YONGNUO
DIGITAL

YN-622N
i-TTL
Wireless Flash Trigger
Transceiver

YONGNUO
DIGITAL

C1
C2
C3
CH/AF

A
B
C
GP/MODE

YN-622N
i-TTL
Wireless Flash Trigger
Transceiver

TEST/—

ON

OFF
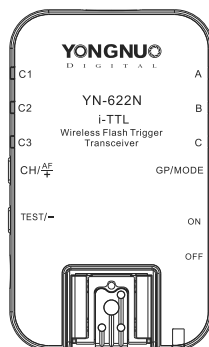
User Manual
## 用户手册

CONTENTS

Cautions

• 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 waster 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; violation of 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.

Conventions used in the manual

❖ **Read this user manual while also referring to your camera's & flash's user manual before using in order to correct use this product.**

The functions described in this user manual are all under the conditions that: all transceivers are set in the same channel, power of all equipments are on, enabled the flash firing. This product is a wireless transceiver design, if the product is not in transmitting state, it will be automatically converted to receiving (stand by) state, **in this manual, the product will be called** transmitter **when it installed on the camera hot shoe, while installed or connected to the flash, it will be called** receiver.

On-top Flash or Master Unit
Off-Camera Flash
Transmitter
Receiver
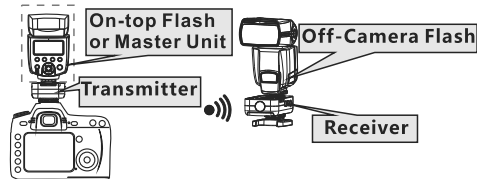
• The below icon used in this manual

➡ Refers to long press(hold down) the button.

⏸➡ Refers to half press the camera shutter button or short press the button .

CH/⁺ AF / TEST/– When describing the function of the key increase / decrease parameter values will using the + / -.

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General Description

Thank you for purchase the products of Yongnuo firstly.

• YN-622N i-TTL wireless transceiver is a high performance 2.4G wireless flash trigger designed for Nikon users. Different photographic effects can be realized through setting the flash at 360 degrees. It supports i-TTL and manual flash, front-curtain sync, rear-curtain sync and high-speed sync(Auto FP), the highest sync speed is 1/8000s*. it can remote change flash exposure compensation or flash output of each group, supports different flash mode mix using. Supports the transmitter installed i-TTL flash, in addition, it supports the master unit on transmitter sets the parameters of each group. This product is a wireless transceiver design, the distance of remote control reaches 100M, supporting 7 wireless channels and A/B/C three groups, and with AF assist beam emitter function.

• YN-622N 2 transceivers kit consist two similar transceivers, support one camera controlling multiple flashes at the same time. Install the flashes with the receiver additionally purchased to make them into an application form of multiple-flashes, number of the receivers is not limited.

※ **Compatible cameras/flashes is needed when using TTL function**

* **The highest sync speed of some camera types is 1/4000s, some of flash or camera models may reach to 1/250s only or less if it doesn't support high sync speed.**

Supported Functions List

- Compatible flash mode: i-TTL, Manual flash
- Compatible Shutter sync: front-curtain sync, rear-curtain sync and high-speed sync(HSS/FP), the highest sync speed is 1/8000s
- Support remote set the parameters of flash through the transceiver (Remote Control Mode)
- Support i-TTL/Manual/Repeating flash mode mix using(Mix Control Mode)
- Support the flash installed on transmitter(on-top flash)and supports i-TTL function
- Support the use of master unit on transmitter sets the parameters of each group(Master Control Mode)
- Support FEC, FVL, BKT function
- Support modeling flash and red-eye reduction flash
- Support flash zooming (auto)
- Built-in AF assist beam emitter (AF Lamp)
- Settings saved automatically
- Compatible with YongNuo/ Nikon series flashes
- Support PC port triggering strobe flashes
- PC port support front/rear curtain sync and high-speed sync(Super Sync)function
- Support single-contact of camera & flash triggering (max sync speed is 1/250s)

Compatibility List

Functions supported by the product depend on the camera and flash used. **In this user manual, assumes that you are using the compatible camera/flash. Updated version of the compatibiulity list and this usermanual can be got from www.hkyongnuo.com**

Compatible camera list :
Nikon
D70/D70S/D80/D90
D200/D300/D300S/D600/D700/D800
D3000series/D5000series/D7000series
Compatible i-TTL flash list :
YongNuo
YN465N/YN467N/YN-468N(II)YN565N/YN568N
**Nikon**
SB-400/SB-600/SB-700/SB-800/SB-900/SB-910
List of that the master unit using master control mode on the transmitter is supported (refer to p15):
SB-700/SB-900/SB-910/SU-800

※The follow functions refer to the manufacturer of the camera and flash.

- **Flash Value Lock(FVL), BKT**
- **Modeling Flash**
- **Red-eye Reduction Flash**
- **ZOOM(flash coverage):**Support the auto zoom which mounted on the top and off-camera flash . Please set manually zoom on the flash if you do not need auto zoom.

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Name of Parts

※The protective film can be torn out.

Short press take effect [CH] / [AF ÷] Long press take effect
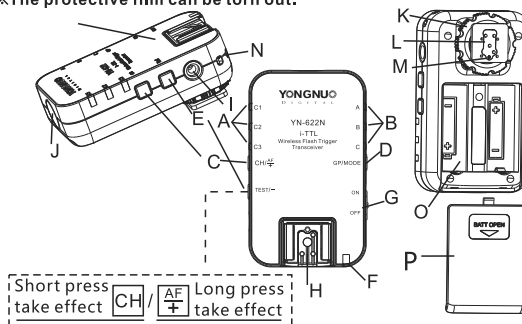
A	Channel indicator	I	PC port
B	Group indicator	J	AF assist beam emitter
C	Channel /AF lamp setting button	K	Locking ring
D	Group /Mode setting button	L	Mounting foot
E	Test button	M	locking pin
F	State indicator	N	Eyelet
G	Power switch	O	Battery compartment cover
H	Hot shoe	P	Battery compartment

| Communication state	State indicator	Channel indicator	Group indicator
Stand by (receive)	RED	Go out	Go out
Receiving	RED	Blink	Blink
Manual Flash-Transmitting	ORANGE	Blink	Blink
i-TTL FlashTransmitting	GREEN	Blink	Blink

Preparation Before Use

1. Installing the Batteries

Open the cover and install two AA batteries (excluded)according to the marks , rechargeable batteries of 1.2V can be used. Status indicator will blinks in red when the battery is low, replace the battery.

BAT:AA×2

※ **Remove the batteries when the product is not used for long time.**
※ **Please replace the both two batteries at the same time.**

2.Installing the Transceiver on the Camera (As Transmitter)
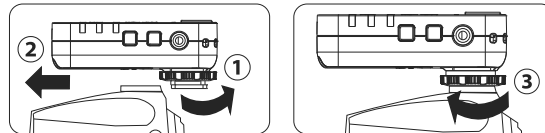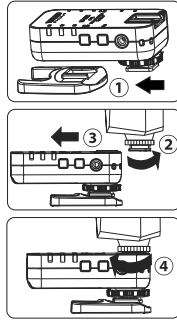

1). Unscrew the locking ring of the transceiver.
2). Slip the mounting foot into the hot shoe of the camera.
3). Turn the locking ring according to the direction of arrow, the locking pin will protrude from the mounting foot.
※ **It is supported that install a on-top flash (or master unit) on the transmitter, refer to p15.**

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Preparation Before Use

3.Install Flash on the Hot Shoe of the Receiver

1. Install the transceiver on the mini stand or other fixing equipment (excluded).
2. Loosen the locking ring of the flash.
3. Slip the mounting foot of the flash into the receiver.
4. Tightly lock the locking device of the flash.

> Caution! The hot shot of the transceivers can only install flash being applicable to DSLR cameras, can not install high-voltage flash, or the transceiver may be damaged.

4.Sets the Flash Mode according to the Control Mode

1).Remote Control Mode: refer to p14.

2).Mix Control Mode: refer to p14.

3).Master Control Mode(Master input): refer to p15.

· Check that all equipments are installed and connected reliably before use, turn all equipments on, setting the transceivers in the same channel, set the group of receivers, set the control mode according to your requirement, setting the flash mode before using, test button can be used to awaken and test whether the flash works before shooting, press the shutter button until the flash recyling completely, and flash fire.
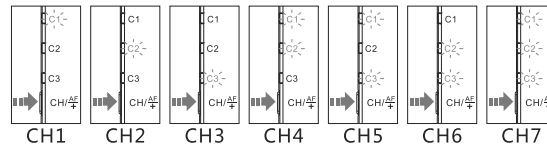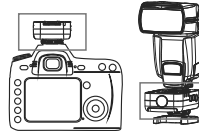
Setting

1. Power Switch

Power on when the power switch slides to [ON], power off when the power switch slides to [OFF].

OFF ⟷ ON
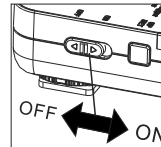
2. Channel Setting

Short press the [CH/$\frac{AF}{+}$] button and the channel indicator will keep lighting for several seconds to indicate the current channel, at this time shortly press the button again to change channel, and there are totally 7 channels. Set all the transceivers at same channel.

| CH1 | CH2 | CH3 | CH4 | CH5 | CH6 | CH7 |

3. Receiver group setting

In standby state short press the [GP/MODE] button to view the current receiving groups, then short press the button again to switch between A/B/C the three groups.
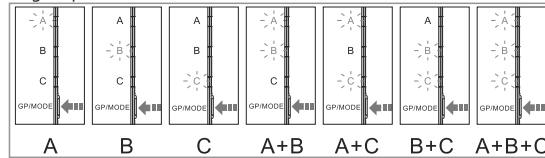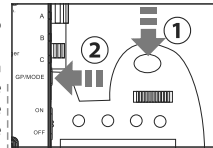

A   B   C
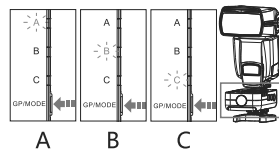
Setting

4.Transmitter group setting

Method 1:

1).Half press the camera button to enter into the transmitting state.

2).Short press the [GP/MODE] button in the transmit state, set the transmitting group, then the indicator light will display the groups involved in flash.

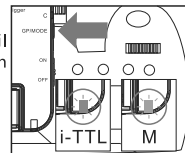

| A | B | C | A+B | A+C | B+C | A+B+C |

Method 2:

Hold down the [TEST/-] button in standby state, and short press the [GP/MODE] button to set.
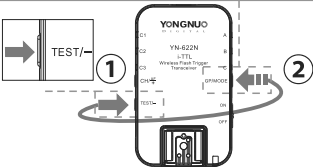
5.Set the transmitter flash mode*

Long press the [GP/MODE] button until the indicator light switch between green (i-TTL flash) or orange (manual flash).

* Remote control mode only

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Setting

6.Set the flash parameter of each group on the transmitter (remote control mode)

• **i-TLL transmitting state: increase/decrease the flash exposure compensation(FEC), supporting the FEC set between -3 to +3 with 1/3 or 1 step.**

• **Manual transmitting state: increase/decrease the flash output(refer to p11).**

1).Half-press the shutter button of the camera to enter the transmitting state.

2).Hold down the [+] or [-] button to set:

Hold down the [+] (or [-]) button, the indicator will blinking circulated with A→B→C→C1→C2→C3→A... loose the button when indicator stay on A/B/C, the indicator will fast blink one times, the FEC (or flash output) of the corresponding group will increase/decrease 1/3 step; loose the button on C1/C2/C3, the indicator will fast blink three times, the corresponding group will increase/decrease 1 step.
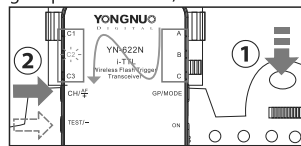
C1 corresponds to group A
C2 corresponds to group B
C3 corresponds to group C

Example: as shown in figure, hold down the [+] button in transmitting state, release until C2 indicator on, it will increase 1 step of the FEC (or flash output) on the flash for group B receiver.

※ **It is supported to set the FEC on the flash directly , the compensation value shall be superposed according to flash setting plus the transmitter setting.**

Setting

Manual Flash Output Control(remote control mode)

•   YN-622N provides a general way of manual control of the flash output . For the same manual flash output values of 622N, even using different GN of the flash, the output is the same (in case not exceed the effective range of the flash).

•   The minimum manual flash output value of 622N is 1, the maximum flash output according to different GN of the flash, the default value is 8, add 1 step is 10.4, add 1 step is 16, and so on. The value of 622N is proportional, when the value A is twice as B, the flash output of the former is half of the latter, refer to the form below.

1	1.3	1.7	2	2.6	3.4	4	5.2	6.8	8	10.4	13.6
16	20.8	27.2	32	41.6	54.4	64	83.2	108.8	128		

When the 622N using master contorl mode(refet to p15) , the manual output values of the master unit and manual output value of YN-622N convert as below:

MASTER	1/128	+0.3	+0.7	1/64	+0.3	+0.7	1/32	+0.3	+0.7	1/16	+0.3	+0.7
YN-622N	1	1.3	1.7	2	2.6	3.4	4	5.2	6.8	8	10.4	13.6
MASTER	1/8	+0.3	+0.7	1/4	+0.3	+0.7	1/2	+0.3	+0.7	1/1		
YN-622N	16	20.8	27.2	32	41.6	54.4	64	83.2	108.8	128		

※ When setting the flash mode and parameters on the transmitter, the screen of the flash on the receiver will not change.

※ Restart the transmitter will restore the default compensation or the flash output setting. (i-TTL compensation=0 /Value of Manual flash=8)

※ When the setting parameters reach the maximum or minimum, the corresponding indicator will not blink.

Setting

7.Flash Shutter Sync:

• Refer to the camera's setting. Supports front-curtain sync, rear-curtain sync and high speed synchronous (HSS/Auto FP*).

*Using high-speed synchronization need to set the flash sync speed of the camera to AUTO FP.

*The maximum high-speed synchronization speed is 1/8000s or 1/4000s (depends on the camera).

*Some models of camera does not support the HSS (without Auto FP option), the shutter speed will be limited to 1/250s or less when using this kind of camera.

8.AF Assist Beam Emitter

• When using AF under low-light, the built-in AF-assist beam emitter of the transmitter will be emitted automatically to make it easier to autofocus, and the on-top flash which support AF assist beam emitter function can also be emitted at the same time.
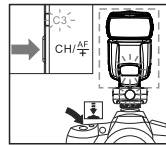

Enable/disable (stand by)

Operate / State	Channel indicator	AF assist beam emitter
Press 【CH/AF】 button less than 3 seconds	On	Enable
	Off	Disable
Press 【CH/AF】 button more than 3 seconds	Blinking three times	Enable/Disable

※ **It need to using single AF of the camera.**

※ **Both the receiver and the off-camera flash on the receiver will not be emitted.**

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Flash awaking and testing flash

* When half press the shutter button of the camera, the hot-shoe flash will be awaken.
* In standby state, pressing the [TEST/-] button of the transceiver will awake the flash. When loosening the button, the flash of the group having been selected will fire a test flash.
* In transmitting state, short press the [TEST/-] button will fire a test flash.
* Refer to the following figure, the transmitter sets A+B two groups of flash , hold down the [Test/-] button, the flash on A and B of the receiver will be awakened, and when loosening [TEST/-] button will fire a test flash.
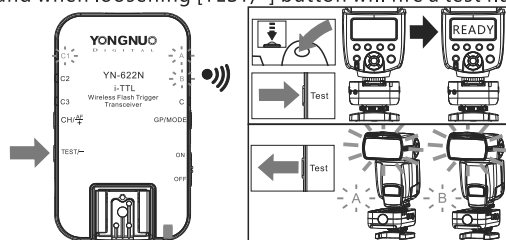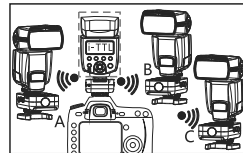

※ **If the flash can not be awakened, manually awaken the flash before shooting.**
※ **Using PC port to connect with flash without the awakening function.**
※ **All the indicators going out when flash fires(Receiver).**

Usage
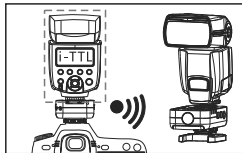
• 2 Transceiver kit packages
Use 1 off-camera flash or 1 off-camera flash + 1 on-top flash.

• Compose multiple groups through additional purchase transceiver.

1.Remote Control Mode:
• Set the flash(receiver) to i-TTL flash mode, the flash will fire according to the flash mode and parameters set by the transmitter, support i-TTL/Manual Flash. (P9-11)
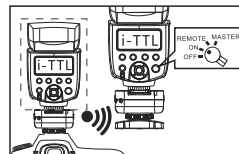
2.Mix Control Mode
• Supports the use of flash on the transmitter or the receiver works at the same time in different flash modes include i-TTL, Manual, RPT flash.
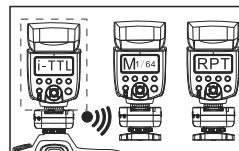
Set the flash on the receiver to Manual or RPT flash mode, the flash will work according to the mode and parameters displayed; Set to i-TTL flash mode, it will work according to the transmitter's setting(same to the remote control mode), the on-top flash refer to p15.

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Usage

3.Master Control Mode& On-top flash.

1.Power on of the on-top flash: First turn on the on-top flash, then turn on the transmitter.

2.The on-top flash use non master control model:

•   Flash modes, exposure compensation (flash output), zoom or other parameters set directly on the flash, not affected by the transmitter settings. Supports i-TTL, Manual, Repeating flash.

3.The on-top flash use master control mode:

•   Using the on-top flash(master unit) which support master mode to set each group of flash mode and parameters, support i-TTL, Manual flash.

1.Turn on the master unit and set to **MASTER**(commander mode), then turn on the transmitter.

2.Set the receiver group, turn on the flash(Do not set to remote), and set to i-TTL flash mode.

Group:A Group:B

3.Set the flash mode and parameter on the master unit of each group (refer to the manufacturer's usermanual). It will communicate via the YN-622N transceiver's channel.
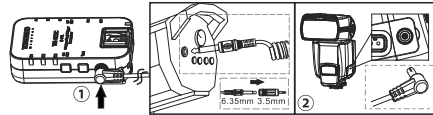
4.Use the test button of the transmitter to test flash and shoot, the flash fires.

※**The master unit set on the on-top of the transmitter will not transmit infrared commands.**
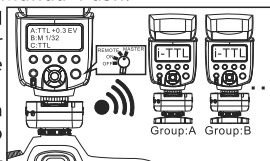
Usage

4.PC Port Triggering (Support Super Sync *)

6.35mm 3.5mm   ②

Caution! Do not connect to the PC port any flash requiring trigger voltage more than 300V, or the transceiver may be damaged.

·   Purchase corresponding PC flash sync cord according to the different ports of the flashes needs .

1. Use an end of PC sync cord with nut to connect to the receiver.
2. The other end of the PC sync cord connects to strobe flashes or other flashes which supporting PC port.
3. Set the camera's shutter sync as front-curtain or rear-curtain.
4. Adjust shooting parameters and shoot.

* Super sync: Use the non-high speed sync flash to realize higher sync speed, this function is more applicable to strobe flashes whose flash duration is longer, and it is for the camera which support Auto FP only.

1. Connect the receiver to flash via PC port and it may needs setting at manual full-power flash output (1/1).
2 . **Set the flash sync speed of the camera as AUTO FP**, the maximum shutter sync speeds can reach to 1/8000s. Take photos and check whether the photos are synchronous , it may see gradations or variations in the photos, results depend on the camera and flash.

※ **The PC port is for output using only.**
※ **Flashes on the hot shoe and connecting to the PC port can be used at the same time.**

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Usage

5. The single contact camera/flash: Manually setting the flash output

1).Transmitting group setting: According to the transmitter group setting method 2(P9).

2).Flash mode setting (on the flash): Set to manual flash mode, use the transmitter's main flash trigger contact; but it does not support high synchronous speed or other TTL function(the maximum synchronous speed is 1/250s or less).

• **Factory Reset**
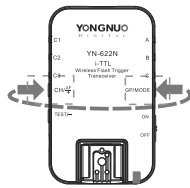
1.)Hold down 【CH/⎯ᴬᶠ】 + 【GP/MODE】 button at the same time.
2.)The indicator light will light up in sequence from A→B→C→C1→C2→C3→state indicator (red).
3.)Loose all the buttons will restore factory reset.

• **About the Max Sync Speed**

It needs the camera and flash both support hi-speed sync, and the max sync speed is 1/8000s or 1/4000s. When using the hot shoe flash which doesn't support hi-speed sync, the max sync speed is 1/250s or lower.

• **About Automatic Saving Function**

The transceiver will auto saving the sets such as channel, receiving group, AF assist beam. The exposure compensation and flash output will not be saved.

Troubleshooting

1. Fail to power on or automatic shutdown:

● The battery is loaded inversely or exhausted; it will power off automatically when the battery is going to be exhausted in case of being over discharged.

▲ Install the battery according to the correct direction the battery compartment indicates and ensure the battery is full and restart the power (refer to page 6).

2. The flash doesn't fire

Ensure the power of all equipments are full, the connection among the transceiver, camera and the flash is reliable; whether the indicator is set in the same channels and controllable groups. Flashes recycle process, entering in the state of overheating protection, ongoing zoom adjustment, the flash enters into sleep status etc. may makes the flash doesn't fire . Ensure the flash is in ready state, use the [TEST/-] button test the flash before using.

3. i-TTL underexposure or overexposure:

Check whether the camera body or the flash set compensation setting.It may be underexpose if exceeds the flashing effect distance . It may overexposure when TTL and manual flash are used at the same time, now the manual flash suits to be used as a backlight.

❖ **It is suggested using the following procedures to deal with when other trouble occur during the using:**

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

Specifications

System type: Digital FSK 2.4GHz wireless transceiver
Distance: 100M
Channel: 7
Flash mode: i-TTL, Manual flash
Sync mode: front-curtain sync, rear-curtain sync, Hi-speed sync(Auto FP)
Groups: 3Groups (A/B/C)
Sync speed: 1/8000s*
Input: Hot-shoe
Output: Hoe shoe, PC port
Compatible type of flash: Hot-shoe flash, Strobe flash
Battery: AAX2 (support 1.2 V rechargeable battery)
Stand-by time: 60h
Dimensions: 89.5×53×39mm
Weight:78g

*   Sync speed of part of cameras and flashes may be lower.

※ All of the specification parameters are base on test conditions of our company. All registered trademarks are the property of their respective owners in this usermanual. Specifications subject to change without notic.

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.