

RGB Color Analyzer



Description:

The model H500 is a color analyzer that measures the amount of Red, Green, and Blue (RGB) color present in a material. The H500 also measures the hue, saturation, and luminance levels of items such as paints, plastics, fabrics or almost any article for its RGB.

Features:

- Portability for making measurements on the production floor or in the field.
- Microprocessor technology for a spectral analysis method that allows for excellent measurement repeatability.
- Circular illumination of 45°/0° for 45° measurement according to DIN 5033.
- Battery operated and light in weight
- Ergonomic pistol grip probe
- Simple pushbutton front panel control
- Large, easy-to-read digital display
- Measure RGB color levels from 0 up to 1023
- Determine Hue, Saturation and Luminance levels from 0 to 1.000
- Easy to use relative (REL) feature allows the comparison of two color samples
- Two-year warranty



WARRANTY



Applications:

- Check color levels of plastics, textiles, paper, paints, and leathers
- Perform quality control in production and manufacturing
- Comparison of color samples against color standards
- Verify colors being received in Quality Management systems according to DIN EN ISO 9000
- Check reference color values of CRT's, LCD monitors and light lamps
- Determine absolute color values (the color position) or measure relative comparatives
- Measure non-luminous surfaces for an absolute value
- Measure luminous surfaces for relative values when testing between surfaces



Includes:

- H500 meter
- RGB probe
- Instructional manual
- Hard carrying case
- 9V battery

Specifications:

Display LCD size	2.3 x 1.3" (59 x 34mm)
Measuring Geometry	45°/0° - Circular illumination at 45°, measurement at 0°
Spectral Range	400nm to 700nm
Light Source	Two white LEDs
Measuring Principle for non light emitting sample measurements such as textiles or paper	A defined light source illuminates the sample and reflected surface light is spectrometrically analyzed.
Measuring Principle for light emitting sample measurements such as CRT or LCD	The light source from the sample is spectrometrically analyzed directly.
Color Sensors	Three color photo transistors. One for all three Red, Green & Blue colors.
RGB Value	R (Red) value : 0 to 1023 B (Blue) value: 0 to 1023 G (Green) value: 0 to 1023
HSL Value	H (Hue) value: 0 to 1.000 S (Saturation) value: 0 to 1.000 L (Luminance) value: 0 to 1.000
Dimensions	Main instrument: 8 x 3 x 1.5" (203 x 76 x 38mm) Sensor probe: 6.3 x 3.6 x 1.8" (160 x 92 x 45mm)
Weight	1.05 lb (478g)
Technical data subject to change without notice.	

This instrument conforms to:

- **EN61326:** Electrical equipment for measurement, control and laboratory use.
- **IEC61000-4-2:** Electrostatic discharge immunity test.
- **IEC61000-4-3:** Radiated, radio-frequency, electromagnetic field immunity test.
- **IEC61000-4-8:** Power frequency magnetic field immunity test.