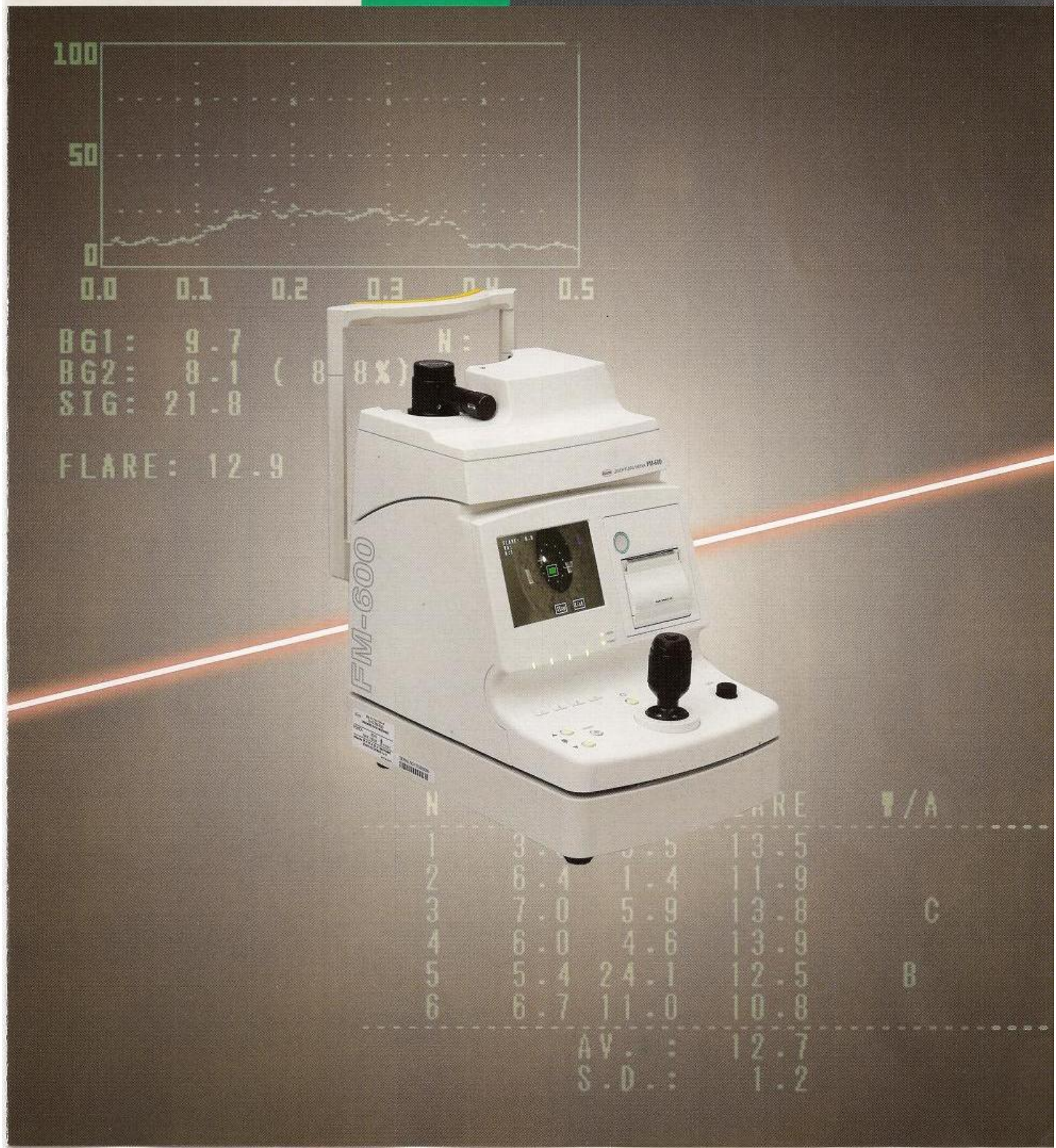
Kowa

Technology for Life Science

Quantitative measurement equipment
for flare in the anterior chamber

Laser Flare Meter

Kowa FM-600

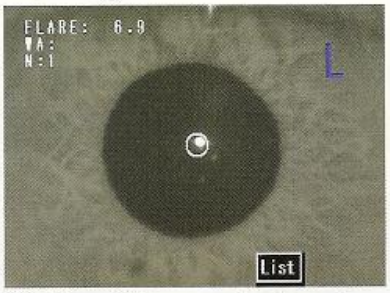


User-friendly, patient-friendly, designed to be the best partner.

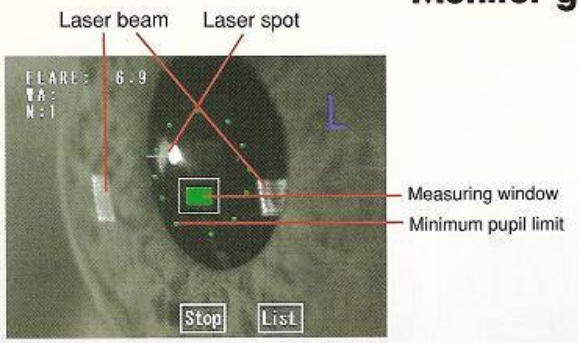
Non-contact, non-invasive, non-pain, in-vivo, all is possible with this one-compact Kowa FM-600 especially elaborated for quantitative measurement of aqueous flare. This measurement is known as beeing useful in follow-up observation of flare for patients with uveitis, after IOL implantation. Designed to operate faster, to conduct easier and better, the Kowa FM-600 reflects what is efficient and accurate compactness.

Monitor guide for easy

Alignments



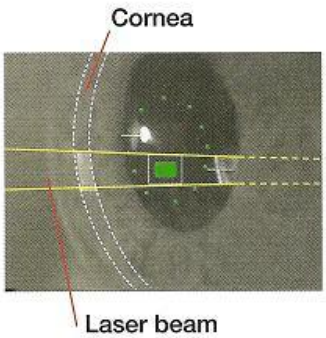
Working distance adjustment



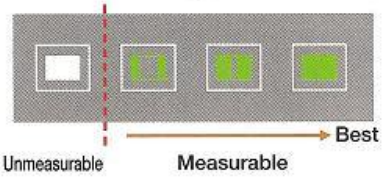
Measuring point adjustment

Position the alignment luminous dot in the center circle while bringing the dot into focus. Then shift to the oblique alignment by pressing on the joystick button. Measurement is possible when the measuring window at the center is green.

Measuring view



Measuring window



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

Electrically operated chin rest

Vertical movements of the chin rest are electrically operated, for smooth adjustments of the patient's eye.

Usable in bright rooms

Measurements can be made in bright rooms with the use of this optional Light Shade.

Compact

All the Kowa's miniaturization technologies were put together to compile all necessary functions a Flare Meter needs in a compact body.

Simple & Speedy

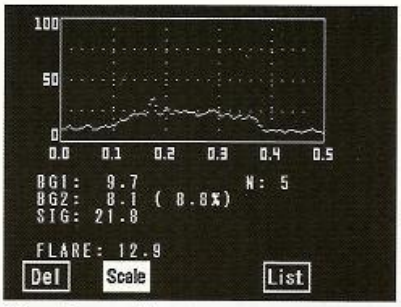
With operations made while facing the patient and all buttons located at hand reach, the Flare Meter has become much easier to use than ever.

Easy Alignments

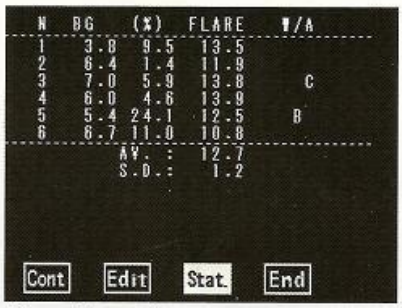
Quick and accurate measurements with facilitated alignments on the measurement area displayed on the monitor.

and quick alignment

Measurement results



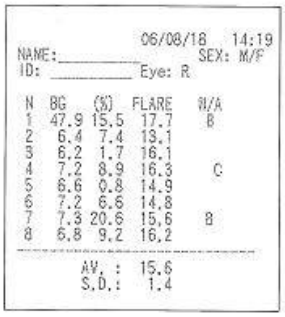
Graph results



Report results

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

Printout



Built-in thermal printer and easy paper change to support quick operations.

Calibration

Pre-installed calibrator on the body for easy calibration.

Measurement Principle

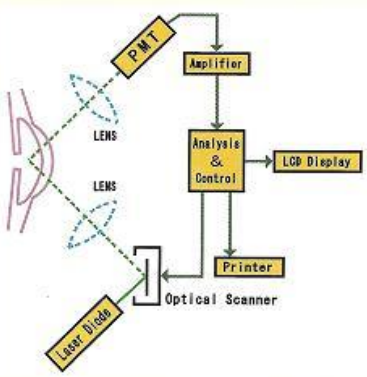
The Kowa FM-600 is based on the measurement principle of laser light scattering detection. The instrument uses a diode laser beam to scan a measurement window that is projected inside the anterior chamber of the eye.

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 photo-multiplier (PMT), which generates an electrical signal.

These signals are immediately digitized to eliminate outside noise interference and are processed by a computer that displays for user analysis.

The unit of measurement employed by the FM-600 is photon counts per millisecond (p/ms).



Technology for Life Science

Laser Flare Meter Kowa FM-600

Specifications

Measuring laser source	Semiconductor Laser Diode: 635nm 35±15 μw
Light sensor element	Photo-multiplier (PMT)
Measuring range	1~500 photon count/ms
Measuring field	Vertical 0.3mm×horizontal 0.5mm
Measuring time	0.5 second
Working distance	81mm (distance of examined eye to front end of objective lens)
Printer	58mm width, thermal line printer
Monitor	5.6 inch color LCD monitor
Movement range	Movable 37mm backward / forward Movable 89mm leftward / rightward Movable 25mm vertically (electric)
Interface	ID input: PS/2※ (compatible with numerical keypad, barcode reader) Data output: RS-232C
Power supply	Input: AC100~230V 50/60Hz Power consumption: 80VA (normal) / 100VA (maximum)
Dimensions / weight	274(W)×457(D)×458(H)mm / 18kg

Option

Light Shade

This product is pending FDA clearance and is not for sale in the United States

CE 0197

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

Distribution name: KOWA FM-600

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