

YONGNUO

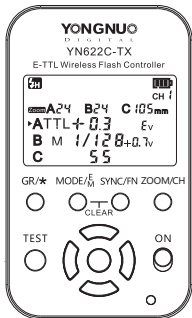
D I G I T A L

YN622C-TX

E-TTL

Wireless Flash Controller

无线引闪控制器



User Manual

用户手册

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- Please turn off power supplies of all equipment when connecting or installing the product.
- Please keep it dry. Be sure not to use wet hand to touch the product. It is also not allowed to immerse the product into water or make it be exposed in the rain. Otherwise it may not work normally or even be damaged.
- Do not use it in explosive situations. Violating this warning may cause an explosion or fire.
- This product involves battery, please be in strict accordance with the relevant provisions on the use of the battery. Otherwise it would cause property damage or personal injury.

General Description

Thank you for choosing products of YONGNUO.

- YN622C-TX E-TTL wireless flash controller is for supporting the use of YN622C E-TTL wireless flash trigger transceiver.

- This product adopts flexible LCD menu control, supports mixed use of E-TTL(II) mode, manual mode, or super sync flash mode of group A/B/C flash. Supports multi flash, supports E-TTL ratio. It can be adjusted the exposure compensation or flash output of each group. In addition, it supports setting different focal length(zoom)of the three groups of flash, the remote controlled distance up to 100M, supports 7 wireless channels and three groups A/B/C , and is equipped with AF-assist beam emitter. Supports firmware upgrade via USB .

Compatible camera : Canon EOS series DSLR

Cameras compatible with the shutter release cable (parts):

LS-2.5/C1: 60D/70D/400Dseries/500D series/600D series/1000D series

LS-2.5/C3: 40D/50D/7D/1D series/5D series

Conventions Used in the Manual

- This manual to assume using compatible camera/flash and **YN622C transceiver in the same channel**. The features/functions supported by the product depend on the camera and flash used. For the operation of camera, flash and the YN622C transceiver, please refer to relevant user manuals.
- For the user manual and firmware of the latest version, please visit the official website of YONGNUO: www.hkyongnuo.com.

YN622C-TX



YN622C

Transceiver

- **Icon used in this manual:**



Refers to short press the button.



Refers to long press(hold down) the button.

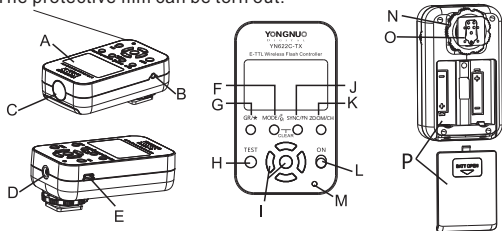
Supported Functions List

- **LCD screen display, and multi-buttons for quick operation**
- **The firmware can be upgraded through the USB interface**
- **Supports wireless shutter release function**
- **The focal length(zoom)of the A/B/C three group flash can be adjusted separately**
- **Supports TTL Ratio A:B / A:B C**
- AF-assist beam emitter function (can be disabled)
- Flash mode: GR(grouping flash)/E-TTL(II)/Multi flash
- Supports mixed use of E-TTL(II) mode, manual flash mode or super sync(SS) of A/B/C group flash.
- The exposure compensation or flash output of A/B/C three groups of flashes can be adjusted separately
- Shutter Sync: 1st-curtain sync, 2nd-curtain sync and high-speed sync, the highest sync speed is 1/8000s
- Supports FEC, FEB, FEL
- Supports modeling flash
- Supports the flash zooming (auto, manual)
- Super Sync (SS) time delay adjustment, for higher x-sync speed than the camera allows
- Settings saved automatically
- The flash sync signal can be input through the PC port
- Supports the basic flash trigger (max sync speed is 1/250s) of standard hot shoe (non Canon body)

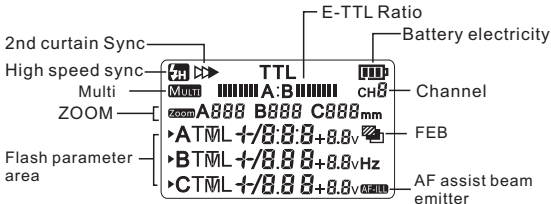
***The above functions need to be used with the YN622C transceiver. Parts of functions may refer to the manufacturer of the camera and flash(FEL,Modeling Flash).**

Name of Parts/Quick Start Guide

※The protective film can be torn out.



LCD



Name of Parts/Quick Start Guide

A-LCD: Display all the settings of controller.

B-2.5MM Shutter release interface: Wireless shutter release function(P.16).

C-AF assist beam emitter: (P.14)

D-PC interface: Input the flash sync signal(P.15).

E-USB interface: Connected to the computer to update the firmware (P.19).

F- MODE/ $\frac{E}{M}$ button: Flash mode setting.

G-GR/* button: Short press to move the arrow to set flash group or other parameters; Long press to get different functions in different modes.

H-TEST button: Long press to wake the flash up, loosen to test the flash(P.12).

I-Select/Set button group: Multifunction button group, including the [UP] [DOWN] [LEFT] [RIGHT] and [OK] buttons.

J-SYNC/FN button: Short press for flash shutter sync mode setting(P.11), long press for C.FN setting (P.14).

K-ZOOM/CH button: short press for zoom setting (P.11), long press for channel setting(P.7) .

L-Power switch: Slide to ON for power on.

M-Status indicator : The green light will bright when in communication; while the red light will bright when in triggering (or shutter releasing).

N-Locking ring and locking pin

O-Hot shoe Mounting foot and contacts

P-Battery compartment and battery cover

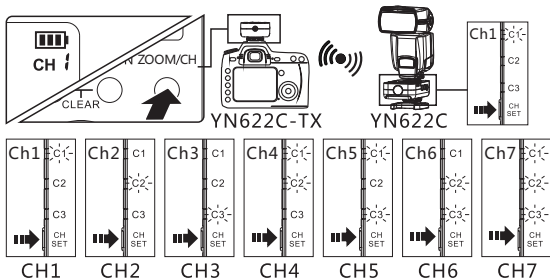
Preparation Before Use

1.YN622C Transceiver Settings:

Set the receiving group and channel of the transceiver (refer to the user manual of the YN622C).

2.YN622C-TX Controller Settings:

- 1).Installing the 2 AA (1.5V) batteries(excluded).
- 2).Installing the Controller on the Camera .
- 3).Power on when the power switch slides to [ON].
- 4).Channel Setting: Long press the [ZOOM/CH] button, then press the select/set button group to **the same channel as the YN622C transceiver.**

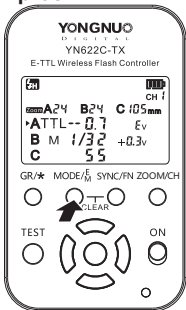


Settings

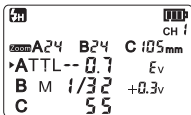
Flash Mode Setting: GR/TTL/Multi

- Long press the [MODE/E_M] button to switch the flash mode GR/TTL/Multi.
- In GR mode, short press the [MODE/E_M] button to switch the current group the arrow pointing to; in TTL/Multi mode, short press this button can also switch the flash mode.

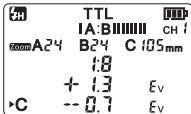
Examples:



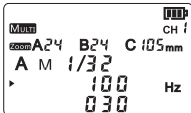
1. GR



2. TTL



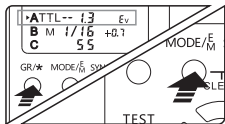
3. Multi



Settings

1. GR-Grouping flash mode: set different flash modes for different groups.

- 1). short press the [GR/*] button to choose the setting groups.
- 2). Short press the [MODE/E_M] button to set the flash mode of the selected group, each press of the setting as below:



TTL: E-TTL(II) Fully Automatic Flash

The FEC adjustment range is within -3 to +3EV, It's supported to press select/set button group to adjust the FEC value. If the FEC value is set on the flash, it will plus with the FEC value set on the controller.

M: Manual Flash

The adjustment range is within 1/128-1/1, press [LEFT] or [RIGHT] button to adjust, press the [UP] or [RIGHT] button for fine adjustment.

SS(Super Sync):refer to P.14.

OFF: This group is not participate in flash.

***Long press the [GR/*] button to quickly turn off the A/B two groups at the same time.**

Settings

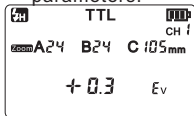
2.E-TTL (II) Mode -Fully Automatic Flash

1.)Set the flash group:

Long press the [GR/*] button to set the TTL flash group.

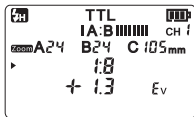
2.)Set the flash ratio or exposure compensation:

Short press the [GR/*] button to select the setting items, then press the select/set button groups to set the parameters.



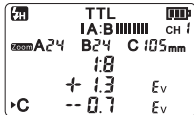
1.Flash Group-A+B+C(ALL)

☞ Set FEC of A/B/C groups at one time.



2.Flash Group-A:B

☞ Set flash ratio of A/B group
☞ Set FEC of the A/B group (C group does not flash)





3.Flash Group-A:B C

☞ Set flash ratio of A/B group
☞ Set FEC of A/B group
☞ Set FEC of C group

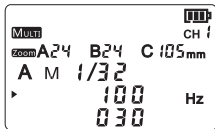
Settings




The details of the flash ratio settings as below:

8:1 4:1 2:1 1:1 1:2 1:4 1:8  Press[LEFT]or[RIGHT]
5.6:1 2.8:1 1.4:1 1:1.4 1:2.8 1:5.6  Press[UP]or[DOWN]

3.Multi Flash Mode:Stroboscopic Flash

Short press the [GR/*] button to select the items, then press the select/set button groups to set the parameters.



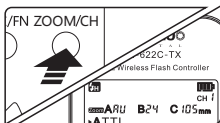
-  Output power
-  Stroboscopic frequency
-  Stroboscopic flash count

*The output power of group B/C should be set up respectively through the camera's menu (P.13)

Settings

4.ZOOM:Flash Coverage Setting

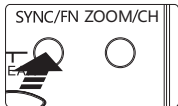
- It supports the controller to set the focal length of the flash on the transceiver.



Short press the [ZOOM/CH] button, set the flash focal length of A/B/C group in sequence, then press the Select/Set button group and set. Settings rang supported manual 24-105mm,AU (Automatic).

5.Flash shutter sync

- Short press the [SYNC/FN] button to set the shutter sync mode(except the multi flash).There will be a relevant icon displayed on the LCD.



1st curtain sync



2nd curtain sync



high speed sync

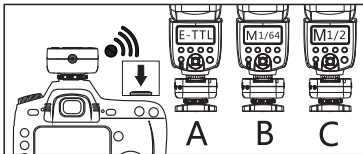
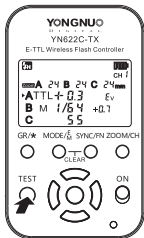
Flash Awakening and Triggering

1. Flash Awakening&Testing

When half press the shutter button of the camera or press the [TEST] button of the controller , the green wake-up indicator light lights on, and the flash on the hot-shoe of the transceiver will be waked up. When loosen the [TEST] button, the flash of the selected groups will be tested for once.

2. Flash triggering

Completely press the shutter button of the camera will trigger the flash synchronously, the red triggering indicator light lights on.



Control from Camera's Menu Screen

- When using EOS digital cameras released since 2007, you can set the controller functions from the camera's menu screen. For the operation of the camera, please refer to the relevant user manual.

- **EOS digital cameras released since 2012:** support E-TTL II, manual flash, multi flash, group flash (GR).

- **EOS digital cameras released from 2007 to 2011:** supports E-TTL II, manual flash, multi flash

- Under the TTL mode, it supports the camera menu setting FEB function. There will be relevant icon displayed on the controller. (P.4)

- Supports setting the Group A flash zoom through the camera's menu .

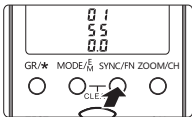
- Cancels the FEB functions or turns on/off AF Assist Beam Emitter though the C.FN Settings of the external flash menu.

***If the 2nd curtain sync enabled, please set the flash parameters of each group through the controller.**

***SS flash mode can not be controlled through the camera menu.**

Custom Function Settings(C.FN)

- 1). Long press the [SYNC/FN] button.
- 2). Press the [up] or [down] buttons to select the setting items, then press the [LEFT] or [RIGHT] buttons to set the parameters.
- 3). Press [OK] to confirm and exit the settings.



01-SS: Super sync delay Settings

The range of settings : 0.0-2.0 (refer to P.17)

02-SHU(Shutter):Wireless shutter function

Refer to P.16, can be set to ON/OFF

03-AF: AF assist light function

It can be set to ON/OFF, relevant icon will displayed on the screen (refer to P.4)

04-LEG(Legacy Flash Trigger):Single contact trigger function

Refer to P.15, can be set to ON/OFF

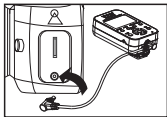
05-ECO(Ex Compat): EX series flash Compat

Refer to P.18, can be set to ON/OFF

Other Trigger Modes

2.PC interface & Legacy Flash Trigger

- **PC interface (input) trigger:** Use LS-PC/PC cable (option) to connect the controller and the PC interface of camera.
- **Legacy Flash Trigger: Basic flash (Single Contact) trigger:** Install the controller on the camera hot shoe.



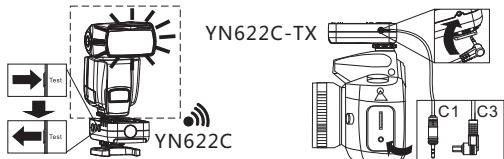
- 1). **Transmitting group setup:** Set base on the groups of the controller (GR).
- 2). **Flash mode setup:** Set the manual flash(M) mode through the flash control panel, change the flash output manually, and trigger through the controller's PC interface or main flash contact. High speed sync or other TTL functions are not supported (the highest sync speed is 1/250s or lower).

*About the C.FN 04 Legacy Flash Trigger:

Please set this custom function as OFF when using the TTL triggering. If it could not operate properly when using the single contact trigger, set as ON.

Shutter Release Function

- Use the YN622C transceiver for wireless transmitting, the YN622C-TX controller as the shutter signal output.



- 1). Use the LS-2.5 series shutter connecting cable to connect the controller and camera's shutter interface, as for the EOS digital cameras released after 2012, it does not need the shutter connecting cable.
 - 2). Set the C.FN 02 as ON (P.14), turn on the wireless shutter function.
 - 3). Press the [TEST] button of YN622C transceiver (if the flash have installed) and loose, the flash will be triggered once to test the flash. About one second later, the camera shutter will be triggered and will flash synchronously.
- **Supports single shot only.**
 - **If you do not use the shutter release function, please set the C.FN 02 as OFF.**

Reference

1. About the Super Sync(SS)

Use non-HSS (Non High Speed Sync) flash to realize High Speed Sync. This function is more applicable to strobes flashes whose flash duration is longer. It should be used with cameras which supports High Speed Sync (HSS) and setting SS time delay parameters.

A-Set the controller SS time delay parameters in C.FN 01: (refer to Page 14)

B-Using Super Sync:

- 1).Set the flash into manual mode. It supports to use the flash which is set on the hot-shoe of the transceiver or connect the flash through PC port. Setting full power flash output (1/1) may be needed.
- 2).Set the flash sync speed of the camera as **high speed sync**, the maximum shutter sync speeds can reach to 1/8000s. Adjust "SS" to a suitable time delay parameters according to the flash model, output power and shutter speed.
- 3).Take photos and check whether the flash of the photos is synchronous. The gradations or variations of the light will be seen in the photos. The flash result will be different due to different cameras and flashes.

2. About the Automatic Save Function:

Then controller will automatically save the settings of channel, grouping, flash mode, AF assist beam emitter etc.

Reference

3.About the Ex Compat trigger

When using the 430ex/550ex/580ex flash etc. which does not support camera menu controlling the flash, enable this function can use the controller to remote control the manual flash power output of the above flash.

- 1).Set the C.FN 05 of the controller as ON(P.14).
- 2).Set the flash on the YN622C as E-TTL flash mode.
- 3).Set the controller as manual flash under the GR mode, set the flash output.

***The flash screen will not display the flash output.**

***If you do not use the above model flash, please set the C.FN 05 as OFF.**

4.About the LCD backlight:

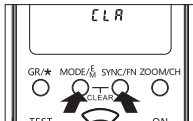
Press any button, the LCD backlight will light for 5 seconds.

5.About the battery electricity display :

The battery icon in the upper right corner of the LCD will display the current electricity. When in low battery, the battery icon will blink, please replace the battery.

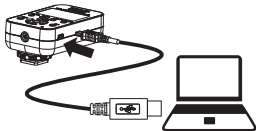
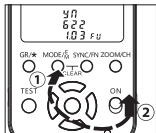
Reference

5.Factory Reset



Hold down the [MODE] and [SYNC/FN] buttons at the same time until the screen as shown, then loosen to restore factory settings.

6.USB Firmware Upgrade



- 1). Visit YONGNUO official website:
<http://www.hkyongnuo.com> to download the firmware upgrade software and the latest firmware.
- 2). Turn off . Keep pressing [mode] button and turn on again. The screen will show firmware upgrade interface(will display the current version) .
- 3). Connect the controller to PC via USB-MINIB cable (not include).
- 4). Complete the firmware upgrade operation according to the prompt of software.

Troubleshooting

1. Fail to power on or automatic shutdown:

- The battery is loaded inversely or exhausted.
- Install the battery according to the correct direction the battery compartment indicates and ensure the battery is full and restart the power .

2. The flash doesn't fire

- Ensure the power of all equipments are full, **the flash is in ready state(the flash-ready indicator on)**
- Ensure the connection among the controller(transceiver), camera and the flash is reliable.
- Whether the controller and transceivers are set in the same channels and controllable groups.

3. TTL underexposure or overexposure:

- Check whether the camera body or the flash sets exposure compensation. It may be underexposed if exceeds the effective flash distance. It may overexpose when TTL and manual flash are used at the same time, at this time the manual flash suits to be used as a backlight.

When other trouble occurs during using, it's suggested to deal with the trouble with the procedures as below:

- 1).Restart all the equipments.
- 2).Replace the batteries of the controller and transceivers.
- 3).Reset the factory set of the controller and transceivers.
- 4).Reset the factory set of the camera/flash.

Specifications

System type: Digital FSK 2.4GHz wireless controller

Distance: 100M

Channel: 7

Flash mode: GR(E-TTL(II), Manual, Super Sync)/E-TTL(II)/Multi flash

Sync mode: 1st-curtain, 2nd-curtain, Hi-speed sync(HSS)

Groups: 3Groups (A/B/C)

MAX Sync speed: 1/8000s

Trigger Interface: Hot-shoe,PC port

Shutter release interface: 2.5MM shutter release interface

TTL Ratio: support

USB Firmware Upgrade: support

AF Assist Beam Emitter: support

Zoom: support

Battery: AAX2(support 1.2 V rechargeable battery)3V

Stand-by time: 120h

Dimensions: 89.5×53×39mm

Weight:82g

The functions of this user manual are based on test conditions of our company. Further notice will not be given if the design and specifications change.

The YONGNUO logo in this manual includes the registered trademark or trademark of Shenzhen Yongnuo Photography Equipment Co.,Ltd in China or/and other countries(regions). All other trademarks are the property of their respective owners.

FCC ID: 2ACYPYN622C-TX

SHENZHEN YONGNUO PHOTOGRAPHIC EQUIPMENT CO., LTD

Model name: E-TTL Wireless Flash Controller



Model No.: YN622C-TX

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.