

IG-320 GLOSSMETER



THE IMPORTANCE OF MEASURING GLOSS

In addition to color, gloss is one of the most important factors in the expression of the surface characteristics of a substrate. In the past, gloss was calibrated visually and it was subject to a wide range of variation. The IG-320 glossmeter measures gloss at an incident and reception angle of 60° and displays the measurement in a numeric format which eliminates human visual error. This helps to guarantee a more uniform product and increases the quality of your production.

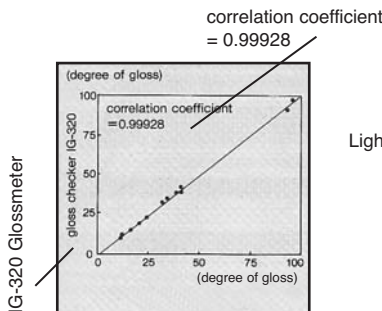
PRECISE MEASUREMENTS

The IG-320 offers high precision measurements with $\pm 5\%$ full scale reproducibility. The combination of the infrared ray pulse system, virtually unaffected by ambient light or colors, and the proprietary measuring system provides a high precision gloss checking system compatible with JIS standards.

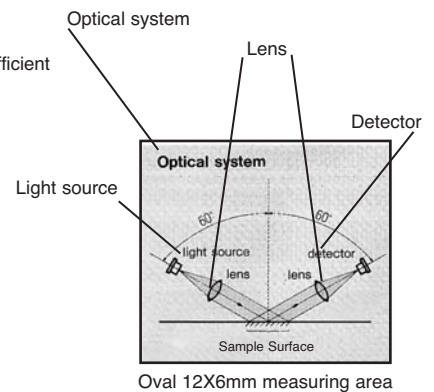
GATHER DATA OR VIEW AVERAGES WITH A SINGLE KEY STROKE

Up to 99 measurements can be taken with a simple key operation and averaged using another key, and up to 99 averages can be stored for later use or reference. Easy data management promises smooth inspection work.

EXAMPLE OF GLOSS MEASUREMENT ON A CERAMIC TILE



GLOSS CHECKER OPTICAL SYSTEM



IG-320 GLOSSMETER

DATA STORAGE AND CALCULATION OF AVERAGES

Because the degree of gloss varies depending on the point at which the surface is measured, it is recommended that measurements be taken at various points to obtain maximum precision. In the past, it was necessary to take the measurements, note the value of each one and calculate the average.

With the IG-320, up to 99 readings can be measured and stored; these calculations are done internally using the memory and calculation functions of the unit. Average values can be calculated and then be stored or displayed with the click of a button. Then the IG-320 is ready to store another 99 readings, and these new values can also be averaged or stored in the next memory space, by pressing the "average" key. You can store or review up to a maximum of 99 averaged values at will. The IG-320 does all the work and allows you to work faster, simpler and with more precision than ever before.

EASE OF USE

This unit does not require any warm-up time. Simply position the reading head over the sample to be measured and the gloss value is immediately displayed.

COMPACT AND PORTABLE

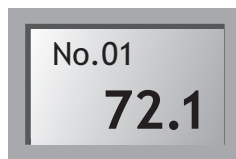
Although this unit is compact and weighs only 14 oz./400g, it is solid and built for use in a production setting. It uses 9V DC batteries which are easy to change and includes an alert that indicates when the batteries need to be replaced. Because it is portable, it can be taken to any of your production sites or wherever precise gloss measurements are required.

ECONOMICAL

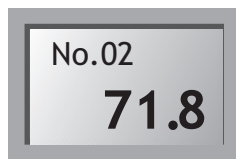
The IG-320 is supplied with a storage case, cleaning cloth and all standard accessories, at an economical price. This is an important quality control tool to be used in your production area, in the laboratory or on visits to customer sites.

DATA STORAGE AND CALCULATION OF AVERAGES

Display of data
Item No. 1

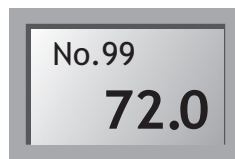


Display of data
Item No. 2

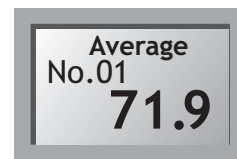


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Display of up to 99
readings



Display of average of
all 99 data items



SPECIFICATIONS

Optical System

60° incident and reception angle

Measurement Area

12x6mm oval

Light Source

LED wavelength 880nm

Detector

SPD (silicone photodiode)

Measurement Range

0-100

Display Range

0-199 (resolution of .1)

Reproducibility

±5% full scale, ±1 digit

Power Source

S-006P dry cell battery (9V DC) for operation
CR-2025 lithium battery (3V DC) for memory

Continued Use Time

15 hours or more

Operating Temperature Range

0-40°C

Additional Functions

- Automatic calibration
- Automatic power cut-off
- Display hold
- Overrange display
- Battery alarm
- Built-in data memory (maximum 99)
- Computation of averages
- Keystroke confirmation tone

Physical Characteristics

Height 7.4"/8.9cm
Width 3.1"/7.8cm
Length 2.3"/5.8cm
Weight 14 oz./400g

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