COLOR ANALYZER

Model: RGB-1002 *ISO-9001, CE, IEC1010*



FEATURES

- * Measuring sample : no lighting sample (textiles, paper, leathers...).
- * Measurement value : RGB value, HSL value (Hue/Saturation/Luminance).
- * 45° /0° color measuring geometry.
- Used the spectral analysis method to determine the color of the sample
- * Complete set included the color probe and the meter, display the measurement value from
- * LCD display, show RGB or HSL value at same time.
- * Power: 006P DC 9V battery.
- * Meter size : 203 x 76 x 38 mm.







The Art of Measurement

COLOR ANALYZER

Model: RGB-1002

1. FEATURES

*The RGB-1002 is a portable color analyzer equipped
with an external sensor probe having a 45° /0° color
measuring geometry. The modem, accurate
microprocessor technology uses the spectral analysis
method to determine the color of the sample.
Excellent repeatability due to spectroscopic analysis
technique used.
* Friendly operation, just press the operation button will
get the color value (R, G, B or H, S, L).
* Relative function, can easy to compare the color value
of the different two measurement material.
* The RGB-1002 is designed mainly for measuring the
color of no lighting sample such as textiles, paper,
leathers, painting materials It is the useful tool for
the quality control and the wide industrial application.
* The color analyzer also can measure the reference
lighting sample color value such as CRT, LCD monitor,
LED lamp, lighting lamp
* For no lighting sample color measurement, a defined
light source illuminates the sample and the reflected
surface light is spectrometrically analyzed.
* For lighting sample color measurement, the light
source of sample is spectrometrically analyzed directly.
* RS232 computer interface, can store the measuring
color value in the computer for recording and the
further color analysis.
* Build in CAL (Calibration) button, for no lighting
sample measurement, use the included white color
calibration card to make the self calibration easily.
* Hand held housing case, easy to carryout.
* Power supply by 006P DC 9V battery or DC 9V adapter.

2. APPLICATION

*To check the color value of textiles, paper, leathers,
painting materials.
*The objective quality control of color during
production.
*The color measurement and recording of products
supplied by supplier to check for conformity
specification.
*The comparison of color samples against color
standard.
*The interpretation and statistic evaluation of color
sample measurement.
*To check the reference color value of CRT monitor,
LCD monitor, light lamp.

3. SPECIFICATIONS

Display	LCD size: 59 mm x 34 mm.			
Measuring	45° /0° - circular illumination at 45°,			
geometry	measurement at 0°.			
Spectral range	400 nm to 700 nm.			
Light source	Two white LED lamp.			
Measuring	For no lighting sample color			
principle	measurement such as textiles, paper,			
	leathers, painting materials, a			
	defined light source illuminates the			
	sample and the reflected surface light is			
	spectrometrically analyzed.			
	* For lighting sample color measurement,			
	the light source of sample is			
	spectrometrically analyzed directly.			
Color	3 color photo transistors :			
sensors	Red photo transistor			
	Green photo transistor			
	Blue photo transistor			
Calibration	Self calibration.			
	* The calibration white calibration card			
	is included.			

Measurement	RGB value			
	R (Red) value : 0 to 1023.			
	G (Green) value : 0 to 1023.			
	B (Blue) value : 0 to 1023.			
	HSL value : 0 to 1	000		
	Hue value: 0 to 1.000.			
	Saturation value: 0 to 1.000. Luminance value: 0 to 1.000.			
Repeatability	R (Red) value	< 3		
переашынсу	G (Green) value	< 3		
	B (Blue) value	< 3		
	Hue value	< 0.01		
	Saturation value	< 0.01		
	Luminance value	< 0.01		
	* Repeatability is specified under the			
	same sample tested 10 times within			
	two minutes.			
	* Accuracy is specified under after the			
	instrument is calibrated.			
Measurement	Type 1 : No lighting sample material :			
sample 	Such as textiles, paper, leathers			
material	Type 2 : Lighting sample material :			
type	Such as CRT, LCD monitor,			
	LED lamp, lighting lamp			
	* The RGB-1002 is designed mainly for			
	measuring the color value of type 1 (no lighting sample). For the type 2 (lighting			
	sample) color measurement just for the reference only.			
Buttons	OP button (Operation	on button)		
	CAL button (Calibration button)			
	REL button (Relative button)			
	RGB/HSL button (Select RGB or HSL value)			
	Light ON/OFF button			
	* No lighting sample measurement,			
	select the sensor light to on.			
	* Lighting sample m	•		
	select the sensor light to off.			
Power off	Auto shut off saves battery life or			
	manual off by push button.			
	* Power will off automatically after 3 min., if no buttons be pressed.			
Low bottom	Low battery indicator			
Low battery Computer	RS 232 PC serial inte			
interface	KS 232 FC Serial little	irace.		
Operating	0 ℃ to 50 ℃ (32 ℉	' to 122 °F \		
Temperature	0 0 00 50 0 (52 1	to 122 r j.		
Operating	Less than 80% RH.			
Humidity	2000 01011 00 70 1011			
Power Supply	DC 9V battery, Alkali	ne type		
,		6P, MN1604(PP3) or equivalent.		
	DC 9V adapter input			
	@ AC/DC power add	apter is optional.		
Power Current	Standby: Approx. D	OC 6.3 mA.		
	Measurement : Appr	ox. DC 32 mA. (2 SEC.)		
Weight	478 g/ 1.05 LB.			
	* Main instrument a	and the sensor probe		
Dimension	Main instrument : 203 x 76 x 38 mm			
	Sensor probe: 160x	x92x45 mm		
Accessories		1 PC.		
Included	Sensor probe (RGB-1002P) 1 PC.			
	White color calibration card 1 PC. Carrying case, CA-06			
Optional	* AC to DC 9V adapt			
Accessories				
ا الددعة الدع	* RS232 cable, UPCB-02. * USB cable, USB-01.			
	* Data Acquisition software,			
	SW-U801-WIN.	orevvare,		
	3 5551 112			

^{*} Appearance and specifications listed in this brochure are subject to change without notice.