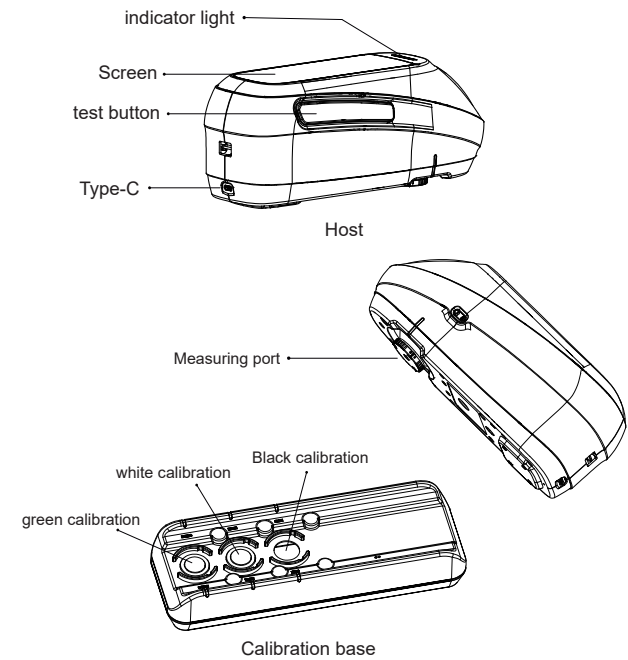


名称	性能故障
分光测色仪	1、电源指示灯不亮(电池没电除外)； 2、仪器开关卡滞，不能正常开关； 3、仪器显示器无法正常显示； 4、测量光源不亮； 5、蓝牙无法连接。

# Spectrophotometer Operation Instruction

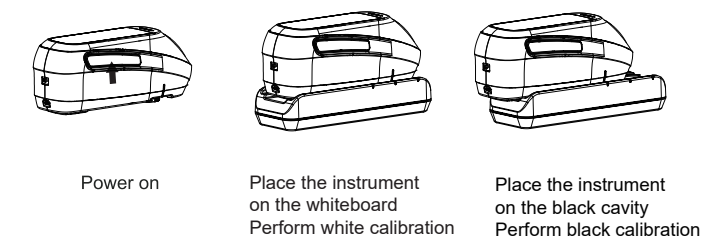
## Product introduction

Please read this manual carefully before using the product.

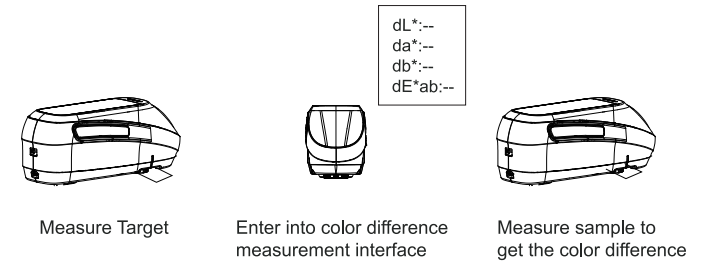


## Quick Start

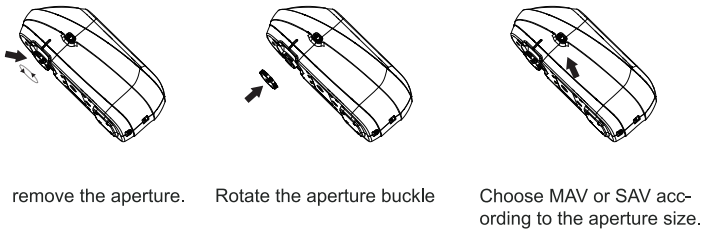
### 1. Power on and Calibration



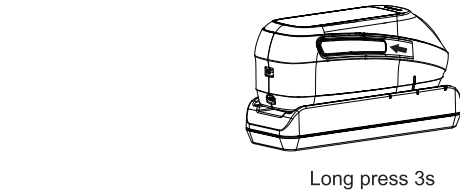
### 2. How to measure color difference



### 3. Switch Aperture



### 4. Power off



## Parameters

NetProf network calibration	support
Measurement structure※	D/8,SCI+SCE
SCI+SCE simultaneous measurement	support
Integrating sphere diameter	40mm
lighting source	Full-band balanced LED light source + xenon lamp
sensor	Dual column high-precision CMOS array sensor
Calibration method	BCRA certified black and white board energy calibration, green board wavelength accuracy calibration
Spectral method	grating
Display accuracy	0.01
Light source life	6 million times
Wavelength range	360-740nm
wavelength interval	10nm
Reflectivity measurement range	0-200%
Reflectance resolution	0.01%
caliber	Φ11mm,Φ6mm
Aperture Repeatability※※	dE*ab≤0.02
inter instrument aprecment※※※	dE*ab≤0.25
UV light source	yes
view angle	2°, 10°
Light source conditions	A,B,C,D50,D55,D65,D75F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12CW F,U30,U35,DLF,NBF,TL83,TL84,ID50,ID65,LED-B1,LED-B2,LED-B3,LE D-B4LED-B5,LED-BH1,LED-RGB1,LED-V1,LED-V2
Color space	Spectral reflectance, CIE-Lab, CIE-LCh, HunterLab, CIE-Luv, XYZ, Yxy, RGB color difference (ΔE*ab, ΔE*cmc, ΔE*94, ΔE*00), whiteness (ASTM E313-00, ASTME313-73, CIE, ISO2470/R457, AATCC, Hunter, TaubeBerger Stensby), yellowness (ASTM D1925, ASTM E313-00, ASTM E313-73) blackness (My, dM), stain fastness, color fastness , Tint (ASTM E313-00) color density CMYK (A, T, E, M), metamerism index Milm, Munsell, hiding power, strength (dye strength, tinting power)
measure time	about 1 second
storage	Instrument: 10,000 samples; APP: Mass storage
battery capacity	Can continuously measure 8000 times on a single charge, 7.2V/3000mAh
measurement observation method	Camera
Screen	Full color screen, 3.5 inches
language	Simplified Chinese, English
interface	USB, Bluetooth
calibration	Intelligent automatic calibration
software support	Android, iOS, Windows, WeChat applet
Accuracy guaranteed	Guarantee first-level measurement qualification
Standards compliant	CIE No.15,GB/T 3978,GB 2893,GB/T 18833,ISO7724-1,ASTM E1164,DIN5033 Teil7
size	233mm*77mm*93mm
weight	About 600g

※ Diffuse lighting/8° direction reception, including specular reflected light/removing specular reflected light

※※ After whiteboard calibration, measure the whiteboard 30 times at 5-second intervals and measure the standard deviation of the results with MAV caliber.

※※※ The average of the MAV caliber measurement values of 12 color plates in the BCRA series

## Warranty

### Reminder

It is recommend that keep the packing box for at least 30 days as the packing box is required to ensure the safety of transportation.

### Non warranty regulations

- 1.Unauthorized repair,misuse,accident,modification,use of nonofficial accessories.
- 2.Instrument is out of warranty.
- 3.Damage caused by force.
- 4.Not the performance failure listed in the product performance failure table.
- 5.Performance failure caused by human factors.

## Warning

- .Do not attempt to disassemble or replace any part of the equipment. Please contact the agent or official customer service for after sales service.
- .Do not place the equipment near heat source or directly expose to the fire.
- .If any liquid enters the equipment,please power off the equipment immediately.
- .This product contains small parts.It may cause suffocation and other hazards,if swallowed by children.

## Troubleshooting Table

Name	Performance failure
Spectrophotometer	1.The equipment can't power on. 2.The equipment's button can't work normally. 3.Equipment screen fails to work normally. 4.Equipment lamp fails to work normally. 5.Bluetooth can't connect.