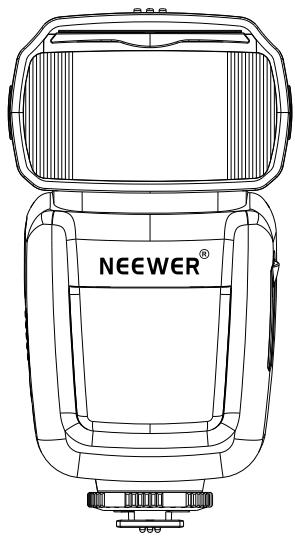


# NEEWER®

## NW655 Set-top flash

### Canon User Manual



#### Thank you for purchasing this product

Before use, please read this user manual carefully in order to ensure your safety. Keep it properly for reference in future.

#### Preface

The roof flash models applicable to the Canon EOS series camera, compatible with E-TTL II automatic flash. Use E-TTL flash light, you will get more simple shooting experience, under the condition of complex changes in light and can automatically obtain accurate flash exposure, shooting at ease. The product features outstanding performance in the following respects:

- GN60 (ISO 100, ZOOM 200mm), 22 dimming level (1/1~1/128)
- Compatible with Canon E-TTL II
- Support E-TTL flash automatically, can be used as a wireless multiple lights flash system master or slave unit, shooting is more simple and quick.

#### Broken code LCD screen

Direct display, easy to operate  
• Built-in 2.4 G wireless transmission  
Transceiver, capable, creative  
• Wireless remote control power trigger  
Q-C trigger can be purchased separately to achieve wireless TTL control flash (not included)

#### Function is all ready, enjoy unlimited

Support manual and frequency flash mode, high-speed sync/second curtain sync/such as flash exposure compensation function of E-TTL II.  
The flash, even every time the output brightness and color temperature consistent (5600±200K), the light evenly distributed

#### WARNING

1. Please stay dry.  
2. Please do not disassemble the product without permission, such as product failure by the company or authorized maintenance personnel for inspection maintenance.

3. Please do not let children touch this product.  
4. It is prohibited to remove the, impact, extrusion or into the fire, if severe ballooning, please do not continue to use. Please do not put in more than 50 degrees of high temperature environment.

5. Do not use flash head is the eye flash (especially the baby's eyes), otherwise it may cause visual impairment in a short period of time.

6. Please do not in the vicinity of chemicals, combustible gas or other special material use flash light, these substances under special circumstances may be sensitive to the instant of the flash light, could lead to fire or electromagnetic interference. In these cases, please pay attention to relevant warning labels.

7. This product is not waterproof, please pay attention to waterproof and damp environment in rainy day.

8. In case of any trouble, please turn off your flash power immediately.

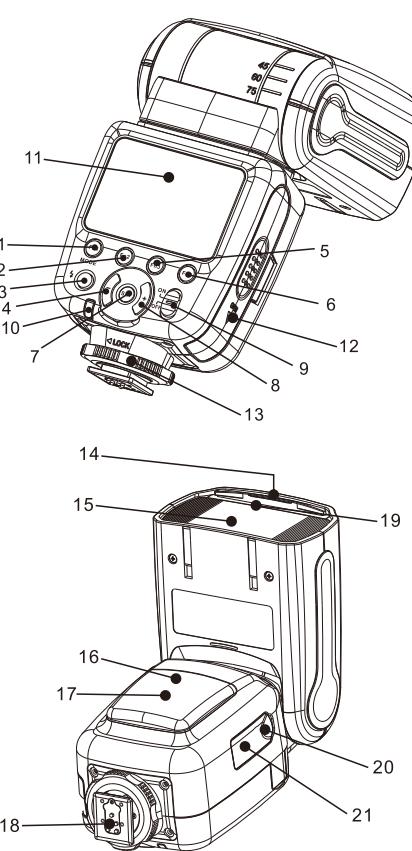
#### Standard items

- 1. Lamp body 2. Micro base 3. Protect the package 4. Instruction manual
- Specifications used in the following warning signs:

▲ The "carefully" warning symbol to avoid shooting problems.

■ The "notice" to provide supplementary information symbols.

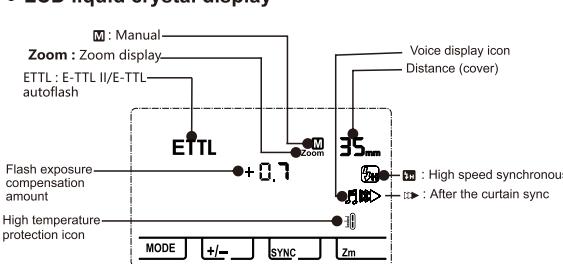
#### Component Name



#### Control Panel

- 1. <MODE> Flash mode button/function button 1
- 2. Function button 2 3. < > Test button 4. Function left button
- 5. Function button 3 6. Function button 4 7. <SET> set button
- 8. Function right button 9. ON/OFF power switch 10. Return indicator lamp 11. Display 12. Battery compartments 13. Fixed knob 14. Eye plate 15. Flash head 16. Slave units status indicators 17. Auxiliary focus light 18. Hot shoe 19. Built-in wide-angle plate 20. External power supply socket 21. Synchronous jack

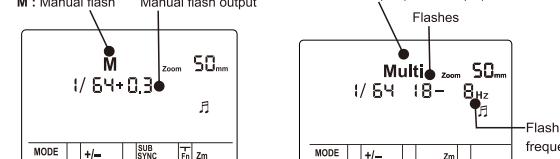
#### LCD liquid crystal display



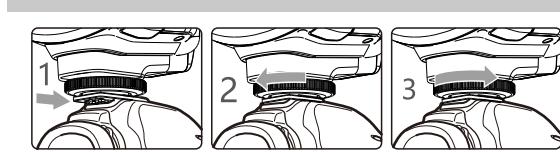
■ Screen will display only the current application settings.  
• According to above the function button 1 to function button 4 function (such as **STNG** and **REC**) according to the set of state change.  
• When the action button or dial, liquid crystal display light.  
• Press and hold function button 2 and function button 3 at the same time, the factory settings can be restored after 3 seconds.

#### (2)M: Manual flash

M: Manual flash Manual flash output



#### Loading and unloading of the flash



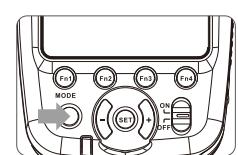
#### 1. Install the flash.

- Sliding flash block to make it fully inserted into the camera's hot shoe.
- 2. Tighten the flash.
- Spin lock knob on the fixed seat until the lock flash.
- 3. Remove the flash.
- Spin lock knob on the fixed seat, unlocked until the flash.

#### Power management

\* The ON/OFF power switch controls the opening and closing of the product. Turn off the power when not in use for a long time. This product is designed with automatic power off function.

**Note: When the flash is unattended operating for a long time (approximately 90 seconds), the flash will automatically turn off. Press the test flash button < > on the light to activate it.**



#### Flash mode: E-TTL automatic flash mode

The flash has E - TTL flash automatically , M Manual flash , Multi flash three modes. Metering in E-TTL mode, the camera can detect flash light that is reflected from the first subject, so as to automatically adjust the flash output, making the flash output more balanced and enhanced exposure. Support the exposure compensation, high-speed synchronization, the second curtain synchronization Exposure lock, the aperture imaging flash, Canon camera menu access, etc. Press the < MODE > mode selection button, three kinds of flash model will appear on the LCD screen in turn.

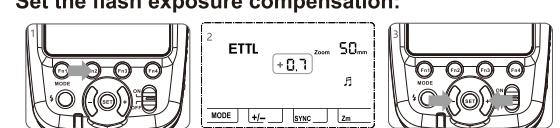
**E-TTL mode**  
By pressing the < MODE > mode selection button, set the flash to < E-TTL >, can make flash into E-TTL mode.

- Half focus according to the camera shutter button.
- In the moments before the shutter release a flash, flash receiving the main flash camera information.

#### Flash exposure compensation

The FEC range is adjustable from -3 to +3 in precision 1/3 f-stop increments. Due to the demand of environment need to fine tune the TTL system, this feature is very useful.

#### Set the flash exposure compensation:



1. Press the function button 2 < >, make flash exposure compensation icon on the screen.
2. Set the flash exposure compensation amount.
- Adjust the left and right function buttons to set the amount of exposure compensation.
- "0.3" means 1/3 gear, "0.7" means 2/3 gear.
- To cancel the flash exposure compensation, will flash exposure compensation amount is set to "+0".
3. Press the < SET > settings button, determine flash exposure compensation.

#### Flash mode: M manual flash

You can set the flash output in increments of 1/3 between 1/128 power and 1/1 full power. To get the correct flash exposure, use a hand-held flash meter to determine the required flash output.

1. Press < MODE > mode
2. Press function button 2 to select flash output power icon to < M > on the screen.
3. Press the < SET > setting button to select 1 button and display flash output power.

#### Display flash output

When the flash output is changed during the shooting process, the following table will clearly show how the aperture value is changed. For example 1/4+0.3 = 1/4+0.7, You can see how the aperture values change when you increase or decrease the flash output.

For example, when the flash output is reduced to 1/2, 1/2+0.7 or 1/2+0.3, and then increased to 1/2, 1/2+0.3, 1/2+0.7, 1/2 will be displayed.

Reducing flash output index →

1/1 1/2+0.7 1/2+0.3 1/2 1/4+0.7 1/4+0.3 1/4 ...

→ Increasing flash output index

#### S1 Optical control unit settings

In the manual flash mode, long press the function button 3 for 3 seconds to enter the S1 function. The flash can be used as a secondary light to create a variety of lighting effects, suitable for manual flash environment. It will trigger the flash in synchronization with the first flash of the main flash, the effect is the same as using the wireless flash trigger.

#### S2 light control unit settings

In the manual flash mode, long press the function button 3 for 3 seconds to enter the S1 function, release and then press the function button 3 to use the S2 function, the flash can be used as a secondary light, suitable for TTL flash environment. With anti-flash function, using a camera with a pre-flash function can use light control to achieve synchronized shooting. It will trigger the flash in synchronization with the second flash of the main flash, is 2 light-controlled flashes. When exiting, in the S2 function interface, short press function button 3 to exit.

■ Only in M mode can S1/S2 flash mode be supported.

#### Flash mode: Multi stroboscopic flash

With stroboscopic flash, a series of fast flashes can be produced. It can take multiple images of moving objects on a single photograph. You can set the flash frequency (the number of flashes per second, expressed in Hz), the number of flashes and the flash output.

1. Press < MODE > flash mode to select the button and display < MULTI > on the screen.
2. Set the flash frequency and the number of flashes.
- Press the < SET > button, the flash frequency icon jumps, adjust the left and right function buttons to set the number.
3. Press the function button 2, the flash output power icon jumps, and adjust the left and right function buttons to set the flash output power. Press the < SET > button to confirm after adjustment.

**Slave control unit settings**

1. Press function button 1 to select different modes TTL, M, Multi

2. Press function button 2 to select the group (A/B/C/D/E)

3. Press function button 3 to select channel 1-32 (channel icon transfer, adjust the left and right function buttons to set the number, press SET to confirm after adjustment)

4. Press function button 4 to select focal length 20-200mm (the focal length icon is adjusted, adjust the left and right function buttons to set the number, and press SET to confirm after adjustment)

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**Calculate shutter speed**

When the flash is stroboscopic flash, the shutter should be kept open until the flash stops.

Use the following formula to calculate the shutter speed, and then use the camera to set it.

**Flash number/flash frequency = shutter speed**

For example, if the number of strokes is 10, the frequency of strokes is 5 Hz, and the shutter speed is at least 2 seconds.

■ In order to prevent the flash head from overheating and damage, do not take more than 10 consecutive stroboscopic shots. After 10 flashes, please let the flash cool for at least 10 minutes. The flash will stop automatically to prevent the flash head from overheating. If this happens, let the flash cool for at least 15 minutes.

■ It is more effective to use stroboscopic flash in front of a dark background for high speed synchronization.

■ It is recommended to use a tripod and remote control switch.

■ Stroboscopic flash can be set when the flash output is 1/1 and 1/2.

■ You can also use "burst" when stroboscopic flash.

Flash output	Hz	1	2	3	4	5	6-7	8-9	10	20-50	60-199
1/4		7	6	5	4	4	3	3	2	2	2
1/8		14	14	12	10	8	6	5	4	4	4
1/16		30	30	30	20	20	10	8	8	8	8
1/32		60	60	60	50	50	40	30	20	16	12
1/64		90	90	90	80	80	70	60	50	30	20
1/128		100	100	100	100	90	80	70	40	40	40

#### Maximum stroboscopic number

■ Position the subordinate unit with the attached micro-bracket.

■ Before starting shooting, please test flash and test shot.

■ The transmission distance is about 30 meters.

■ You can also use "burst" when stroboscopic flash.

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