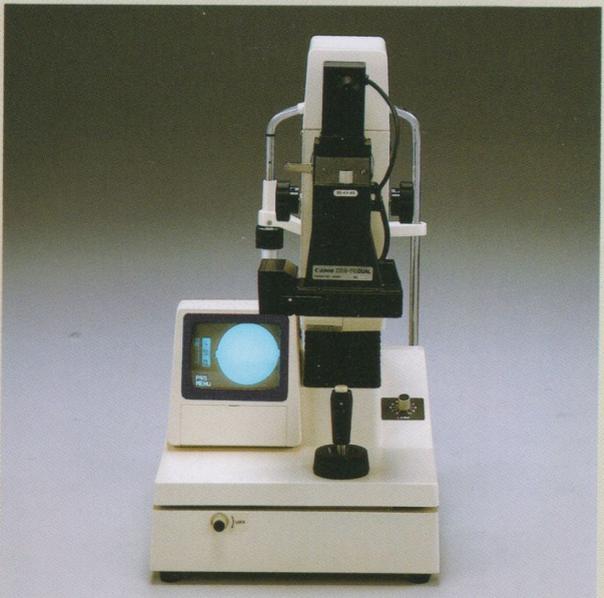
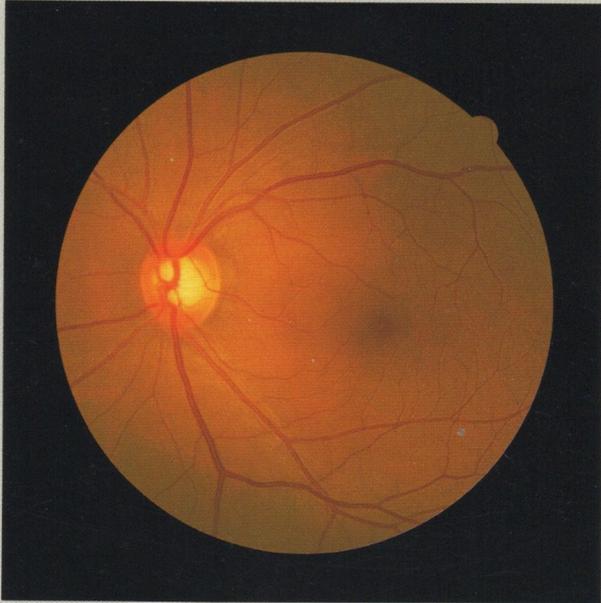


Canon

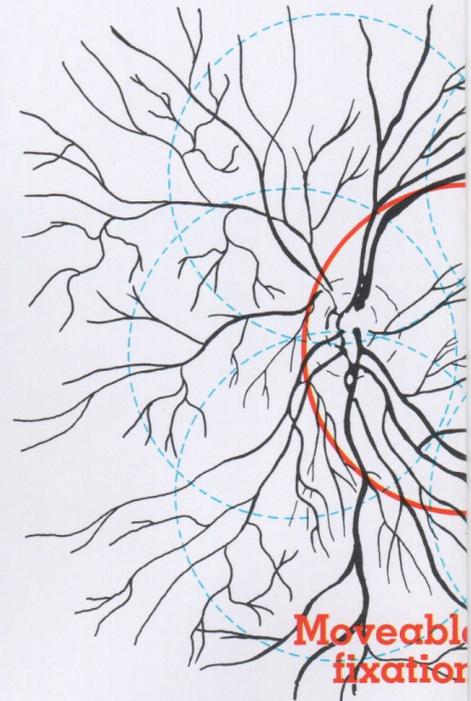
CR4-45NM DUAL

Non-Mydriatic Retinal Camera



THE DUAL AN A NEW FIELD FOR

The Canon CR4-45NM DUAL takes fundus photographs of two different angles. The star of retinal image providing more accurate and detailed information. The CR4-4

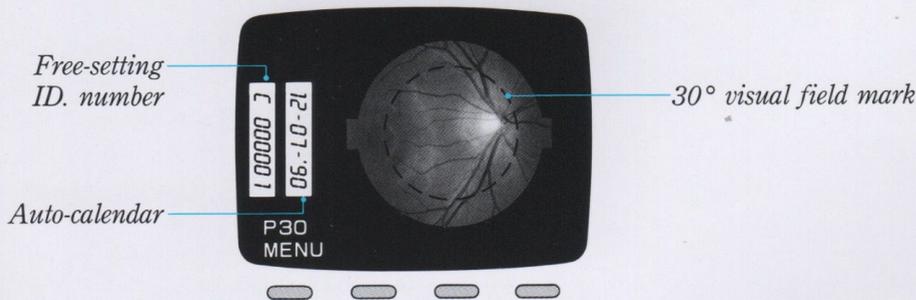


Confirmation of 30 degree field

A 30° visual field mark appears on the monitor in Polaroid photography, allowing the examiner to confirm which area will be photographed on the Polaroid film.

Moveable internal fixation target

As the internal fixation target, a green dot, is moveable and can be seen on the TV monitor, part of the retina, such as macula or optic disk, can be positioned as you like.



Clear record

The photography provides the doctor with a clear, high resolution, permanent record of examinee's eye. Careful comparison of past and present images will help detect subtle changes in the retina.

Warning system

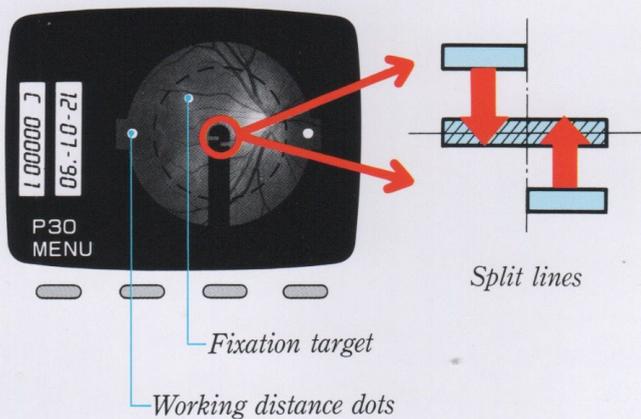
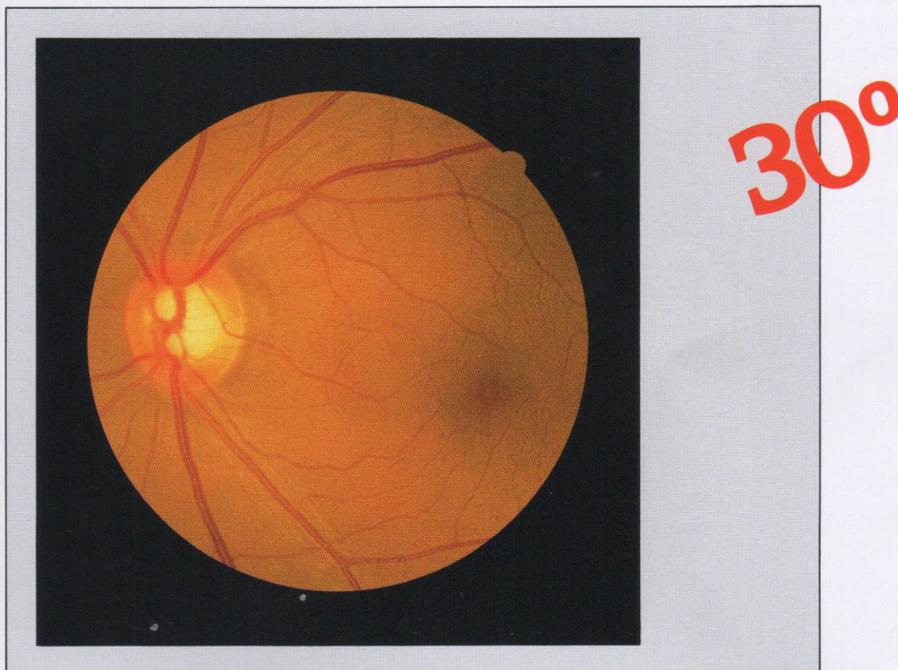
The automatic self-checking system displays the warning message, "CHECK FILM BACK", on the monitor when

- 1) New Polaroid film pack is required.
- 2) The film cover of the Polaroid film pack is not removed.



ANGLE CREATES YOUR PRACTICE

Standard 45 degree field and 30 degrees. The 30 degree photo has the enhanced magnification
5NM DUAL is useful for diagnosis of glaucoma and other disc abnormalities.



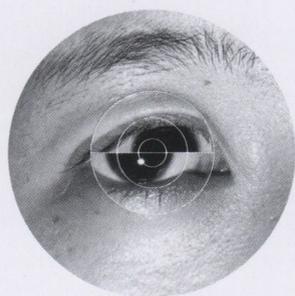
Easy focusing

Canon's original split-line focusing system has drastically changed focusing methodology. Simple alignment of the split-line makes it easy to consistently obtain sharp images.

Simple working distance adjustment

The optimum working distance eliminates flare on the photograph. The following are three simple steps for working distance setting.

- 1) Align the pupil image.
- 2) Display the retinal image by pressing the ALIGNMENT switch.
- 3) Set the two working distance dots as sharp as possible. The lugs on each side of the image are helpful for positioning the dots.



Pupil image before alignment



Pupil image aligned

CR4-45NM DUAL Specifications

Type	Non-mydratiac type
Picture angle	45° at 0 diopter (35mm and Polaroid) 30° at 0 diopter (Polaroid)
Image size	φ72mm on Polaroid film φ22mm on 35mm film frame
Minimum pupil diameter	4.0mm or more
Examinee's diopter compensating range for photography	
Without compensating lenses	- 12 to + 15D (Applicable range of split line focusing)
With negative compensating lens	- 7 to - 33D
With positive compensating lens.....	+ 11 to + 35D
Positioning of a pupil	φ50mm area of the external eye can be observed on the TV monitor. Split image system is applied to the φ20mm area of the pupil, and working distance preadjustment is possible by aligning split images.
Focusing	By aligning the split lines on the retinal image (- 12D to + 15D)
Working distance adjustment	By use of flickering working distance dots
Light source	
For observation	12V 75W Halogen lamp (through infrared filter)
For photography.....	300V 300Ws rated Xenon flash lamp
Fixation target	Internally incorporated fixation target at infinity allows examinee's full natural dilation with accurate fixation.
Data printing	Two of the followings can be printed on 35mm film: 1. Description on exclusive plastic card 2. 6-digit ID. number 3. Auto-calendar
TV camera and monitor	CCD camera 5-inch black & white TV monitor built-in
Film used	Polaroid High Speed Land Film 600 or Type 779, 35mm film ISO (ASA) 100
Power supply	120V, 60Hz, 300VA
Dimensions & weight	
With a Polaroid back unit	324(W)×550(L)×590(H)mm (approx. 13×22×23 inch) Approx. 27.0kg (approx. 60 lbs)
With a 35mm camera back unit	324(W)×510(L)×590(H)mm (approx. 13×20×23 inch) Approx. 27.0kg (approx. 60 lbs)

Components

Main unit.....	1
Power cord.....	1
Data card	5
Cap (for objective lens, camera mount)	1 each
Dust cover.....	1
Spare lamp (for observation illumination).....	1
Chin rest paper	100
Blower-brush	1

Optional accessories

1. Polaroid color back unit CR4-PC DUAL
2. 35mm camera back unit CR4-FR
3. External fixation target CR4-FL
4. Chin rest paper CR4-AP
5. Motorized table
6. Data card CR4-DC (A set of plastic cards, 100 pcs.)

"Polaroid" is registered trade mark of Polaroid Corp., Mass., U.S.A.

Subject to change without notice.

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