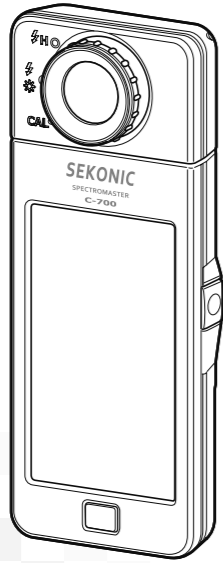# SEKONIC
Spectrometer for Photo/Video/Cine

SPECTROMASTER
C-700
C-700R
Quick Guide

Thank you for purchasing a SPECTROMASTER C-700 series. This Quick Guide introduces the basic operation for this instrument. Please refer to "Operating Manual" on the CD-ROM (included product) for usage details.
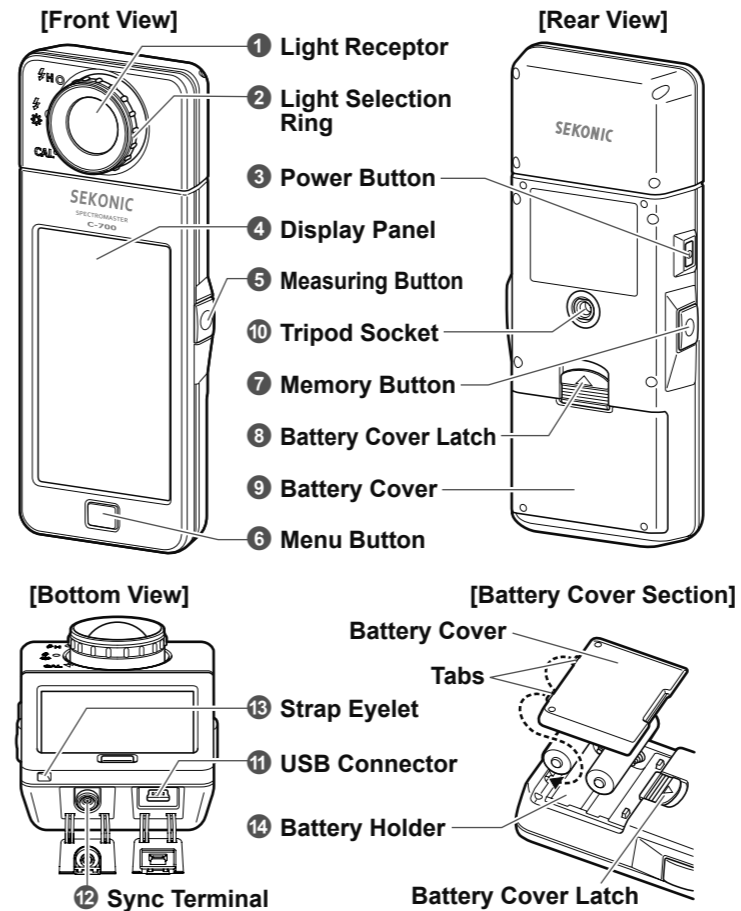
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1. Confirming the Bundled Items

This instrument and the following accessories are included. Confirm if any accessories are missing after unpacking.

Quick Guide	Main Body	CD-ROM
		- Operating Manual - C-700 Series Utility

Safety Precaution	Neck Strap	Soft Case

* If something is missing, contact the sales agent.
* Batteries (size AA) and a USB cable are not included. Please prepare them in advance yourself.
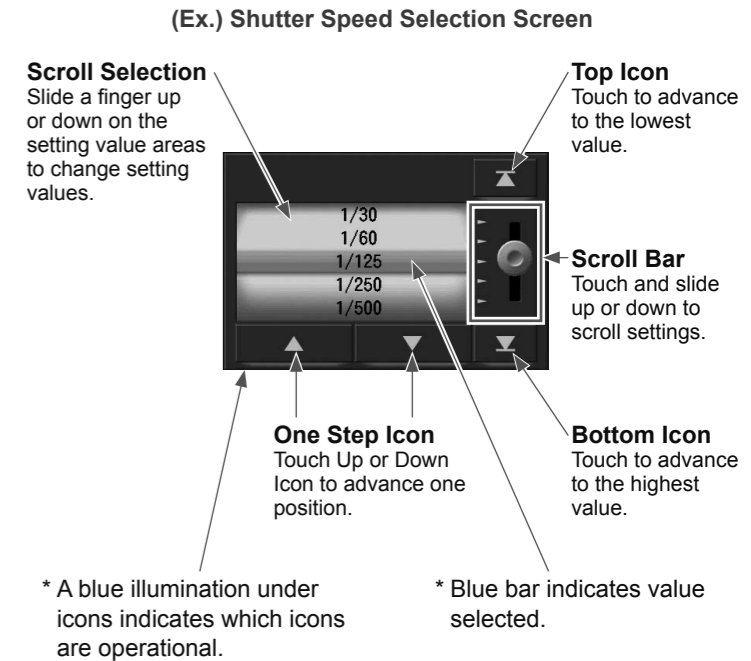
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2. Part Designations

The part designations are as follows.

[Front View]
❶ Light Receptor
❷ Light Selection Ring
❸ Power Button
❹ Display Panel
❺ Measuring Button
❼ Memory Button
❽ Battery Cover Latch
❾ Battery Cover
❻ Menu Button

[Rear View]
❿ Tripod Socket

[Bottom View]
⓭ Strap Eyelet
⓫ USB Connector
⓮ Battery Holder
⓬ Sync Terminal

[Battery Cover Section]
Battery Cover
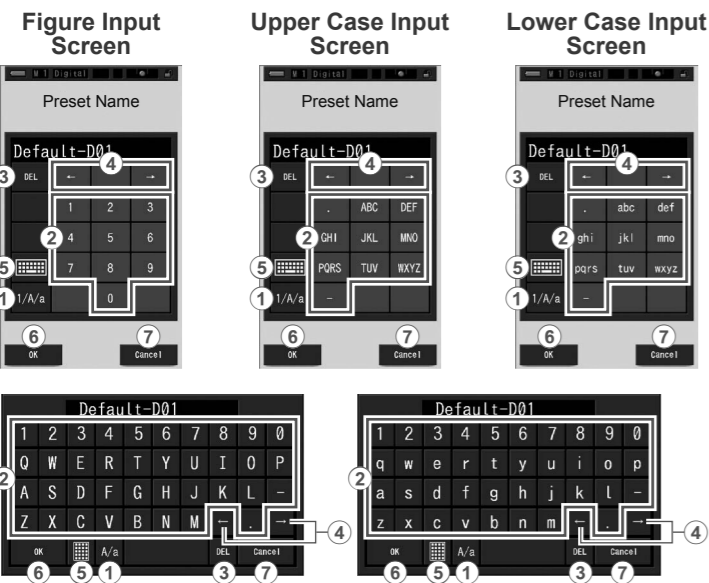Tabs
Battery Cover Latch

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3. Operation Method

The operation method of this instrument's Display Panel is described.

By touching an icon with your finger, you can select your intended setting or item.
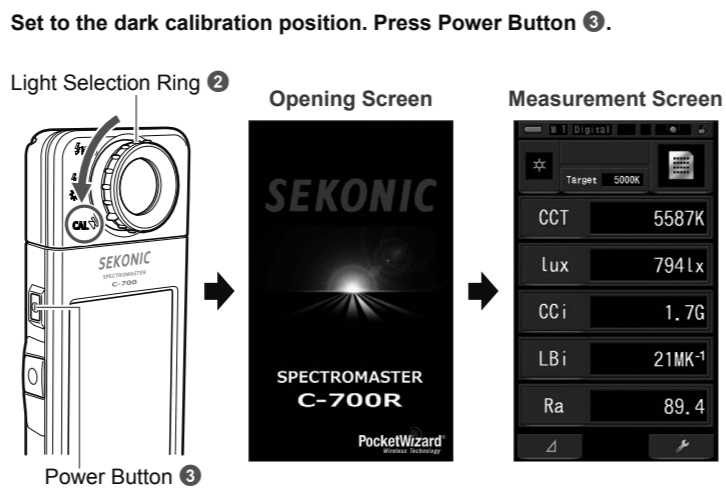
(Ex.) Shutter Speed Selection Screen

Scroll Selection
Slide a finger up or down on the setting value areas to change setting values.

Top Icon
Touch to advance to the lowest value.

1/30
1/60
1/125
1/250
1/500

Scroll Bar
Touch and slide up or down to scroll settings.

One Step Icon
Touch Up or Down Icon to advance one position.

Bottom Icon
Touch to advance to the highest value.

* A blue illumination under icons indicates which icons are operational.

* Blue bar indicates value selected.

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4. Input of Figures/Characters

Figure Input Screen	Upper Case Input Screen	Lower Case Input Screen
Preset Name	Preset Name	Preset Name

Input Method of Characters and Figures
(Character Setting Screen, Figure Setting Screen)

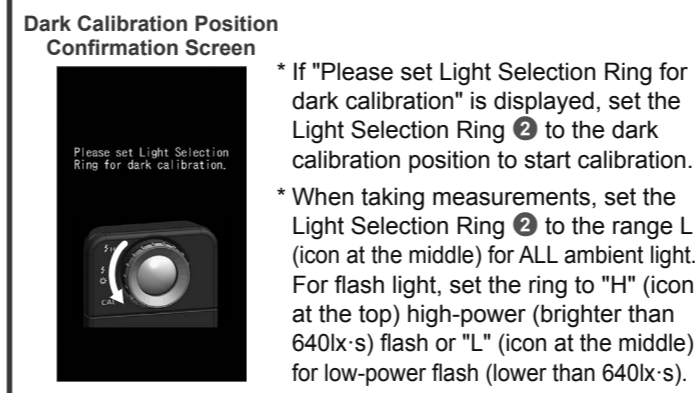| No.	Key	Description
①	1/A/a	Shifts between figures/upper case letters/lower case letters.
②	0-9, ABC, abc, hyphen, period	Touching it displays an input value in the upper section. By touching the same button multiple times, you can change the character input to the English alphabet (ABC).
③	Delete	Deletes the character at the cursored position.
④	← →	Moves input position.
⑤	Keypad	Shifts between Standard Keypad and Qwerty Keypad.
⑥	OK	Confirms the input value and returns to the original screen.
⑦	Cancel	Cancels the input and returns to the original screen.

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5. Turning the Power ON

**After installing the batteries, turn the Light Selection Ring ❷ to the dark calibration position (■) and turn ON this instrument by pressing the Power Button ❸.
After the Opening screen displays (for 2 seconds) in the Display Panel, dark calibration starts. After dark calibration properly ends, the Measurement screen displays.**

Set to the dark calibration position. Press Power Button ❸.

Light Selection Ring ❷

Opening Screen

Measurement Screen

CCT	5587K
lux	794 lx
CCi	1.7G
LBi	21MK⁻¹
Ra	89.4

Power Button ❸

* If Dark Calibration Position Confirmation screen appears, set the Light Selection Ring ❷ to Dark Calibration position and perform calibration again.
* To turn OFF the power, press and hold the Power Button for more than one second.
* Please wait 3 or more seconds between turning the power ON/OFF.

Dark Calibration Position Confirmation Screen

Please set Light Selection Ring for dark calibration.

* If "Please set Light Selection Ring for dark calibration" is displayed, set the Light Selection Ring ❷ to the dark calibration position to start calibration.
* When taking measurements, set the Light Selection Ring ❷ 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).
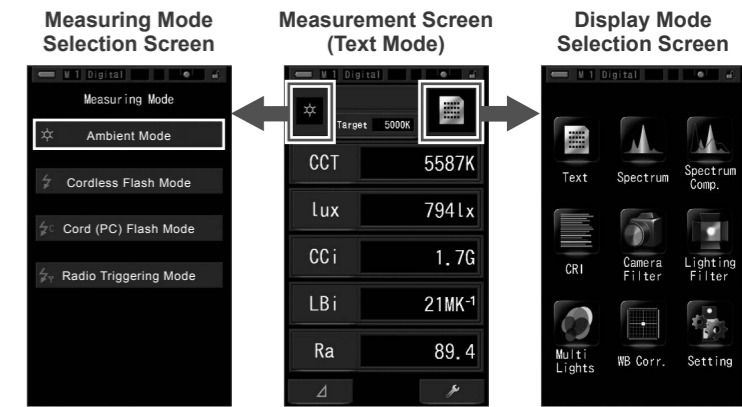
**Select a language used when you turn on the power for the first time.
The language selected will be displayed and encircled in blue. Touch the "OK" icon to confirm.
Even after you have confirmed the language, you can change it.**

Language Selection Screen

Select Language
English
日本語
中文（简体字）

Language Selection Confirmation Screen

Select Language
English
日本語
中文（简体字）
OK

6-1. Measurement Preparation (Measuring Mode, Display Mode)

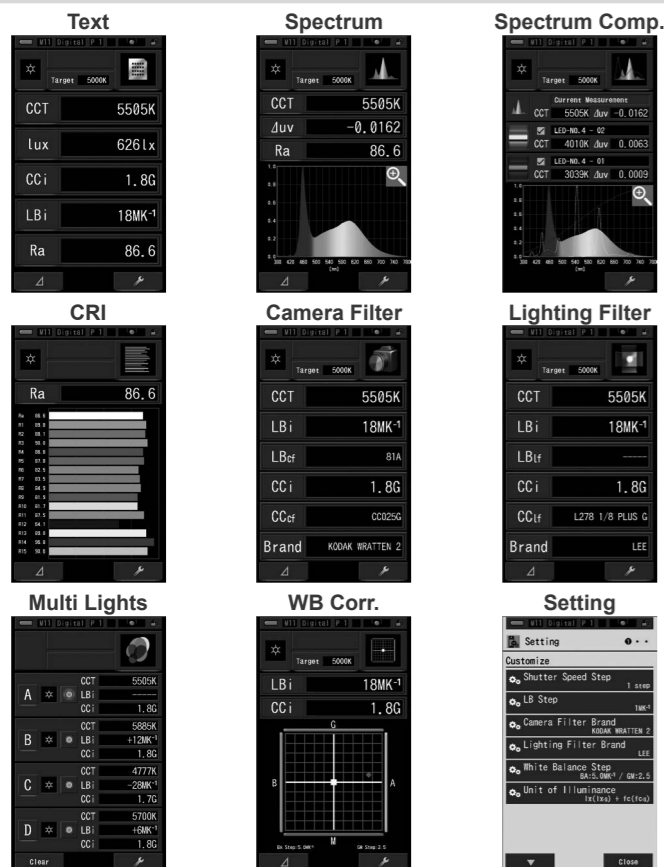**You can change screens after turning the power on as follows. Changes from the Measurement screen to each screen.**

* Pressing Menu Button ❻ shifts to the Display Mode Selection screen.

Measuring Mode Selection Screen
Measuring Mode
Ambient Mode
Cordless Flash Mode
Cord (PC) Flash Mode
Radio Triggering Mode

Measurement Screen (Text Mode)
CCT	5587K
lux	794 lx
CCi	1.7G
LBi	21MK⁻¹
Ra	89.4

Display Mode Selection Screen
Text, Spectrum, Spectrum Comp.
CRI, Camera Filter, Lighting Filter
Multi Lights, WB Corr., Setting

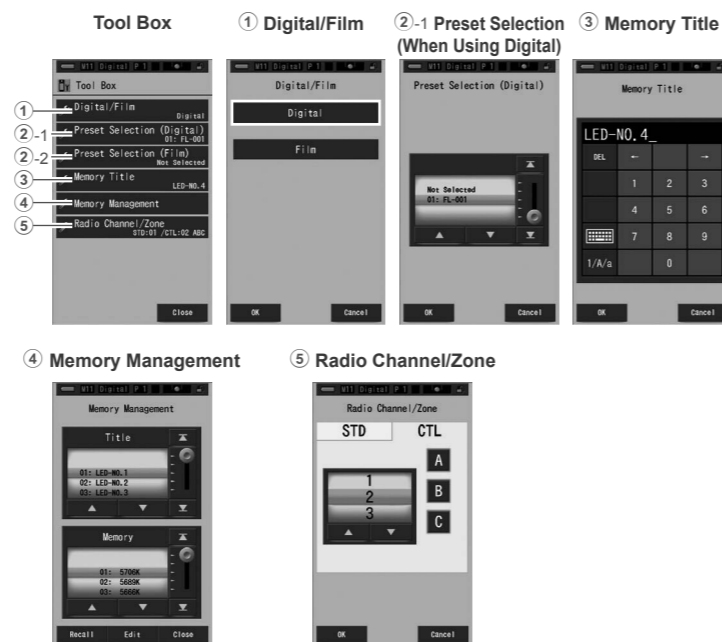| Measuring Mode	Icon	Description
Ambient Light Mode	☼	Measures continuous light such as sunlight, tungsten, fluorescent, LED lights.
Flash Light Cordless Mode	⚡	Detects flash brightness without meter-flash connection after Measuring Button pressed to arm meter for 90 seconds and flash fired separately. Measure by triggering a flash during the wait time.
Flash Light Cord (PC) Mode	⚡c	Detects flash brightness with PC (synchro) cord meter-flash connection.
Flash Light Radio Triggering Mode (only for C-700R model)	⚡ᵧ	Detects flash brightness without meter-flash connection after radio transmitted signal is received by radio-receiver connected flash.

6-2. Display Mode

Press Measuring Button ❺ to take a measurement in each Display Mode.
Press Memory Button ❼ to memorize measured value.

Text | Spectrum | Spectrum Comp.
CRI | Camera Filter | Lighting Filter
Multi Lights | WB Corr. | Setting
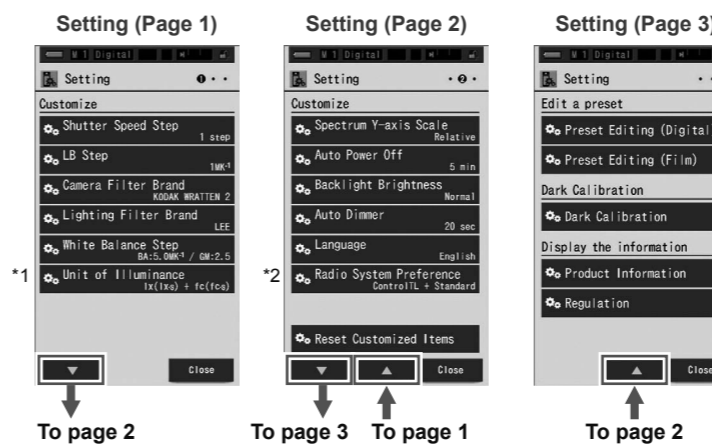
7. Functions

Touching the "Tool Box (🔧)" icon in any measurement screen shifts the display to the Tool Box screen where frequently used functions can be accessed.
Preset Selection will be grayed out and cannot be selected if no preset has been created in the Setting Mode.
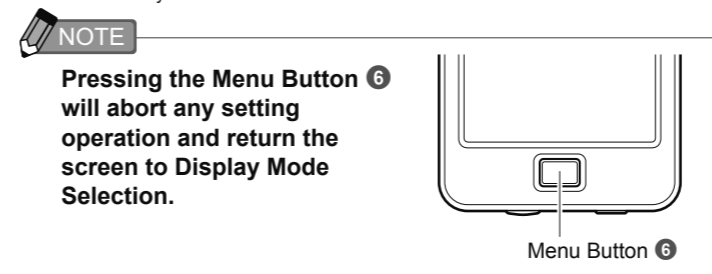

Tool Box
① Digital/Film
②-1 Preset Selection (Digital) (When Using Digital)
②-2 Preset Selection (Film)
③ Memory Title
④ Memory Management
⑤ Radio Channel/Zone

*Indicated only for C-700R model

8. Selection of Display Items

Touching the "Setting" icon in the Display Mode Selection screen shifts the display to the Setting screen. Here you can set functions and display methods required for measurement in advance.
Settings displayed are as follows.

Setting (Page 1) | Setting (Page 2) | Setting (Page 3)

*1 | *2

To page 2 | To page 3 | To page 1 | To page 2

*1: Models sold in some countries do not display "Unit of Illuminance" item due to "fc (fc·s)" legal restrictions.
*2: Indicated only for C-700R model.

📝 NOTE

Pressing the Menu Button ❻ will abort any setting operation and return the screen to Display Mode Selection.

Menu Button ❻

9. Type of Filter

When using camera's LB/CC filters based on the recommended compensation displayed in the meter (C-700 series), please note that the light entering the lens/camera will be less intense. If your camera doesn't have a Through the Lens (TTL) metering system, than use the chart below to determine the correct exposure compensation from the hand-held light meter's reading.
When you use a lighting filter, exposure compensation is not necessary.

■ Kodak WRATTEN 2/LEE Filter [Camera Filter]

Amber Type			Blue Type		
LB Index (MK⁻¹)	Filter Number	Exposure Increase Increment (+EV)	LB Index (MK⁻¹)	Filter Number	Exposure Increase Increment (+EV)
+9	81	1/3	-10	82	1/3
+18	81A	1/3	-21	82A	1/3
+27	81B	1/3	-32	82B	2/3
+35	81C	1/3	-45	82C	2/3
+42	81D	1/3	-56	80D	2/3
+52	81EF	2/3	-81	80C	1
+81	85C	1/3	-112	80B	1 2/3
+112	85	2/3	-131	80A	2
+131	85B	2/3			

Magenta Type			Green Type		
CC index	Filter Number	Exposure Increase Increment (+EV)	CC index	Filter Number	Exposure Increase Increment (+EV)
+1.0	CC025M	0	-1.0	CC025G	0
+2.0	CC05M	1/3	-2.0	CC05G	1/3
+4.0	CC10M	1/3	-4.0	CC10G	1/3
+8.0	CC20M	1/3	-8.0	CC20G	1/3
+12.0	CC30M	2/3	-12.0	CC30G	2/3
+16.0	CC40M	2/3	-16.0	CC40G	2/3
+20.0	CC50M	1	-20.0	CC50G	2/3

■ FUJIFILM Filter [Camera Filter]

Amber Type			Blue Type		
LB Index (MK⁻¹)	Filter Number	Exposure Increase Increment (+EV)	LB Index (MK⁻¹)	Filter Number	Exposure Increase Increment (+EV)
+10	LBA-1	0	-10	LBB-1	0
+20	LBA-2	1/3	-20	LBB-2	1/3
+30	LBA-3	1/3	-30	LBB-3	1/2
+40	LBA-4	1/3	-40	LBB-4	2/3
+60	LBA-6	2/3	-60	LBB-6	2/3
+80	LBA-8	2/3	-80	LBB-8	1
+120	LBA-12	2/3	-120	LBB-12	1 2/3
+160	LBA-16	1	-160	LBB-16	2
+200	LBA-20	1	-200	LBB-20	2 1/3

Magenta Type			Green Type		
CC index	Filter Number	Exposure Increase Increment (+EV)	CC index	Filter Number	Exposure Increase Increment (+EV)
+0.5	CC-1.25M	0	-0.5	CC-1.25G	0
+1.0	CC-2.5M	0	-1.0	CC-2.5G	0
+2.0	CC-5M	1/3	-2.0	CC-5G	1/4
+3.0	CC-7.5M	1/3	-3.0	CC-7.5G	1/3
+4.0	CC-10M	1/2	-4.0	CC-10G	1/3
+8.0	CC-20M	2/3	-8.0	CC-20G	1/2
+12.0	CC-30M	2/3	-12.0	CC-30G	2/3
+16.0	CC-40M	1	-16.0	CC-40G	2/3
+20.0	CC-50M	1 1/3	-20.0	CC-50G	1

■ LEE [Lighting Filter]

LB index (MK⁻¹)	Filter No.	Filter Name	CCT(K) Conversion
-18	L218	1/8 CTB	3200 to 3400
-35	L203	1/4 CTB	3200 to 3600
-78	L202	1/2 CTB	3200 to 4300
-113	L281	3/4 CTB	3200 to 5000
-137	L201	FULL CTB	3200 to 5700
-200	L283	ONE AND 1/2 CTB (1.5 CTB)	3200 to 8888
-274	L200	DOUBLE CTB	3200 to 26000
+26	L223	1/8 CTO	6500 to 5550
+64	L206	1/4 CTO	6500 to 4600
+109	L205	1/2 CTO	6500 to 3800
+124	L285	3/4 CTO	6500 to 3600
+159	L204	FULL CTO	6500 to 3200
+245	L286	ONE AND 1/2 CTO (1.5 CTO)	6500 to 2507
+312	L287	DOUBLE CTO	6500 to 2147

CC index	Filter No.	Filter Name	CC Filter Equivalent
-1.4	L278	1/8 PLUS GREEN (1/8 PLUS G)	CC 035 Green
-3.0	L246	1/4 PLUS GREEN (1/4 PLUS G)	CC 075 Green
-6.0	L245	1/2 PLUS GREEN (1/2 PLUS G)	CC 15 Green
-12.0	L244	FULL PLUS GREEN (PLUS GREEN)	CC 30 Green
+1.4	L279	1/8 MINUS GREEN	CC 035 Magenta
+3.0	L249	1/4 MINUS GREEN	CC 075 Magenta
+6.0	L248	1/2 MINUS GREEN	CC 15 Magenta
+12.0	L247	FULL MINUS GREEN	CC 30 Magenta

( ) Displayed in C-700/C-700R

■ ROSCO CINEGEL [Lighting Filter]

LB index (MK⁻¹)	Filter No.	Filter Name	CCT(K) Conversion
-12	R3216	1/8 CTB	3200 to 3300
-30	R3208	1/4 CTB	3200 to 3500
-49	R3206	1/3 CTB	3200 to 3800
-68	R3204	1/2 CTB	3200 to 4100
-100	R3203	3/4 CTB	3200 to 4700
-131	R3202	FULL CTB	3200 to 5500
-260	R3220	DOUBLE CTB	2800 to 10000
+20	R3410	1/8 CTO	5500 to 4900
+42	R3409	1/4 CTO	5500 to 4500
+81	R3408	1/2 CTO	5500 to 3800
+131	R3411	3/4 CTO	5500 to 3200
+167	R3407	FULL CTO	5500 to 2900
+320	R3420	DOUBLE CTO	10000 to 2400

CC index	Filter No.	Filter Name	CC Filter Equivalent
-1.4	R3317	1/8 PLUS GREEN (1/8 PLUS G)	CC 035 Green
-3.0	R3316	1/4 PLUS GREEN (1/4 PLUS G)	CC 075 Green
-6.0	R3315	1/2 PLUS GREEN (1/2 PLUS G)	CC 15 Green
-12.0	R3304	PLUS GREEN	CC 30 Green
+1.4	R3318	1/8 MINUS GREEN (1/8 MINUS G)	CC 035 Magenta
+3.0	R3314	1/4 MINUS GREEN (1/4 MINUS G)	CC 075 Magenta
+6.0	R3313	1/2 MINUS GREEN (1/2 MINUS G)	CC 15 Magenta
+9.0	R3309	3/4 MINUS GREEN (3/4 MINUS G)	CC 22.5 Magenta
+12.0	R3308	MINUS GREEN	CC 30 Magenta

( ) Displayed in C-700/C-700R

■ ROSCO E-COLOUR+ [Lighting Filter]

LB index (MK⁻¹)	Filter No.	Filter Name	CCT(K) Conversion
-18	E218	1/8 CTB	3200 to 3400
-35	E203	1/4 CTB	3200 to 3600
-78	E202	1/2 CTB	3200 to 4300
-113	E281	3/4 CTB	3200 to 5000
-137	E201	FULL CTB	3200 to 5700
-200	E283	ONE AND 1/2 CTB (1.5 CTB)	3200 to 8888
-274	E200	DOUBLE CTB	2800 to 10000
+26	E223	1/8 CTO	Daylight to 5300
+64	E206	1/4 CTO	Daylight to 4600
+109	E205	1/2 CTO	Daylight to 3800
+124	E285	3/4 CTO	Daylight to 3500
+159	E204	FULL CTO	Daylight to 3200
+245	E286	ONE AND 1/2 CTO (1.5 CTO)	Daylight to 2507
+312	E287	DOUBLE CTO	Daylight to 2120

CC index	Filter No.	Filter Name	CC Filter Equivalent
-1.4	E278	1/8 PLUS GREEN	CC 035 Green
-3.0	E246	1/4 PLUS GREEN	CC 075 Green
-6.0	E245	1/2 PLUS GREEN	CC 15 Green
-12.0	E244	FULL PLUS GREEN	CC 30 Green
+1.4	E279	1/8 MINUS GREEN	CC 035 Magenta
+3.0	E249	1/4 MINUS GREEN	CC 075 Magenta
+6.0	E248	1/2 MINUS GREEN	CC 15 Magenta
+12.0	E247	FULL MINUS GREEN	CC 30 Magenta

( ) Displayed in C-700/C-700R