

NEEWER®

Z2a

TTL Li-ion Camera Flash

Package Contents

Flash unit ×1

(8

USB power

cord ×1

1. Flash Body

Name of components

Instruction Manual

Lithium

Battery ×1

Protective

Case ×1

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Version Control

Name of components

① <TCM> One-touch Switching

② Type-C USB Upgrade Port

4 <MODE> Mode Selection/

⑤ < 🕻 >Test Flash Button/

⑥ Hot Shoe Fixing Button

Lock Button

① Display

3. LCD Panel

Flash exposure

High speed synd

synchronization (Page 11)

≨н

(Page 11)

Rear curtain

(1) E-TTL Autoflash

ETTL: E-TTL II Autoflash

· ¥H

⊕ OFF

(Page 08)

ETTL

® Function Button 1

9 Function Button 2

10 Function Button 3

11) Function Button 4

(§) Adjustment Knob

Zoom: zoom display

A: Automatic M: Manual

Focus length

(Page 23)

MZoom **105**

* The USB Type-C port is exclusively intended for flash firmware

upgrades and is not designed for charging purposes.

② < ← > Wireless Button

⅓ < **O** >Modeling Lamp

Power ON-OFF/Setting Button

2. Control Panel

EN

EN

Mini stand ×1

Manual ×1

Date	Version number	Description	Issued by
06/29/2023	1.0	TTL Li-ion Camera Flash Manual	NEEWER®

(Catalog)

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6. Modeling Lamp 7. Modeling Flash

Name of components

(2) M Manual Flash(Page 12)

S1/S2 → **S1**

⊋0Fl

(3) Multi Flash(Page 13)

1) Transmitter Unit

Multi

ZM/Fn S1/S2

M : Manual Flash

MZoom **105**

- Multi · Multi(Stroboscopic) flash

ZM/Fn Times Hz AF

(4) Wireless Transmission Shooting (Page 14)

Wireless Transmission Shooting

A TTL 0.0

C

group

• **B** M 1/128

□ TTL - 1.7

(v) GR 2 ± 0.3 = 1 Mzoom 105

ZM/Fn GR/Fec MODE SYNC

M Zoom 105

TX

CH:31

ID:99

AF (IIII)

⊕03

≨H

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Name of components

EN

Manual

output

Volume

level

of flashes

frequency

Master icon

Master Flash

Flash ON: 📭

Flash OFF:

EN

Foreword

flash features:

easier and faster.

receiver with a large radius.

with good even lighting.

Precautions

1. Always keep this product dry.

2. Keep this product out of reach of children.

3. Do not disassemble or modify the product.

temperature exceeds 50 degrees.

electromagnetic interference.

7. Do not use in the rain or in damp conditions.

visual impairment

4. Do not subject to any form of physical shock. The product

shouldn't be exposed to fire or an environment where the

5. Do not fire the flash directly into the eyes which could result in

6. Do not use the product near chemicals, flammable gases or other volatile substances which may cause fire or

8. Turn off the product immediately, if it appears to be operating abnormally, and try to troubleshoot the likely cause.

9. Failure to comply with the recommendations and warnings

listed in the manual will invalidate the warranty.

/FEC and other E-TTL II functions.

Thank you for your purchase of a **NEEWER**® product.

This Z2-C camera flash has been designed with the Canon EOS

series cameras in mind and is compatible with E-TTL II autoflash feature. Simplify your shoots with this E-TTL compatible flash which

allows the user to obtain the correct flash exposure even in more

complex environments with variable lighting levels. This camera

• Maximum flash power of 76Ws, 81 levels of dimming (1/1~1/256)

 \bullet 3000mAh Li-polymer battery with an autonomy of 600 flashes at

• Supports E-TTL auto flash, which can be used as the master or

• LCD screen for an intuitive display and easy operation.

• Firmware will be upgraded as the camera is updated.

slave unit of a wireless multi-lamp flash system - making shooting

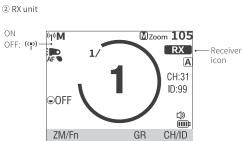
• Built-in 2.4GHz wireless transmission, Integrated transmitter and

Supports manual frequency flash mode, HSS/second curtain sync

• Stable output, High speed continuous flash and color temperature

full power, 1.5 seconds fast recharge.

EN



Battery

1. Features

① This flash unit uses Li-ion polymer battery which boasts a long service life and can be charged / discharged up to 500 times. ② Safe and reliable, the built-in circuit protects against overcharge,

2. Caution

- 1 Do not short circuit.
- ② Do not immerse the battery in water. ③ Keep the battery out of reach of children.
 ④ Do not exceed 24 hours of continuous charging.

overdischarge, overcurrent, and short circuit.

- ⑤ Store the battery in a dry, cool and ventilated environment. © Do not place the battery near or in a fire.

 ① Dead batteries should be disposed according to local regulations.
- ® If the battery isn't to be used for some time, please ensure it is charged at least every 3 months.
- 3. Inserting and Removing the Battery



① Removing the battery Slide the button in the direction shown to remove the battery.

(3) Press Set Button again to

confirm the setting. The

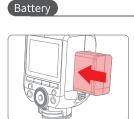
FEC and FEB settings are

① Lithium Battery

3 Hot Shoe Base

(4) Flash Head

② Battery Release Button



② Inserting the battery Insert the lithium battery into the battery compartment in the direction indicated by the battery until the fastener snaps into place.

EN

EN

⑤ Wireless Sensor

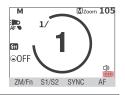
6 Modeling Lamp

7 Focus Assist Lamp

4. Battery Level Indicator

Make sure the battery is securely inserted in the flash. Check the battery level indication on the LCD panel to see the remaining battery level.

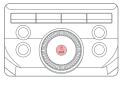
Battery Level



Indicates		
Full		
Medium		
Low		
Very low		
Low battery. Please charge as soon as possible		
Battery is about to run out. The flash will no longer work.		
Please recharge the battery as soon as possible (within 10 days). the battery can then be used or stored for a long period.		

Power Management

Use ON/OFF Power Switch to power the flash unit on or off. Please $\,$ turn off the power if the flash won't be used for a long period. When setting as a transmitter (TX) flash, the flash will turn the power off automatically after a certain period (approx. 90 seconds) of inactivity. Pressing the camera shutter halfway or pressing any flash button will wake up the flash unit. When setting as a receiver (RX) flash, it will enter sleep mode after a certain period (adjustable, 60 minutes by default) of idle use. Pressing any flash button will



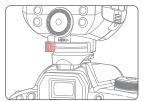
Press and hold the power button for 2s to turn the flash on/off.

(Power Management)

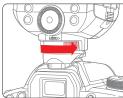
Note: $\ensuremath{ \textcircled{\scriptsize 1}}$ When used off the camera, it is recommended that you customize the function to disable "automatic power off". ② Receiver Auto Power Off Timer is set to 60 minutes by default. A 30 minute timer can also be applied.

ZM/Fn FEB SYNC

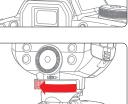
Mount / Unmount flash



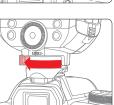
1. Mount the Camera Flash Turn the locking ring to the left to fully insert the camera's hot shoe.



2. Secure the Camera Flash



Rotate the locking ring to the right until secure



3. Unmount the Camera Press the button and rotate the hotshoe locking ring to the left to loosen.

Flash Mode: E-TTL Autoflash

(Stroboscopic). In E-TTL mode, the camera's metering system detects flash illumination reflected from the subject and automatically adjusts the flash output to balance the exposure of the subject and background. Flash Exposure compensation (FEC), flash exposure bracketing (FEB), high-speed sync (HSS), second-curtain shutter sync, flash exposure lock (FEL), aperture preview shadow flash, and Canon camera menu access are

This flash has three flash modes: E-TTL, Manual (M), and Multi

※ Press < MODE > Mode Selection Button. The three flash modes will display on the LCD panel in a cycle.

Flash Mode: E-TTL Autoflash

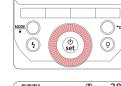
1. E-TTL Mode

Press < MODE > Mode Selection Button to enter E-TTL mode ① Press the camera release button halfway to focus.

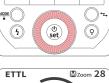
② A pre-flash is fired moments before the shutter is released, and the flash receives camera information for the main flash.

2. FEC(Flash Exposure Compensation)

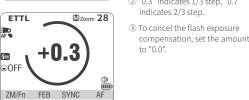
In FEC mode, the flash can adjust flash exposure compensation in 1/3-stop increments between ± 3 stops. This feature is useful when the TTL system needs to be fine-tuned to accommodate the shooting environment.



Set the flash exposure compensation amount



① Turn the Select Dial to set the ② "0.3" indicates 1/3 step, "0.7"

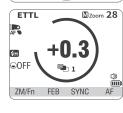


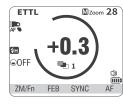
3. FEB(Flash Exposure Bracketing) FEB(Flash surround Exposure) automatically changes the flash

output in 1/3rd stops from -3 to +3. When using this function, the camera will record three photos with different flash outputs (correct exposure, underexposure, and overexposure). This function helps obtain correct exposure which is key when shooting moving objects or when environmental lighting is more complex



(1) Press function button 2 <FEB> so that the screen displays the < 🖦 > icon and the FEB amount will be highlighted on the LCD panel.





(2) Set the flash exposure

compensation amount ① Turn the Select Dial to set the FEB amount. ② "0.3" equates to 1/3 step, "0.7" equates to 2/3 step.

09

10

④ Each time the <FEL> button is pressed, a preflash will be fired and a new flash exposure setting will be locked.

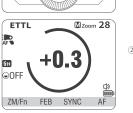
Flash Exposure Lock (FEL) function again. * Flash exposure lock cannot be set if <ETTL> is not displayed on

Flash Mode: E-TTL Autoflash 5. HSS: High Speed Sync

High Speed Sync (FP flash) enables the flash to synchronize with all camera shutter speeds. This is convenient when you want to use aperture priority for fill-flash portraits.



① Press Function Button 3 < SYNC > so that < \$H > displays.



② Check that < 🗱 > is displayed in the viewfinder.

maximum flash sync speed, < \$\forall H > will not appear in the * With high-speed sync, the faster the shutter speed, the shorter

 * If the shutter speed is set to equal or slower than the camera's

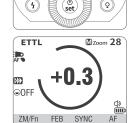
* To return to normal flash, press < SYNC > button again. Then < ≰H >will disappear.

* Multi flash mode cannot be set in high-speed sync mode.

* Over-temperature protection may be activated after 30

consecutive high-speed sync flashes. ______

With a slow shutter speed, you can create a trail of light following the subject. The flash fires right before the shutter closes. Press Function Button 3



6. Second-Curtain Sync

displays.

< SYNC > so that < 💓 >

M: Manual Flash

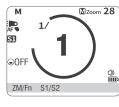
EN

power in 1/10th stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.

The flash output is adjustable from 1/1 full power to 1/256th



① Press <MODE> button so that <M> is displayed.



* S2 Optical control unit setting

② Turn the Select Dial to set the flash output rating.

Press function button 2 to adjust the S1/S2 mode * S1 Optical control unit setting

In M manual flash mode, the S1 function can be used and the flash unit can function as an optical secondary flash. It will fire synchronously when the main flash fires, the same effect as that obtained by the use of radio triggers. This helps the photographer create multiple lighting effects.

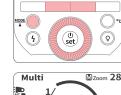
response to the second flash from the main unit. Note: S1 and S2 optical triggering is only available in M manual flash

In M manual flash mode, the S2 function can be used and the flash

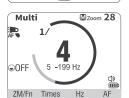
unit can function as an optical S2 secondary flash. In this mode, it will ignore the pre-flash emitted by the TTL flash and will only fire in

Multi: Stroboscopic Flash The term stroboscopic flash relates to a rapid series of flashes being

fired. It can be used to capture multiple images of a moving subject in a single photograph. You can set the firing frequency (number of flashes per sec. expressed as Hz), the number of flashes, and the flash output



(1) Press the <MODE> button so that <MULTI > displays.



(2) Set the flash frequency and the number of flashes. ① Press the Function Button 2

to set the value. (3) Turn the adjustment knob to

<Times> to select the number of flashes. Turn the Select Dial ② Press the Function Button 3 <Hz> to select the flash frequency. Turn the Select Dial

set the flash output power.

Calculating the Shutter Speed: During a stroboscopic flash, the shutter remains open until the firing

against a dark background.

stops. Use the formula below to calculate the shutter speed and set Number of Flashes / Flash Frequency = Shutter Speed

For example, if the number of flashes is 10 and the firing frequency is 5 Hz, the shutter speed should be at least 2 seconds. * To avoid overheating and deterioration of the flash head, do not use the stroboscopic flash more than 10 times in succession. After

 $10\,\mathrm{times},$ allow the camera flash to rest for at least $15\,\mathrm{minutes}.$ If you try to use the stroboscopic flash more than 10 times in succession, the flash may stop flashing automatically. This is to protect the flash head. Should this happen, please allow the camera to rest for 15 minutes.

* Stroboscopic flash is most effective with a highly reflective subject

* It is recommended to use a tripod and a remote control. * A flash output of 1/1 and 1/2 cannot be set for stroboscopic flash mode.

* Stroboscopic flashes can be used with the "buLb" function.

* If the flash count is displayed as --, the flash will fire continuously until the shutter release or the battery is exhausted. The number of flashes will be limited as shown in the table below.

flash is ready before shooting.

* FEB can be used with FEC and FEL



「Flash Mode: E-TTL Autoflash)

* The Flash bracketing function will stop after taking three shots. This can be kept enabled in the camera customization menu settings.

4. FEL: Flash Exposure Lock

With <ETTL> displayed on the LCD panel, press the camera's <FEL> button. If the camera does not have the <FEL> button,

1) Aim the center of the

viewfinder at the subject, and then press the<FEL>

press the < * > button (1) Bring the subject into focus (2) Press the <FEL> button

 $\ensuremath{\mathsf{FEL}}$ can lock the correct flash exposure setting for any part of the

② The camera flash will fire a preflash and the required flash output for the subject is memorized. 3 "FEL" will show in the viewfinder for 0.5 seconds

* If the subject is too far away and underexposured, the < \$> icon will flash in the viewfinder. Please approach the subject and try

* Flash exposure lock may not work effectively if the subject is too

Multi: Stroboscopic Flash

Maximum number of strobe flashes

output Hz	1	2	3	4	5	6-7	8-9
1/4	8	6	4	3	3	2	2
1/8	14	14	12	10	8	6	5
1/16	30	30	30	20	20	20	10
1/32	60	60	60	50	50	40	30
1/64	90	90	90	80	80	70	60
1/128	100	100	100	100	100	90	80
1/256	100	100	100	100	100	90	80

Flash output	Hz	10	11	12-14	15-19	20-50	60-199
1/4		2	2	2	2	2	2
1/8		4	4	4	4	4	4
1/16		8	8	8	8	8	8
1/32		20	20	20	18	16	12
1/64		50	40	40	35	30	20
1/128		70	70	60	50	40	40
1/256		70	70	60	50	40	40

Wireless Flash Shooting: Wireless (2.4G) Transmission

* When the camera's shooting mode is set to a fully automatic mode or an Image Zone mode, the operations explored in this chapter are not available. Please set the camera's shooting mode to P/Tv/Av/M/B (Creative Zone Mode).

Using a flash (transmitter/receiver) with a radio transmission wireless shooting function make it easy to shoot with advanced wireless multiple flash lighting, in the same way as E-TTL II autoflash

and a Z2-C that is wirelessly controlled is called the receiver unit.

shooting.The basic relative position and operation range are as shown in the picture. You can then perform wireless E-TTL II autoflash shooting by setting the transmitter unit to <ETTL>. Positioning and Operation Range (Example of wireless flash

Autoflash Shooting with One Receiver Unit

shooting):

* The Z2-C attached to the camera is called the transmitter unit.

* Use the supplied mini stand to position the Receiver unit.

* Perform a test flash and test shot before shooting.

* The transmission distance might be shorter depending on the conditions such as the positioning of the Receiver units, the surrounding environment and weather conditions.

Wireless Multiple Flash Shooting

You can split the RX unit into two or three groups and shoot E-TTL II Auto Flash while changing the flash ratio (focus). In addition, each flash group (up to four groups) can be set and shot with different flash modes.

① Auto flash shooting with two RX groups.



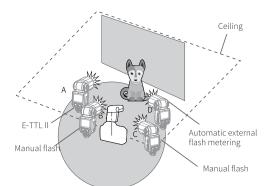
② Auto flash Shooting with three RX groups





3 Shooting with a Different Flash Mode set for Each Group

Wireless Flash Shooting: Wireless (2.4G) Transmission

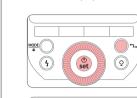


 * The flash mode Settings shown above are only used as examples.

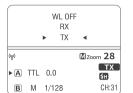
1. Wireless Settings

You can switch between normal flash and wireless flash. For normal flash, be sure to set wireless Settings to "off".

Transmitter (TX) Unit Setting

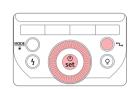


1) Press the < > wireless setting button and turn the adjustment knob to select



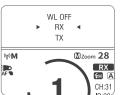
② Press the Setup button to confirm. The screen will display the symbols < ((۱) >

Receiver (RX) Unit Setting



① Press the < ★ > wireless setting button and turn the adjustment knob to select

Wireless Flash Shooting: Wireless (2.4G) Transmission

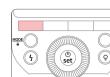


2 Press the Setup button to confirm. The screen will display the symbols < ((1)) > and < RX

- EN

2. Turn off TX unit flash

When the Transmitter (TX) unit is set to OFF, only the Receiver (RX) units will fire a flash.



 ${ ext{ iny Long press function button 1}}$ <ZM/Fn> to enter custom <TX> setting ② Set Transmitter to ON/OFF to control the On/Off of the

Transmitter unit.

	WILLIAM TO THE PARTY OF THE PAR	
•	MENU	V1.0.16
ID		ON
BEEP		OFF
FFR ACI		ON

DIST

AF

STBY

SCAN

RX STBY

disabled, it will still fire a preflash in order to transmit vireless signals.

* Even if the master unit is **√** OFF

* After adjusting the settings, press function button 1 to exit ______

3. Setting the communication channel

If there is more than one wireless flash system nearby, you can change the communication channel to prevent signal interference. Ensure that the channel of the transmitter and receiver units are

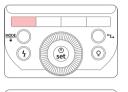
ON

OFF

60min

OFF

√ 08 ▶



① Long press function button 1 < ZM/Fn> to enter custom CH settings.

② In Custom CH settings screen, turn the Select Dial to choose a channel from 1 to 32. MENU V1.0.16

> * After setting, press function button 1 to exit

must have the same wireless ID, channel and group before the flashes can be fired wirelessly. Using Automatic Wireless Flash with a Single Receiver Unit.



Pressing function buttons 2 or 3 will set the mode to TTL.

ZM/Fn GR/Fec MODE SYNC

Wireless Flash Shooting: Wireless (2.4G) Transmission

In addition to changing the wireless communication channel to avoid signal interference, you can also change the wireless ID to

prevent interference. Set the channel and the wireless ID of the

transmitter unit and the receiver unit to the same values. Go to

MENU V1.0.16

5. Scan for a free, unused channel

MENU V1.0.16

ON

OFF

60min ∢START►

08

6. ETTL: Automatic wireless flash photography

Note: The transmitter (TX) unit and the receiver (RX) unit

■ ON ►

OFF

ON

OFF

100M

To avoid the issue of interference by using the same channel(s)

and find the SCAN option. When setting it to START, it will scan $\,$

already in use by others, use this function: enter the C.Fn settings

from 1% to 100%. The 8 spare channels will be displayed after the

C.Fn ID and choose wireless ID from 01 to 99. Select OFF to disable

After setting, press function

* After setting, press function

button 1 to exit.

4. Wireless ID Settings

BEEP

DIST

AF

CH

STBY

RX STBY

FEB ACI

Master Control Unit: 1) Press Function Button 2

<GR/Fec> to select the group, and then press Function Button 3 < MODE> to choose the TTL option

2 Rotate knob to set exposure compensation for selected group

- EN

C

Wireless Flash Shooting: Wireless (2.4G) Transmission EN



Press and hold function button 2 <GR/Fec>, then turn knob to set exposure compensation for



(1) Transmitter Unit Setting

① Attach a camera Z2-C flash on the camera and set it as the transmitter unit. Set it to ON to flash.(Page 17)

② A signal transmitter can also be used as the TX control unit. The transmitter can control the ZOOM value of the Z2-C, but the ZOOM must be set to auto $\begin{tabular}{ll} {\bf A} & {\bf mode}. \end{tabular}$

(2) Receiver Unit Setting Mount the 72-C camera flash as the wireless Receiver Unit.

(3) Check the communication channel Set the channel of the Transmitter unit and Receiver unit to the same values. Set the Transmitter unit channel(page 17). The Receiver unit can be set to press the function button 3/4(corresponding Gr/CH) to adjust the group channel.

(4) Position the camera and flashes

Position the camera and flashes as indicated by the picture. (Page 15)

(5) Check if the flash is ready ① Check that the Transmitter flash ready indicator is lit

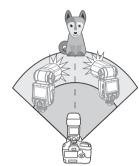
2 When the Receiver flash ready indicator is ready, the AF-assist beam lighting area will flash at 1 second intervals.

(6) Check the flash operation

① Press the Transmitter unit's Test Button < 4 >. ② The Receiver unit should then flash. If it doesn't, check the receiver is placed within the operating range.

Wireless Flash Shooting: Wireless (2.4G) Transmission EN Using Automatic Wireless Flash with Multiple

Receiver (RX) Units



When a larger flash output is required, you can increase the number of RX units and flash them as a single flash.

To add receiver (RX) units, use the same steps as setting "automatic wireless flash with a single Receiver unit " . Any flash group can be set (A/B/C/

When the number of RX units is increased or the TX flash is setto ON, automatic control ensures that all flashes fire at the same flash output so that the total flash output meets the

* Press the depth-of-field preview button on the camera to fire a

 * If the auto power off of the RX unit has kicked in, press the test button on the TX unit to trigger a flash button enables the RX unit. Please note that the flash cannot be tested during the

camera's metering time. * It is possible to modifiy the amount of time before the RX unit automatically powers off.

* It is also possible to set so that the autofocus assist transmitter. does not flash when the RX unit has finished powering up.

Using a fully automatic wireless flash

The flash exposure compensation (FEC) and other settings set on the TX unit are also set automatically in the RX unit. Operation of the RX unit is not required. The following settings can be used for shooting with no line flash in the same way as for normal flash shooting.

1) Flash Exposure Compensation 2 Manual Flash ③ Flash Exposure Lock Stroboscopic Flash

About Transmitter Unit

Two or more TX units can be used. By configuring multiple cameras with TX units, you can change the cameras used for shooting while maintaining the same lighting (RX units).

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- EN

Wireless Flash Shooting: Wireless (2.4G) Transmission

7. M: Manual Wireless Flash Shooting

Shooting with manual flash with no line (multi-flash) allows you to set different flash outputs for each RX unit (flash group) for shooting. All parameters need to be set on the TX control unit



■ TTL - 1.7

and then press Function Button 3 < MODE > to choose the M option. ② Rotate the adjustment knob to adjust the flash output for the

① Press Function Button 2

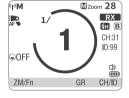
<GR/Fec> to select the group,

flash group, and press the Setting button to confirm. ③ Taking pictures. Each group fired at the set flash ratio.

AF D ZM/Fn GR/Fec MODE SYNC Press and hold function button 2 <GR/Fec>, then turn knob to set

exposure compensation for all groups Setting <M> Flash Mode

You can directly operate the Receiver unit to manually set the manual flash or stroboscopic flash.



(1) Setting the Receiver unit. (2) Setting flash mode to <M>. ① Press <MODE> button so that <M> displays. ② Set the manual flash output.

8. Multi: Wireless Flash Shooting with Manual Flash

RX ≨H B

ID:99



2 - 14 Hz

ZM/Fn X/Hz GR CH/ID

(r)Multi

1/

To set the <MULTI> strobe mode. ① In the main control screen mode, press the <MODE>

mode selection button to display < MULTI>. ② Set the strobe flash setting in the main control screer

mode. In receiver unit mode, press the <MODE> button to display <MULTI>.

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Troubleshooting: 2.4G wireless flash misfiring EN

- 1. Interference of the 2.4g signal resulting from external factors (such as a wireless hub, 2.4G Wi-Fi routing, Bluetooth equipment,
- ightarrow Please adjust the channel CH setting of the transmitter(+10 is recommended) to find a channel without interference, or turn off other 2.4G devices in close proximity whilst working.
- 2. Please ensure that the flash is fully recycled, the flash ready indicator is on and that the overheat protection feature hasn't been triggered. ightarrow Please lower the flash setting by changing to manual mode (M)
- If the device is in TTL mode, you need to fire a preflash) 3. Please check whether the flash detector and the receiving device
- are running low on power → Please replace the batteries (1.5V disposable alkaline batteries

are recommended for the flash receiver battery)

Other Applications

2. Auto Focus Assist Beam

1. Sync Triggering The Sync Cord Jack is a Φ2.5mm connector. Insert a trigger plug

here and the flash will be fired in sync with the camera shutte

In low-brightness or low-contrast shooting situations, the flash's

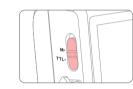
built-in autofocus assist lamp turns on to make autofocusing easier. When focusing is difficult, the red autofocus assist light comes on. To turn off the autofocus function, set "AF" to "OFF" in C.En.

 $^{\star}\,$ If the user finds that the assisted focus light is not on when using

it, it is because the camera is already accurately focused. Operating range

0.6-10m / 2.0-32.8 feet Center 0.6-5m / 2.0-16.4 feet Periphery

3. TCM - One key switching E-TTL/M mode:

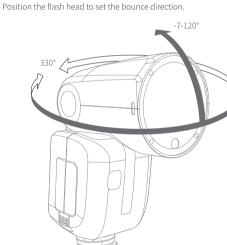


Utilize E-TTL auto mode for quick metering while retaining metering data, and seamlessly switch to manual mode for precise adjustments

Toggle the TCM button to 'M' for one-touch switching.

Other Applications

4. Bounce Flash By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot. This is commonly known as a 'bounce flash'.

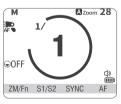


 * If the wall or ceiling is too far away, the bounced flash might be too weak and result in underexposu

* The wall or ceiling should be a plain, white color for high reflectance. If the bounce surface isn't white it will result in "off color" photos

5. ZOOM: Set the flash coverage

The flash coverage can be set automatically or manually. It can be set to match the lens focal length from 28mm to 105mm. In auto zoom, the focal length changes with the camera's zoom lens to provide the best flash effect.



When performing a manual zoom, short press function

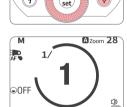
1 Turn the Select Dial to change the flash coverage. coverage will be set

 * If you set the flash coverage manually, make sure it covers the lens focal length so that the picture will not have a dark periphery.

Other Applications



Switching on the Modeling Lamp 1) Short press the modeling



lamp button < Q >. ② Rotate the adjustment knob to set the modeling lamp brightness level from 01 to 10.

to confirm the selection * Long press the styling light button< \mathbf{Q} >, then rotate the adjustment knob to switch ZM/Fn S1/S2 SYNC AF between styling lights< ♥ > and styling lights < ⊕>

7. Modeling Flash

If your camera has a depth-of-field preview button, pressing it activates a 1-second continuous flash, known as modeling flash. This feature helps you observe the effect of the light and shadow on your subject and evaluate the illumination balance, whether

 * Avoid triggering the modeling flash more than 10 times in quick succession. If you've performed 10 consecutive modeling flashes, please allow the flash to cool down for at least 10 minutes to prevent overheating or damage to the flash head.

* Please note that modeling flash is not supported on EOS 300 and

C.Fn: Setting Custom Functions

you're using wireless or standard flash



- 1. Long press the function button 1 < ZM/Fn> to access the customized menu. 2. Rotate the adjustment knob to choose a parameter
- MENU V1.0.16 OFF

ON

OFF

100M

FEB ACL

TX

DIST

adjustment mode. 4. Rotate the adjustment knob to modify the parameter. 5. Press the Setting button again to confirm the parameter. 6. Short press function button 1 to exit.

Canon EOS cameras (E-TTL II autoflash)

3. Press the Setting button to

enter the parameter

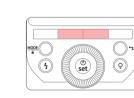
following chart.

C.Fn: Setting Custom Functions

EN Use the Customize function to complete settings according to the

Symbols	Function	Setting No.	Instructions
		ON	on
AF	AF-assist beam	OFF	off
CTDV		ON	on
STBY	Auto sleep setting	OFF	off
		60min	60min
RX STBY	Receiver auto power off timer	30min	30min
		OFF	off
	Scan for	OFF	off
SCAN	idle channels	START	Start search for idle channel
СН	Channel setting	01~32	Choose a channel from 01-32
	Wireless ID	OFF	off
ID		01-99	Choose any figure from 01-99
BEEP		ON	on
	Beeper	OFF	off
EED ACL		ON	on
FEB ACL	FEB auto cancel	OFF	off
T14	Transmitter	OFF	off
TX	unit control	ON	on
DICT	Flash distance	1-100M	1-100M flash
DIST		0-10M	0-10M flash
LIGHT	Madeling Lag	©	Top Modeling Lamp
MODE	Modeling Lamp	9	Bottom Modeling Lamp
MODEL	Modeling Lamp	CONT	Modeling Light Continuous
MODEL		INTER	Modeling light interrupted

Restore factory settings



1) Press and hold both Function buttons 2 and 3 simultaneously.



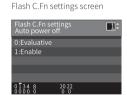
RESET

② "RESET" will appear on the screen to indicate that the factory settings have been

Control using the Camera's Menu Screen

- Mount the flash directly onto the Canon EOS camera to control the flash using the camera's menu screen. Please refer to the camera
- instructions for details. 1. Setting Camera Flash Functions
- The following flash functions are can be set according to different flash modes 1) Flash mode
- ② Shutter sync
- ③ FEB 4 FEC (5) Flash firing
- 6 Clear camera flash settings 2. Custom Functions of Camera Flash C.Fn-00, C.Fn-01, C.Fn-03, C.Fn-04, C.Fn-08, C.Fn-20,





* Screen view taken from the EOS-1D Mark III.

the flash, the last applied settings will be used.

* If flash exposure compensation has already been set using the

camera flash, flash exposure compensation cannot be set with the camera. To set it with the camera, the camera flash's flash exposure compensation must be set to "0". * If any Flash Custom Functions and flash settings, other than flash exposure compensation, have been set by both the camera and

Protection Function

1. Over-Temperature Protection

 $\ensuremath{\textcircled{1}}$ To prevent the flash head from deteriorating and overheating, it is recommended not to fire more than 30 continuous flashes in fast succession at 1/1 full power. After 30 continuous flashes, pause the use of the flash for at least 10 minutes. ② If you fire more than 30 continuous flashes and then fire more flashes in short intervals, the inner over-temperature protection

function may be activated. The recycling time will be longer

(over 10s). If this occurs, the use of the device should be paused

for at least 10 minutes for the flash unit to operate as normal. Number of flashes that will activate over-temperature protection:

Power	Number of Flashes			
1/1	30			
1/2 +0.7	40			
1/2 +0.3	50			
1/2	60			
1/4(+0.3,+0.7)	100			
1/8(+0.3,+0.7)	200			
1/16(+0.3,+0.7)	300			
1/32(+0.3,+0.7)	500			
1/64(+0.3,+0.7)				
1/128(+0.3,+0.7)	1000			
1/256(+0.3,+0.7)	1			

* The system provides real-time protection to secure the device and your safety. The following lists prompts for your reference:

Prompts on

	LCD Panel	Indicates			
	E1	A fault has developed with the flash's recycle system so that the flash cannot fire. Please restart the flash unit. If the problem still exists, please send this product to a maintenance center			
	нот	The flash will disable when the temperature inside the unit is too high in which case you should stop using the flash for 10 minutes.			

Technical Data

Compatible Cameras

Sync Triggering Mod

Power

Color Temperature

Volume

Net weight without battery

Operating Temperatur

Power(1/1 output)		76Ws				
		28 -105 mm				
Flack Courses		Auto zoom 、Manual zoom				
Flash Coverage		Swinging/tilting flash head (bounce flash): 0 to 330° horizontally and -7° to 120° vertically				
Flash Duration		1/180 to 1/20000 seconds				
	Е	Exposure Control				
Exposure control system	m E	E-TTL II autoflash and manual flash				
Flash exposure compensation (FEC)		al. FEB: ±3 stops in 1/3 stop increments al FEC and FEB can be combined.)				
Flash exposure lock (FE	L)	Use <fel> button or< * > button</fel>				
Sync mode		n-speed sync (up to 1/8000 seconds), -curtain sync, and second-curtain sync				
Multi flash		Autonomy(up to 100 times, 199Hz)				
W	ireless flash	r (radio 2.4G transmission)				
Wireless flash function	1	Transmitter, Receiver, Off				
Transmitter groups		A, B, C, D				
Controllable Receiver groups		A, B, C, D, E (E group can be controlled by QPRO series flash trigger available on Neewer.com)				
Transmission range (a	approx.)	100m				
Channels		32 Groups:01~32				
ID		01~99				
Frequency Range		2412.75MHz-2464.25MHz				
Maximum radio-freque	ency power	5.30dBm				
Modeling Flash	Using tl	he camera's depth-of-field preview button				
	Auto	Focus Assist Beam				
Effective range (approx	:.)	Center: 0.6~10m / Periphery: 0.6~5m				
		Power source				
Built-in Li-ion battery 7.2V/3000mAh Li-ion batte		7.2V/3000mAh Li-ion battery				
Recycle time		prox 1.5 seconds. Red LED indicator I light up when the flash is ready.				
Number of flash in full power		Approx. 600				
Energy-saving	Auto Power off after approx. 90 seconds of					

idle operation, (60 minutes if set as Receiver)

Hotshoe, 2.5mm sync line

2W

3300K±200K

76*76*206 mm

460g 580g

0°C ~ 40°C

Modeling Lamp

Troubleshooting)

→Clean the contacts.

If you experience a problem with the device, please refer to this Troubleshooting Guide 1. The Camera Flash does not fire

① The camera flash is not attached securely to the camera. →Attach the hot shoe base mount of the flash securely to the ② The electrical contacts of the camera flash and camera are dirty.

→Wait until the flash is fully recycled and the flash ready indicator lights up. \rightarrow If the flash ready indicator lights up, but < \$ > or < \$\frac{\$\pm\$}{\$\mu\$} > is not displayed in the view finder, check whether this flash unit is securely attached to the camera hotshoe.

→If the flash ready indicator does not light up after a long period of time, check whether the battery power is sufficient. If the battery is low (low battery voltage icon flashes on the flash screen), please

3 < > or < > is not displayed in the viewfinder of camera.

2. Auto power off ① After 90 seconds of idle operation, auto power off will have

displayed.

3 Use Manual Flash mode.

subject are illuminated.

replace the battery immediately.

→Press any flash button to wake up.

3. Auto zoom does not work.

→Press the shutter button halfway or press any flash button to wake ② After 60 minutes (or 30 minutes) of idle operation, the flash unit will enter sleep mode if it is set as Receiver (Slave).

activated if the flash is set as Transmitter (Master)

→Attach the camera flash's mounting base to the camera. 4. The flash exposure is underexposed or overexposed.

1) There was a highly reflective object (e.g. glass window) in the

The camera flash is not attached securely to the camera.

picture. →Use FE lock (FEL). 2 You used high-speed sync. →With high-speed sync, the effective flash range will be shorter.

Make sure the subject is within the effective flash range

→Set the flash mode to ETTL or modify the flash output.

The focal length of lens exceeds the flash coverage →Check the focal length that has been set. This flash unit has the flash coverage between 28 and 105mm, which fits mediumformat cameras.

5. Photos have dark corners or only parts of the target

Firmware upgrade

EN

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EN

The firmware of this product can be upgraded through the USB port. The latest software announcements and instructions will be published on the official website.

 $\ensuremath{\mbox{\%}}$ This product does not come with a USB cable for the firmware upgrade. Please purchase separately. The USB port of this product is a Type-C port. Please use only a USB Type-C cable.

* Upgrading the firmware requires Neewer Firmware software support. Please download and install "Neewer Firmware Update", and then select the corresponding firmware file before * As the product is undergoing a firmware upgrade, please refer

to the latest electronic version of the manual.

The item is compatible with following Canon camera models:

Compatible Cameras

R R3 R5 M6 6D 7D R6 60D 50D 70D 80D 90D 1DX 450D 500D 550D 600D 650D 850D 1100D 3000D

750D/T6i 1DMark III 5D Mark III 5D Mark IV R8 6DMark II 760D/T6s 800D/T7i 7DMark II77D/9000D 77D/9000D 1500D/2000D/T7 200D II/250D/SL3 R5C R7 R10