

SPECTROMASTER

C-7000

Startup Guide

Thank you for purchasing a SPECTROMASTER C-7000. This Startup Guide introduces the basic operations of this Color Meter. For details about how to use this spectrometer, please see the Operating Manual on the CD-ROM (included with the products).

1. Download

Please visit www.sekonic.com to download the latest version of Utility and the operating manual as follows:

■ Utility

https://www.sekonic.com/support/downloads/c-700_800seriesutilityformacandwindows.aspx

■ Operating Manual

<http://www.sekonic.com/support/instructionmanualuserguidedownload.aspx>

<Utility>



<Manual>



2. Check Included Items

The following items are included with the meter in the package.

Please be sure to check that all noted items are included.

- ★ If any items are missing, please contact the distributor or the reseller you purchased the meter from.
- ★ Batteries (2 AA) are not included in the package. Please obtain these separately.

Meter



Startup Guide
(this document)



Safety
Precaution



Safety
Requirement and
Precaution



Soft Case



Strap



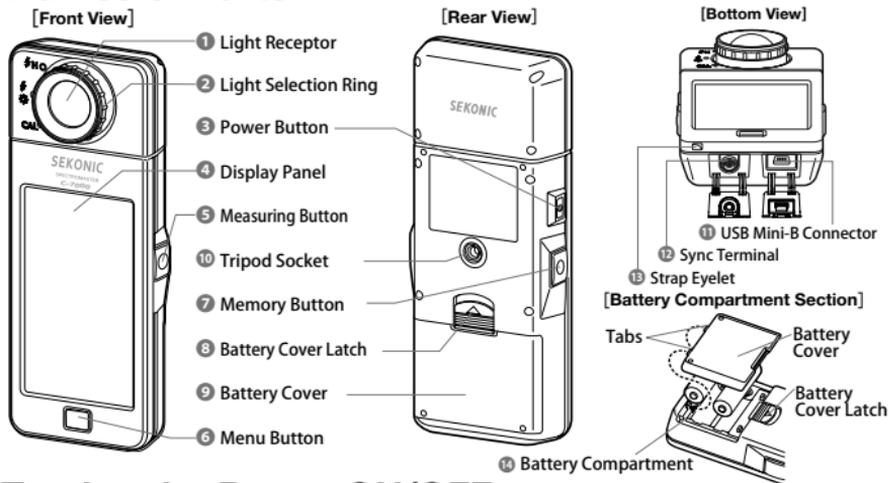
CD-ROM



USB
Mini-B cable



3. Names of Parts



4. Turning the Power ON/OFF

After installing the batteries, turn the Light Selection Ring ② to the dark calibration position **CAL** (▶) and turn ON this instrument by pressing the Power Button ③.

After the Opening screen displays (for 2 seconds) in the Display Panel, dark calibration starts. After dark calibration properly ends, the Display Mode Selection Screen displays.

Light Selection Ring ②

[Opening Screen]

[Display Mode Selection Screen]



- ★ You can reduce start up time by simply tapping the screen when the Opening screen appears.
- ★ Please wait 3 or more seconds between turning the power ON/OFF.
- ★ To turn OFF the power, press and hold the Power Button for more than one second. The meter is powered off after the display disappears.

- ★ If Dark Calibration Position Confirmation screen appears, set the Light Selection Ring ② to Dark Calibration position and perform calibration again.

Dark Calibration Position Confirmation Screen



- * If "Please set Light Selection Ring for dark calibration" is displayed, set the Light Selection Ring ② to the dark calibration position to start calibration.
- * When taking measurements, set the Light Selection Ring ② to the range L (icon at the middle) for ALL ambient light. For flash light, set the ring to "H" (icon at the top) high-power (brighter than 640lx·s) flash or "L" (icon at the middle) for low-power flash (lower than 640lx·s).

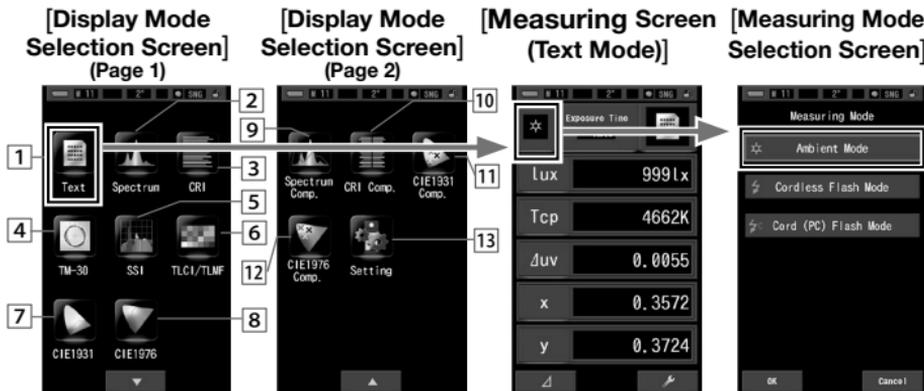
NOTE

Dark calibration is performed when new batteries are set, 24 hours passed since last use or there is a big change in temperature between turning power OFF and ON again.

Except the cases above, dark calibration after power ON is skipped.

5. Measuring Mode and Display Mode

You can change screens after turning the power on as follows. Changes from the Display Mode Selection Screen to the Measuring Screen.



- ★ Pressing Menu Button ⑥ shifts to the Display Mode Selection screen.

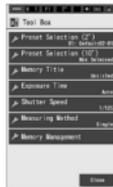
| Measuring Mode | Icon | Description |
|----------------------|---|---|
| Ambient Light Mode |  | Measures continuous light such as sunlight, tungsten, fluorescent, and LED lights. |
| Cordless Flash Mode |  | Detects flash light without meter-flash connection after Measuring Button pressed to arm meter (for 90 seconds) and flash fired separately. |
| Cord (PC) Flash Mode |  | Detects flash light with PC (synchro) cord meter-flash connection. |

| No. | Display Mode Name | Description |
|-----|-------------------------------------|--|
| 1 | [Text] Icon | Displays user-selected 5 items in numeric values. |
| 2 | [Spectrum] Icon | Displays 3 user-selected values and spectrum distribution graph. |
| 3 | [CRI] Icon | Displays the selected average CRI (Ra) or individual CRI (R1 ~ R15) numerically. Each CRI is displayed in a bar graph. |
| 4 | [TM-30] Icon | Displays three current measurement values (selectable) and color vector graphic. |
| 5 | [SSI] Icon | Displays the current measurement values (color temperature, Δ uv and SSI) and SSI spectrum graph. |
| 6 | [TLCI/TLMF] Icon | Displays the current measurement values and memorized values (in color temperature and Δ uv), TLCI and TLMF with spectrum graph. |
| 7 | [CIE1931 (CIE1964)] Icon | Displays the preset data together with the CIE1931 chromaticity diagram (or CIE1964 chromaticity diagram for a 10° viewing angle). |
| 8 | [CIE1976] Icon | Displays the measurement result together with the CIE1976 chromaticity diagram. |
| 9 | [Spectrum Comparison] Icon | Compares the current measurement value and up to 2 memorized values as yellow and/or red lines in the spectrum distribution graph. |
| 10 | [CRI Comparison] Icon | Compares the current measurement value and memorized value to show the color temperature and average CRI (Ra). Also, individual CRI (R1 to R15) is displayed in a bar graph. |
| 11 | [CIE1931 (CIE1964) Comparison] Icon | Displays the preset data and the stored measurement value (up to 2 types of data) together with the x and y coordinates in the CIE1931 chromaticity diagram (or CIE1964 chromaticity diagram for a 10° viewing angle). |
| 12 | [CIE1976 Comparison] Icon | Displays the measured result and the stored measurement value (up to 2 types of data) together with the u' and v' coordinates on the CIE1976 chromaticity diagram. |
| 13 | [Setting] Icon | Displays Setting screen. (➡ 7.Setting) |

6. Tool Box

Touching the “Tool Box ()” icon in any measurement screen shifts to the Tool Box screen where frequently used functions are listed.

[Tool Box Screen]



7. Setting

Touching the “Setting” icon in the Display Mode Selection screen shifts the display to the Setting screen. [Setting (Page 1, page2) Screen]

Here you can set functions and display methods required for measurement in advance.

