

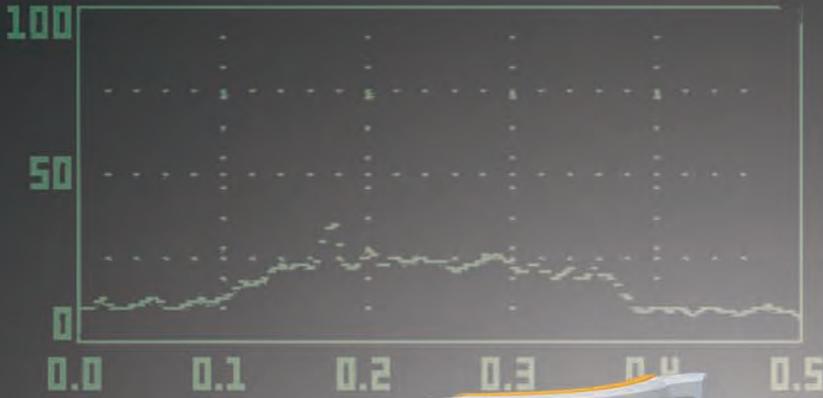


Technology for Life Science

Quantitative measurement equipment  
for flare in the anterior chamber

Laser Flare Meter

# Kowa FM-600



BG1: 9.7  
 BG2: 8.1 ( 8.8%)  
 SIG: 21.8

N:

FLARE: 12.9



N	FLARE	W/A
1	3.5	13.5
2	6.4	11.9
3	7.0	13.8
4	6.0	13.9
5	5.4	12.5
6	6.7	10.8
AV. :		12.7
S.D. :		1.2

# 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 being useful in follow-up observation of flare for patients with uveitis, after IOL implantation.

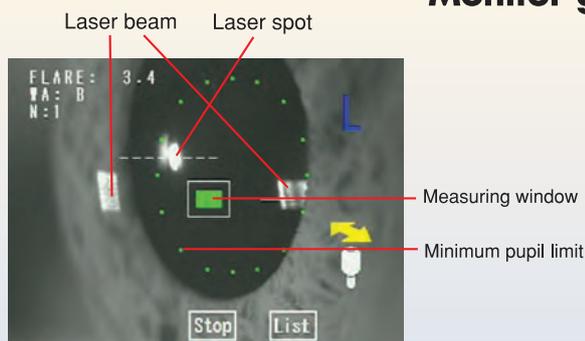
Designed to operate faster, to conduct easier and better, Kowa FM-600 reflects what is efficient and accurate compactness.

## Monitor guide for easy

### Alignments



Working distance adjustment



Measuring point adjustment

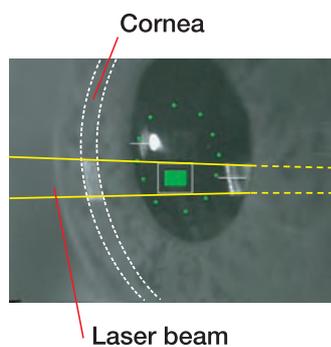
Position the luminous alignment dot in the center circle while bringing the dot into focus. Then shift to the oblique alignment by pressing the joystick button. Measurement is possible when the measuring window at the center is green.

### Electrically operated chin rest

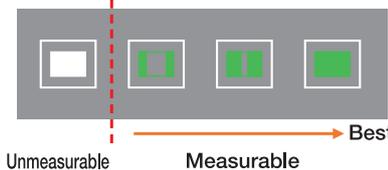


Vertical movements of the chin rest are electrically operated, for smooth adjustments of the patient's eye.

### 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.



### Usable in bright rooms

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



# Compact

# Simple & Speedy

# Easy Alignments

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

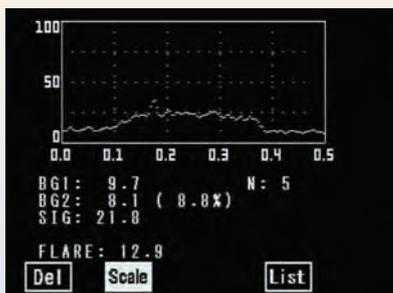
With operations made while facing the patient and all buttons located at hand reach, the Flare Meter has become much easier to use than ever.

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



N	BG	(%)	FLARE	W/A
1	47.9	15.5	17.7	B
2	6.4	7.4	13.1	
3	6.2	1.7	16.1	
4	7.2	8.9	16.3	C
5	6.6	0.8	14.9	
6	7.2	6.6	14.8	
7	7.3	20.6	15.6	B
8	6.8	9.2	16.2	

AV: 15.6  
S.D.: 1.4

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

### Calibration



Pre-installed calibrator on the body for easy calibration.

### Measurement Principle

Kowa 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 photo-multiplier tube (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.

