Stay focused
with fundus
autofluorescence.

CR-2 PLUS AF
NON-MYDIATRIC RETINAL CAMERA

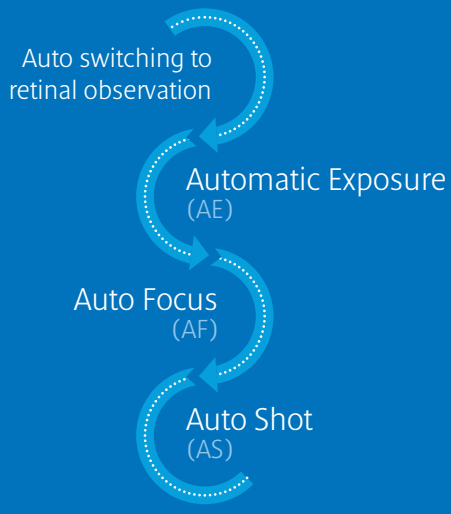
We Speak Image

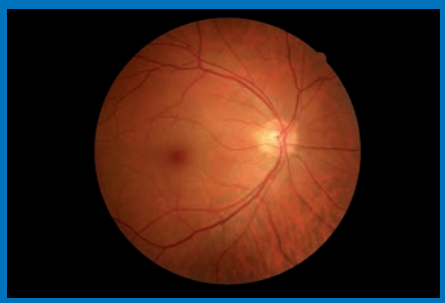
you can

Canon

Camera Canon EOS 1Ds Mark III | f5,6 | 1/500 | ISO 800

Extensive auto functions





The Canon CR-2 Plus AF is an extremely easy to use auto focusing non-mydriatic camera with fundus autofluorescence (FAF) capability.

Intelligent use of automation greatly simplifies operation and reduces examination time. The accurate auto focus, auto shot and auto exposure functions produce the best possible image quality at high speeds.

Examinations become comfortable for the patient and extremely quick – even in manual alignment mode. The FAF photography mode provides information on changes of the retina that are not visible with standard colour photography.

COMPACT DESIGN

Ergonomic excellence for effortless operation

Dedicated EOS camera
Canon's own EOS camera technology, with its renowned image processing capabilities, has been adapted exclusively for Canon retinal cameras to offer optimal retinal imaging.

Auto functions make imaging a breeze

Auto focus
Fast and accurate automatic focusing.

Auto shot
Once the alignment, working distance and focus are correct, photography is performed automatically.

Auto exposure
Flash and observation light intensity is set automatically for every examination, based on retina reflectance, for perfect images regardless of pupil size or ethnicity.

Auto Diopter Compensation switch
When reaching the end of the focusing range, diopter compensation is changed automatically to the plus or minus side.

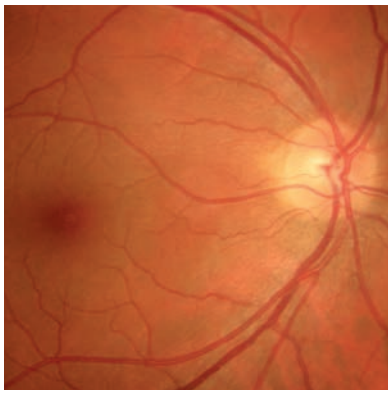
Fixation light pattern presets
The internal fixation light can be programmed to follow four different patterns, each with a maximum of nine positions.

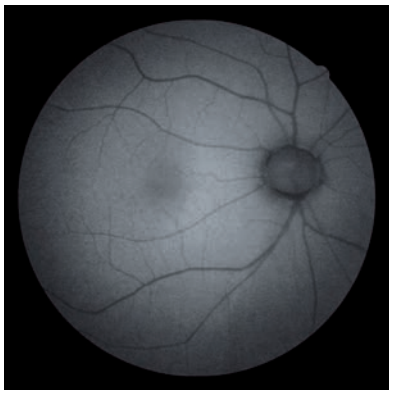
HDMI monitor ready
An external observation HDMI monitor can be connected to the dedicated EOS with ease.

Vari-angle LCD screen
For optimized viewing angles.

Extensive photography modes

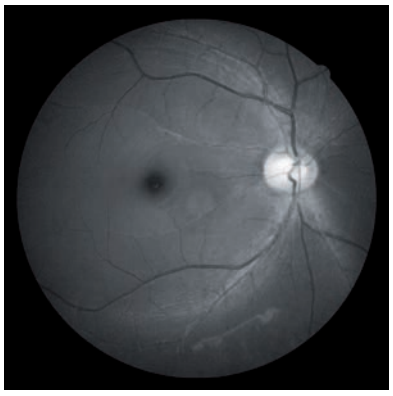
The CR-2 Plus AF takes advantage of several distinct imaging modes: Colour, Fundus Autofluorescence (FAF), Anterior Segment, and Stereo. In addition, Digital Red Free and Cobalt images can be created directly from the colour image. By offering such a full array of photographic options, the CR-2 Plus AF presents itself as an extremely versatile non-mydriatic camera.



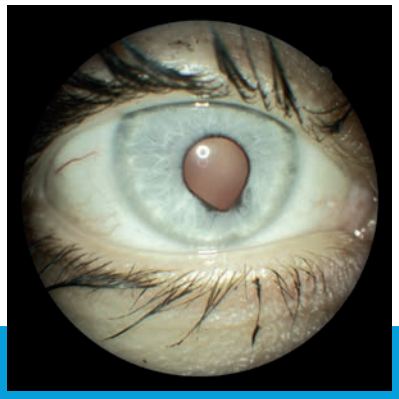


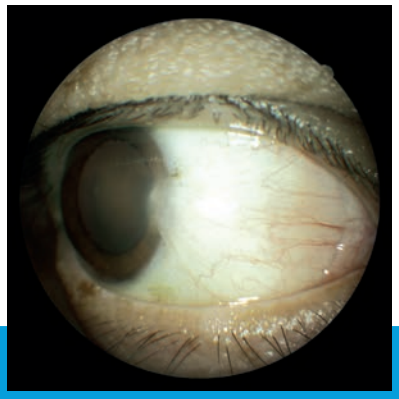
Colour [Left image]
Besides the 45° image, a 2 x digital magnification is available

FAF [Right image]
Benefit from the additional information that FAF can provide; carefully selected optical FAF filters offer valuable diagnostic images.

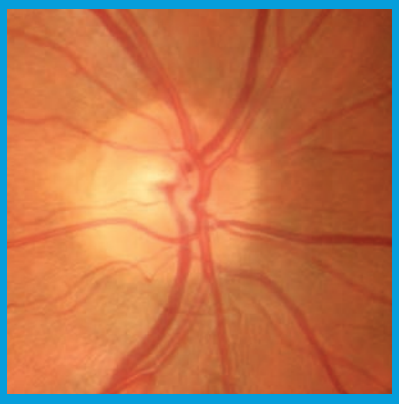


Digital Red Free and Cobalt
Canon's CMOS sensor technology allows Digital Red Free and Cobalt images to be created directly from the information of the initial color image.





Anterior segment
Simply press a button to activate the built-in additional compensator lens for quick and easy anterior segment photography to document the cornea, pupil, eyelid and sclera.



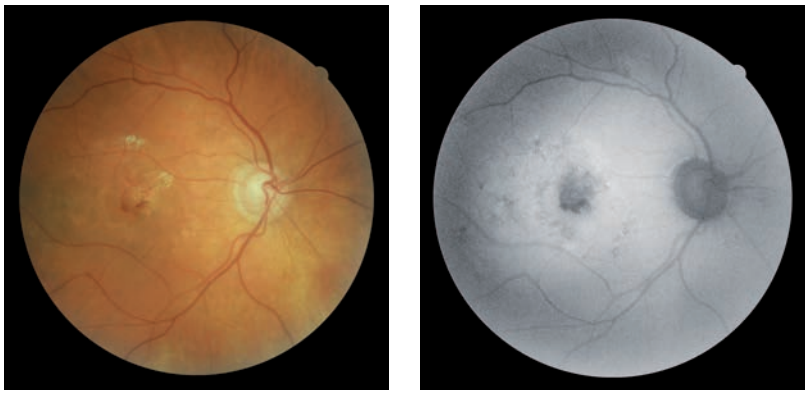
Stereo photography
Clear guidance by indicators on the EOS screen allows very simple creation of a stereo pair.

Karolinska Institutet

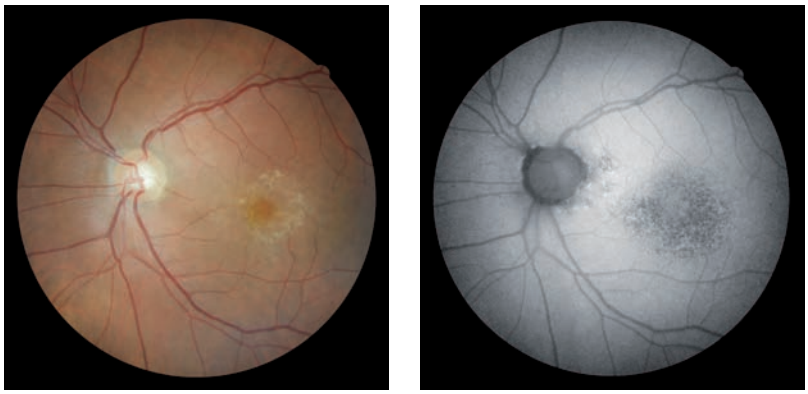
Images courtesy of Karolinska Institutet, Stockholm, Sweden

Fundus autofluorescence

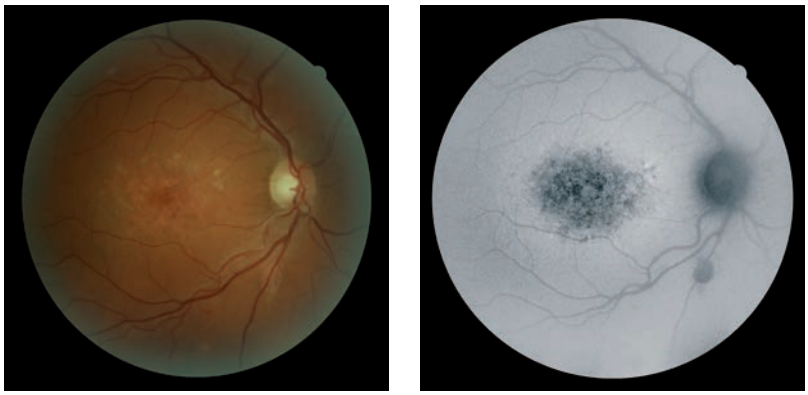
FAF imaging for the diagnosis of retinal disease is a relatively new diagnostic technique that provides more information on the health of the retinal pigment epithelium. FAF has proven to be very useful for the early detection of Age-related Macular Degeneration (AMD), one of the leading causes of visual impairment. Recent studies indicate that FAF imaging can also aid in the diagnosis of a variety of other diseases and even in the detection of intraocular tumors.



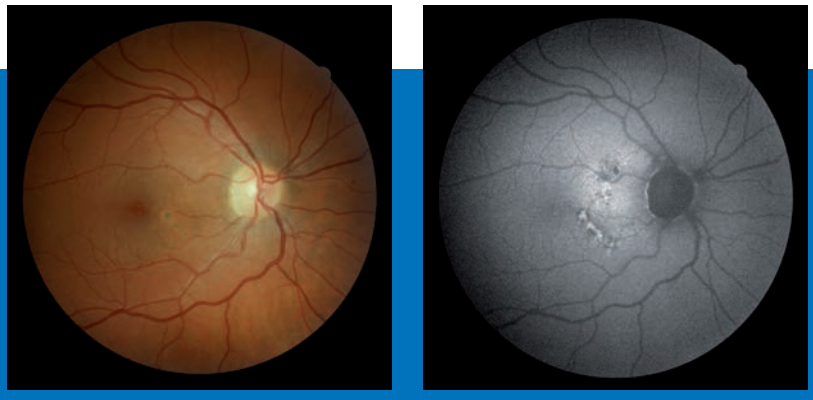
Macular Hemorrhage



Age-related Macular Degeneration



Wet Age-related Macular Degeneration

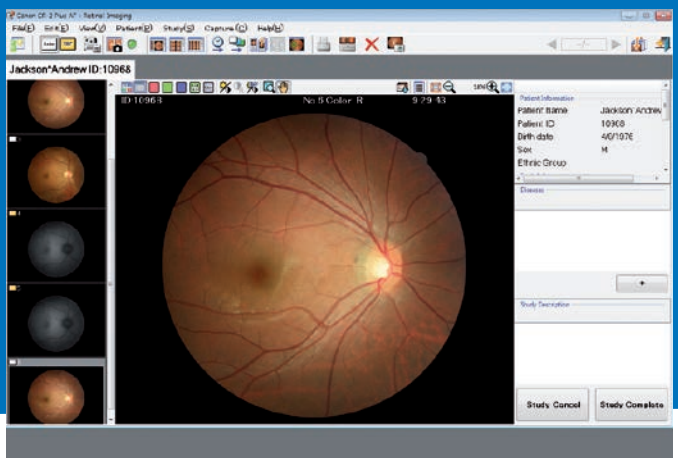


Central Serous Retinopathy

"With the extra feature of FAF photography, we have discovered retinal changes that we have not seen before, which makes us learn more about retinal changes and diseases every day we use the Canon retinal camera."
Rune Brautaset BSc (Hon), Mphil, PhD,
Associated professor and Head of Unit/director of Studies, Unit of Optometry/Optometry Education, Karolinska Institutet, St Erik's Eye Hospital, Stockholm, Sweden

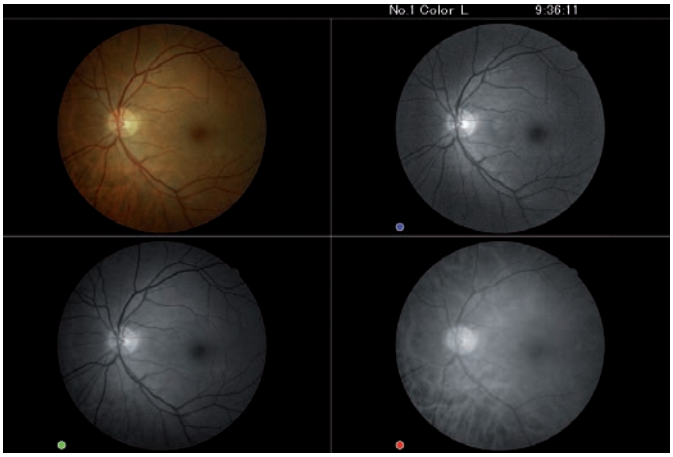
Retinal Imaging Control Software (RICS)

For full camera control, image optimization, optimized workflow and patient management.

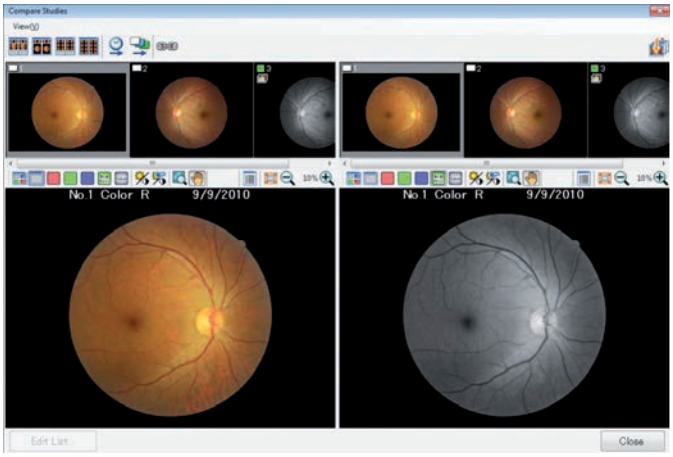


Capture screen
Study Input; Taking Images; Images display and processing. Inputting Image Comments; and disease name..

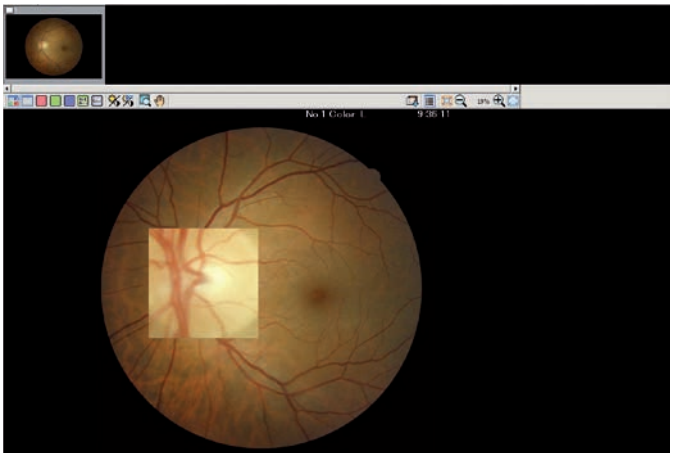
Widefield mosaic image
Can be created with the optional mosaic function in RICS. Up to 9 images can be combined in a mosaic.



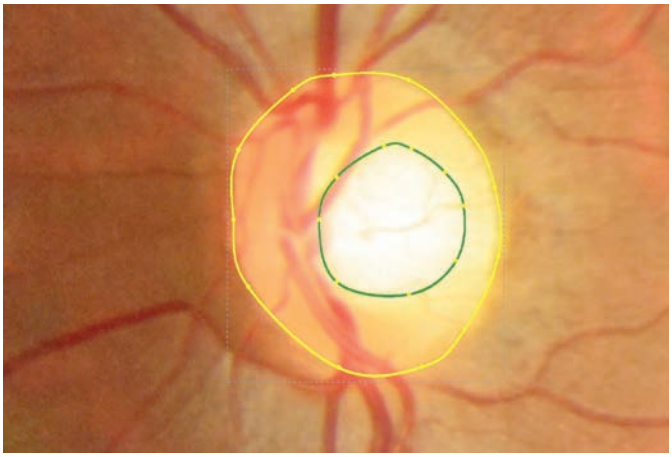
RGB channels
Colour images can be separated into Red, Green and Blue channels for additional diagnostic information.



Comparison studies
Compare between different studies or different images within the same study.



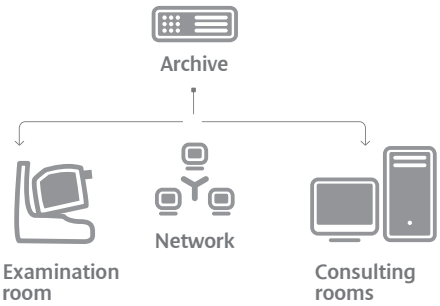
Loupe function
The image can be magnified at a user selected ratio and location.



Measuring the C/D ratio
By area, line or vertical ratio; the drawing is stored for future reference.

Configuration

The Canon CR-2 Plus AF with RICS can be used standalone but also in a network and is fully DICOM compliant. Seamless integration with practice management systems is also possible.



Viewing studies from other locations
Studies can be reviewed from the archive over the network. Studies can only be reviewed – no actual changes are currently possible.

Specifications

Angle of view	45°
	2 X digital magnification
Minimum Pupil Size	ø 4.0 mm
	(SP Mode ø 3.3 mm)
Working Distance	35 mm
Auto Functions	• Auto Focus
	• Auto Shot
	• Auto switching from anterior to retinal observation
	• Auto Exposure
Mounted sensor	Dedicated digital EOS camera
Resolution	18 Megapixel
	(for current EOS model)
Monitor	3.0 inch LCD screen (on EOS)
HDMI Output for external monitor	YES
	(720 x 480 resolution)
Photography Modes	Color/FAF/Digital Redfree/ Digital Cobalt and Anterior mode

Patient's diopter compensation	–10D ~ +15D (standard)
	–31D ~ –7D
	(with minus compensation)
	+11D ~ +33D
	(with plus compensation)
Internal Fixation target positions	• 70 points (manual)
	• Center, macula or disc
	• 4 programmable patterns (max 9 positions each)
Observation light source	Infrared LED
Flash light source	Xenon lamp
Dimensions (W x D x H)	305 x 500 x 513 mm
Weight	19.9 kg
Power supply rating	AC 100 V to 240 V, 50/60 Hz, 1.8A to 0.8A
Accessories	External eye fixation lamp unit EL-1
	Chin rest paper (500 sheets)

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 Versatility

Everything we do has to have a significant customer benefit.

Canon Eye Care product line up

Retinal cameras

Non-Mydriatic

CR-2

CR-2 Plus AF

Mydriatic

CF-1

NM / Myd

CX-1

Optical Coherence Tomography

OCT-HS100

Measurement Equipment

Ref/Keratometer

RK-F2

Tonometer

TX-20

Tono/Pachymeter

TX-20P

Optopol* Eye Care product line up

Optical Coherence Tomography

Copernicus+

Perimetry

PTS-910

PTS-910 B/Y

PTS-1000

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CR-2 Plus AF
English Edition 0178W563

Canon Europa N.V.
Medical Systems Division
Bovenkerkerweg 59–61
1185 XB Amstelveen
The Netherlands
www.canon-europe.com/medical