R, G, B, Hue, Saturation, Luminance

COLOR ANALYZER Model : RGB-1002 ISO-9001, CE, IEC1010

LILutron **RGB-1002** R G в COLOR ANALYZER POWER OP Function REL LIGHT RGBHLS ON / OFF Painting, Textiles, Paper Leather







The Art of Measurement

RGB/HSL value, no lighting material color analysis

COLOR ANALYZER

Model : RGB-1002

1. FEATURES

 * 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. 	* 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.	Meas
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* Power supply by 006P DC 9V battery or DC 9V adapter.		Butto
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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		
Display	LCD size : 59 mm x 34 mm.	Humid
Measuring	45° /0° - circular illumination at 45°,	Power
geometry	measurement at 0°.	
Spectral range	400 nm to 700 nm.	
Light source	Two white LED lamp.	
Measuring	For no lighting sample color	Power
principle	measurement such as textiles, paper,	
	leathers, painting materials, a	Weigh
	defined light source illuminates the	
	sample and the reflected surface light is	Dimen
	spectrometrically analyzed.	
	* For lighting sample color measurement,	Access
	the light source of sample is	Includ
	spectrometrically analyzed directly.	
Color	3 color photo transistors :	
sensors	Red photo transistor	Option
	Green photo transistor	Access
	Blue photo transistor	
Calibration	Self calibration.	
	* The calibration white calibration card	
	is included.	

Measurement	RGB value		
	R (Red) value : 0		
	G (Green) value		
	B (Blue) value :	0 to 1023.	
	HSL value		
	Hue value : 0 to 1		
	Saturation value :		
	Luminance value :		
Accuracy/	R (Red) value	< 3	
Repeatability	G (Green) value	< 3	
	B (Blue) value	< 3	
@ 23 ± 5°C	Hue value	< 0.01	
	Saturation value	< 0.01	
	Luminance value	< 0.01	
-	* Repeatability is sp		
	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	Type 1 : No lighting sample material :		
material	Such as textiles, paper, leathers		
type	Type 2 : Lighting sample material :		
	Such as CRT, LCD monitor, LED lamp, lighting lamp		
	* The RGB-1002 is designed mainly for		
		or value of type 1 (no	
	-	÷	
	lighting sample). For the type 2 (lighting sample) color measurement just for the		
	reference only.		
Buttons	OP button (Operation button)		
	CAL button (Calibration button)		
-	REL button (Relative		
		elect RGB or HSL value)	
]	Light ON/OFF buttor		
	* No lighting sample measurement,		
	select the sensor light to on.		
	* Lighting sample measurement,		
	select the sensor light to off.		
Power off	Auto shut off saves battery life or		
	manual off by push l		
	* Power will off auto	2	
	3 min., if no butto		
Low battery	Low battery indicato		
Computer	RS 232 PC serial inte	erface.	
interface			
Operating	0 $^\circ C$ to 50 $^\circ C$ (32 $^\circ F$	to 122 F).	
Temperature	Less there according to		
Operating	Less than 80% RH.		
Humidity	DC OV bottoms Aller	no tuno	
Power Supply	DC 9V battery, Alkal		
4	006P, MN1604(PP3)		
4	DC 9V adapter input		
Power Current	@ AC/DC power add Standby : Approx. D	apier is opiional.	
Power Current			
Weight	478 g/ 1.05 LB.	ox. DC 32 mA. (2 SEC.)	
weigin		and the sensor probe	
Dimension	Main instrument ·)	and the sensor probe	
	Sensor probe : 160		
Accessories	Instruction manual		
Included		1002P) 1 PC.	
Included		on card 1 PC.	
1		bin card 1 PC.	
Optional	* AC to DC 9V adap	ter.	
Accessories	* RS232 cable, UPCB-02.		
10000000000	* USB cable, USB-0		
1	* Data Acquisition s		
1.1	SW-U801-WIN.	,	
	200-0801-001N.		

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