dedicated digital camera
by Canon EOS technology

Range of Base
Front and Back: 65 mm
Side to Side: 110 mm
Up and Down: 30 mm

Panning Range
Right and Left: 30°

Tilting Range
Up: 15°
Down: 10°

Operating Environment
Temperature: 50° to 86° Fahrenheit (10° to 35° Celsius)
Humidity: 30% to 80% RH (No Condensation)

Physical Characteristics

Dimensions (H x W x D)
22.3" x 12.6" x 20.9" (577 mm x 320 mm x 531 mm)


Weight: 57 lb. (26 kg)

Main Unit Components

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

Options and Accessories

Stereo Unit SU-1
Internal Eye Fixation CX-IF
Chin Rest Paper (500 Sheets)



POST SALE SERVICE AND SUPPORT

MAINTAINING YOUR INVESTMENT IN EXCELLENCE.

The CX-1 Digital Mydriatic and Non-Mydriatic Retinal Camera is backed by Canon, a global microprocessor-based company with 75 years of optical experience. Its superb customer service and support organization is ready to answer your needs 24/7/365.

This common sense approach to service allows you to purchase a service plan that suits your specific needs—and your budget. The Canon service program may help you avoid costly instrument downtime while also helping you with the accessibility of your vital patient images and information.

To schedule a demo or for additional information,
call 1-800-970-7227 or visit our Web site.

USA.CANON.COM/EYE-CARE



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