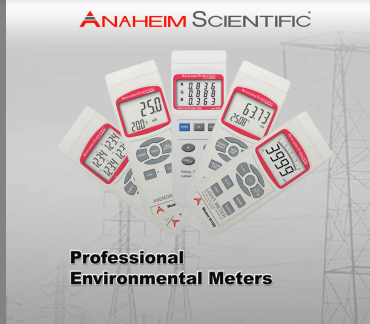


RGB Color Analyzer



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.

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