

# PORTABLE COLOR DIFFERENCE METER TCD100



## Brief Introduction

TCD100 is a light-sensitive instrument mainly used in colorimetry for measuring and psychophysical analysing the color of an object or color sample. This portable colorimeter is easy to use and can be carried anywhere, irrespective of environmental conditions.

## Features

- ☞ Easy and direct operation with the simple function keys
- ☞ Display directly color difference by  $E^*ab$ ,  $L^*a^*b$  CIE  $L^*a^*b$ , CIE  $L^*c^*h$
- ☞ Silicon photodiode as light sensors for analyzing the absorption spectra
- ☞ Standard deviation within  $E^*ab0.2$  (Test condition: choose average values by 12 pcs white tabula)
- ☞ Possibility of measuring any color of smooth surface
- ☞ LED illumination available
- ☞ Communication with PC the practical software

## Technical Specification

Test accuracy	Within 0.2 $E^*ab$
Color space	$E^*ab$ , CIE_Lab, $L^*$ , $a^*$ , $b^*$ , CIE_Lch
Measuring range	$L^*$ : 0 ~ 100 $a^*$ : - 128 ~ 127 $b^*$ : - 128 ~ 127
Measuring time	About 3 seconds
Measuring interval	About 2 seconds
Measuring aperture	∅8mm
Automatic shutdown	Automatic shutdown after 5 minutes waiting
Memory	Keep a group of data automaticly (Without connecting to PC)
Field of view	10° regulated by CIE
Light source	C light source
Sensor	Correct silicon photodiode (seed array)
Screen type	LCD with backlight
Power	1.5V AA batteries 2, DC/5V (1.5A)
Operating environment	0 ~ +40 °C ; lower than 85% relative humidity
Dimension	170mm 50mm 48.8mm
Net weight	204g ( without batteies)

## Standard Delivery

- ☞ Main unit 1
- ☞ Software 1
- ☞ USB connecting cable 1
- ☞ Batteries AA 1.5V 2
- ☞ Power supply 1
- ☞ Instruction manual 1
- ☞ TIME certificate 1
- ☞ Warranty cardt 1



# PRECISE COLOR READER TCR200



## Brief Introduction

TCR200 is a light-sensitive instrument mainly applied for the quality control in the field of plastic, painting, design, plating, costume, printing and dye. It works well for routine comparisons of similar colors and some advanced functions for color analysis can be accomplished.

## Features

- ▣ The 2.4" width colorful screen and portable design
- ▣ Possibility of measuring any color of smooth surface
- ▣ Display directly color difference by  $E^*ab$ ,  $L^*a^*b$ ,  $CIE\_L^*a^*b$ ,  $CIE\_L^*c^*h$ , XYZ, RGB
- ▣ SCI and SCE inspecting systems selectable and metamerism analysis for different working status
- ▣ Three inspection conditions available
- ▣ Professional color analysis software for the color data analysis and color difference diagrammatic output
- ▣ Tolerance setting, humanizational auto-judge color difference values and color deviation for judging the color easily

## Technical Specification

Repeat accuracy	Within $E^*ab0.08$ ( interval measuring 30 times after calibrating white tabula )
Error	Within $E^*ab0.5$
Color space	XYZ, RGB, $L^*a^*b$ , $L^*C^*H$ , $E^*ab$ , $L^*a^*b^*$ , $L^*c^*h^*$
Lighting/inspecting system	8/d ( 8 Falloff/diffuse reflection ) SCI ( include Flat Mirror Light ) SCE ( eliminate Flat Mirror Light )
Light source	White light source
Measuring aperture	8mm
Field of view	10 regulated by CIE
Inspection condition	D65, D50, F11
Memory	13 groups of sample and 30 data for each sample (Without connecting to PC)
Interface	USB and RS232C
Power	1.5V AA batteries 4, AC-DC alternating current
Operating environment	0 ~ +70 ; lower than 85% relative humidity
Dimension	77mm 86mm 210mm
Net weight	550g ( without batteies )

## Standard Delivery

- ▣ Main unit 1
- ▣ Software 1
- ▣ USB connecting cable 1
- ▣ Standard black cavity 1
- ▣ Standard white tabula 1
- ▣ Batteries AA 1.5V 4
- ▣ Power supply 1
- ▣ Instruction manual 1
- ▣ TIME certificate 1
- ▣ Warranty card 1

