Annual Product Calibration

This product is a high-precision measurement device with sensitive, please use with care. To ensure the accuracy of measurements, it is recommended to have the unit calibrated once a year. Please contact your agent or our customerservice department for calibration service.

Product Notes and Precautions

- 1.The MK550T Spectroradiometer contains sensitive components. Please unpack with care, as any trauma to the unit may damage the equipment. Contact your agent if the unit appears not to be operating normally. Do not attempt any repairs all repairs must be performed by qualified service agents.
- 2.Most LCD screens have a very small and inconsequential defective pixel rate (usually less than 0.1%). This results in occasional pinpoints of white or other colors but will not affect the accuracy of measurements.



Precautions / Warnings

Please read the following precautions to avoid fire, excessive heat, chemical leakage and explosion.

- Do not disassemble or modify the battery.
- Do not expose the battery to heat (fire) or water/moisture.
- When disposing used/old batteries, wrap with insulation tape to shield the battery from electrical contact with metallic objects, which might ignite a fire or explosion.
- If the unit is plugged into the power adapter and the battery seems to be overheating, or if there is smoke or peculiar odors emanating from the unit, unplug immediately to avoid the possibility of fire.
- However, do not touch the cables if there is heat emanating from near the cables as melted or deformed cables could expose wiring and result in burns or electric shock.
- Do not use cloth or anything to wrap or cover the equipment while charging this could cause the unit to overheat, melting the casing or causing fire.
- If the unit is accidently immersed in water, or if moisture has seeped inside, or metal objects have dropped into the casing, immediately remove the battery to avoid fire or electric shock.
- Do not operate or store the battery in high-temperature environments it will cause battery leakage and/or shorten the life of the battery .
- Do not use paint thinner, benzene or other organic solvents to clean the equipment this may damage the exterior finish or touch screen, and may even ignite fire.





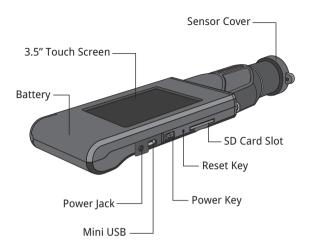
MK550T User Manual

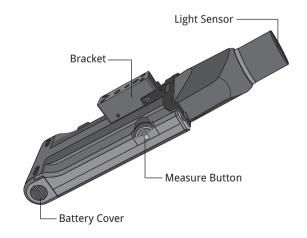




uFLICKER PC Software

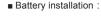






Getting Started - 1

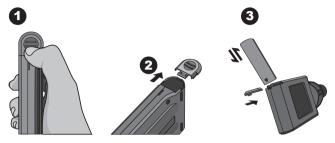
Getting Started - 2



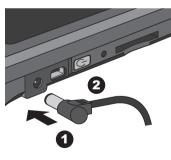
Step1. Hold MK550T , then press the battery cover.

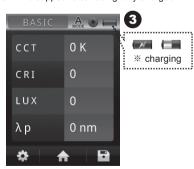
Step2. Press the battery cover down to remove it.

Step3. Install the battery after removing battery cover.

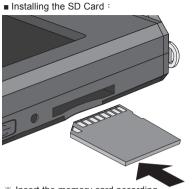


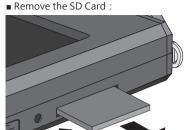
- Battery charging:
- 1. Plug power charging cable into power jack to start charging.
- Power Off Status: Users can check power key, it will light in red while charging and off after being fully charged.
- Power On Status: Users can check MK550T screen, it will appear a lightning symbol to indicate charging, and lightning symbol will disappear after being fully charged.





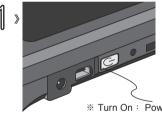
- Please charge the battery for 6 hours at first time usage.
 To avoid any interruption while measuring, please check battery status before use.
- 3. Please purchase a new battery if it gets low easily after being fully charged, which means battery life comes to an end.
- Usage time will depends on battery life, MK550T battery can operate 5 hours after being fully charged.





※ Press to remove the SD card

Insert the memory card according to the direction.



■ Power On / Off

Turn on the power : Press the power key for 1 second.

Turn off the power : Press the power key for 3 seconds.

** Turn On : Power key lights up in green light.
Turn Off : The green light will turn off.

 $\widehat{\mathbf{2}}$ » tap the "BASIC" item





Getting Started - 3

Getting Started - 4

Step1. Tap the box of measuring unit

Step2. Select an item from the list

Step3. The new data item will be displayed





** taking a measurement

» customizing BASIC mode list

0 K

0 nm

CRI

λp

cqs 🗽









Beep sound while dark calibration (measuring)



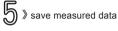
(after measurement)

Step1. Point sensor head at panel with suggest angle 0°.

Step2. Press the measure button

Step3. Beeps once while execute dark calibration automatically. The measurement progress is shown on the screen.

Step4. After twice beep sound, measured data will be displayed on the screen.









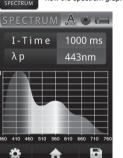
Step1. Tap the save icon in the lower right corner.

Step2. Tap "Yes"

Step3. Measurement data is now saved in SD card. Tap "OK" and then return to the BASIC mode.

Measurement Modes

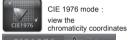
SPECTRUM mode : view the spectrum graph SPECTRUM



FLICKER mode :

CIE 1931 mode : view the chromaticity coordinates x: 0.3320 y: 0.3935





BASIC mode :

BASIC

CCT

CRI LUX

λρ

view measured values

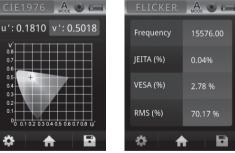
5800 K

92

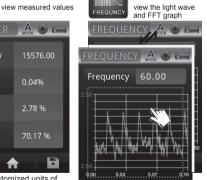
1500

443 nm

A C



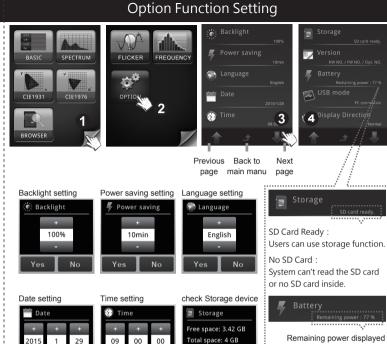




FREQUNCY mode :

Xtouch the graph to switch

- ► Measurement mode BASIC / SPECTRUM / CIE1931 / CIE1976 / FLICKER / FREQUNCY ► Integration mode - Auto A / Manual M ► Measurement setting *****
- ► Capture function One time (/ Continuous () ► Back to main menu •
- ► Save data ► Battery capacity

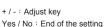














- 1. Please set up date and time before saving the files.
- 2. Users can set up auto power-off time to saving battery power. Default auto power-off setting is 10 minutes

Measurement Setting

Continuous Measurement

2





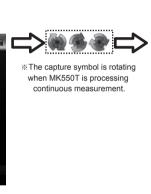
Capture function

No

select Continuous

One time

Continuous





4

press measure button

Step1. Select "Continuous"

BASIC mode

start measurement

after measurement) press the measure button again to see the measurement results.

BASIC mode

Step2. Point sensor head at panel with suggest angle 0°. Press the measure button.

measurement interval depends on integration time

Step3. Processing the continuous measurement

Step4. Press measure button again to stop continuous measurement.



- 1. Continuous measurement has no beep sound after press capture key.
 - 2. Users cannot save the measurement data while processing continuous measurement.
 - 3. Adjust the integration time is only allowed in the manual mode.



Yes

One time

Continuous 🌕

Capture function setting

Capture function

No



I-Time mode setting

🕼 I-Time mode

Fast mode

Normal mode

No

🜋 Light mode Contrant Flicker Yes No

Operation sound setting

Operation sound

No

n On

Off

- + / : Adjust key Yes / No : End of the setting ± : plus and minus X'gain, Y'gain and Z'gain BS: backspace OK: save the setting
 - also use keyboard to set the values.

Sampling time setting

R Sampling time

Yes

SPD'gain setting

32K

No

1.0000

Install uFLICKER PC software Install uFLICKER software on the PC. Then you can connect it with the system for USB control of measurement.

Connecting with uFLICKER

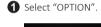
Install uSPECTRUM software on the PC. Then you can connect it with the system for USB control of measurement

control of measurement.





Set USB PC connection mode





3 Select "PC connection" and perss Yes.



Set USB PC connection mode

Install uSPECTRUM PC software



Sclect "USB mode".

Storage
So card ready.

Version
W MO / PW NO / PW NO / Opt. NO.

Battery
Battery

Broads
USB model
Contractors

Connecting with uSPECTRUM



Measure



Measure

