



Quantitative measurement equipment for flare in the anterior chamber

Laser Flare Meter
KOWA FM -600



User-friendly, patient-friendly, designed to be the best partner.

The KOWA FM-600 offers smooth and simple measurement of aqueous flare in the anterior chamber. Front alignment mode and standard side view alignment mode are available.

C o m p a c t Simple & Quick

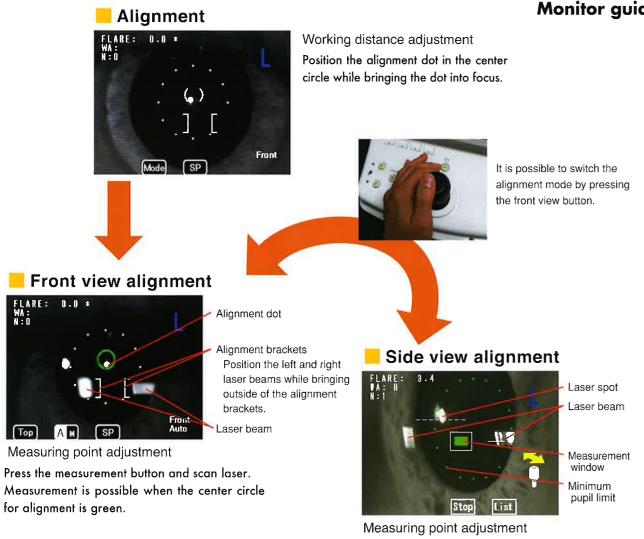
Easy Alignment

All of Kowa's manufacturing expertise were put together to design a flare meter with all necessary functions, in a compact body.

With operations made while facing the patient and all buttons located within hands reach, the flare meter is easier to use than ever.

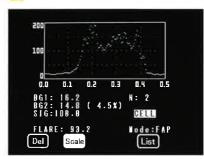
Quick and precise measurement is capable with SP (small pupil) mode and front / side view alignment modes.

Monitor guide for easy and quick alignment





Measurement results





Graph result

The scattered light is converted into an electrical signal and its intensity is displayed as flare value on the LCD monitor.

All flare and dispersion data is analyzed, providing reliable and accurate measurements.

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Printout



Built-in thermal	printer	with	easy	paper	change
supports quick	operati	ons.			

Calibration

Edit Stat. End



Pre-installed calibrator on the body for easy calibration.

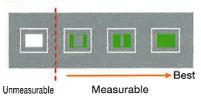
SP mode



The alignment position for patients with small pupils displays when the SP button is pressed.

Measurement window

Measurement is possible when the measurement window



at the center is green.

The color and view of the measurement window depends on the alignment. Measurement cannot be made when the central square is white; measurement is possible when the same square is green.

Measurement principle

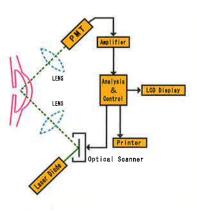
FM-600 is based on the measurement principle of laser light scattering detection. The instrument uses a diode laser beam to scan a measuring window that is projected inside the anterior chamber of the eye.

As an aqueous protein (component of inflammation) passes through the focal point of the laser, light scattering occurs.

The intensity of the scattered light (directly proportional to the amount of protein particles-flare) is detected by a photomultiplier tube (PMT), which generates an electrical signal.

This signal is immediately digitized to eliminate outside noise interference and are processed by a computer which displays the results for user analysis.

The unit of measurement employed by FM-600 is "Photon Count" per millisecond.





Specifications

Scanning laser source	Laser diode, Wavelength: 635 nm, Intensity: 35 μW		
Photoreceiver element	Photomultiplier tube (PMT)		
Measurement range	1~500 photon counts/ms		
Measurement accuracy	±5%		
Measurement area	0.3(H)×0.5(W) mm		
Measurement time	0.5 seconds		
Measurement distance	81 mm (Patient's eye to photoreceiver lens)		
Printer	58 mm wide thermal printer		
Monitor	5.6 inch TFT color LCD		
Base segment working range	Lengthwise: 37 mm, Crosswise: 89 mm, Vertical: 25 mm		
Chin rest working range	55 mm (Electrically operated)		
Energy saving function	Provided		
Interface	ID input: PS/2 (a numerical keypad and a barcode reader)		
	Data output: RS-232C		
Power supply	Input: AC100-230 V 50/60 Hz		
	Power consumption: 80 VA / 100 VA (maximum)		
Dimensions, weight	274(W)×457(D)×458(H) mm, 18 kg / 40 lbs		

- * The specified accuracy applies when the conditions below are satisfied.
- · The device is used under the same environment as it was calibrated.
- · The device is used before calibration due data.
- The internal temperature of the device is stabilized (in approx. 1 hour after turning the power ON).

Accessory Light shade





Functional in bright rooms

Measurements can be made in bright rooms with the use of the light shade.

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Distribution name: KOWA FM-600

Images in the LCD monitor are compositions. Specifications and appearances are subject to change without notice.

(Kowa)

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