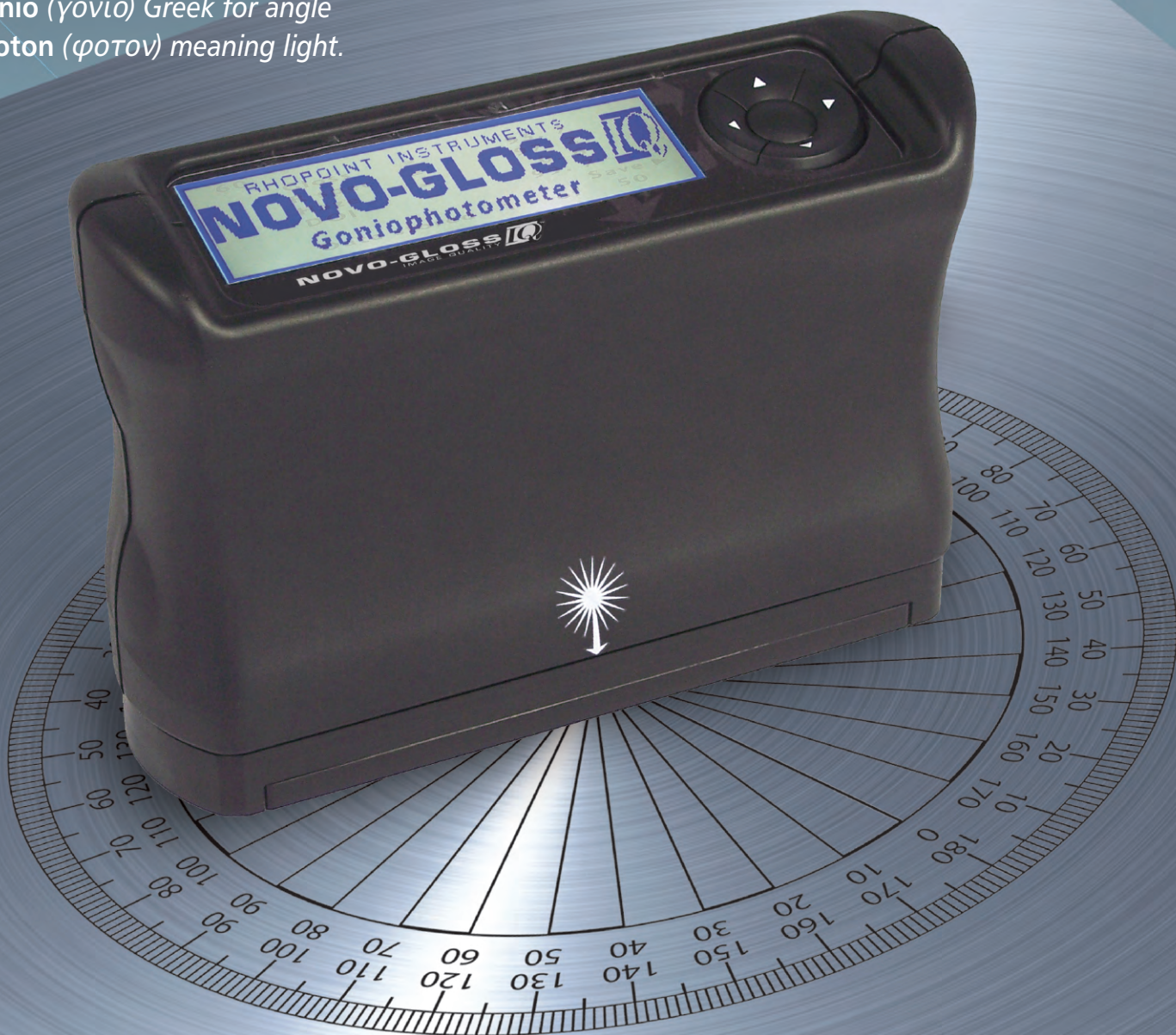


Novo-Gloss I.Q. –Goniophotometer

"the smarter way to measure image quality"

Goniophotometer; derived from
Gonio (γωνία) Greek for angle
Photon (φωτον) meaning light.



NOVO-GLOSS IQTM

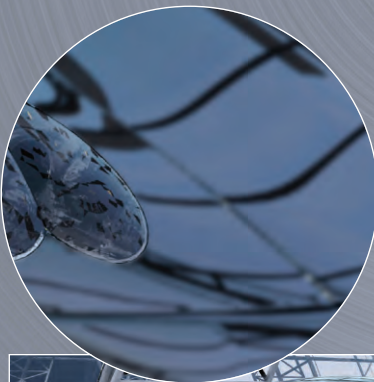
IMAGE QUALITY

★ NOVO-GLOSS IQ MEASURES IMAGE QUALITY

The Novo-Gloss *I.Q.* is the first hand held instrument to profile *how* light is reflected from a surface.

Traditional glossmeters measure quantitatively and are not sensitive to effects that reduce appearance quality.

The Novo-Gloss *I.Q.* uses reflectance profiles to calculate gloss, haze and DOI values allowing the user to fully evaluate surface finish.



Haze is characterised by a milky appearance and loss of reflective contrast.



SIMPLE AND FAST OPERATION

With a single button press the instrument measures gloss, Rspec, DOI and Haze at either 20° or 60°

GLOSS

IQ gloss measurements are fully compatible with existing gloss standards including ISO 2813, ASTM D523.

I.Q. Measurement – Gloss Units (GU) at 60° and 20°

HAZE

Symptoms – High gloss surfaces look milky, flat and have poor reflected contrast.

Causes – Coating incompatibilities, additive migration, polishing or machining marks, weather damage and poor drying/curing.

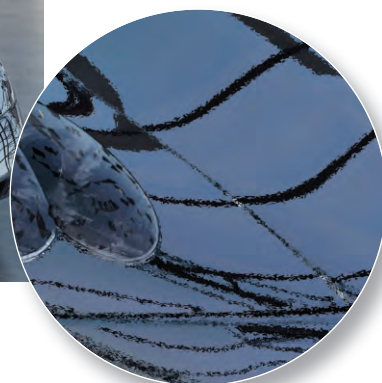
I.Q. Measurement – Haze or Log Haze units (HU or HU_{LOG}) to ASTM E430 standard.

DISTINCTNESS OF IMAGE (DOI)

Symptoms – High frequency textures, surface ripples and 'orange peel' distort the reflected image.

Causes – Application and flow issues, reticulation, substrate related problems and poor formulation.

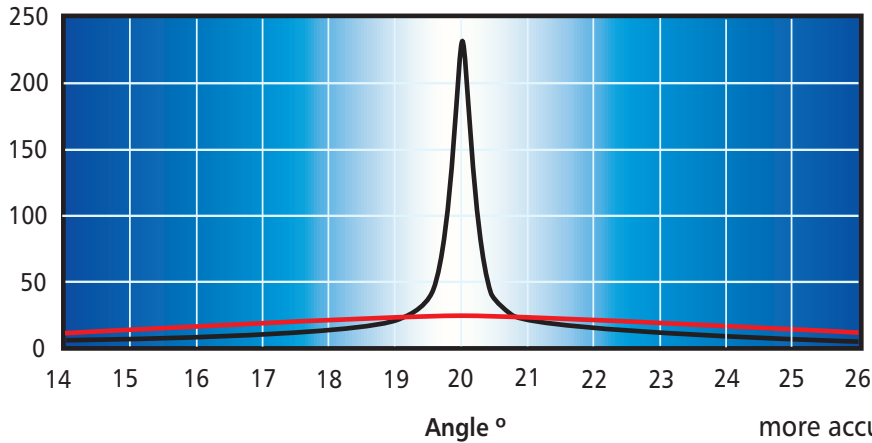
I.Q. Measurement – DOI value (0-100) -a measurement of image forming qualities from ASTM D5767-A.



An 'orange peel' finish results in a low DOI reading.

Diffuse Aluminium Reflector-Goniophotometric Profile

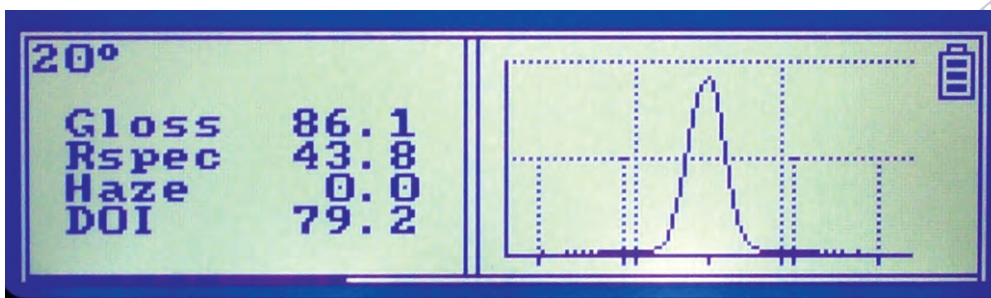
Gloss



	With Grain	Against Grain
Angle	20.0	20.0
Gloss	202.8	608.9
Rspec	33.2	242.4
Haze	206.8	62.5
DOI	63.7	100.0

Bi-Directional results for an diffuse aluminium reflector, exported to MS EXCEL for statistical analysis and graphing.

IQ instrument screen shot showing the results for an automotive finish with high orange peel. Note the low DOI reading.



The instrument has built in statistical analysis. Results and full Gonio-curves can also be downloaded to PC for further analysis.

GONIOPHOTOMETRIC PROFILE

Results can be downloaded via USB for graphical and statistical analysis.

IQ Measurement-A detailed profile of reflected light distribution $\pm 6^\circ$ from specular.

ANGLE AND POSITION COMPENSATION

The instrument includes automatic compensation for poor sample and measurement positioning. This makes the IQ more accurate than conventional glossmeters when measuring curved and uneven surfaces

INDUSTRIES AND APPLICATIONS

The Novo-Gloss IQ is ideal in the metal finishing and automotive industries. It can also be used for any painted, powder coated or polished metal product where a high quality homogeneous finish is required.

COMPLEMENTARY PRODUCTS

Rhpoint have been manufacturing appearance test instruments for over 20 years.

Visit www.rhpointinstruments.com for details of gloss instrument for all industries and applications including curved surfaces.

GLOSS SPECIFICATION

DUAL ANGLE OPERATION

20° High Gloss Surfaces such as Automotive, polished metals and plastics

60° Universal Angle – All gloss finishes

- Resolution 0.1GU
- Repeatability 0.2GU
- Reproduceability 0.5GU

Standards

Verified to ASTM D523, ISO 2813 ASTM D2457, DIN 67530, JIS 8741

HAZE SPECIFICATION

DUAL ANGLE OPERATION

Measures Haze and R_{SPEC} at 20 and 60 Degrees

- Resolution 0.1 HU
- Repeatability 0.1 HU
- Reproduceability 0.2 HU

Peak Specular Reflectance

- Resolution 0.1 %
- Repeatability 0.2 %
- Reproduceability 0.5%

Standards

ASTM E430

DOI SPECIFICATION

DUAL ANGLE OPERATION

Measures DOI at 20 and 60 Degrees

- Resolution 0.1 %
- Repeatability 0.2 %
- Reproduceability 0.2 %

Standards

ASTM D5767



GONIOPHOTOMETRIC ANALYSIS

DUAL ANGLE OPERATION

- 20° Range 14-26°
- 60° Range 54-66°
- Angular Resolution – 0.05°
- Resolution 0.1%
- Repeatability 0.2 %
- Reproduceability 0.5%

ACCESSORIES

Integrated BAM traceable calibration standard.

Additional BAM traceable mirror finish standard.

Manual

Protective instrument case

4 x AA high power batteries

USB Data Cable

Screwdriver.

EXTRAS

UKAS Calibration

CONFORMITY

International standards:

BS EN ISO 2813

ASTM D523

ASTM D2457

ASTM D5767

DIN 67530

JIS 8741



Certificate no: FM 29741
BS EN ISO 9001: 2000

