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 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		
	* Repeatability is sp	ecified under the		
	same sample teste			
	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 sar	•		
type	Such as CRT, LCD			
1900	LED lamp, lighting	-		
	1 . 0 0	•		
	* 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			
	1	isurement just for the		
Buttons	OR button (Operation	n hutton)		
buttoris	OP button (Operation button) CAL button (Calibration button)			
	REL button (Relative			
	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,			
D ((select the sensor I	ight 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 butto			
Low battery	Low battery indicator.			
Computer	RS 232 PC serial interface.			
interface				
Operating	0~% to $50~%$ ($32~%$	to 122 °F).		
Temperature				
Operating	Less than 80% RH.			
Humidity				
Power Supply				
	006P, MN1604(PP3) or equivalent. DC 9V adapter input.			
	@ AC/DC power ada	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.			
3 1	* Main instrument and the sensor probe			
Dimension	Main instrument : 20	03 x 76 x 38 mm		
2	Sensor probe : 160x92x45 mm			
Accessories	Instruction manual	1 PC		
Included				
moluucu	White color calibration card 1 PC.			
Ontional	Carrying case, CA-06			
Optional Accessories	* AC to DC 9V adapter. * RS232 cable LIPCR-02			
ACCE220HES	* RS232 cable, UPCB-02. * USB cable, USB-01.			
	* Data Acquisition software, SW-U801-WIN.			
	244-0801-WIN.			
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 $^{^{\}star}$ Appearance and specifications listed in this brochure are subject to change without notice.