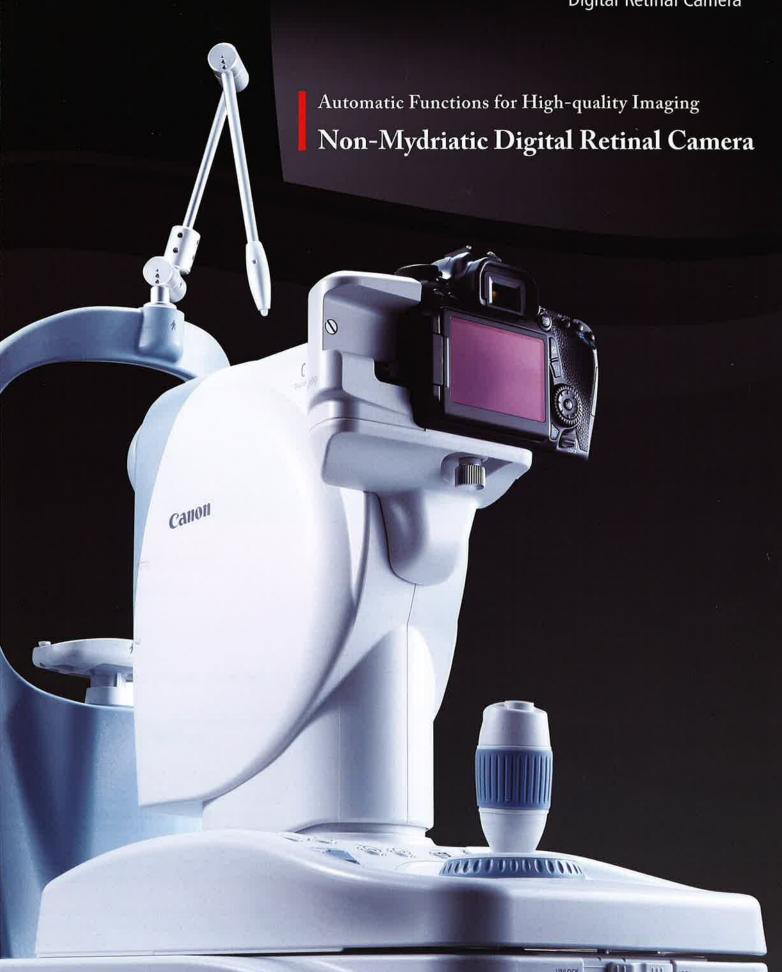
Canon

CR-2 AF
Digital Retinal Camera



CR - 2 AF Digital Retinal Camera

A truly versatile retinal camera that features the superior combination of ease-of-use and high quality images

With an integrated image processing function designed especially for cataracts, and an image contrast enhancement function, the camera is able to produce clear and high-resolution images. High-speed auto focus, auto shot and other automatic functions guarantee simple operation and high quality imaging. Introducing the CR-2 AF high image quality non-mydriatic digital retinal camera with a dedicated digital camera by Canon EOS technology.



[Auto imaging function]

Improved operability and shorter imaging time

Auto focus adjustment

Automatic imaging once position alignment is completed

Automatically adjusts to the appropriate light intensity for observation and photography

[CR-2 AF new functions]

The addition of an image enhancement function produces easy-to-see images of blood vessels that are superior to conventional retinal images.

Improves visibility of optic disks and blood vessels in images that are unclear due to cataracts, etc.

Integrated function for near-infrared imaging of the anterior eye that allows you to check the status of the meibomian glands.

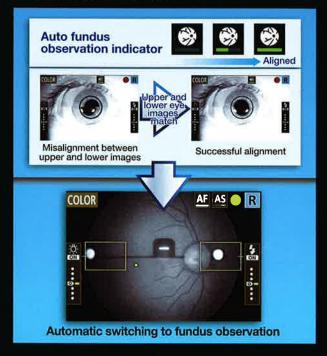


Easier to use and more comfortable auto functions for smoother retinal examinations

Improved operability and shorter imaging time

Retinal observation auto switch

Once the separate upper and lower eye images align, the observation mode automatically switches from anterior observation to retinal observation.



Automatically adjusts to the appropriate light intensity for observation and photography

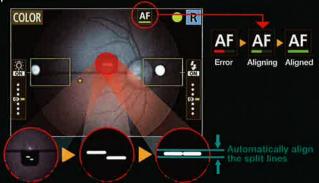
AE: Auto exposure

The AE function automatically adjusts the observation and photography brightness based on how bright the patient's eye is during observation. Imaging is done at the appropriate observation and photographic brightness.

Auto focus adjustment

Auto focus

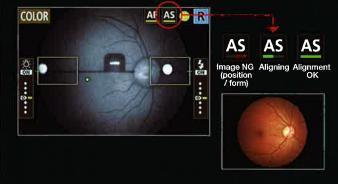
After switching to retinal observation, the focus adjustment operation at the center of the screen is automatically performed.



Imaging starts automatically once position alignment is completed

Auto shot

The CR-2 AF achieves simple photography at the right timing by automatically photographing immediately after AE, auto focus and working distance dot adjustments.



Simpler and more convenient basic functions for enhanced operations

High functionality packed into a lightweight 15 kg body

Compact body

In addition to improved portability, reducing the distance between the operator and the patient makes assisted photography easier



High quality imaging

Dedicated digital camera

The integrated digital camera makes it possible to more precisely reproduce the dark and light tones of the retina, allowing more diagnostic data from retinal images.



Basic functions all controlled via joystick

Improved operability

Position alignment, focus and the shutter buttons are all operated using the joystick, making one-handed imaging

easier. Placing all the most commonly used buttons on the operation panel makes intuitive operation possible. Self-luminous buttons are perfect for dark room operation.



Simple operation with the touch of a single button

Diopter compensation selections

Diopter compensation switches can be made at the touch of a button.

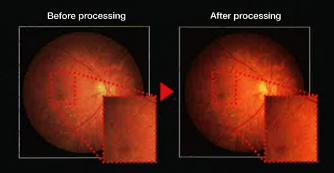


Clearer and more precise high resolution images

The addition of an image enhancement function produces easy-to-see images of blood vessels that are superior to conventional retinal images

Contrast enhancement

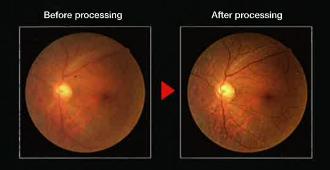
Contrast enhancement function emphasizes the differences in brightness and redness of blood vessels and their surrounding areas, supporting the capture of clear, high-quality images during fundus examinations.



Improves visibility of optic disks and blood vessels in images that are unclear due to cataracts, etc.

Opacity suppression

Image processing improves the visibility of unclear retinal images caused by the opacity of the media, such as cataracts. The opacity suppression function enables eyecare professionals to more easily observe the optic disks and retinal blood vessels.



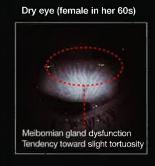
Integrated function for near-infrared imaging of the anterior eye that allows you to check the status of the meibomian glands.

Anterior IR photography

The integrated anterior eye IR imaging function allows imaging using frequencies of near-infrared light that easily reflect off the meibomian glands. It also allows you to check the status of the meibomian glands, which are closely related to dry eye.



Normal



bility

Better visibility during operation

Alignment monitor

Enlarged display of anterior eye images makes alignment easier.

Increased screen brightness improves the visibility of working distance dots when making retina observations.

Display enlargement approximately twice that of conventional devices

Making the anterior observation display larger makes alignment easier.

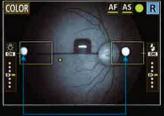


Increased WD brightness

Working distance dots are easier to see.

Improved image quality of retinal observation images

Papilla, macular area, and blood vessels are more clearly visible.



Working distance dots



smarter retinal examination

- Retinal observation auto switch
- Auto focus
- Auto shot
- AE: Auto exposure
 - Contrast enhancement
- **Opacity suppression**
- Anterior IR photography

[Improved basic functions]

High functionality packed into a lightweight 15 kg body

■ Compact body

Basic functions all controlled with joystick

Improved operability

Improved visibility during operation

■ Alignment monitor

High quality imaging

■ Dedicated digital camera

Simple operation with the touch of a single button

Diopter compensation selections

General Specifications	
Туре	Non-Mydriatic
Photography Modes	Color, Digital Red-Free, Digital Cobalt
Auto Function	AE (Auto Exposure) / AF (Auto Focus) / AS (Auto Shot) / Auto Switching Between Anterior and Retinal Observation
Angle of Photography	45°
Minimum Pupil Size	Φ4.0 mm (SP mode: φ3.3 mm)
Magnification	2X (Digital)
Mounted Digital Camera	CR-2 AF Dedicated Digital Camera Unit by Canon EOS Camera Technology
Sensor Resolution	Approx, 20.2 Megapixels
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
Working Distance	35 mm
Focus Adjustment	Alignment of Split Lines
Operation Distance	Anterior Observation: Double Image Match Method / Fundus Observation: Working Distance Dots
Internal Eye Fixation	LED Dot Matrix
Observation Light Source	Infrared LED
Photography Light Source	White LED
Movement Range	Stage: 70 mm Front and Back, 100 mm Left to Right, Main Unit: 32 mm Up and Down
Operating Environment	Temperature: 10°C to 35°C / Humidity: 30%RH
Dimensions	305 mm (W) × 500 mm (D) × 473 mm (H)
Weight	Approx. 15 kg (Including 0.8 kg Digital Camera)

CR-2 AF Components	
CR-2 AF Main Unit	
AC Power Cord Set	
Digital Camera (CR-2 AF Dedicated)	
Digital Camera Body Cap	
Cable Stopper	
CD-ROM (Retinal Imaging Control Software NM2)	
Operation Manual (Main Unit / Control Software)	
Objective Lens Cap	
Dust Cover	
Chin Rest Paper (100 Sheets)	
Camera mount cap	



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