# DIGITAL

# **USER MANUAL**

Caution

case of below.

battery with gloves.

product to rain or moisture.

when handling the batteries.

doctor immediately when it occurs.

in a short distance from the eves.

To avoid fire or electrical shock, do not expose this

Do not flash at high level output continuously for over 15

To avoid short circuit, be sure the batteries contacts are

securely packed and in accordance with local provision

Please place the batteries and the parts which can be

swallowed mistakenly away from children. Contact a

To avoid possible injury to eyes, do not use the flash light

To avoid possible safety accident, do not use the flash

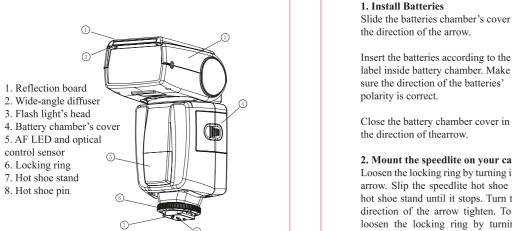
light on the people who need a high degree of attention.

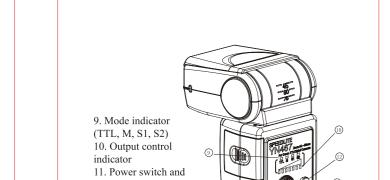
Please take out the batteries and stop using immediately in



Please read and understand this entire manual before using this product. Keep it for future reference.

# II. Nomenclature





• 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 output control knob 12. Mode switch button • The product gives off strange smell, smokes or heats. Test button

Do not disassemble or maintain this product. Touching the 14. Charging indicator internal high voltage circuit will cause electric shock.

III. Installation Instruction

IV. Basic Functions

1. Basic Operations

Slide the batteries chamber's cover in



Close the battery chamber cover in the direction of thearrow.



### 2. Mount the speedlite on your camera

Loosen the locking ring by turning it in the direction of the arrow. Slip the speedlite hot shoe stand into the camera hot shoe stand until it stops. Turn the locking ring in the direction of the arrow tighten. To detach the speedlite, loosen the locking ring by turning it in the opposite







# Operation of the buttons and the knob:

Component	Operation
[Power switch and output control knob]	When the power is switched on, output control is possible to control exposure compensation in TTL mode, and control output power in M/S1/S2 mode.
[Mode switch button]	Every time it is pressed, the flash light mode switches between TTL/M/S1/S2.
[Test button]	Press it to test the output brightness of flash light.

## Meaning of [Output control indicator]:

## \* [-0-]represents <ON> state of indicator's light, while [0] represents <OFF> state.

in TTL Mode, indicates in M/S1/S2 Mode, exposure compensation indicates the output level

State of [Output control indicator]	Exposure Compensation	State of Output control indicator	Output Level
;¢ê¢ê¢ê¢€0 0 0	-1.5ev	÷¢000000	1/64
0;00000	-1.0ev	÷¢÷¢:0 0 0 0 0	1/32
0 0 %;0;0;0 0 0	-0.5ev	÷¢÷¢÷¢÷0 0 0 0	1/16
0 0 0;0;0 0 0	0ev	÷¢÷¢÷¢÷¢÷0 0 0	1/8
0 0 0;0;0;0 0	+0.5ev	;¢≘¢≘¢≘¢€¢€ o o	1/4

Meaning of [Charging indicator]

Meaning

0 0 -0 -0 -0 -0 -0 | +1.0ev | -

0 0 0-0-0-0-0-0- | +1.5ev | -(

Status of

[Charging

Indicator]		•
The red light is lit.	The flash light is fully charged, and can be used.	Normal
The green light is lit.	The flash light has not been fully charged.	If the green light is lit for a long time, replace the batteries.
The green light blinks.	The flash light is locked due to low battery.	Replace the batteries.
The red light blinks.	The flash light is in the power saving mode.	Normal
The red and green lights blink alternatively.	The flash light is locked to prevent overheating due to frequent flashing.	Wait for about 3 minutes to cool the flash light.

Operation

2. Power-on and Power-off Turn the switch knob clockwise to turn on the flash light

power supply; at the same time, the flash light is set as TTL mode, the charging indicator is green and it will turn to red after the charge is finished many seconds later,

power supply.

3. TTL Mode

value set on the camera.

synchronous signal.

5. S1/S2 Mode

environment.

4. M Mode

which indicates the flash is available. If the charging indicator keeps green for more than 20 seconds, the indicator will flicker alternatively between red and green and the flash light is in locking state, which indicates the battery is low and new battery is required. After use, turn the knob counterclockwise until the charging indicator is off and then you can turn off the In this mode, the metering system of this camera will

via the camera menu. With the setting function detect flash illumination reflected back from the object so as to automatically control flash output. When taking of the external flash function photos, you only require aiming at some scene and press in the flash control menu. the shutter after focusing, the light will give proper light vou can switch between the as per tips and then you can get your desired photo. TTL mode and the manual flash mode; in addition, on

In the TTL mode, you can also make compensation of flash brightness with the [Output control knob] within the range of  $\pm 1.5$  ev, with the precision of 0.5 ev. Note: The or 1/2ev step length. compensation value can be added to the compensation 7. Test Flash

In this mode, you can set flash luminance as per your favorite; luminance level will be displayed by luminance indicator. When taking photos, you only require setting of output power selected. the flash luminance, adjust the camera and press the 8. Power-saving Function shutter, the flash light will flash under the camera In TTL/M mode, if idle for about 40~50 seconds, the flash

Press the MODE key, then the flash will enter S1/S2 mode. These modes are applicable for slave flash in order to create many light effects. They are respectively 9. Overheating protection applicable for manual flash environment and TLT flash

If the flash light is used too frequently, its overheating When the flash is in S1 mode, it will work with the first protection function will be triggered, the red and green

sleep state.

work of the master flash synchronously, with the result and the flash light will be locked. In such case, please wait consistent with the use of radio slave. To use this mode for three minutes to cancel the protection before continucorrectly, the master flash should be set at manual flash and ing the use. the TTL flash system with pre-flash function and the redreduction function with multiple flashes should not be used. 10. Auto Zoom S2 mode, known as "pre-flash cancel mode", is similar to S1 When the flash light is mounted on the camera system

# flash with the inbuilt flash, you can try to use S2 mode. 6. Switch Mode from Camera Menu (only compatible

(for Nikon version only): For Nikon version, you can manually set flash head

zoom by holding the [MODE] button for more than 2 seconds. Hold the [MODE] button, the flash head zooming position will recycle in auto, 24, 35, 50, 70 and 85mm. In setting the lamp zooming position, the indicator showed by the displayed position can be found in the table below:

\*[汝] represents <ON> state of indicator's light, while \* [0] represents <OFF> state. such menu, you may also set front and rear curtain

synchronization, and set manual flash output with 1/3ev

mode, but it can support the master flash in TTL mode. In

particular, if S1 mode cannot have correct and synchronous

with Canon ETTL camera system)

On the Canon camera

supporting ETTL, you

can switch flash mode

Whether in any mode, you can press PILOT button to test if the flash light flashes normally. In M/S1/S2 mode, press the PILOT button and the flash

0 0 0 <del>}0; }0;</del> 0 light will send light with different luminance as per levels 0 0 0 0 0 \$\dot\;

will enter sleep state in order to save power. Press any button to wake it up.

In S1/S2 mode, if idle for 30 minutes, the flash will enter

more space.

lights of the charging indicator will blink alternatively, flash, test whether SI/S2 can be synchronous normally. Do not place any obstacles between the host flash and the

supporting i-TTL/ETTL, the flash light tube will move forward and backward with the changes of lens focus to suit different illumination zones. Note: Auto Zoom does not support full frame camera system, but you may pull out the wide-angle diffuser to avoid vignetting in photos.

# 11. Manually set the zooming position

Application of MODE to set the lamp zoom position State of indicator ÷Ú÷ ÷Ú÷ O O O O O 0 % % 0 0 0 0 0 0 🌣 🌣 0 0

### 4. FE Lock (Canon) To use this function, cover the subject for which flash

Camera Instructions.)

5. Rear-curtain Sync

refer to your camera manual)

radio signals.

2. Exposure Bracketing (FEB)

success rate of photo taking.

3. FV Lock (Nikon)

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 which, you can take photo. (The function can be used only when it is supported by your camera. For the setting method, refer to your

# 1. Multi-flash Lighting Application

slave 2

Use inbuilt flash or top-mounted flash as master flash. Place YN460-II in different

directions. In outdoor application, radio

signals can be reflected by walls; therefore, the placement | slave 1 of the slave flash should have Before placing of the slave

V. Advanced Application

# 6. Application of AF LED

camera can not conduct accurate focusing; at this time, the flash light can give out AF light to assist in the camera's focusing so as to achieve accurate focusing.

### In radio flash mode (S1 or S2), if the flash is idle for 30min, 7. Exposure Compensation it will enter sleep state. You can use the exposure compensation function of this

slave flash, because they may block the transmission of

The FEB function is set on the camera. For the specific

setting method, refer to your Camera Instructions. After

the FEB is set, exposure compensation will be made

automatically in the sequence of, for example, "normal-

Set the AE-L/AF-L function as FV Lock on the camera

your desired object in the viewfinder and then press the

AE-L key or 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. (This function can only be available when

your camera supports it; for the setting of AE-L and AF-L,

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)

before using this function. At this time, you can aim at

under→over". This function helps you improve the

camera to compensate flash output so as to make shooting effect better meet your requirements. (For Canon version, the exposure compensation function on camera is available only in TTL mode)

In the TTL mode, you can also make compensation of flash brightness with the [Output control knob] within the range of  $\pm 1.5$  ev, with the precision of 0.5 ev. Note: The compensation value can be added to the compensation value set on the camera.

### 8. Reflection Flash

in photo.

9. Use Reflection Board to Take Photos

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 (catchlight). This

function can reach optimal effect when the flasher head is

With the reflection board flash,

draw the reflection board and

the wide-angle diffusion board

out from the light head at the same

time and then push the wide-

angle diffusion board back. In

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

the zooming position

72×135×85mm

Net weight

mini stand (1) and manual (1)

light assist AF or if it supports the function; some cameras requires focal points to be in the center, focus method to adopt AF-S and requires dark environment; check if some settings in the camera are forbidden.

10. Use Wide-angle Diffuser If the object or environment lacks sufficient light, the Pull out the wide-angle diffusion

board, push back the reflection board and arrange them as per the figure; in such case, the flash scopes will extent to 18 mm and

wide-angle diffuser to widen the flash range. 4. Because of differences among various models of cameras and different personal preferences, the use of this

VI. Specifications Guide number

Note: When this product is used in incompatible

iTTL/ETTL camera, Functions 2, 3, 4, 5, 6 and 7 are

the flash effect will be softer and

more natural.

not available.

Circuit design

Lighting times

Recycle time

Dimensions

Flash mode

Insulated Gate Bipolar Transistor (IGBT) TTL, M, S1, S2

100~1500 times (AA alkaline

Vertical rotation angle -7~90 degrees Horizontal rotation angle 0~270 degrees 4×AAsize batteries (Alkaline

or Ni-MH are usable)

approx 5s (AA alkaline cell

Color temperature 1/800s~1/20000s Flash time

Flash control TTL auto flash or manual

Level 7 Light quantity output

Additional features FEB, FEC, FEL, Automatic zoom

Read-curtain sync, Manually set

(for Nikon version only).

Accessories Flash light (1), protecting bag (1),

### VII. Possible problems during use and solutions 1. The AF LED is not on? Check if this camera needs flash

2. 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

3. Vignetting appears in photos or only part of the subject

is illuminated? This product has a designed light head

zoom range of 24-85 mm, and is currently not compatible

with full frame camera system. You may pull out the

product may cause the whole overexposure or underexposure;

5. You may feel the flash control panel is dim, because

there is one protective film on the panel; you can tear it

6. The flash light is abnormal? Switch off the power of

flash light and camera, mount the flash light on the hot

shoe of camera, and switch on the power of flash light and

camera again. If the abnormity continues, replace the

7. Precaution for outdoor use of lambency umbrella:

The lambency 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

The functions of this manual are based on test conditions

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please try to make adjustments by the camera flash

compensation or exposure compensation settings.

away to enjoy a clear visual effect.

rack or avoid outdoor use.

design and specifications change.

property of their respective owners.

in relation to flash are proper.