

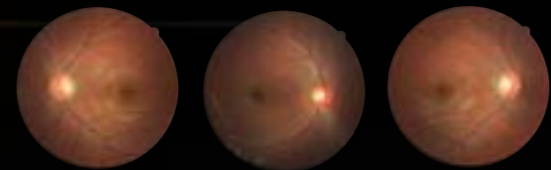


High-quality diagnostic retinal images with low flash intensity

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

<b>Type</b>	Digital retinal camera, Non-mydratric	<b>COMPONENTS</b>
<b>Angle of view</b>	45 degrees	Main unit
<b>Magnification view</b>	2X (Digital)	Objective lens cap
<b>Working distance</b>	35 mm from the front of objective lens	Camera mount cap
<b>Minimum pupil size</b>	ø 4 mm (Approx. ø 3.7 mm in SP mode)	Chin rest paper (100 sheets)
<b>Image size</b>	ø 14 mm on the sensor	Power cable
<b>Attachable digital camera</b>	Canon EOS digital SLR camera (For information on available camera models, please consult your local authorized Canon sales representative.)	Dust cover
		CD-ROM (Retinal imaging control software NM)
<b>Sensor resolution</b>	15.1 megapixels or higher (Resolution depends on model of attached camera.)	<b>OPTIONAL ACCESSORIES</b>
<b>Patient's diopter compensation range</b>	Without compensation lens: -10D to +15D With "-" compensation lens: -7D to -31D With "+" compensation lens: +11D to +33D	External eye fixation lamp EL-1
<b>Working distance adjustment</b>	Anterior eye display: split lines adjustment Retinal display: working distance dots	Chin rest paper (500 sheets)
<b>Internal fixation target</b>	LED dot matrix, green	
<b>Light source</b>	IRED for observation, Xenon tube for photography	
<b>Built-in monitor</b>	5.7-inch color LCD monitor	
<b>Power supply</b>	AC100-240 50/60Hz 1-0.4A	
<b>Operating environment</b>	Temperature: 10°C to 35°C Humidity: 30% RH to 80% RH (with no condensation)	
<b>Dimensions (W x D x H)</b>	320 mm x 530 mm x 550 mm (12.7 in. x 20.7 in. x 21.9 in.)	
<b>Weight</b>	Approx. 21.5 kg (47.4 lb.)	

Simulated images and specifications are subject to change without notice.

**Canon**

**CANON INC.**  
**MEDICAL EQUIPMENT GROUP**  
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan  
Telephone: +81-3-3757-8497 Fax: +81-3-5482-3960

**CANON MEDICAL SYSTEMS** A division of **CANON U.S.A., Inc.**  
15955 Alton Parkway, Irvine, CA 92618-3731, U.S.A.  
Telephone: (1) 949-753-4160, toll-free within U.S.A.: 1-800-970-7227  
Fax: (1) 949-753-4184  
<http://www.usa.canon.com/eye-care>

**CANON EUROPA N.V.** Medical Systems Division  
Bovenkerkerweg 59-61, 1185 XB Amstelveen, The Netherlands  
Telephone: +31-(0) 20-545-8926 Fax: +31-(0) 20-545-8220  
<http://www.canon-europa.com/Medical>

**CANON SINGAPORE PTE. LTD.** Medical Equipment Dept.  
1 HarbourFront Avenue, #04-01 Keppel Bay Tower, Singapore 098632  
Telephone: +65-6796-3549 Fax: +65-6271-4226  
<http://www.canon-asia.com>

**CANON (CHINA) CO. LTD.** Medical System Division  
15F Jinbao Building No.89 Jinbao Street, Dongcheng District,  
Beijing 100005, China  
Telephone: (86) 10-8513-9999 Fax: (86) 10-8513-9914  
<http://www.canon.com.cn>

**CANON AUSTRALIA PTY. LTD.** Optical Division  
1 Thomas Holt Drive, North Ryde, Sydney, NSW 2113, Australia  
Telephone: +61-2-9805-2000 Fax: +61-2-9805-2444  
<http://www.canon.com.au/default.aspx>

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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. High-resolution diagnostic images of the retina are extremely detailed and clear, a necessity to effectively detect and monitor ocular conditions such as diabetic retinopathy, glaucoma, and macular degeneration.

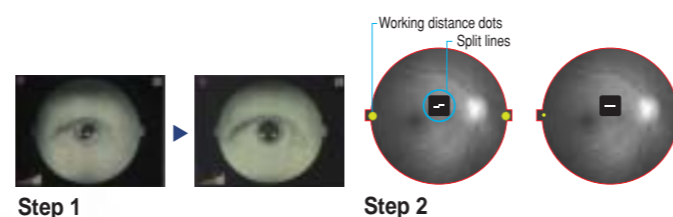
### 45-degree angle of view

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.

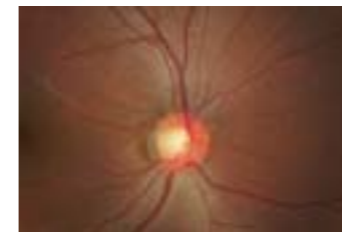


Step 1

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.

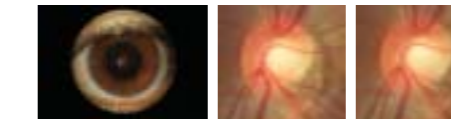


Close patient interaction

Illuminated operation panel



LCD Screen

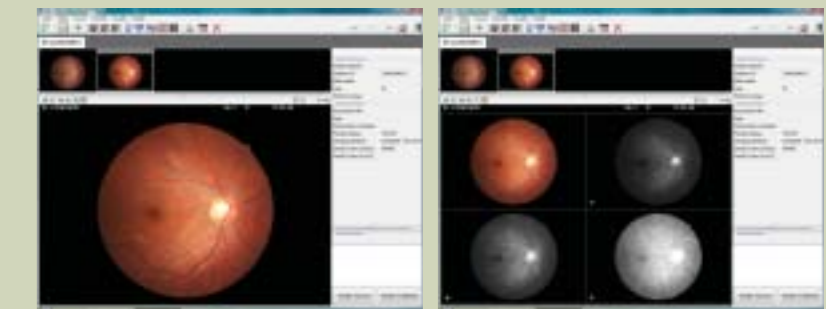


Anterior eye and stereo photography are available



### 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

