

APPEARANCE & GLOSS

VELO-HAZE / DOI / RIQ IQTEK GLOSSMETER



Advanced measurement of gloss, haze and image distinction.

STANDARDS

ISO 2813 · ASTM D523 · ASTM E430 · ISO 13803

The IQTEK is a triangular glossmeter (20/60/85°) that also measures Haze by reflectance, DOI (mirror effect) and reflected image quality (RIQ).

It quantifies surface defects that a standard glossmeter cannot detect, making it ideal for paints, varnishes, the automotive industry and high-quality coatings.

APPLICATION

- **Automotive (OEM and refinishing):** control of gloss, DOI and RIQ on bodywork, bumpers and interior parts.
- **Industrial paints and coatings:** verification of curing, consistency between batches and comparison of formulations.
- **Lacquer and powder coating:** detection of orange peel, rippling and texture defects on profiles and sheet metal.
- **Yacht and aircraft manufacturers:** inspection of high-value finishes where visual quality is critical.
- **Furniture and decorative surfaces:** gloss uniformity between pieces and batches.
- **Plastics and electronics industry:** inspection of finishes on casings, screens and design components.
- **Polished stone and metals:** measurement of haze and gloss on highly reflective surfaces.

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GENERAL INSTRUMENT SPECIFICATIONS

Parameter	Value
Sensor	Linear array of 512 photodiodes—arc 14° to 27°
Battery	Rechargeable lithium-ion battery
Battery life	17+ hours · 20,000+ readings per charge
Memory	8 MB — up to 2,000 readings
Dimensions (W × H × D)	140 × 50 × 65 mm
Weight	390 g
Operating temperature	15–40 °C
Operating humidity	Up to 85%, non-condensing
Connectivity	USB · Bluetooth (BT data widget)
Included software	Novo-Gloss Multi Gauge (PC) · Quick Report app (iOS / Android / Web)
Construction	Solid aluminium — recyclable at the end of its useful life
Warranty	2 years with registration (1 year without registration) · Light source: same lifespan as the instrument

SPECIFICATIONS BY ANGLE AND PARAMETER

Parameter	20°	60°	85°	Haze
Range (GU/log HU)	0–100 / 100–2000	0–10 / 10–100 / 100–1000	0–100 / 100–199	0–500
Repeatability	0.2 GU / 0.2 %	0.1 / 0.2 GU / 0.2 %	0.2 GU / 0.2 %	1 log HU
Reproducibility *	0.5 GU / 0.5 %	0.2 / 0.5 GU / 0.5 %	0.5 GU / 0.5 %	10 log HU
Resolution	0.1	0.1	0.1	0,1
Measuring area	6 × 6,4 mm	6 × 12 mm	4.4 × 44 mm	6 × 6.4 mm
Standards	ISO 2813 · ASTM D523 · ISO 7668 · ASTM D2457 · DIN 67530 · JIS Z 8741	ISO 2813 · ASTM D523 · ISO 7668 · ASTM D2457 · DIN 67530 · JIS Z 8741	ISO 2813 · ASTM D523 · ISO 7668 · ASTM D2457 · DIN 67530 · JIS Z 8741	ISO 2813 · ASTM D523 · ISO 7668 · ASTM D2457 · DIN 67530 · JIS Z 8741 · ASTM E430 · ASTM D4039 · ISO 13803

SELECTION OF MEASUREMENT ANGLE

- **20° — High gloss (≥ 70 GU at 60°):** greater sensitivity for highly reflective surfaces. Detects haze effects that the 60° angle does not detect.
- **60° — Universal angle:** measures all gloss levels. Reference angle in most industrial specifications.
- **85° — Low gloss (< 10 GU a 60°):** grazing angle for matt finishes. The larger measurement area averages out surface irregularities.

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DATA TRANSFER AND SOFTWARE

- **UUSB without additional software:** the device is recognised as a storage drive. Direct export of .csv files.
- **Wireless Bluetooth:** instant transmission of readings to Excel or other applications on a PC or tablet.
- **Novo-Gloss Multi Gauge software (PC):** measurement, import, comparison and export to PDF, Excel or CSV. Included on USB.
- **Rhpoint Quick Report app (iOS / Android / Web):** create customised sample templates, take measurements directly with the device via Bluetooth and generate branded PDF reports.

MODEL

IQTEK — Gloss Meter

Code	Description
NK-IQ206085	IQTEK 20/60/85 – Gloss Meter + Velo-Haze, Mirror Effect-DOI, Reflectance

The supply includes: calibration certificates (instrument + ISO 17025 UKAS-accredited tile), USB cable, high-gloss calibration standard, BT app, Novo-Gloss software, quick start guide, wrist strap.

Optional calibration	Code	Description
✓	SER-609	ENAC-accredited calibration certificate for 3-angle gloss meter