### R, G, B, Hue, Saturation, Luminance

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ISO-9001, CE, IEC1010

# Model : RGB-1002



Paiting , Textiles , Paper Latheer , LCD , CRT , LED

## **FEATURES**

**COLOR ANALYZER** 

- 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

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RGB/HSL value, no lighting material color analysis

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

3. SPECIFICA		L	
Display	LCD size : 59 mm x 34 mm.	H	
Measuring < 🔨	$45^{\circ}$ /0° - circular illumination at $45^{\circ}$ ,	Ρ	
geometry	measurement at 0°.		
Spectral range	400 nm to 700 nm.		
Light source	Two white LED lamp.		
Measuring	For no lighting sample color	Ρ	
principle	measurement such as textiles, paper,		
	leathers, painting materials, a	V	
	defined light source illuminates the		
	sample and the reflected surface light is	D	
	spectrometrically analyzed.		
	* For lighting sample color measurement,	А	
	the light source of sample is	h	
	spectrometrically analyzed directly.		
Color	3 color photo transistors :		
sensors	Red photo transistor	С	
	Green photo transistor	A	
	Blue photo transistor	J.	
Calibration	Self calibration.	1	
	* The calibration white calibration card		
	is included.		

Measurement	RGB value			
	R (Red) value :	0 to 1023.		
	G (Green) value			
	B (Blue) value			
	HSL value	0 10 1023.		
		1 000		
	Hue value : 0 to 1.000.			
	Saturation value : 0 to 1.000.			
	Luminance value			
Repeatability	R (Red) value	< 3		
	G (Green) value	< 3		
	B (Blue) value	< 3		
	Hue value	< 0.01		
	Saturation value	< 0.01		
	Luminance value	< 0.01		
		pecified under the		
	same sample tested 10 times within two minutes.			
		ified under after the		
	instrument is cal			
Measurement		g sample material :		
sample		paper, leathers		
material	Type 2 : Lighting s			
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			
Duttens	reference only.	ten hutten V		
Buttons	OP button (Operation 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 measurement,			
	select the sensor			
Power off	Auto shut off saves			
FOWER OIL				
	manual off by push button.			
	* Power will off automatically after			
	3 min., if no but			
Low battery	Low battery indicat	or.		
Computer	RS 232 PC serial in			
interface	LON			
Operating	0 ℃ to 50 ℃ ( 32 ℃	°F to 122 °F )		
Temperature		·		
Operating	Less than 80% RH	WHY.		
	LESS MAILOU 70 KH			
Humidity	DC OV bettern All	line to use		
Power Supply	DC 9V battery, Alka			
	006P, MN1604(PP3) or equivalent.			
WWW.	DC 9V adapter input.			
	@ AC/DC power a	dapter is optional.		
Power Current	Standby : Approx.	DC 6.3 mA.		
	Measurement : App	prox. DC 32 mA. (2 SE		
Weight	478 g/ 1.05 LB.			
		and the sensor probe		
Dimension	Main instrument :	$202 \times 76 \times 20 \text{ mm}$		
	Sensor probe : 16			
	Instruction manual			
Accessories	Sensor probe (RGB-1002P) 1 PC.			
Accessories Included		White color calibration card 1 PC.		
		tion card 1 PC.		
	White color calibrat			
Included	White color calibrat Carrying case, CA-0	06 1 PC.		
Included Optional	White color calibra Carrying case, CA-0 * AC to DC 9V ada	06 1 PC. pter.		
Included	White color calibra Carrying case, CA-0 * AC to DC 9V ada * RS232 cable, UP	D61 PC. pter. CB-02.		
Included Optional	White color calibra Carrying case, CA-( * AC to DC 9V ada * RS232 cable, UP * USB cable, USB-	D6 1 PC. pter. CB-02. D1.		
Included Optional	White color calibra Carrying case, CA-0 * AC to DC 9V ada * RS232 cable, UP	D6 1 PC. pter. CB-02. D1.		

\* Appearance and specifications listed in this brochure are subject to change without notice.