

Gloss Checker IG-331

HORIBA Gloss Checker provides an easy-to-use and an objective way of inspecting surface luster, eliminating ambiguity of subjective observations.

The Gloss Checker IG-331 provides accurate gloss readings, it is designed for greater ease of operation, helping to maintain clean surfaces and improve quality control inspection in various industrial applications.

The IG-331 offers high efficiency and flexibility utilizing a separate detector and light source that allows to switch between 60 degree measuring angle (for standard gloss measurement) and 20 degree measuring angle (for high-gloss surfaces with gloss values over 70).



CE marking compliant

■ Compact, Lightweight and Easy Operation

Lightweight (only 350 g) and compact, handy to carry for on-site measurements

■ Improved Usability

The remote sensor attached by a flexible cable to the main unit, enables greater work flexibility and versatility in various applications.

■ No Interference with Background Light

The Gloss Checker uses HORIBA's near-infrared pulsed light processing method. The results will not be affected by background light with guarantee stable measurement even when the samples are exposed to sunlight or illumination.

Gloss Checker website →



Used for...



Car wash, waxing, coating



Cleaning and maintenance for buildings



Cleaning solar panels



Appearance check for furnitures



Appearance check for building materials



Checking cleaning performance



Inspection for stone polishing

What is Glossiness?

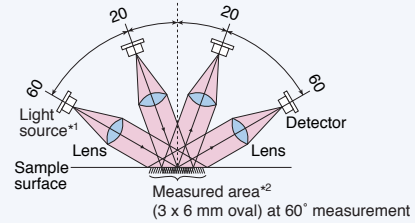
Gloss is a value that express the degree of reflection when light hits a surface. It is determined by comparing the strength of reflected light from the measured area with initial light intensity.

What is Angle for Gloss Measurement?

Generally, high gloss objects are measured with a small tilt angle (close to normal incidence), and low gloss objects with a large tilt (angle close to horizontal). The measurement angles could be 20°, 45°, 60°, 75°, 85° however 60° is the most commonly used since it is suitable for a wide range of gloss value.

What are the Standards for Gloss?

At an incident angle of 60° on a gloss surface with a reflective index of 1.567, 10% reflectance equals a gloss value of 100, and at an incident angle of 20°, about 5% reflectance is 100.



*1 IR LED (HORIBA's original method) is adopted as the light source.

*2 The measuring spot must be flat as gloss is measured by the reflection of light.

Specifications

Optical system	60°measurement: Incident angle 60° Reception angle 60° 20°measurement: Incident angle 20° Reception angle 20°
Measuring area	60°measurement: 3 x 6 mm oval 20°measurement: 3 x 4 mm oval
Light source	LED (wavelength: 890 nm)
Detector	SPD (silicone photodiode)
Measuring range	0-100
Display range	0-199 (resolution: 1)
Repeatability	±5% F.S. ±1 digit
Power supply	A3 dry-cell battery x 4

Continued use time	50 hours or more
Ambient conditions	10 - 40°C
Dimensions	Main unit: 140 (W) x 34 (D) x 75 (H) mm Sensor: 88 (W) x 45 (D) x 30 (H) mm
Mass	Approx. 350 g (with battery)
Additional Functions	Automatic calibration, Automatic power cut-off Display hold, Over range display, Battery life display

Accessory Protective cap (with standard surface for calibration)



The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System ISO45001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



Please read the operation manual before using this product to assure safe and proper handling of the product.

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