

Измерители блеска Rhopoint IQ FLEX 20-S Технические характеристики

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Rhopoint FLEX 20-S - Remote Head Glossmeter

Solutions for maximum accuracy and resolution in difficult gloss applications.



Introduction

The Rhopoint IQ FLEX 20-S units are the ultimate glossmeters for small parts

Like the normal Rhopoint IQ, the FLEX 20-S units measure image quality and profiles how light is reflected from a surface. Standard Glossmeters only measure how much light is reflected and are not sensitive to effects which dramatically reduce appearance quality.

The Rhopoint IQ FLEX 20-S brings this technology to a new format specifically designed for difficult surfaces or small parts, the small footprint of the IQ FLEX 20-S sensor makes it much more effective on curved surfaces and difficult to reach areas than a conventional glossmeter.

IQ FLEX measurements are fully compatible with existing Rhopoint IQ gloss and appearance results.

For improved performance and repeatability on even the smallest parts, the Rhopoint IQ FLEX 20-S can be customised with magnetically attached adaptor plates.

Using 3D printing technology it is possible to create custom measuring jigs from the CAD diagrams of your components, these adaptors can be easily interchanged for different applications:

- Reduced measurement spot sizes (4 & 2mm) for small parts and curved surfaces
- Repeatable control of small parts, buttons and controls
- Non-contact plates for in-line applications

For delicate surfaces, adaptors can be specified with rubber, felt or plastic.

Features

Advanced features – for FAST easy measurement

- Small measurement heads for small or curved parts
- Full colour easy to read screen with auto rotation
- Onboard Statistics and Graphs
- USB results download to PC without the need to install software
- Batch description with user definable names
- Bluetooth compatible
- Single button press to measure all parameters
- Fast measurement, <2 secs.
- Fast and simultaneous measurement of all parameters

The Rhopoint IQ FLEX measures

Gloss • Haze • Distinctness of image • Rspec • Goniophotometric curves

GLOSS

A measurement proportional to the amount of light reflected specularly from a surface.

Measurement Unit: GU

PEAK GLOSS VALUE (RSPEC)

The peak gloss value over a very narrow angle.

Measurement Unit: GU

REFLECTANCE HAZE

Milky reflection effect caused by microscopic textures or residue on a surface.

Measurement Unit: LogHU

DISTINCTNESS OF IMAGE

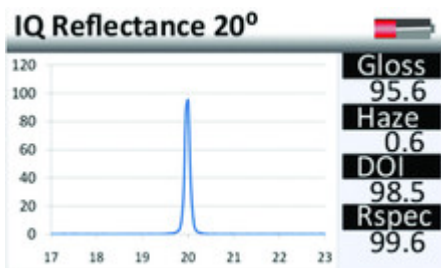
A measure of how clearly a reflected image will appear in a reflective surface.

Measurement Scale: 0-100, 100 is a perfect smooth surface.

GONIOPHOTOMETRIC PROFILE

The instrument displays surface reflectance profiles 17-23°. The shape of the curve describes how the light has interacted with the surface.

Sharp curves close to the specular direction indicate smooth highly reflective surfaces.



An on screen goniophotometric profile shows the distribution of the reflected light



On screen graphs highlight trends in the measured batch

Different textures and distortions produce identifiably shaped profiles depending on their size and frequency. Full goniophotometric information can be downloaded to PC for further analysis and comparison, without the need for interface software.

Specifications

MEASUREMENT AREA

FLEX 20°: 6mm x 6mm

GLOSS MEASUREMENT SPECIFICATION

Resolution 0.1 GU • Repeatability +/- 0.2 GHU • Reproducibility +/- 0.5 GU

RSPEC

Peak Specular Reflectance measured at 20° +/- 0.09905°

HAZE MEASUREMENT SPECIFICATION

Near Specular Reflectance measured at 17.2-19°, 21-22.8°

Switchable between Haze Units (HU) and Log Haze Units (LogHU)

Resolution 0.1 HU • Repeatability +/- 0.5 HU • Reproducibility +/- 1.5 HU

STANDARDS ASTM E430, ISO 13803

DOI MEASUREMENT SPECIFICATION

Resolution 0.1 • Repeatability +/- 0.2 • Reproducibility +/- 0.5

STANDARD, ASTM D5767

GONIOPHOTOMETRIC SPECIFICATION

Measurement range 14-26°

Angular Resolution 0.025°

Resolution 0.1 GU

INSTRUMENT SPECIFICATIONS

Auto Rotating Colour Screen	High resolution illuminated color display Brightness adjustable 6 button touch sensitive interface
Construction	All aluminium construction – enclosure, optics, standard holder
Statistical Analysis	Max, Min, Mean, S.D. All measured Parameters
Graphical Analysis	On board trend analysis Gloss and IQ Values
Power	Rechargeable Lithium Ion
Operate from	Internal Battery/USB/Mains Charger
Recharge Time	Mains Charger 4 hrs
Memory	8 MB– >999 Readings User definable batching
Data Transfer	Bluetooth PC & MAC compatible USB Connection No software install required
Dimensions & Weight	150mm x 79mm x 34mm (without head) (H x W x D) 550g Packed weight approx: 1.5kg Commodity code: 9027 5000

INCLUDED ACCESSORIES

Instrument with Flex head 20°	Calibration tile with holder USB data cable Mini CD Instruction manual Bluetooth data app Example Excel spreadsheets Instructional videos
Optional Extras	Reduced spot size adaptor plate: 2 or 4mm Bespoke 3D adaptor jigs, designed and printed to suit customer application In-line fixing kit

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