



High-quality diagnostic retinal images with low flash intensity

Ergonomic design with intuitive controls

Easy to operate and achieve desired views

Quicker, more comfortable exams for the patient



CR-1 Mark II
Digital Retinal Camera

CR-1 Mark II Specifications

Type	Digital retinal camera, Non-mydratric
Angle of view	45 degrees
Magnification view	2X (Digital)
Working distance	35 mm from the front of objective lens
Minimum pupil size	ø 4 mm (Approx. ø 3.7 mm in SP mode)
Image size	ø 14 mm on the sensor
Attachable digital camera	Canon EOS digital SLR camera (For information on available camera models, please consult your local authorized Canon sales representative.)
Sensor resolution	15.1 megapixels or higher (Resolution depends on model of attached camera.)
Patient's diopter compensation range	Without compensation lens: -10D to +15D With "-" compensation lens: -7D to -31D With "+" compensation lens: +11D to +33D
Working distance adjustment	Anterior eye display: split lines adjustment Retinal display: working distance dots
Internal fixation target	LED dot matrix, green
Light source	IRED for observation, Xenon tube for photography
Built-in monitor	5.7-inch color LCD monitor
Power supply	AC100-240 50/60Hz 1-0.4A
Operating environment	Temperature: 10°C to 35°C Humidity: 30% RH to 80% RH (with no condensation)
Dimensions (W x D x H)	320 mm x 530 mm x 550 mm (12.7 in. x 20.7 in. x 21.9 in.)
Weight	Approx. 21.5 kg (47.4 lb.)

COMPONENTS
Main unit
Objective lens cap
Camera mount cap
Chin rest paper (100 sheets)
Power cable
Dust cover
CD-ROM (Retinal imaging control software NM)

OPTIONAL ACCESSORIES
External eye fixation lamp EL-1
Chin rest paper (500 sheets)

Simulated images and specifications are subject to change without notice.

Canon

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CR-1 Mark II
Digital Retinal Camera

Low Flash Intensity Non-Mydratric Retinal Imaging, Fast and Efficient Examinations

The CR-1 Mark II Digital Retinal Camera epitomizes state-of-the-art non-mydratric imaging technology with dramatically reduced brightness, improved overall comfort, and significantly shorter exams.



CR-1 Mark II stands for efficiency and accuracy in retinal diagnostic exams, ergonomic design and patient-friendly functionality.





In 1976, Canon reinvented retinal examination by developing the world's first non-mydriatic camera. To this day, Canon continues to set industry standards with high-quality diagnostic imaging. Equipped with an exceptionally low flash intensity, Canon's CR-1 Mark II non-mydriatic digital retinal camera provides more efficient workflow, ease of use, and patient comfort.

CR-1 Mark II: Benefits of low flash intensity

For patients having non-mydriatic retinal exams, the bright flash can be unpleasant. CR-1 Mark II focuses on reducing patient stress to provide comfortable retinal exams by significantly reducing the flash intensity. Because retinal exams play an important role in screening for major illnesses, the ease of examining provided by the CR-1 Mark II supports overall healthcare for people.

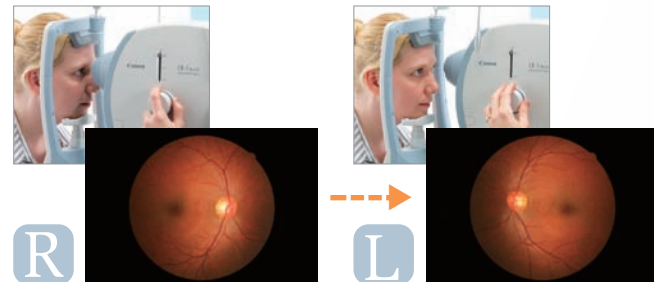
Efficiency of non-mydriatic retinal exams heavily depends on a patient's darkness adaptation period. The low flash intensity of CR-1 Mark II minimizes miosis, thus shortening the time required for taking multiple pictures such as binocular and stereo images. The reduced brightness induces more patient compliance, leading to speedy and accurate exams for high throughput screening.

Selectable flash mode

Standard mode	ISO 1600
Low flash mode 1 	ISO 3200
Low flash mode 2 	ISO 6400

Note: The above results were based on partnering with the EOS 50D digital camera.

Quick image acquisition



Low flash mode 2: binocular images



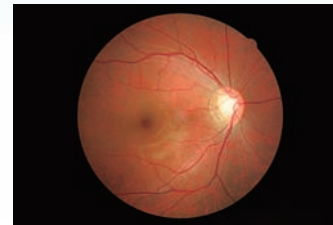
Key Features

High-quality retinal imaging

Canon's expertise in the field of imaging technology supports CR-1 Mark II's exceptional digital retinal imaging capabilities. Clear, high-resolution diagnostic images realized with the attached EOS digital SLR camera effectively detect and monitor ocular conditions such as diabetic retinopathy, glaucoma, and macular degeneration.

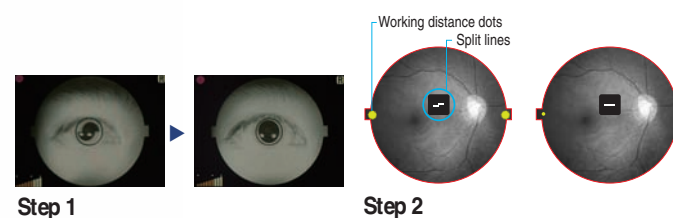
45-degree angle of view

The CR-1 Mark II features an optical system that achieves high-resolution diagnostic images at a 45° angle of view suitable for health check-ups and screening.



Easy alignment and focusing

Two simple steps are all it takes to capture a clear image. Step 1 is the aligning of two halves of a split pupil image, followed in Step 2 by the adjustment of split lines and working distance dots in the retinal display. This ensures that the correct focus and working distance are achieved for the sharpest images possible.

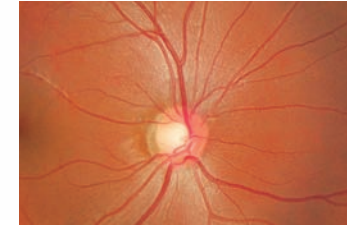


Step 1

Step 2

2x digital magnification

"2x" mode provides a magnified view of the retina for viewing the details of the region of interest. Sharp images are made possible by the attached EOS digital SLR camera's high pixel count.



Safe, secure patient positioning

An adjustable motorized chin rest, forehead guard, and front protection cover perfectly situate the patient securely in position for the exam while ensuring their safety during operation. An optional external fixation target is also available.



Motorized adjustable chin rest

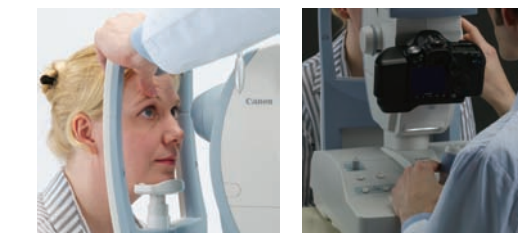


Ergonomic controls



Control options with joystick

CR-1 Mark II has an ergonomic design to simplify operation for the user. A one-hand joystick repositions the camera to the exact view desired. The illuminated operation panel, featuring easy-to-understand control options, has been designed for quick adjustment and selection of the necessary settings. A short reaching distance between the patient and operator allows closer personal interaction and easy access to the patient's eyes.

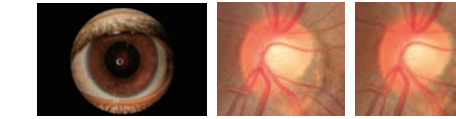


Close patient interaction

Illuminated operation panel



LCD Screen

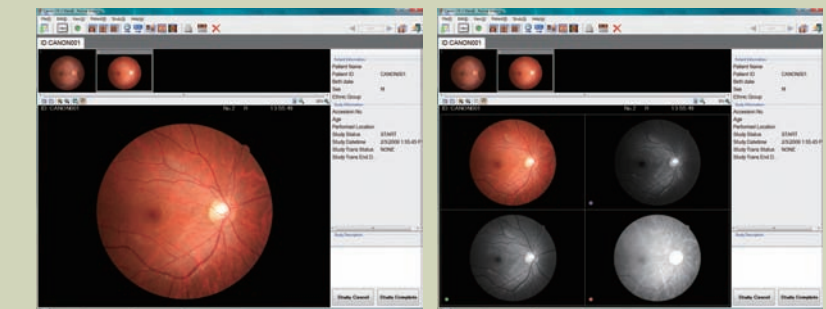


Anterior eye and stereo photography are available



Control software

The bundled Retinal Imaging Control Software for the CR-1 Mark II puts tools for comprehensive study management, image capture controls, and easy viewing at your fingertips. The intuitive graphical interface is simple and straightforward to use. The PC-based software provides quick input and access to all information and images required to assist in your diagnosis, and data can be easily saved to various external media.



Viewer functions with simple saving capability

Network Capabilities

Effortless and convenient handling, printing, saving, and transmitting of all image data to remote locations via the control software are made possible with the CR-1 Mark II's network capabilities. The DICOM-compliant network interface allows CR-1 Mark II easy integration with existing medical imaging systems and connection to PACS and HIS network configurations. The control software and network capabilities work together for streamlining overall diagnostic workflow.

Workflow of a typical exam

