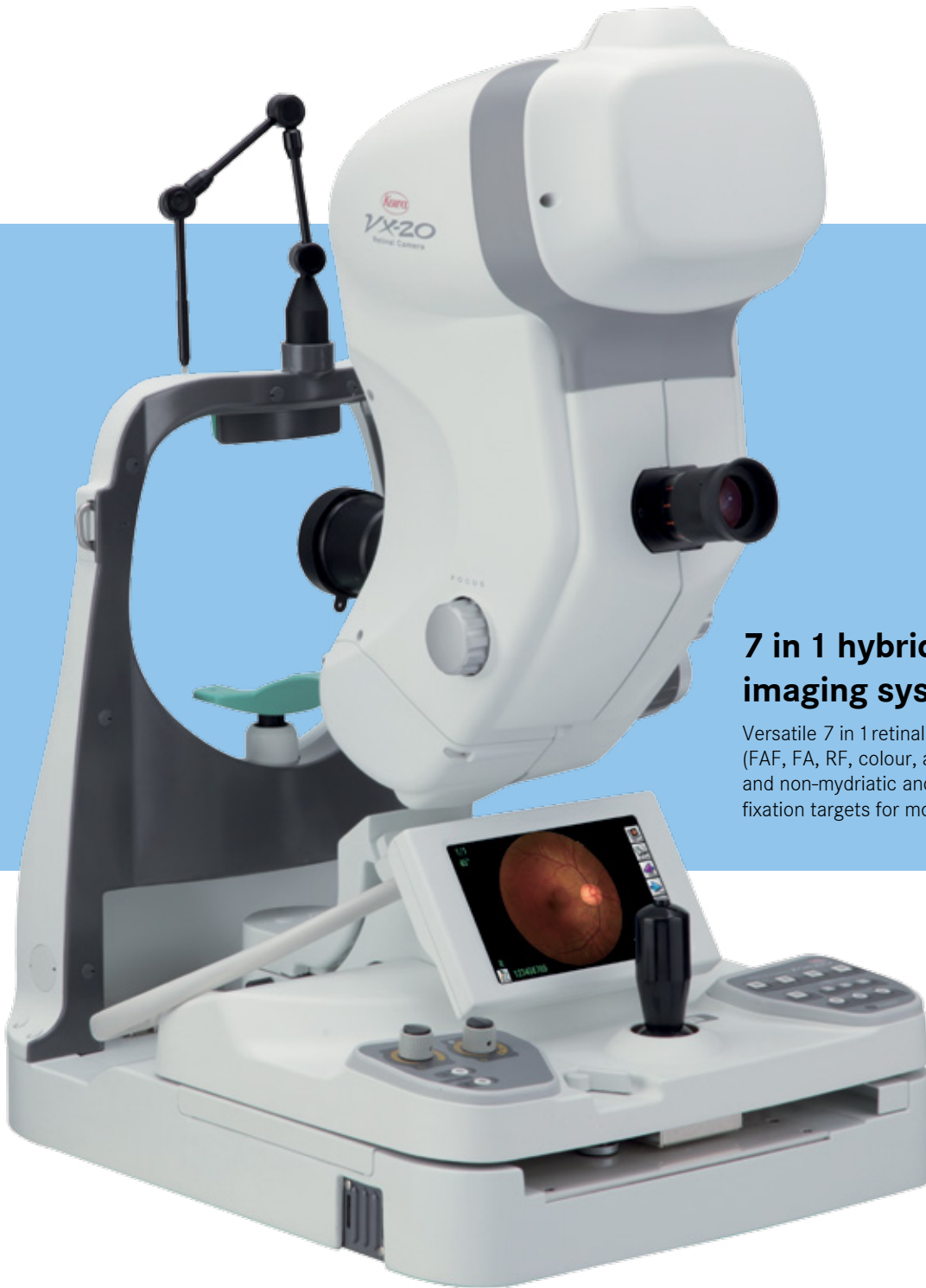




Kowa VX-20

Combined mydriatic & non-mydriatic
retinal camera



7 in 1 hybrid retinal imaging system

Versatile 7 in 1 retinal imaging system
(FAF, FA, RF, colour, anterior, mydriatic
and non-mydriatic and 9 point internal
fixation targets for mosaic imaging)

www.kowamedical.com

The Kowa VX-20 is a unique, hybrid combined retinal camera that offers versatile, high quality, retinal imaging in one easy to use system

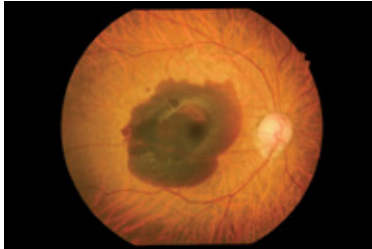
Due to its outstanding features, the Kowa VX-20 remains the first choice for clinicians



Key benefits

- Superior quality retinal imaging
- Ergonomic design for enhanced patient comfort and operator experience
- Simple, easy to use system
- Fast image capture in FA mode
- Saves time with direct printer & network connections
- Saves space with modern, compact design
- Narrow camera design allows the operator better view of the patient
- Efficient work flow through advanced networking & connectivity

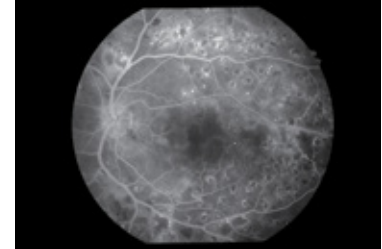
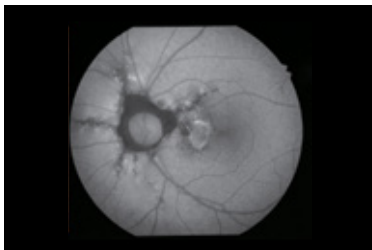
Superior high quality retinal imaging – featuring 7 photography modes



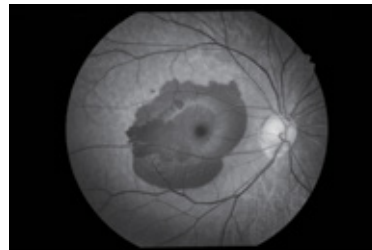
Mydratiac colour



Non-mydratiac colour

Fluorescein fundus angiography (FA)
(the actual captured images include the timer)

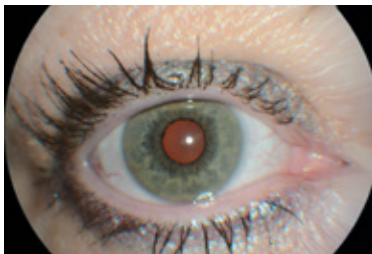
Fundus (FAF)



Red-free (RF)



Small pupil mode (the actual captured images include the timer)



Anterior

Furthermore, the Kowa VX-20 has an autofluorescence (FAF) mode to provide further diagnostic investigation of the health of the retina such as ARMD.

New, ergonomic, compact design

The new innovative design of the VX-20 ensures both patient comfort and ease of use for the operator.



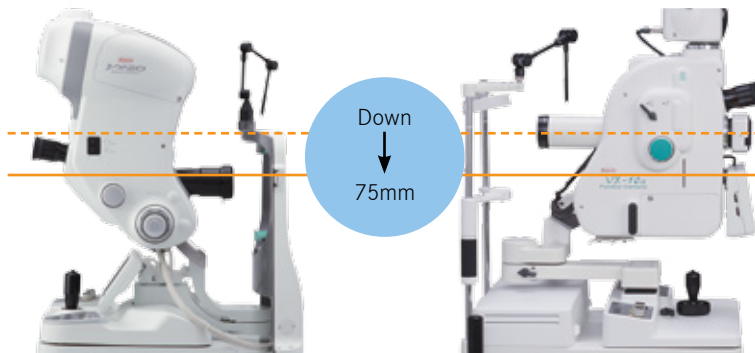
Featuring

- Versatile 7 in 1 retinal imaging system
- FAF (Autofluorescence), FA, RF, colour, anterior, mydratiac and non-mydratiac modes and 9 point internal fixation targets for mosaic imaging
- Integrated PC for easy image storage
- Compact design to fit perfectly within the clinical environment
- Enhanced functionality at the touch of a button, easily switching between non-mydratiac (45° / 27°) and mydratiac (50° / 30°) modes. Allowing for more detailed imaging of localised areas of interest
- Optical view finder allowing the user to observe the fundus to enable accurate image capture as viewed. This also supports image capture of the peripheral area of the retina

Easy to use, efficient retinal camera supporting your daily practice within the ophthalmic environment

Relaxed, comfortable diagnosis

The new position for your patients' eye is 75mm lower than Kowa's previous model enabling a more comfortable, relaxed position.



Kowa VX-20

Kowa VX-10a (previous model)

Easy operation - even in darkrooms

The stable chassis offers easier patient alignment whilst the LED eye level mark makes testing easier in darkrooms.





Larger range of peripheral imaging

The downward tilt angle has been increased to 11° increasing the possible range of peripheral imaging.



Easy patient observation

The Kowa VX-20 includes a 7 inch wide, LCD colour touch screen that is simple to use and is ideally positioned to ensure easy patient observation.

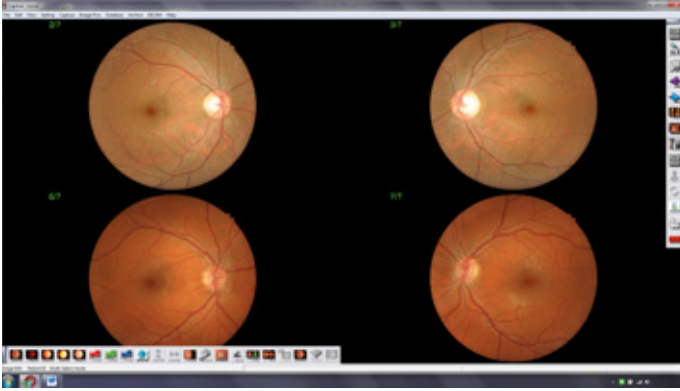
Simple 1-handed operation

The control panel for the Kowa VX-20 has been designed in order to improve the operator experience and keep everything within easy reach for the clinician.

Features

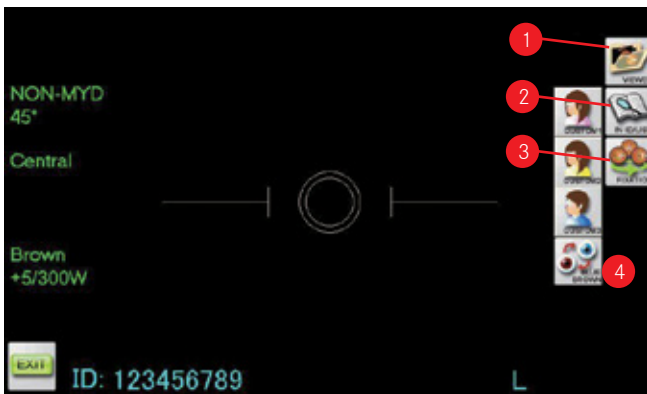
- Operational buttons positioned for at-a-glance usage
- Electrical chin rest adjustment
- Up-down joystick movement for fast target setting
- LED buttons
- Simple 1-handed operation

Kowa VK-2 high performance digital imaging software



The Kowa VK-2 digital imaging software easily captures and stores retinal photographs taken from the Kowa VX-20 retinal camera, producing high quality 2D retinal images in just one click in combination with the high resolution digital SLR camera.

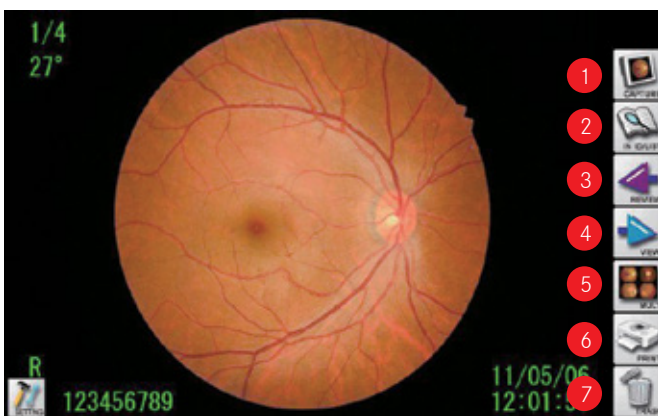
Capture mode



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

- 1 **Viewer Button**
- 2 **ID input button**
- 3 **Fixation light selection button**
- 4 **Custom buttons**

Viewing mode



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

- 1 **Capture Button**
- 2 **ID input button**
- 3 **Review button**
- 4 **View button**
- 5 **Multi-display button**
- 6 **Print button**
- 7 **Trash button**

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

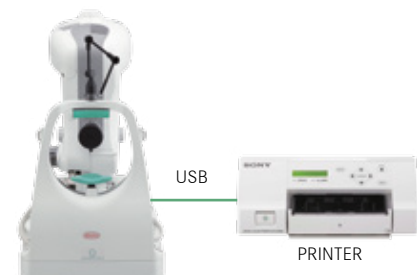
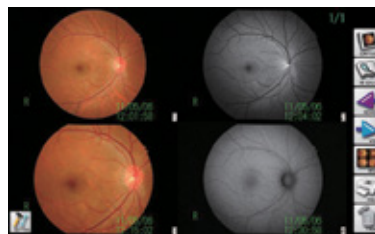
When connected to the Kowa VK-2 image filing system the image just captured will only be displayed on the monitor of the image filing system.

Due to its versatility, Kowa VX-20 offers you various configuration options to meet your clinical needs

Stand alone

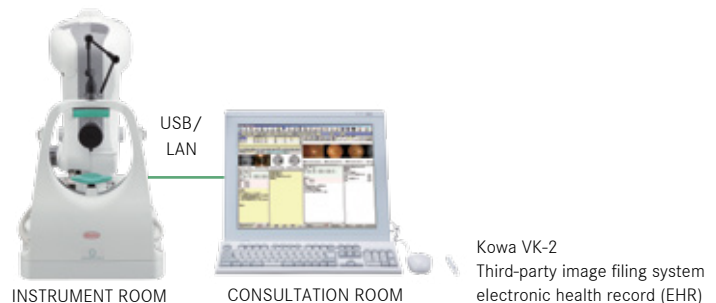
- Equipped with the instant image filing function using a touch panel
- ID input from the card reader
- Multiple-image display (4 images)
- Easily save captured images within the CF memory card
- Allows direct printing

ID	Update	Today
123456789	2011/01/01	-
111	2011/01/01	
222	2011/02/02	
333	2011/03/03	
444	2011/04/04	
555	2011/05/05	
666	2011/06/06	
777	2011/07/07	
888	2011/07/22	
No ID	2011/08/11	



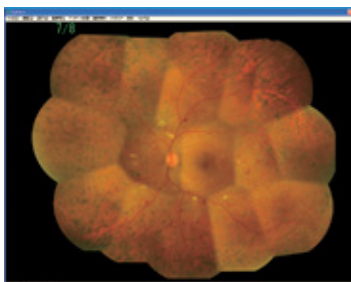
Advanced network connectivity

- Simple intranet connection via LAN
- ID input from the Kowa VX-20
- Easily store captured images within the network terminal
- Direct printing using the preview display

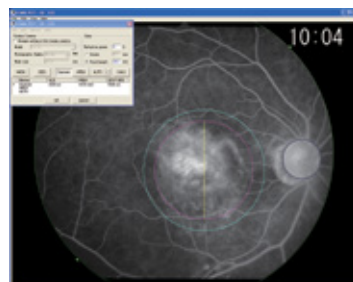


Connect to the Kowa VK-2, its high performance digital imaging software

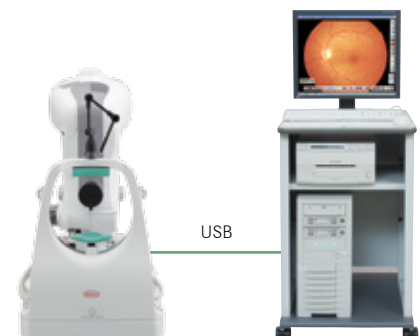
- Easily save and manage your captured images
- Share data via your intranet
- Includes a multi-timer function for FA photography



Automatic mosaic merge function
Photo: Showa University



PDT irradiation area calculation
support software



Specifications

Photography modes	Non-mydratiac colour / Mydratiac colour / Fluorescein fundus angiography (FA) Red-free (RF) / Fundus autofluorescence (FAF)
Field of view	Non-mydratiac mode : 45° / 27° Mydratiac mode : 50° / 30° (SP : 45° / 27°)
Working distance	39mm (between the examined eye and the front of the objective lens)
Minimum pupil diameter	Non-mydratiac mode : ϕ 4.0mm (SP ϕ 3.5mm) Mydratiac mode : ϕ 5.5mm (SP1 ϕ 4.0mm / SP2 ϕ 3.5mm)
Focusing	Split luminous bars coincidence
Range of focus adjustment for compensation of patient's refractive error	Without compensation : -12D to +13D Compensation - : -32D to -10D Compensation + : +10D to +35D
Range of diopter adjustment of the optical finder	-8D to +5D
Working distance adjustment	Luminous dot indication (ON / OFF switchable)
Light source	For observation : Halogen Lamp For photography : Xenon flash lamp
Flash compensation	\pm 5 steps
Internal fixation light	Central / disc / macular / 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) x 540(D) x 720(H) mm
Weight	39kg / 86lbs

Images in the LCD monitors are compositions. All other companies and product names stated here are trademark or registered trademark of each company. Specifications and appearances are subject to change without notice.

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