



RHOPOINT

INSTRUMENTS



www.rhopointinstruments.com

Test instruments for surface quality

RHOPOINT INSTRUMENTS

Optimap™ PSD



complete
surface
analysis

Optimap™ PSD – A revolution in appearance measurement.

The Rhopoint Optimap™ PSD is a revolutionary new hand held portable instrument employing state of the art measuring technology that provides a truly visually representative and quantitative analysis of a surface. By using a new approach, a technique known as Phase Stepped Deflectometry (PSD), fast objective measurements can be achieved over large areas requiring no surface contact. PSD, a white light optical technique, uses a periodic pattern with a sinusoidal waveform across an object in order to measure its profile. This waveform is presented to the object's surface using a high resolution display and the reflected

pattern captured by a high resolution camera. The large aperture at the base of the instrument allows full field measurement by simply placing the unit on top of the surface and, with a single press of a button, the measurement process is completed in a matter of seconds.

The instrument then uses its powerful on board processing to produce texture maps displaying the results graphically on the integrated high resolution screen. Consisting of an integrated Windows™ based measuring system, the Optimap™ offers a versatile and flexible system for complete surface analysis.

Reflected image quality measurement



RHOPOINT 

multi-angle gloss,
haze, distinctness
of image meter

Using patented technology, the Rhopoint IQ provides a unique solution for the measurement of haze and orange peel that, although visible to the naked eye, are not detected by a standard glossmeter.

By measuring the quality of the reflected image it is the only hand held instrument that truly profiles how light is reflected from a surface. In one quick and easy

operation the IQ not only measures gloss at three angles but also measures haze, DOI (distinctness of image) and RSPEC (specular reflectance) providing a detailed analysis of the image forming quality of the surface.

Sample applications for the Rhopoint IQ



Paints & coatings



Yacht manufacturers



Metal polishers



Polished stone



Smart phone, tablet PC
and laptop covers



Wood coatings



Automotive



Printing ink



Automotive re-finish

Characterise surface quality of small areas



RHOPOINT 

20° gloss, haze
& distinctness
of image meter

The Rhopoint IQ *FLEX 20* brings gloss, haze and distinctness of image measurement to a new format specifically designed for small areas and curved surfaces that cannot be accurately measured with traditional glossmeters.

The Rhopoint IQ *FLEX 20* can be customised with magnetically attached adaptor plates.

These can be easily interchanged for different applications and provide reduced measurement areas as low as 2mm.

To increase the repeatability of curved surface measurement, alternative adaptor plates can be designed for specific samples.

Sample applications for the Rhopoint IQ *Flex 20*



Paints & coatings



Yacht manufacturers



Metal polishers



Curved surfaces



Tablet PC



Automotive Interior



Automotive



Mobile phones



Automotive re-finish



Automotive coatings



Plastics industry

Accuracy in all gloss applications



RHOPOINT
NOVO-GLOSS™

single, dual and
trigloss
glossmeters

Single, dual and trigloss glossmeters are high specification hand held instruments for measuring gloss.

Gloss is an aspect of the visual perception of objects that is as important as colour when considering the psychological impact of products on a consumer. Maintaining consistent gloss levels on every product or across different batches

of product is vital for manufacturers seeking maximum appeal of their finished goods.

The advanced features of the instrument include user definable batches for more efficient measurement of multiple samples, direct data input via bluetooth into Microsoft Excel and pass/fail for easy identification of non-conformances.

Sample applications for the Novo-Gloss range



Paints & coatings



Yacht manufacturers



Metal polishers



Polished stone



Powder coating



Furniture



Smart phone, tablet
PC and laptop covers



Wood coatings



Automotive



Printing ink



Plastics industry



Automotive re-finish



Automotive coatings

Shade & opacity measurement



NOVO-SHADE DUO™

dual function
and versatile

The Novo-Shade Duo™ is a versatile solution for reflectometry measurement. Its standard configured geometry of 45°/0° allows objective measurements of the shade or opacity of a surface. In shade mode, applications include the measurement of colour fading in textiles and plastics, shade of paints, inks and coatings, chalking of paint, efficiency of detergents and bleaching agents, whiteness of recycled paper and the

cleanliness and oxidisation of metal surfaces. Whilst in opacity mode, applications include the measurement of the hiding power of paints, inks and coatings, transparency of plastic films and opacity of paper.

Its in-built automatic calibration ensures accurate measurements are guaranteed every time the instrument is used.

Sample applications for the Novo-Shade Duo™, opacity and shade



Hiding power of paints, inks and coatings



Transparency of plastic film



Opacity of paper



Shade of paints, inks and coatings



Fading of textiles and plastics



Chalking of paint



Efficiency of detergents and bleaching agents



Whiteness of recycled paper



Cleanliness and oxidisation on metal surfaces

Curved surface gloss measurement



NOVO-CURVE™

60° bench glossmeter

The Novo-Curve™ is a unique bench top instrument designed for the gloss measurement of curved surfaces and small areas that are difficult to measure with standard glossmeters. The large sample platform allows hands free measurement by simply placing the item over the measuring aperture. Four

adjustable jiggling posts are also available to provide consistency in sample positioning. Statistical data is stored internally in the instrument memory and can be either viewed on screen or by downloading to PC using the Novo-Soft software supplied.

Sample applications for the Novo-Curve™



Plastic parts



Automotive



Furniture



Ceramics



All paints & coatings



Coins



Banknotes



Dental research



Electroplating

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