COLOR ANALYZER

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







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.		

T			
Measurement	RGB value		
	R (Red) value : 0 to 1023.		
	G (Green) value : 0 to 1023.		
	B (Blue) value: HSL value	0 10 1023.	
	Hue value : 0 to 1	000	
	Saturation value :		
	Luminance value		
Accuracy/		< 3	
Accuracy/ Repeatability	R (Red) value G (Green) value		
кереатаршту	B (Blue) value	< 3	
@ 23 ± 5℃	Hue value	< 0.01	
@ 23 ± 5 C	Saturation value	< 0.01	
	Luminance value		
	* Repeatability is specified under the same sample tested 10 times within		
	,		
	two minutes. * Accuracy is specified under after the		
	* Accuracy is specified under after the instrument is calibrated.		
Measurement	Type 1 : No lighting		
sample	Such as textiles, p		
material	Type 2 : Lighting sai		
type	Such as CRT, LCD		
туре		'	
	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		
		asurement just for the	
	reference only.	asurement just for the	
Buttons	OP button (Operation button)		
Dattons	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 n		
	select the sensor		
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 indicato		
Computer	RS 232 PC serial inte	erface.	
interface			
Operating	0 °C to 50 °C (32 °F	r to 122 °F).	
Temperature	,	,	
Operating	Less than 80% RH.		
Humidity			
Power Supply	DC 9V battery, Alkal	ine type	
	006P, MN1604(PP3)	or equivalent.	
	DC 9V adapter input		
	@ AC/DC power ad	apter is optional.	
Power Current	Standby: Approx. [
	Measurement : Appr	ox. DC 32 mA. (2 SEC.)	
Weight	478 g/ 1.05 LB.		
_	* Main instrument a	and the sensor probe	
Dimension	Main instrument : 2	03 x 76 x 38 mm	
	Sensor probe: 160	x92x45 mm	
Accessories	Instruction manual		
Included	Sensor probe (RGB-1002P) 1 PC.		
	White color calibration card 1 PC.		
	Carrying case, CA-06 1 PC.		
Optional	* AC to DC 9V adap	ter.	
Accessories	* RS232 cable, UPCB-02.		
	* USB cable, USB-01.		
	* Data Acquisition s	oftware,	
	SW-U801-WIN.		

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