

SKINGLOSSMETER

ACCURATE MEASUREMENTS
OF SKIN SHINE

PRODUCT BENEFITS

- ♦ Sensitive, accurate and reliable skin gloss measurements
- ♦ Use on skin, lips, nails and other non-planar surfaces
- ♦ Fully portable with rechargeable battery
- ♦ Wireless connection to PC
- ♦ Extremely practical to use
- ♦ Fast and convenient measurements
- ♦ Measures specularly reflecting light
- ♦ Built-in 635nm laser light source - no separate desktop unit needed
- ♦ Direct surface contact



APPLICATION AREAS

- ♦ Product and formulation research and development in personal care and chemical industries
- ♦ Claims substantiation
- ♦ Skin research studies
- ♦ Assessment of skin types
- ♦ Evaluation of skin care and treatments
- ♦ Marketing and promotion of skin care products
- ♦ Efficacy testing

SKIN GLOSS

Skin gloss measurements are performed in the research and development of personal care products and related claims substantiation work. Gloss is defined as the specular reflection of light from a surface and therefore the SkinGlossMeter is designed to measure this and not scattered light. The SkinGlossMeter is the ideal tool for reliable gloss measurements in a wide range of applications.

SKINGLOSSMETER INSTRUMENTATION AND MEASUREMENT PRINCIPLE

The SkinGlossMeter measures the specularly reflecting light from skin and other surfaces. This is used to determine the gloss or shine values of the surface. In the SkinGlossMeter the light beam reflects back at the same angle as it contacted the measured surface.

The SkinGlossMeter has an excellent correlation with industrial standard Gloss Units (GU) based on international ISO, ASTM and DIN standards. The displayed Skin Gloss Units (SGU) derive directly from the industrial gloss standard and are actual scaled up units of the values that skin yields.

As a light source the instrument has a built-in 635 nm red semiconductor diode laser. The laser's spot diameter is 50 µm. The use of red light is ideal as it has superior reflective capabilities from the skin.

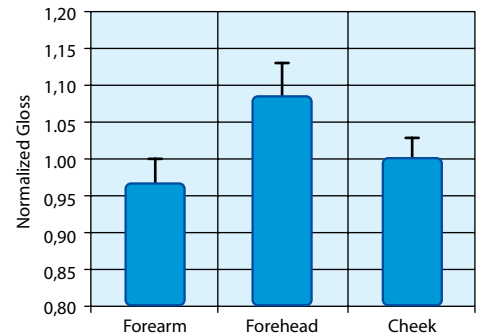
The gloss values are measured with a photodetector and the total intensity of the reflected beam is calculated. The power of the laser is optimized for accurate measurements and is less than 1mW to ensure that the SkinGlossMeter is a safe instrument to use. The safety rating of the laser is Class 1M as specified by the IEC 60825-1 standard.

The SkinGlossMeter is fully portable and has a built-in rechargeable battery. This offers great freedom of movement and the possibility of measuring difficult body areas. The SkinGlossMeter may be used either as a stand-alone device or measurement data may be collected wirelessly to the DelfWin software.

The DelfWin software allows users to set up individual projects, store and view measurement data and plot the results or export them to other programs for editing.



DIFFERENCES IN GLOSS LEVELS ON HEALTHY SKIN SITES



DELFIN INSTRUMENTS ARE USED
WORLDWIDE IN 40 COUNTRIES
ON 6 CONTINENTS

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