

HORIBA
Process & Environmental

High Gloss Meter
IG-410



Dual range checker for Gloss and Ultra High Gloss measurement

- **Latest model Gloss Checker now checks Ultra high gloss surface finishes**

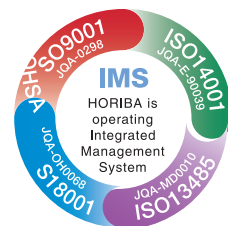
The new IG-410 now measures ultra high gloss surfaces such as polished metal. The meter has ten times greater measurement range than the conventional model. Now even mirror finishes can be measured too.

- **Compact, lightweight and detachable probe design**

Weighing in at only 350g (1.3lbs), this battery operated instrument is designed to be portable. Fast and reliable measurement by simple one-touch operation. LED light sources give <100,000 hours service so there is no need to exchange these parts due to lifetime.

- **Dual range extends measurement resolution in the low gloss range**

The IG-410 has two user-selectable measurement ranges, depending on the sample to be measured. Low gloss samples can be measured using the 0-100 range and high gloss samples can be measured using the 0-1000 range. Two calibration plates are provided to allow the user to follow a simple one-touch calibration procedure to ensure reproducible results.



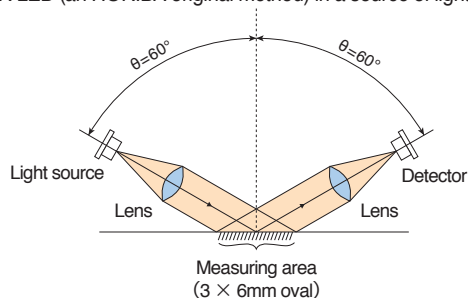
Specification

Measuring system	60°
Measuring area	3×6mm oval
Light source (Service life)	LED<890nm> (Indefinite)
Detector	SPD<890nm> (Silicon photodiode)
Measuring range (resolution)	range1 : 0.0~100.0 (0.1) range2 : 0~1000 (1)
Repeatability	±1% F.S.
Power source (Battery life)	R6(AA) Alkaline × 4 (200 hours or more at continuous operation)
Ambient temperature range	10-40°C
Dimensions	Main body : 75(W)×34(D)×140(H) mm 5.5(W)×3.0(D)×1.3(H) in Optical system : 88(W)×30(D)×45(H) mm 3.5(W)×1.2(D)×1.8(H) in
Mass	Approx. 350g (including battery)
Additional functions	Automatic calibration Automatic power cut-off Overrange display Display hold
Accessories	Standard plate for range 100, 1000

A measurement standard for the gloss value

Gloss value 100 is defined as specular reflectance in incident angle θ of the glass of reflectance index 1.567. With incident angle $\theta = 60^\circ$, specular reflectance is 10%, or gloss value 100. Consequently gloss in specular reflectance 100% is calculated as 1000. Reflectance in many polished metals is 50% or more, some are 90% or more. Then measurement range is expanded up to 1000 in IG-410.

※ I adopt IR LED (an HORIBA original method) in a source of light.



Award of Certification

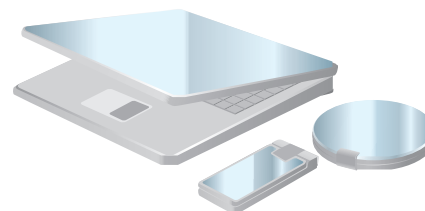
ISO 14001 JQA-E-90039 (Head Office/Factory)
 ISO 9001 JQA-0298



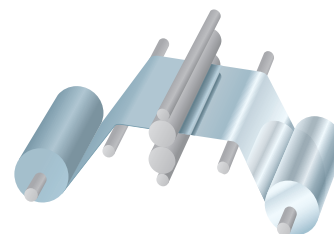
Please read the operation manual before using this product to assure safe and proper handling of the product.

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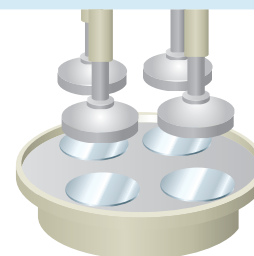
Application



For external confirmation of plating product.



For finish confirmation of rolling metals.



For Research and Development of wafer polishing devices.