Novo-Gloss IQ Image Quality

Conforms to the following International standards:
AS/NZS 1580.602.2, ASTM C 584, ASTM D 1455, ASTM D 2457, ASTM D 4039, ASTM D 523, ASTM D 5767, DIN 67530, ECCA T2, EN 12373-11, EN 13523-2, ISO 2813, ISO 7668, JIS K 5600-4-7, JIS Z 8741, TAPPI T 653

The Rhopoint Novo Gloss IQ provides the very latest in gloss measurement technology, providing accurate gloss, haze and DOI analysis in a single reading.

Features

- Full colour easy to read screen, adjustable brightness 6 button touch sensitive interface
- Single button push to measure all parameters - gloss, haze, DOI, Rspec, RIQ and Goniophotometric profiles
- Pocket sized instrument with integrated tile holder
- Fully automatic calibration with tile detection and verification for error-free calibration
- Onboard Statistics (max, min, mean, S.D.) and graphs
- Results batching with user definable names
- Rhopoint Data Widget – A windows app that allows results to be instantly transmitted to any PC package such as Excel, Word, SPC programs etc.
- Bluetooth Compatibility – transmit data to any smartphone, tablet or PC/MAC
- USB results download to PC without the need to install software
- ISO 17025 tile calibration certificate, BAM traceable

Easy to read large colour screen with adjustable brightness

Fast and simultaneous measurement of all parameters

On screen graph highlights trends in the measured batch

BAMR (Pty) Ltd, PO Box 23973, Claremont, 7735, South Africa
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Email : sales@bamr.co.za, Web : www.bamr.co.za

Accurate

- Fast and simultaneous measurement of gloss, haze, DOI, Rspec, RIQ as well as Goniophotometric profiles
- Each instrument is supplied with a Calibration Certificate traceable to ISO 17025, UKAS & BAM

Simple

- Bright, easy to read LCD screen displays the gloss value, statistics & graphs - display measurements are user definable
- Each set of readings is time & date stamped

Flexible

- Dual (20/60°) or Triple (20/60/85°) angle versions for maximum accuracy and resolution in all gloss applications
- User definable display measurements
- Bluetooth® or USB download to ElcoMaster™ 2.0 data management software for instant analysis

Durable

- Robust aluminium construction ensures optical stablility
- 17hrs+ continuous operation or 20,000+ readings
- Pocket sized instrument with integrated tile holder

Efficient

- Easy menu-driven user interface in multiple languages
- Clear, illuminated display showing up to five parameters
- On board trend analysis with gloss and image quality (IQ) values

Powerful

- On board memory for 999 readings with full goniophotometric profiles
- Measures up to 20,000 readings on a single charge - fully rechargeable in 2.5 hours

Product Features & Technical Specifications

Easy to use menu structure	English, Spanish, French, Italian, German, Chinese
Bright colour screen; with permanent back light	Adjustable brightness, 6 button touch sensitive interface
User definable measurement display	•
Scratch & solvent resistant display	•
Mains or USB power supply	•
Calibration certificate: ISO, UKAS & BAM traceable	•
Data output : USB or Bluetooth	•
On screen statistics	x, σ, maximum & minimum value
ElcoMaster™ 2.0 software & USB cable	•
Date and time stamp	•
Gauge memory; number of readings	up to 999 readings & curves (8MB)
Repeat measurement mode	user definable: 2, 5 or 10 seconds
Delete last reading	•
Standard & fixed batch sizes	•
Trend, gloss & image graphs	•
Measurement modes	Gloss (GU): 20°, 60°, 85°*; Haze (HU) & Haze Log (HU Log); Distinctiveness of Image (DOI); Peak Reflectance (Rspec); Reflected Image Quality (RIQ) & Goniophotometric Profile

Part Number	**Description**
IQ2060	Rhopoint Novo Gloss IQ - Gloss - Haze - DOI - Goniophotometer - 20 & 60 Degree
IQ206085	Rhopoint Novo Gloss IQ - Gloss - Haze - DOI - Goniophotometer - 20, 60 & 85 Degree
Power Supply	Rechargeable Lithuim Ion gives 17+ hours / 20,000 readings
Recharge Time	USB 4.5 hours, Mains Charger 2.5 hours

	Gloss	**Haze**	**DOI**	**RIQ**	**Area**
Measurement Range	20°: 0-2,000GU	0-2,000GU	0-100 DOI	0-100 RIQ	6 x 6.39mm
and Area	60°: 0-1,000GU				6 x 12mm
	85°: 0-150GU				4.4 x 44mm
Resolution	0.1GU	0.1HU	0.1		0.1GU
Repeatability	0.2GU	0.2HU	0.2		0.2GU
Reproducibility	0.5GU	0.5HU	0.5		0.5GU
Peak Specular Reflectance	-20° ± 0.09375°				
Dimensions (H x W x D)	65 x 140 x 50mm				
Weight	790g				

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Accessories

Part Number	Description
T40823532	ISO 17025 High Gloss Calibration Tile with Calibration Certificate
T40823533	Mirror Gloss Calibration Tile with Calibration Certificate
T99923535	Gloss Tile Cleaning Cloth
T99921325	USB Cable

Gloss & DOI Meter Definitions

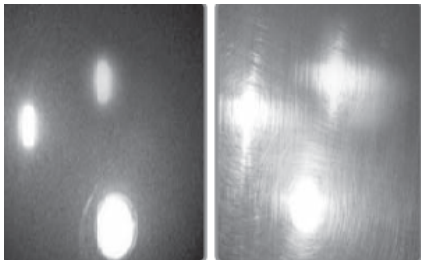
Gloss (GU)

A simple measurement proportional to the amount of light reflected from a surface determining how shiny a surface appears.
Surface texture can reduce appearance quality, without affecting gloss. These two test panels have identical readings when measured with a standard glossmeter.

Haze (HU) & Log Haze (HULog)

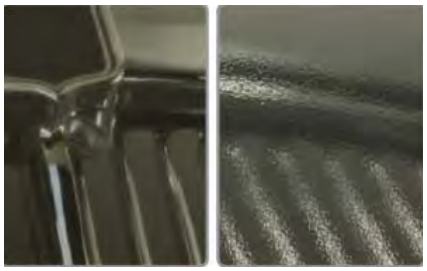
High quality gloss surfaces have a clear, deep, brilliant finish. Haze causes a drop in reflected contrast and causes halos to appear around light sources, these unwanted effects dramatically reduce visual quality.

Undetectable by traditional gloss meters the Rhopoint Novo Gloss IQ measures Haze Units in accordance with ASTM E410 at the same time as simultaneously measuring gloss and DOI.



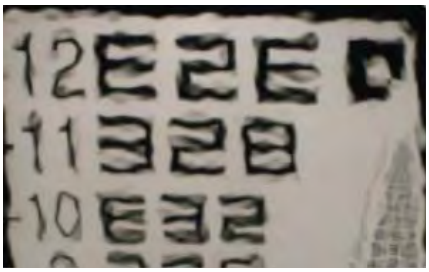
Peak Reflectance (Rspec)

Rspec is the peak reflectance measured over a very narrow angle in the specular direction and is very sensitive to any surface texture, waviness or rippling. When Rspec is equal to the gloss the surface is smooth. Rspec drops as the surface texture increases.



Distinctness of Image (DOI)

Distinctness of Image measures the sharpness of a reflected image in a coating surface. Similar coatings may have identical gloss values but visually the quality may be very different. A visually poor coating may have a highly textured dimpled appearance known as “orange peel”. When a reflected object is viewed in such a coating the image becomes fuzzy and distorted. A surface that has a perfect undisorted images returns a value of 100. As the value decreases the image becomes more distorted.

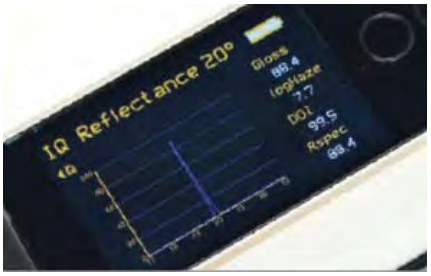


Reflected Image Quality (RIQ)

Reflected Image Quality provides greater sensitivity when evaluating highly reflective coatings and the specular / diffuse element of lower gloss materials. A surface that exhibits a perfect undistorted image returns a value of 100, as the values decrease higher surface texture is present and the image sharpness reduced.

Goniophotometric Profile

The gloss, haze, DOI and Rspec values produced by the Rhopoint Novo Gloss IQ can be used to assess the visual quality of any surface. The full range of goniophotometric curves can be downloaded to a computer for detailed understanding of specular reflectance. The Rhopoint Novo Gloss IQ 8 not only measures gloss but can also be used to quantify the orange peel finish or a substandard coating with a low DOI.



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