

# IG-331 GLOSS CHECKER

## *Extremely precise measurements at an incredibly low price*

Only Horiba®, with their proven record for developing high-performance, innovative glossmeters, could offer the economical IG-331 gloss checker.

By defying conventional wisdom, Horiba has once again led the way to produce a gloss checker that is both incredibly inexpensive and incredibly easy to use. Light, compact and incorporating “one-touch” calibration, it is as simple to use as a pocket calculator and it can be used at 20° in addition to the standard 60° measuring angle. The IG-331 brings gloss measurement one step closer to perfection.

### **What Is Gloss?**

Gloss is a quantity that expresses the degree of reflection when light hits a surface. It is determined by comparing the strength of reflected light from the area being measured with that from the standard surface.

### **What Are the Standards for Gloss?**

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

### **Lightweight, Compact Body with Emphasis on Efficiency**

This compact, lightweight unit is easy to carry, whether near the production line or outdoors. The measurement head and the main body part can be separated, further increasing work efficiency and safety.



### **Easy to Operate**

The IG-331 features “one-touch” calibration with no warm-up period. By just touching the measuring head to the sample, the gloss value is displayed on a real-time basis. No technical skills are needed, so it is very easy to operate.

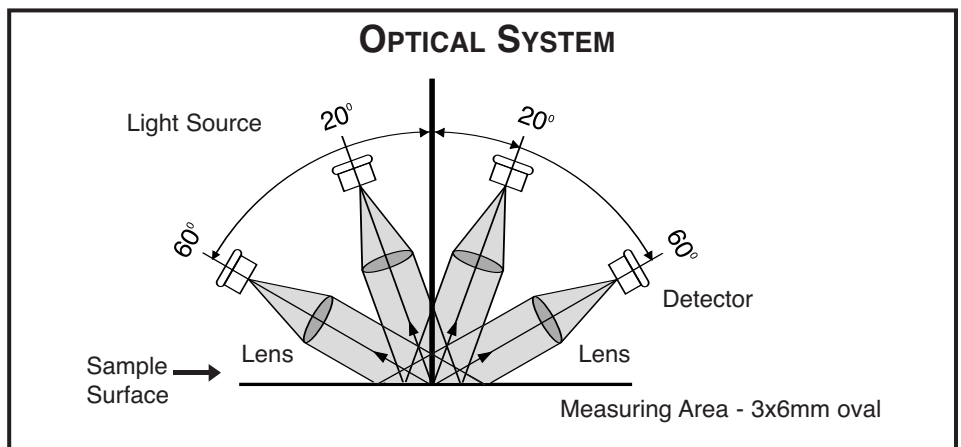
### **Economical**

The incredibly low price was made possible by integrating leading-edge technology and Horiba's unique measurement technology in a broad range of fields, and by simplifying the production system and promoting mass production.

### **Selectable Measuring Angle**

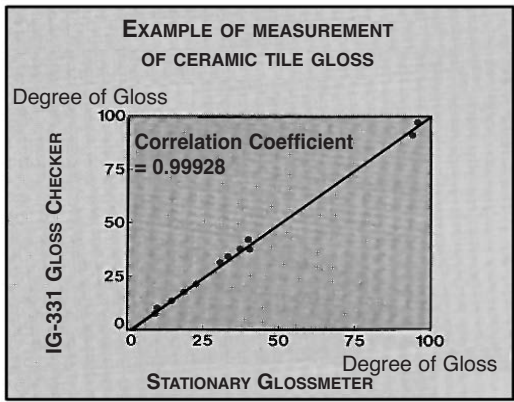
Choose 60° for standard gloss measurements.

For high gloss surfaces with gloss values over 70, simply switch to the 20° measuring angle. This selectable angle feature makes it easy to measure glossy surfaces.





## Ideal for a Variety of Applications



- Quality control of ink and paint
- Checking printed matter and printing substrates
- Checking coated surfaces
- Checking appearance of plastic molding
- Checking appearance of flooring, film, tape, etc.

← This graph shows the results of measuring ceramic tiles, widely used as the standard surface for the medium-gloss range (secondary standard surface) because of the stability of the surface conditions. The IG-331 produces extremely precise values.

### Specifications

**Optical system**  
60° and 20° angles

**Measurement Area**  
For 60°, 3x6mm oval  
For 20°, 3x4mm oval

**Light Source**  
LED (wavelength: 890nm)

**Detector**  
SPD (silicone photodiode)

**Power Source**  
Four non-rechargeable A3 dry-cell batteries

**Measurement Range**  
0-100

**Display Range**  
0-199 (resolution 1)

**Repeatability**  
±5% (whole numbers)

- Functions**
- Automatic calibration
  - Automatic power cut-off
  - Display hold
  - Over-range display
  - Battery life display

**Continual Use Time**  
50 hours or more

**Operating Temperature Range**  
50-104°F/10-40°C

**Dimensions of Main Body**  
Height 1.3"/34mm  
Width 3"/75mm  
Length 5.5"/140mm

**Dimensions of Measuring Head**  
Height 1.8"/45mm  
Width 1.2"/30mm  
Length 3.5"/88mm

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