

# AMITTARI INSTRUMENTS

## Color Meter AC-115S

### Application

The meter is an extremely compact, extremely easy-to-use tristimulus color meter specially designed for measuring the color difference between two colors.

The meter is designed for measuring the color of no lighting and non-fluorescent sample such as textile, paper, leathers, painting materials, etc. It is the useful tool for the quality control and wide industrial application.



### Features

- \* The measuring head of meter need to touch with color sample without any distance.
- \* Color difference displayed  $\Delta(L^*, a^*, b^*)$ ,  $\Delta(E^*ab, C^*ab, H^*ab)$ ,  $\Delta(Y, x, y)$ ,  $\Delta(X, Y, Z)$ ,  $\Delta(Rs, Gs, Bs)$  or  $\Delta(WI, YI, Tw)$
- \* Color space displayed  $(L^*, a^*, b^*)$ ,  $(L^*, C^*ab, hab)$ ,  $(Y, x, y)$ ,  $(X, Y, Z)$ ,  $(Rs, Gs, Bs)$  or  $(WI, YI, Tw)$ .
- \* Statistical function (Maximum, Minimum, Average and Standard Deviation)
- \* Color difference tolerance set to perform PASS/ WARN/ FAIL.
- \* Store 9 color-difference target colors.
- \* User calibration function ensures higher accuracy.
- \* Auto memory (99 sets) & Read function.
- \* Digital back light display.
- \* Auto power off function.
- \* Use USB data output and RS-232 data output with connection PC.

### Specifications

Display	Triple 4 digit LCD Display
Auto power off	Approx. 3 minutes
Data memory capacity	99 set. (Direct reading from LCD display)
Low battery indication	
Temperature	Operating: 0~40°C(32~104°F), Storage: -10~40°C(14~104°F)
Humidity	Operating: <85%RH., Storage: <70%RH.
Power source	4x1.5 AAA (UM-4) Battery
Dimensions	Main unit: 140x70x31mm
	Sensor : $\Phi 44 \times 55$ mm
Weight	205g (not including battery)
Illuminating/ Viewing geometry	45°/ 0°: Illumination at 45°, measurement at 0°
Illuminant	White LED lamp

Measuring area	Approx. $\Phi 10$ mm
Display modes	Color difference: $\Delta(L^*, a^*, b^*)$ , $\Delta(E^*ab, C^*ab, H^*ab)$ , $\Delta(Y, x, y)$ , $\Delta(X, Y, Z)$ , $\Delta(Rs, Gs, Bs)$ or $\Delta(WI, YI, Tw)$
Operating Temperature	Color space: $(L^*, a^*, b^*)$ , $(L^*, C^*ab, hab)$ , $(Y, x, y)$ , $(X, Y, Z)$ , $(Rs, Gs, Bs)$ or $(WI, YI, Tw)$
Target color memory	9 channel; set by measurement or keypad
Measuring range	$L^*$ : 5 to 100
Measurement conditions	Observe: CIE 2° Standard Observer
Repeatability	Standard deviation within $\Delta E^*ab$ 0.5 (Measurement conditions: Average of measurements of standard white plate)
Measurements interval minimum	Approx. 2 seconds

### Accessories

Standard Accessories	Main unit, Measuring head, White calibration card, Carrying case, Instruction manual.
Optional Accessories	USB data output