

Mydriatic/ Non-Mydriatic Integrated Retinal Camera





Specifications

| | Non-mydriatic color Mydriatic color | Internal fixa |
|-----------------------------|---|---------------|
| Photography modes | Fluorescein fundus angiography (FA) Red-free (RF) | External fixa |
| | Fundus autofluorescence (FAF) | Exposure |
| Field of view | Non-mydriatic mode : 45°/27° Mydriatic mode : 50°/30° (SP:45°/27°) | |
| Working distance | 39mm(between the examined eye and the object lens) | Camera |
| | Non-mydriatic mode : ¢4.0mm | Monitor |
| Minimum pupil diameter | (SP φ3.5mm) Mydriatic mode : φ5.5mm | |
| | (SP1 ¢4.0mm/SP2 ¢3.5mm) | Adjustment |
| Focusing | Split luminous bars coincidence | |
| Range of focus adjustment | Without compensation : -12D to + 13D | Recording n |
| for compensation of | Compensation - : -32D to - 10D | |
| patient's refractive error | Compensation + : +10D to +35D | Interface |
| Range of diopter adjustment | | |
| of the optical finder | -8D to +5D | Power savin |
| Working distance | Luminous dot indication (ON/OFF switchable) | 5 |
| adjustment | Luminous dot indication (ON/OFF switchable) | Power supp |
| Light source | For observation :Halogen lamp For photography:Xenon flash lamp | Dimensions |
| | | Weight |
| Flash compensation | ±5 steps | |
| | | |

| Internal fixation light | Central/disc/macula/peripheral | |
|-------------------------|--|--|
| External fixation light | Red/green LED | |
| Exposure | Appropriate exposure is automatically set based on the 37-steps (0.6WS to 300WS) of field angle, filter, and photography mode | |
| Camera | Higher than 12 megapixel CMOS sensor | |
| Monitor | 7 inch wide-screen touch LCD | |
| Adjustment range | Forward/backward: (gross) 90mm, (micromotion) approx. 17.5mm Leftward/rightward: (gross) 140mm, (micromotion) approx. 17.5mm Upward/downward: 30mm Tilting: (elevation) 11°, (depression) 15° Panning: (left/right) 30° horizontally | |
| Recording medium | CF memory card | |
| Interface | USB : VK-2 connection Printer connection Card reader connection LAN : Image output | |
| Power saving function | Yes | |
| Power supply | Input : AC 120/230V 50/60Hz Power consumption : 250 VA 1500 VA (Max.) | |
| Dimensions | 390(W)×540(D)×720(H)mm | |
| Weight | 39kg/86lbs | |

Options









ミックス

責任ある木質資源: 使用した紙

FSC FSC" C014473

Internal fixation target

Auxiliary forehead rest

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REF K9L56_1188500MK/K Printed in Japan.







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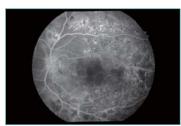


Innovative design in full pursuit of retinal camera, both patient-friendly and easy-to-use for operator



Enhanced photography features 5 photography modes including FAF*

In addition to the non-mydriatic color, mydriatic color, fluorescein fundus angiography (FA), Red-free (RF) modes, fundus autofluorescence (FAF*) mode is added to allow 5-modes photography. Also, the SP mode that allows photography of ϕ 3.5 mm of small pupils is equipped.



Fluorescein fundus angiography (FA)

Updated design providing stress-free diagnosis

75mm reduced height of examined eye from our previous model ("VX-10" series), allowing photography in a relaxed posture.

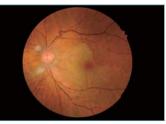
Instant image filing software is equipped.

The instant image filing feature allows ID management of images, browsing, and direct output to the external printer. In addition, images can be output to every electric medical records of any manufacturers through the network, not to mention by connecting to the image filing system Kowa VK-2.

Optical variable 2 angles

Field of view can be switched between $45^{\circ}/27^{\circ}$ in non-mydriatic mode or between $50^{\circ}/30^{\circ}$ in mydriatic mode by a simple pressing of a button. tł



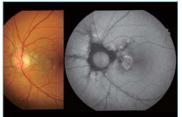


Non-mydriatic color



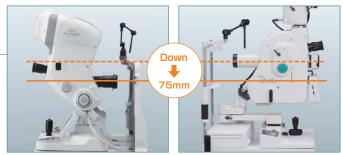


Mydriatic color



Red-free (RF)

Fundus autofluorescence (FAF*) Photo : Showa University * Optior



VX-20

VX-10a (Previous model)



Fundus can be observed through the optical viewfinder.

In mydriatic mode, the fundus can be observed through the optical viewfinder, allowing photography of images exactly as viewed. This feature is particularly helpful for photographing peripheral part of the retina.

VX-20, simple operation with various useful features, supporting smooth daily medical practices!

Design:Chin rest

- Eye level indication can be easily seen even in the darkroom.
- Stable chassis that makes it easy to assist in eyelid opening.





Design:Tilt angle

The downward tilt angle has been expansion to 11 degrees.

Thus, facilitating upward-angle shoots, which have been difficult with the conventional models. * As with compared to our previous models.

High resolution photography

- The special digital camera built-in.
- ▶ The easy image storage.



Wide-screen touch LCD monitor

Wide-screen touch LCD monitor is employed, on which the image is displayed in the center with touch panel icons effectively placed along both sides of the screen. It also provides easier operation with the easy-to-see touch LCD monitor.



Focusing on design for operability

Only usable switch buttons are illuminated according to each photography mode, enabling smooth and quick photography even in the darkroom. Moving chin rest up/down and switching field of view are electrically performed, that can be operated at hand.

SP (Small Pupil) photography mode

In mydriatic mode, either ϕ 3.5mm or ϕ 4.0mm can be selected. In non-mydriatic mode, ϕ 3.5mm is available.

* The SP mode is not supported in RF mode. * With ϕ 3.5mm photography, some eyes may cause a flare around their circumference.

Fixation light switching

Central/disc/macula/peripheral, and external fixation light can be switched with a single touch of a button.

Custom buttons

Photographic sensitivity, diaphragm, and photographic intensity can be set by the user. Depending on the patient, photographic settings can be easily adjusted with simple operations, for example, by increasing the sensitivity to allow patient-friendly photography or to compensate the insufficient light intensity for the FA later phase.

Photography with monitor observation

In mydriatic color, FA, RF, and FAF modes, photography under the monitor observation that can reduce the photophobia of the patient is also possible, in addition to the normal viewfinder observation.







Photography with ϕ 4.0mm

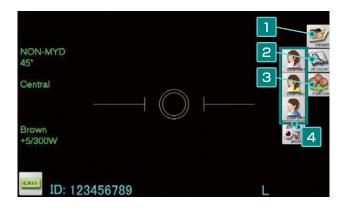
Photo: Showa Univer



Instant image filing function

Capture mode

The capture mode allows the user to input IDs and display the alignment images or images just captured.



1 Viewer button

Used to switch from the capture mode to the viewer mode.

2 ID input button

Used to input the ID. Pressing this button to display the ID input screen.

3 Fixation light selection button —

Used to select the fixation light. Pressing this button displays fixation light buttons to allow selection.

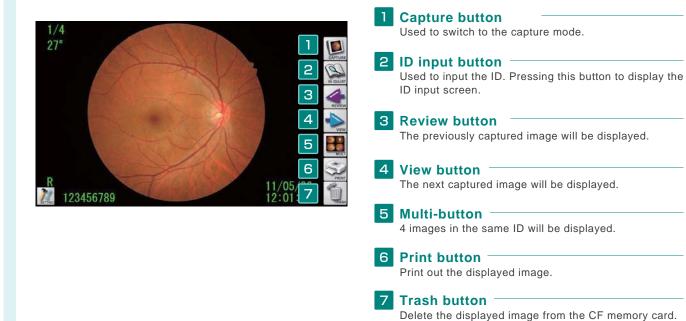


Used to select user-set photographic conditions.

* When connecting to the image filing system Kowa VK-2, the image just captured is displayed on the monitor of the image filing system.

Viewer mode

The viewer mode allows the user to browse the images saved in the selected ID, and print or delete the displayed image.



*When connecting to the image filing system Kowa VK-2, the viewer mode is not available.

Example of System Configuration

Stand-alone

- Equipped with the instant image filing function using a touch panel.
- ▶ ID input from the card reader is possible.
- Multiple-image display (4 images).
- Photography data is saved in the CF memory card.
- Allows direct printing to the printer.



Network

- Direct connection with the intranet via LAN.
- ▶ ID input from the Kowa VX-20 is possible.
- Photographic data can be saved in the network terminal.
- Allows direct printing using the preview display.

Connecting to the image filing system Kowa VK-2

- All the captured images can be freely saved and managed.
- Data sharing on the intranet is possible.
- Equipped with the multi-timer function for FA photography.

Options





Automatic mosaic merge function Photo: Showa University PDT irradiation area calculationsupport software





USB