



SPEEDLITE YN600EX-RT

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

English

Precaution

To avoid fire or electrical shock, do not expose this product to rain or moisture.

To avoid short circuit, please sure the batteries contacts are securely packed and in accordance with local provisions when handling the battery.

Please place the batteries and the parts which can be swallowed mistakenly away from children. Contact a doctor immediately when it occurs.

To avoid possible injury to eyes, do not use the flash light in a short distance from the eyes.

To avoid possible safety accident, do not use the flash light on the people who need a high degree of attention.

Please take out the batteries and stop using immediately in case of below.

- This product is dropped or shocked seriously and the inner part of the product is bared.
- If the battery leaks corrosive liquids, please take out the battery with gloves.
- The product gives off strange smell, heats or smokes.

Do not disassemble or maintain this product. Touching the internal high voltage circuit will cause electric shock.

Please take out all the batteries if not use this product for a long time.

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I.Features

● Supports RT System

One YN600EX-RT can be used as on-camera master unit of Canon' s RT system and remote slave unit,and supports Gr grouping mode.

● Fully Compatible with YONGNUO YN-E3-RT,Canon' s 600EX-RT/ST-E3-RT Wireless Signal

One YN600EX-RT can be used as master unit to trigger YONGNUO YN600EX-RT,Canon 600EX-RT,and live display the flash groupings of slave unit and recycling information; One YN600EX-RT can respectively receive the wireless signal of master unit YN600EX-RT、YN-E3-RT、 Canon' s 600EX-RT/ST-E3-RT, realizing remote TTL、M and Gr flash.

● High Guide Number,Supports High-speed Sync

GN60@ISO100,200mm;supports high-speed sync TTL>manual flash,Gr grouping flash,the highest synchronous speed can reach 1/8000s

● Supports USB Firmware Upgrade

The YN600EX-RT equipped with the USB interface,supports firmware upgrade,the users can download the upgrade firmware through the Yongnuo official website to upgrade the flash.

● Supports Wireless Optical Slave function

The YN600EX-RT supports YONGNUO,Canon' s and Nikon' s wireless optical master signal,supports S1 and S2 pre flash cancel mode.

● Support Auto/Manual Zooming

The YN600EX-RT supports auto and manual zooming, the flash coverage can be changed between AUTO, 20~200mm.

● Settings Save Automatically,Supports Custom Settings (Fn)


● Ultrafast Charging Recycle System,Supports External Power Supply


● Equipped with Big Size LCD Display Screen, Standard PC Synchronous Interface




II.Quick Start

If you don't have much time to read the whole user manual, we advise you to read this section.

1.Please avoid the excessive use of the output with maximum power. It can effectively extend the service life of this product. (It is recommended that the speedlite should be idle for more than 3 minutes when entering the overheat protection).

2. Short press the [] and [MODE] button can switch the trigger mode and flashmode(Gr flash mode only in wireless master mode).

3.When used as master unit, through the [] button can set the participated exposure flash group.

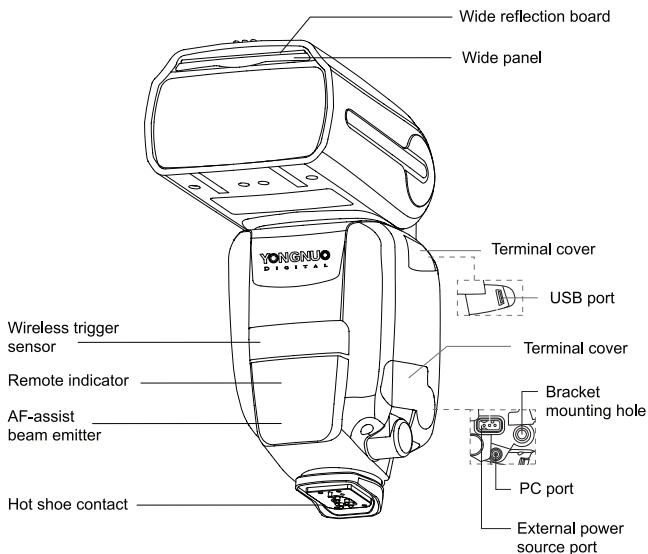
4.Short press the function button [] can enter into the focal length setting state,long press the function button [] can enter into the advanced options setting state, then through the and [] [OK] buttons can set the coverage of the focal length and the custom flash function.

5、Function button 1-4 corresponding to different functions according to current state of the flash,operations and details please refer to the following chapters.

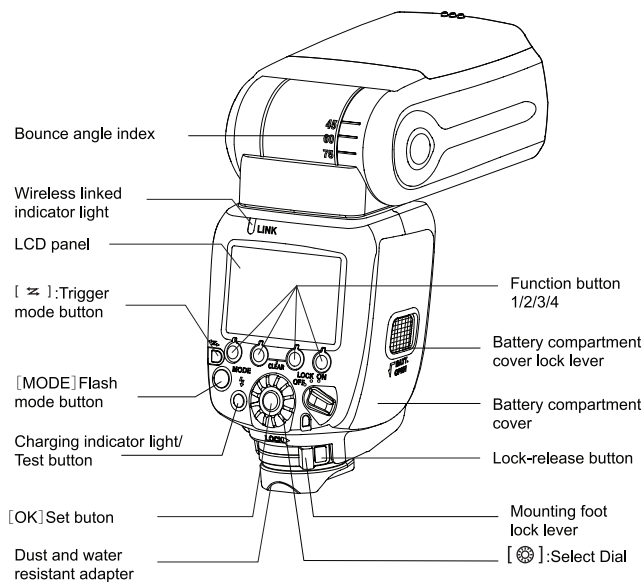
6、Long press the function button 2 and button 3 can set the flash shooting function settings and wireless shooting setting recover to the default set-top TTL flash mode status.

III.Components Discription

Please familiar with this part carefully, allowing you to



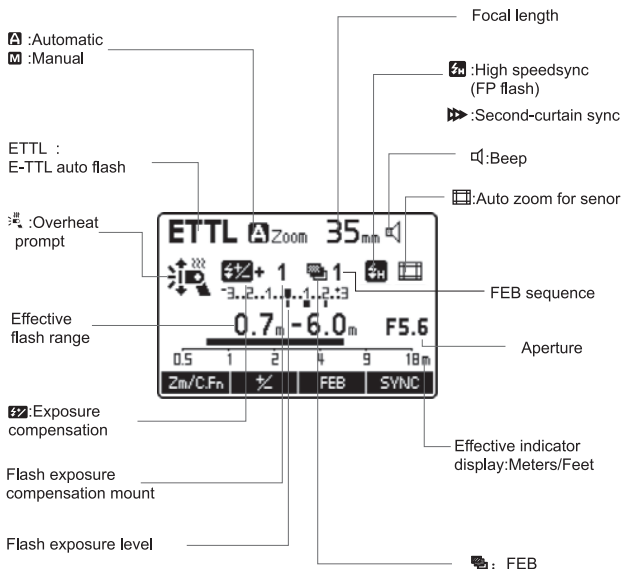
Components Discription



Components Discription

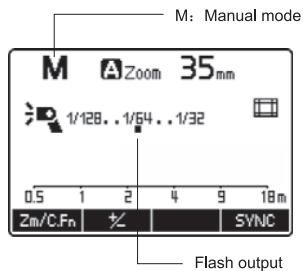
LCD panel

ETTL flash LCD panel

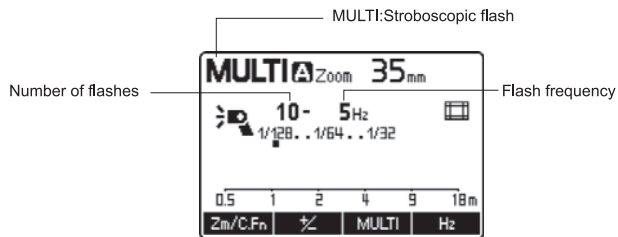


Components Discription

M mode LCD panel display

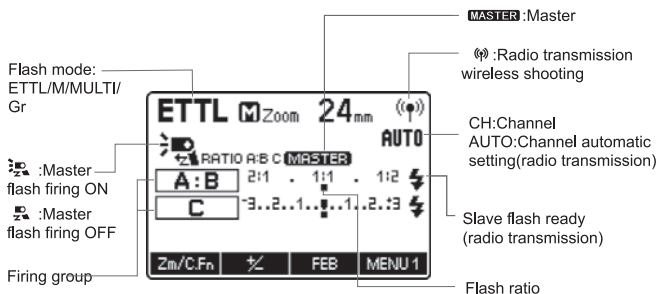


MUTIL mode panel display

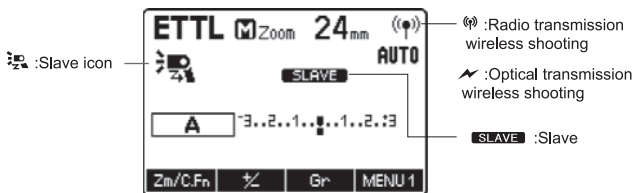


Components Discription

Wireless master unit LCD panel display



Wireless slave unit LCD panel display



IV. Installation Instruction

1. Install Batteries

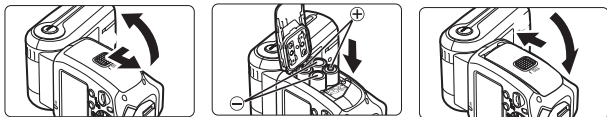
Slide the [battery compartment cover] in the direction of the arrow as shown.

Slide the [battery compartment cover] in the direction of the arrow as shown.

Insert the batteries according to the label inside battery chamber and make sure the direction of the battery contact (+/-) is correct.

Close the [battery compartment cover] in the direction of the arrow as shown.

⚠ NOTE: Please use four standard specification AA batteries. To avoid circuit, please do not use damaged batteries.

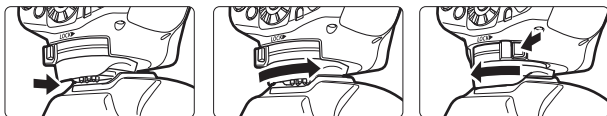


2. Attaching to the Camera

Slip the speedlite's [Mounting foot] all the way into the camera's hot shoe.

Slide the [mounting foot lock lever] to the right side as the arrow shown, until heard the "clicks" sound.



To detach the speedlite, press the [lock-release button] and slide the [Mounting foot lock lever] to the left side, then detach the speedlite.



V.Basic Functions

1.Basic operations

Button Operation:

button	Operation
[ON/LOCK/OFF] Switch	Set the switch to the ON/OFF can turn on/off the power source,set the switch to LOCK can disable the buttons except the switch and [PILOT] buttons.
[MODE] button	Through the button can switch between Ettl/M/MULTI/Gr (Gr mode only in wireless master mode)
[] button	Short press the button can switch the trigger mode:set top,wireless master mode,wireless slave mode,Sc/Sn/S1/S2.
[]button	Through the dial can adjust the selected parameters which need adjusted, related operations and details please refer to the subsequent chapters.
[OK] button	Confirm and save the parameter settings
[Function button 1/2/3/4]	According to the current state of the flash, the corresponding four function buttons are in different roles, related operations and details please refer to the subsequent chapters.
[PILOT] button	Test the flash output

Basic Functions

Meaning of [Indicator light]

Statues of [Charging Indicator]	Meaning	Method
Red light	The speedlite is fully charged and can be used.	Normal.
Green light	The speedlite has not been fully charged.	Waiting for completion of charging.
Green light blinking	Low battery and the speedlite is about to shut down.	Please replace new batteries.
Red light blinking	Overheat prompt.	Reduce the frequency or stop firing until the speedlite cool down.
Red light and green light	Overheat protection mechanism is activated.	Stop firing until the speedlite cool down.

Meaning of [Link light]

[LINK] Indicator statues	Meaning	Method
Green light	Wireless master unit and slave unit are in normal transmission.	Normal.
Blue light	Wireless master unit and slave unit have not connect.	Check if the channel and IDs of the master unit and slave unit are consistent.
Green light and blue light	Used as the second and the subsequent master unit	Normal.

Basic Functions

The meaning of [Sound Prompt]

The Sound Form	Meaning	Method
Tick twice	The sound indicator is enabled,the speedlite is started and ready to fire.	Normal
Three tick, two times	The exposure maybe excessive.	Adjust exposure compensation or change shooting condition.
Tick tick tick	The exposure may be insufficient.	Adjust exposure compensation or change shooting condition.
Tick-tick Tick-tick twine	a.The speedlite is in charging; b.Overheat protection prompt.	Waiting for completion of charging ; Idle 3-5 minutes for overheat released.
Tick-a long sound	The speedlite is fully charged, and can be used.	Normal
Tick-tick-tick	Low battery and the speedlite is about to shut down.	Replace the batteries.

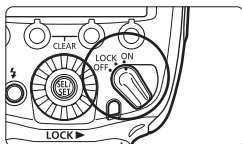
2. Power-on and Power-off

Set the switch to <ON> position,the speedlite will turn on and start charging; After turned on, the <Charging indicator> will bright with red light which indicates it can flash.

If the charging is not completed within 30 seconds, the <Charging indicator> will with green light blinking, and the screen will display the low power icon, speedlite will automatically shutdown, indicating it need to replace with new batteries.

After the <Charging indicator> turned into red,you can test flash through pressing the [PILOT] button to see if the speedlite works normally.

After use,set the switch to <OFF> position to turn off the power source.

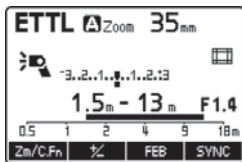


Please take out the batteries after turning off the power of the speedlite.



3.ETTL Mode

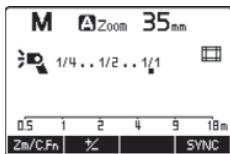
In ETTL mode, the metering system of this camera will detect flash illumination reflected back from the object so as to automatically adjust the exposure compensation, exposure bracketing, high-speed sync, second-curtain sync, exposure lock, modeling light, and CANON camera menu accessible is supported.

In ETTL mode, you can also set exposure compensation for flash, the range of flash exposure compensation is -3EV ~ +3EV in 1/3-stop precision.




4. M mode

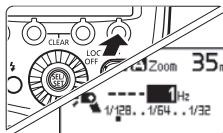
In M mode, you can set flash output as your requirement by short press the function button [], when the <Flash output level> displays on the screen, you can adjust the flash output through []. Adjustment range of flash output is 1/128~1/1, and the output can be divided



into 8 grades, each has maximum 3 grades for fine adjustment, with grade 0.3EV, 0.4EV as adjustment increment, totally 29-grade fine adjustment. After the flash output set, half press the shutter release button, the screen will display the aperture value and flash effective range.

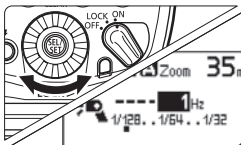
5.Multi Mode

In Multi (stroboscopic) mode, the speedlite will flash according to the flash output, flash frequency and number of flashes you set. Select the number of flashes through the function button [],



Basic Functions

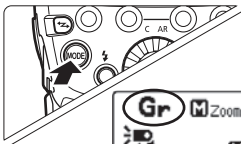
select the frequency through the function button [Hz], then adjust the numbers of flashes and flash frequency through the [⚙️]. The adjustment method of the flash output are same as the M mode. The number of flashes range is 1~100, and the range of flash frequency is 1~100.



⚠️ NOTE: When in low battery, the charging speed of speedlite will be slow, which may cause the leakage of the stroboscopic flash. In this situation, please reduce the flash frequency or change new battery.

6.Gr Mode

When the YN600EX-RT set to wireless master mode, through the [MODE] button can set the flash mode as Gr mode. In the Gr mode, supports triggering up to A/B/C/D/E five groups of flashes (Up to 15 slave flashes), and can set different flash mode and flash output for each group.



7.Menu Access of Camera (only for the newer Canon models)

You can control the speedlite by accessing to camera menu on the newer Canon models which support E-TTL. On the Flash Control Menu, you can set relevant parameters through “External flash func. setting” and “External flash C. Fn setting”, for example, switch E-TTL mode, manual flash mode, stroboscopic flash mode (Multi) and Gr mode, wireless flash setting, second-curtain sync, exposure bracketing, exposure compensation, Zoom, advanced setting and etc.

8.Test Flash

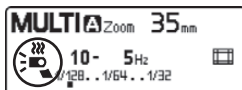
No matter in which mode, you can press the [PILOT] button to test if the speedlite flash normally. When testing the flash, the speedlite will give flash with corresponding output level in accordance with the chosen output setting.

9.Power Saving Mode

We have designed the power saving mode for YN600EX-RT, and the power saving mode can be achieved by setting through advanced options function, related operations and details please refer to the subsequent “advanced options function” chapters.



10.Overheat Protection



If the speedlite is used too frequently, the overheat protection function will be triggered; the <Overheat protection> icon will be displayed on LCD panel, and the speedlite will be locked. In such case, please wait for about ten minutes before continuing use. Please try to use 1/4 output or lower when rapidly shooting is needed to prevent the effect on the shooting.



NOTE: when continuous shooting, the charge indicator will be warn by a red light flashing as the flash internal temperature rises to a certain value;At this time, the flash recycling time will be extended, and it is recommended to appropriately reduce the use intensity of the flash.

11.Manually Set the Zooming

Auto Zoom: short press the function button [**Zm/C.Fn**] until the focal length value displays on LCD panel,then adjust the coverage through []. When it displays <>,attach the speedlite to the camera,the flash coverage will change as the lens focal length and move back and forth to accommodate different flash coverage (the default is 35mm).

Manually set the zooming position: Press ffunction button [**Zm/C.Fn**] until the focal length value displays on LCD panel,then adjust the coverage through []. If <> is displayed, you can adjust the flash coverage (20,24,28,35,50,70,80,105,135,200mm) manually.



NOTE: Using wide diffuser , the flash coverage will be extended to14mm.

Basic Functions

12. PC Sync port (input)

Through connecting to the PC sync port, you can make the flash synchronously.

13. Automatic Setting Saving

The speedlite will automatically save the current settings, which will be convenient to your next use.

14. Firmware Upgrade

(1) Please visit the Yongnuo official website (www.hkyongnuo.com) to download the firmware upgrade programme and most update firmware.

(2) Turn off the flash power source, connect the PC through the USB-MINIB cord, (the USB-MINIB cord is optional).

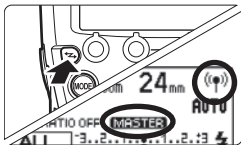
(3) Turn on the flash power source, follow the firmware upgrade operation on the programme.

VI. Wireless Flash Shooting

1. Wireless Radio Transmission Flash Shooting

(1) Wireless master unit setting

Short press the button [] to switch the triggering mode, until the < > and < MASTER > icons are displayed. In wireless master flash mode, press the function button [MENU 3] until is displayed, press the function button [CH] to choose the current channel, and adjust the channel through []; press the function button [ID] to choose the current ID, and adjust the ID through [].



In wireless shooting, there are AUTO and 1~15 channel for option. Besides, the users can set the IDs, total 10000 IDs for option.

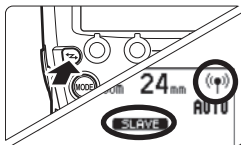
In master flash state, supports TTL/M/Multi/Gr flash mode, it can be switched through the [MODE] button; Choose the focal length through the function button [Zm/C.Fn], rotate the can adjust the focal length of the master unit; Short press the function button [] and rotate the can adjust the exposure compensation; Press the function button [FEB] and rotate the can adjust the exposure bracketing; Press the function button 4 until displays [MENU 2], press the function button [] can able or disable the master unit to participate exposure.

When the YN600EX-RT used as wireless master unit, supports triggering the YN600EX-RT and Canon 600EX-RT Speedlite.

(2) Wireless slave unit setting

Press the button [] to switch the triggering mode, until the < > and < SLAVE > icons are displayed.

Short press the function button 4 until displays [MENU 3], press the function button [CH], function button [ID], after the screen displays the channel and ID, rotate the to set the channel and ID consistent with the master unit.



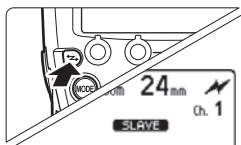
Wireless Flash Shooting

Press the function button 4 until displays [MENU 1]: short press the function button [Z] and rotate the [G] can set the exposure compensation; short press the function button [Gr] can set the groups of slave unit, total A/B/C/D/E five groups for option.

The flash mode and flash output of the slave unit YN600EX-RT will be controlled by the master unit; besides, in TTL mode, the slave unit can be set the exposure compensation, meanwhile the actual exposure compensation value will be superimposed with the exposure compensation value of the master unit.

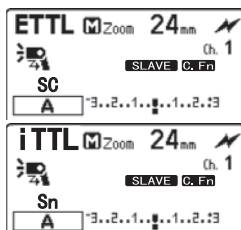
2. Wireless Optical Transmission Flash Shooting

Press the button [↔] until displays the <Optical Transmission> and <SLAVE> icon. Wireless optical slave unit is including Sc/Sn/S1/S2 four trigger mode. Sc/Sn mode can respectively receive the built-in flash of the YN568EX II, 580EXII, SB-910/900/800/700, 7D/60D/600D, C order of Nikon camera, wireless signal of SU-800 and ST-E2, supports 4 channels, realizing TTL and manual flash. When using the Sc/Sn or S1/S2 mode, please allow the wireless trigger sensor face to the master flash by rotating the flash head. Before shooting, the slave unit and master unit should be set on the same channel. S1 and S2 mode are suitable for MANUAL flash environment and TTL flash environment respectively. Under these two modes, the way to adjust the output lumen is like that in M mode only by the function button [Z] and [G].



Sc: Indicating that it can only receive wireless signal from Canon system, avoiding Nikon system.

Sn: Indicating that it can only receive wireless signal from Nikon system, avoiding Canon system.



Wireless Flash Shooting

S1 mode: In this mode it will work with the first flash synchronously of the master flash, with the result consistent with the use of radio slave. To use this mode properly, the master flash should be set at manual flash and the TTL flash system with preflight function and the red-reduction function with multiple flashes should not be used.

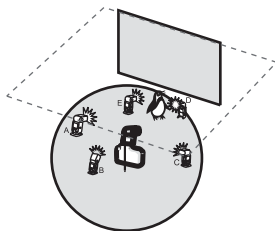


S2 mode: It is also called “pre-flash cancel mode”. This mode is similar with S1 mode, but it can neglect the pre-flash given by TTL flash. Therefore, it can support the master flash working in TTL mode. In particular, if S1 mode cannot flash properly and synchronically with your internal flash, you can try to use S2 mode.



3. Wireless Multiple Flash Shooting


In wireless flash shooting you can create 1~5 (up to three groups: A/B/C in wireless shooting optical transmission) slave unit groups to achieve multi-faceted flashing, and the master unit set up the flash ratio of TTL auto flash shooting, flash output, stroboscopic flash or Gr mixed mode flash.



NOTE: when the master unit set to ALL, the slave unit set to A,B,C group will fire in the same mode and same flash output; when the master unit set to <A:B>, only set to A and B group the slave unit can be triggered; when the master unit set to <A:B C>, only set to A,B,C group the slave unit can be triggered; If you want to set the A,B,C,D,E group of slave unit can be triggered by the master unit, please set the flash mode of master unit to Gr mode (Gr the mode can only be selected in the wireless radio transmission shooting).

VII. Advanced Applications



1. High-speed Sync Flash

With high-speed sync (FP flash), the YN600EX-RT can be synchronized with all shutter speeds, the maximum shutter sync is up to 1/8000. High-speed synchronization is particularly convenient to use aperture priority to fill flash portraits. Setting method: Press the  button to turn on or off the high-speed synchronization function.

2. Remote Wireless Flash

The YN600EX-RT supports two kinds of wireless flash shooting, Radio transmission and Optical transmission. The furthest radio transmission distance can be up to 100 meters; The furthest distance of indoor wireless optical transmission can be up to 25 meters, while the furthest distance of outdoor can be up to 15 meters. Related operations and details please refer to the Wireless Flash shooting chapters.

3. Flash Exposure Compensation

In order to make the shooting effect more suitable to your needs, you can set the flash exposure compensation through the camera or on the flash. The exposure compensation value is within the range of $-3\text{EV} \sim +3\text{EV}$. It can be set through pressing the function button  and rotating the  on the YN600EX-RT.



NOTE: For Canon version, please note that this compensation setting will overlap the exposure compensation setting on the camera. When used as the slave unit, the exposure compensation value set on the slave unit will overlap the exposure compensation on the master unit.

4. Second-curtain Sync


You can use slow-speed shutter to produce trailing smear for the object and the flash light will flash at the moment when the shutter is going to be shut, which means the rear-curtain sync function. (For the

rear-curtain sync setting, refer to your camera manual for setting). You can turn on or off the rear-curtain sync by pressing the [SYNC] button on the speedlite.



NOTE: When the YN600EX-RT is used as wireless flash, the rear-curtain sync function cannot be set.

5.Exposure Bracketing (FEB)

The FEB function can be set through the camera or speedlite. After the FEB is set, after every 3 photos are taken, exposure compensation will be made automatically in the sequence of. for example, “normal →under →over”. This function helps you improve the success rate of photo taking. Please short press the function button [FEB] and [] to directly adjust the exposure bracketing value.



NOTE: For FEB, set the drive mode of camera to “single shooting”; Be sure the flash is ready before shooting.

6.FE Lock (Canon)

To use this function, cover the subject for which flash exposure will be locked at the center of the viewfinder of camera, press the button [*] of the flash exposure lock, and the flash light will pre-flash and the camera will calculate the appropriate flash output data. Now you have some time for recomposition, after it you can take photo. (The function can only be used when it is supported by your camera. For the setting method please refer to your camera manual.)

7. FV Lock (Nikon)

Set the “AE-L/AF-L” function as “FV Lock” on the camera before using this function. At this time, you can aim at the object in the viewfinder and then press the [AE-L key /AF-L key], in such case, the flash light will pre-flash to get the reading of flash exposure for the object; after you have confirmed the scene frame, press the shutter. (The function can only be used when it is supported by your camera. For the setting of AE-L and AF-L please refer to your camera manual).

Advanced Applications

8. Advanced Options Setting

The YN600EX-RT is equipped with advanced options function, you can customize speedlite function as your requirement, set advanced options through the function button [Zm/C.Fn] on the speedlite or through the camera menu access.

Setting method on the speedlite :short press the function button [Zm/C.Fn] to enter into the advanced options function, rotating the [] to choose the items which need adjusted (such as <C.Fn 01>), then press the [OK] button to enter into the program setting mode, rotating the [] to select the option and press [OK] button. After finishing the custom settings, press the function button [] and return to the ready shooting state.

Advanced options function supported by YN600EX-RT is as following:

C.Fn 00 Distance indicator display

0: m (Meters (m))

1: ft (Feet (ft))

C.Fn 01 Auto power off

0: ON (Enable)

1: OFF (Disable)

C.Fn 03 FEB auto cancel

0: ON (Enable)

1: OFF (Disable)

C.Fn 04 FEB sequence

0: 0 → - → +

1: - → 0 → +

C.Fn 08 AF-assist beam firing

0: ON (Enable)

1: OFF (Disable)

C.Fn 09 Auto zoom for sensor size

- 0: ON (Enable)
- 1: OFF (Disable)

C.Fn 10 Slave auto power off timer

- 0: 60min (60 minutes)
- 1: 10min (10 minutes)

C.Fn 11 Slave auto power off cancel

- 0: 8h (Within 8 hours)
- 1: 1h (Within 1 hour)

C.Fn 20 Beep

- 0: OFF (Disable)
- 1: ON (Enable)

C.Fn 22 LCD panel illumination

- 0: 12sec (On for 12sec.)
- 1: OFF (Disable panel illumination)
- 2: ON (Illumination always on)

C.Fn 25 Through the [Trigger mode] button can switch to the wireless optical slave mode.

- 0: Sc (Only Sc)
- 1: Sc/Sn (Including: Sc/Sn)
- 2: Sc/S1/S2 (Including: Sc/S1/S2)
- 3: Sc/SnS1/S2 (Including: Sc/Sn/S1/S2)

C.Fn 26 Slave unit indicator


- 0: ON (Enable)
- 1: OFF (Disable)

C.Fn 27 Firmware version

Advanced Applications

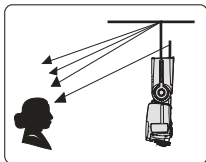
9. High-speed Continuous Shooting

The flash can support the high-speed continuous shooting function. Please set the camera in the continuous shooting form and then shoot.

 **NOTE:** The quantity of photos that can be continuous shot is related with the flash output setting. Please use the battery with enough electric quantity.

10. Reflection Flash

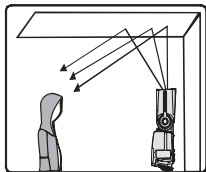
Bounce flash means to take photos by making flash light head aimed at wall or ceiling and using the light reflected back from the ceiling or wall to light the desired object, so that the shade behind the object can be decreased to get more natural shooting effect.



If the wall or ceiling is too far, the bounce flash may be too weak to get enough exposure. The wall or ceiling should be even and white in order to get efficient reflection; if the reflection surface is not white, color cast may appear in photo.

11. Use Reflection Board for Shooting

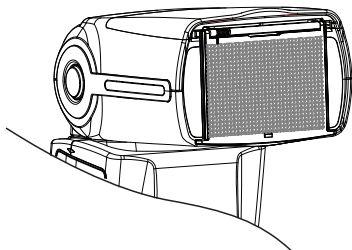
With the Reflection board in flash, pull out the Reflection board and the Wide panel out from the light head at the same time and then push the Wide panel back. In such case, if this product is being used to take photos, it will produce a highlighted point on the eyes of the subject and thus make the eyes charming (catching light). This function can reach optimal effect when the flasher head is up 90°.



12. Use Wide Panel

Pull out the Wide panel, push back the Reflection board and arrange

them as per the figure; in such case, the flash scopes will extent to 14 mm ,the flash range will be enlarged and the effect will be softer and more natural.



VIII. Specifications

Circuit design	Insulated Gate Bipolar Transistor (IGBT)
Guide No.	60 (ISO 100, 200mm)
Flash mode	TTL,M, Multi,GR
Trigger mode	Set-top,wireless master mode,wireless slave mode, Sc,Sn ,S1,S2
Zoom range	20,24,28,35,50,70,80,105,135,200mm
Vertical rotation angle	-7~90 degrees
Horizontal rotation angle	0~360 degrees
Power supply	4×AAsize batteries (Alkaline or Ni-MH are usable)
Lighting times	100~1500 times (AA alkaline cell used)
Recycle time	Approx 3s (AA alkaline cell used)
Color temperature	5600k
Flash time	1/200s~1/20000s
Flash control	8 levels of output control (1/128~1/1), 29 levels of fine tuning
External interface	hot shoe, PC port
Wireless triggering distance	photosensitive flashing range 20~25m indoor, 10~15m outdoor
Optical transmission triggering distance	up to 100m
Additional features	master flash,High-speed sync,second-curtain sync, FEC, FEB, FEV, the electronic flash head zooming, sound prompt,automatically saving setting, PC port, power saving mode, overheat protection,advanced options setting
Dimensions	62×78×214mm (Extended state)
Net weight	430g
Contains items	Speedlite(1),protecting bag (1),mini stand(1) ,manual (1)

Specifications

Guide Number of different focal length range (ISO 100, in feet)

Flash Output	Flash Coverage (mm)						
	14	20	24	28	35	50	70
1/1	49.2	85.3	91.9	98.4	127.9	137.8	164
1/2	34.8	60.4	65	69.6	90.7	97.4	116.1
1/4	24.6	42.7	45.9	49.2	64	68.9	82
1/8	17.4	30.2	32.5	34.8	45.2	48.6	58.1
1/16	12.5	21.3	23	24.6	32	34.4	41
1/32	8.9	15.1	16.1	17.4	22.7	24.3	28.9
1/64	6.2	10.8	11.5	12.5	16	17.4	20.7
1/128	4.3	7.5	8.2	8.9	11.4	12.1	14.4

Flash Output	Flash Coverage (mm)			
	80	105	135	200
1/1	173.9	190.3	193.6	196.9
1/2	123	134.5	136.8	139.1
1/4	86.9	95.1	96.8	98.4
1/8	61.4	67.3	68.6	69.6
1/16	43.6	47.6	48.6	49.2
1/32	30.8	33.8	34.1	34.8
1/64	21.7	24	24.3	24.6
1/128	15.4	16.7	17.1	17.4

IX. Troubleshooting Guide

1. Power does not turn on or the flash does not fire.

Make sure that the batteries are installed in the correct orientation. Even when using external power, insert batteries into the Speedlite. If the electrical contacts of the Speedlite and camera are dirty, clean the contacts.

2. Please note when use the flash outdoors: For outdoor application, please avoid direct sunlight to the wireless triggering sensor and ensure normal use of the flash.

3. Precaution for outdoor use of umbrella: The umbrella mounted on the flash light outdoors may be blown down easily, and the hot shoe of the flash light may be broken. Please fix the mounting rack.

4. Photos are under exposure or over exposure?

Check if the set shutter, aperture and ISO are too near the flash limit or if some settings including exposure compensation in relation to flash are proper.

5. Vignetting appears in photos or only part of the subject is illuminated? Please check the current coverage of focal length and make sure if the lens focal length exceeds the coverage range of the flash. The product's zooming range is 20~200 mm of the medium format system. You can try to pull out the wide-angle diffuser to expand the flash range.

6. The radio slave unit does not fire.

Set the master unit to $\langle \text{☎} \rangle < \text{MASTER} >$ and set the slave unit to $\langle \text{☎} \rangle$ and $< \text{SLAVE} >$. Set the transmission channel and radio IDs of the master unit and slave unit to the same numbers. Check that the slave unit is within the transmission range of the master unit.

7. The optical slave unit does not fire.

Set the master unit to $\langle \text{⚡} \rangle < \text{MASTER} >$ and set the slave unit to $\langle \text{⚡} \rangle$ and $< \text{SLAVE} >$. Set the transmission channel and radio IDs of the master unit and slave unit to the same numbers. Check that the slave unit is within the transmission range of the master unit.

Troubleshooting Guide

8. You may feel the flash control panel is dim, because there is one protective film on the panel; you can tear it away to enjoy a clear visual effect.

The electronic version manual can be downloaded from:
<http://www.yongnuo.com.cn/usermanual/downloadIndex.htm>;

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