# Nissin

# SPEEDLITE **Di466** DIGITAL TTL POWER ZOOM FLASH INSTRUCTION MANUAL



Nissin Speedlite Di466 is developed for digital SLR and hotshoe type cameras with the latest TTL flash control technology.

Note: No film camera can be used with Di466

#### Type C is

for Canon EOS digital SLR cameras, model EOS 300D\*1, 350D\*2, 400D\*3, 450D\*4, 10D, 20D 30D 40D 5D 1D Mark II 1D Mark II N 1Ds Mark II, 1D Mark III and 1Ds Mark III, as well as Powershot G7, G9 and S5IS It works automatically with E-TTL II and E-TTL auto-flash system.

\*1.\*2.\*3.\*4: In America and Canada : Rebel X, XT, XTi, XSi

#### Type N is

for Nikon digital SLR and hotshoe type cameras, model D40, D40x, D50, D60, D70. D70s, D80, D200, D300, D2H, D2Hs, D2X, D2Xs and D3, as well as Coolpix P5000, P5100 and Fuji Finepix S5Pro. It works automatically with i-TTL auto-flash

system. Attach Di466 to your camera, and then almost all jobs are controlled by the camera

for the most proper exposure Read this instruction manual and refer your camera owner's manual to enjoy flash photography.

# Nissin

Nissin Japan I td., Tokyo http://www.nissin-japan.com

Nissin Marketing Ltd., Hong Kong http://www.nissindigital.com

#### WARNING

This sign refers the danger or serious damage.

- The flash unit contains high voltage electric parts. Do not try to open or repair the flash unit. Return it back to the repair service station or the store you bought it.
- Do not touch the inside parts from the opening when the unit was dropped and broken
- Do not fire the flash direct to the eye at short distance. It may damage the eye. When taking flash picture especially toward a baby, it is recommended to keep the flash unit at least 1 meter (3.3feet) away from the subject. Or use diffuser or bounce the light to the ceiling or to the wall to soften its intensity.
- Do not use the flash unit in the flammable gas, chemicals or such liquids. It may cause fire or electric shock.

# CAUTIONS

Nomenclature

No

Ð

Fill-in reflector

Flash head

G AF-assist light

B

Pilot lamp (Test flash button)

On/Off switch (Press button)

Mode select button/indicator

Flash power level select button

Accessories: Flash stand. Pouch

(TTL→Manual→Slave 1→Slave 2)

Flash power level indication lamps (6 LEDs)

Light diffusing panel

B Wireless flash sensor

This sign refers the damage or defect.

- Do not leave or store the flash unit in the temperature over 40°C, such like in the automobile
- The flash unit is not water resistance. Keep the unit away from rain, snow and humidity.
- Do not use benzene, thinner or other alcoholic agents to clean the unit
- Do not use this flash with the cameras which is not listed in this instruction manual, otherwise it may damage the camera's circuitry.
- Remove the batteries when not in use for a longer period of

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For Nikon iTTL Digit

6 Lock ring

Mounting foot

8 Hotshoe contacts

Battery magazine

MA

Flash stand

# ■ BASIC OPERATION

## serting batteries

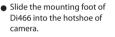
- Remove the battery nagazine and insert 4 x size AA batteries as shown in the picture.
- The battery compartment designed so that each cell i placed in same direction to avoid the confusion in poo light situation.
- +/- symbol is clearly marked at the battery
- Place the battery magazin back into the body

#### (NOTE)

It is recommended to use all 4 batteries in same brand and type, and replace them all at the same time. Wrong insertion of each cell does not make electric contact

#### Mounting Di466 on the Camera

 Turn the lock ring to loosen it as shown in the picture.



- Turn the lock ring to pposite direction and tighten it.
- Lock pin comes out to nook the foot at the hotshoe for sure contact

### moving Di466 from the Camera

- Loosen the lock ring and slide the mounting foot of Di466 off the hotshoe of the camera. Make sure to turn the lock ring all the way to completely clear the lock pin off the nooking slot on the hotshoe.
- (NOTE) Before mounting or removing Di466 into or from the camera. it is recommended to turn off the power switch of both Di466 and the camera.

#### Turn on the flash unit

- Press the On/Off switch and Pilot lamp turns red showing the unit is turned
- In a few seconds, the Pilot lamp turns green. Di466 is ready to shoot.
- For a test flash, press the Pilot lamp. When using the test flash as an open flash, please note that the reference guide number in this case is G.No.10 (ISO 100).
- To turn off the flash unit manually, press the On/Off switch for 2

# WARANTEE

- In case of the following reason of the defect, it may void the warrantee. Please refer the respective warrantee condition for details which depend on the country by country 1. The product is not used in accordance with the instruction
- of the owner's manual 2. The product is repaired or modified by the one who is not
- an authorized repair service agent. 3.When the products is used with the cameras not
- applicable, lens, adaptors or such accessories produced by the third party

#### (Di466 has energy saving double power off function.)

- To save battery energy, the power is automatically turned off (to stand-by mode), both in TTL mode & Manual Power mode in about 2 minutes of idle use.
- While Di466 is in the stand-by mode a Pilot lamp blinks every 2 seconds showing the flash unit is in stand-by mode. To turn on Di466 again, press the camera's shutter button

halfway or press any button of the flash unit In case Di466 is not in use over 30 minutes, the unit is completely turned off and shut out the current leakage from the batteries

To turn on Di466 again, take the first step of turning the flash unit on

In case of using Di466 as a slave flash (at slave mode\*5), Di466 will not go into the stand-by mode. It will however automatically turn off when not used over 60 minutes. \*5: Slave mode : Refer instruction below.

#### Shooting Di466 automatically

#### Canon cameras:

[P](Program), [](Full Auto), [Av](Aperture priority), [Tv](Shutter priority) or [M](Manual):

#### Nikon cameras;

[P](Program), [ Auro ](Full Auto), [A](Aperture priority), [S](Shutter priority) or [M](Manual);

In all camera's shooting mode listed above. Di466 will fully work in TTL (ETTL, ETTL-II for Canon, and i-TTL for Nikon) automatic-flash system

- Set Di466 to the camera's hotshoe and turn on the power
- Di466 is automatically set for the camera's TTL mode when ready lamp lights up.
- Press the shutter button of your camera halfway to focus the
- ullet Shutter speed, aperture and flash mark ( ullet are indicated in camera's view finder
- Take the picture. Di466 is fired and the result is immediately shown on the camera's LCD display.
- When you change the focal length, The power zoom flash head of Di466 responds without delay and immediately sets its position to match the lens focal length you selected.
- The flash illumination coverage of Di466 responds to the lens focal length of 16mm to 70mm (24mm to 105mm/film camera standard)

Set the camera's shooting mode, select focal length and take pictures with Di466 on your camera Di466 is a supplement to help your taking a creative and live picture. Almost all jobs are automatically done by the camera and you just control the camera only.

Mo Canon	ode Nikon	Shutter Speed	Aperture Setting	Control on the camera
[[]]		Automatic	Automatic	Automatic
[P]	[P]	Automatic	Automatic	Automatic
[ <b>T</b> v]	[ <b>S</b> ]	Manual	Automatic	Any available shutter speed can be set.
[Av]	[ <b>A</b> ]	Automatic	Manual	Any available f-stop can be set.
[M]	[ <b>M</b> ]	Manual	Manual	Any shutter speed / f-stop combination can be set.

- 4.Fault or defect caused by fire, earthquake, flood, public pollution and such natural accident.
- 5.In case that the product is stored in dust, moisture extremely high temperature or such poor condition.
- 6.Scratch, blemish, crush or worn out by a violently use or treatment.
- 7.Guarantee card without name of place purchased or date of purchase stamped, or no guarantee card







On/Of

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# ■ JOY OF FLASH PHTOGRAPHY

Pilo

On/Off

#### TTL flash power compensation

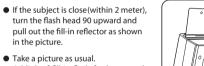
With the latest TTL flash - () M/S1/S2control system, the flash power level is always automatically controlled by the camera for the most appropriate exposure. You  $\begin{bmatrix} EV \\ (- + ) \end{bmatrix}$ wish if you can soften or

weaken the flash light, or give more light to the subject without changing the environmental r background exposure effect Di466 can make it possible quickly for each shot at respective occasion of flash picture.

- TTL flash power compensation is provided in 7 steps by half Ev increment for -1.5 -1.0, -0.5, 0, +0.5 +1.0, and +1.5ev.
- Set the Flash power level select button to the power level you
- When Di466 shows no level indication LED is turned, the flash power compensation level is at even(0Ev) level as default value.
- Press the flash power select button, by each press of + marked knob, it sets the power of  $+0.5 \rightarrow +1.0 \rightarrow +1.5$ Ev, and the marked knob sets it to  $-0.5 \rightarrow -1.0 \rightarrow -1.5$ Ev. The power level indication lamp shows the power level you set.
- Take a picture and the aimed subject is shown with required lighting effect by keeping the background exposure level as originally expected.
- On some cameras, the TTL flash power compensation setting i provided in its menu mode. When setting the TTL flash power compensation on your
- camera, the same of Di466 is, in this case, to be counted in addition to the compensation you selected in the camera's menu mode

#### Fill-in flash and Light diffusing panel

For short distance or portrait flash photography, we wish if the light is not too sharp or too strong to the subject. Use fill-in reflector flash or diffuse the light.



A blink of fill-in flash freshens up the subject in natural image. • This small blink of flash is also useful

when taking a picture of baby without scaring him.

- This technology is also useful to eliminate the shadow on the subject under the tree.
- For portrait photography, pull out the light diffusing panel and place it over the flash window as shown in the picture. The diffusing panel makes the flash light soften and creates a lively color effect on the subject

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• Since the light diffusing panel expands the lighting area, it covers the range of 12mm focal length lens(18mm for film camera standard)

#### Bounce Lighting

When taking a picture of a baby or small children, do not shoot the flash straight on to them. Bounce the light off the ceiling or wall so that it won't scare them.

The lighting on a subject in front of the wall creates an unnecessary sharp shadow on the wall resulting the picture disappointed. Bounce the light off the ceiling or wall to soften the light on the subject. and the shadow fade ou

- Turn the flash head upwards. It turns upward to 45 > 60 > 75 > 90.
- When the flash head stays at turning or tilting position, the zoom setting position of Di466 is automatically set at
- the position for 33mm(50mm/film camera standard) focal length lens.
- The wall or ceiling in this case should be flat surface and white color is preferable. Colored ceiling or wall may reflect its color on the subject.

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## AF assist light emitter

Under the low light condition in the dark place AF assist light vill automatically emit the beam and illuminate the subject, so that the camera can easily focus the subject in darkness. The beam is however not shown in the picture.

# Flash Power Lock

When the back ground of the main subject is too bright, the camera's exposure reading system adjusts the flash light intensity for such back ground condition and it result the main subject underexposed. Or in case the main subject is not placed in the center of the viewfinder, flash picture may result the aimed subject under or over exposure. You can lock the correct flash exposure for the aimed subject

in such a condition. This flash exposure pre-set remains locked in, even if you change the aperture or zoom the lens in and out. This mode can only be set on the camera.

#### With Canon cameras; FE lock

- Focus the subject.
- Aim the viewfinder center over the main subject and press [ ++button on the camera (or [ FEL ] buttor on some cameras
- Pre-flash is fired to pre-set the correct light amount for the main

. . .

Remarks: FEL only work on P, TV, AV, M & A-Dep mode.

### With **Nikon** cameras; **Fv lock**

- Set the Fv lock mode at the nu on your camera.
- Focus the subject. Aim the viewfinder cente over the main subject and
- AE-L ] button on the camera (or [ AF-L ] button on some cameras
- Set the picture frame as you desire and release the shutter.

#### (For Nikon Version only

Following functions are available on Nikon cameras. Refer to camera owner's manual for details.

#### Slow shutter synchronization

The flash is controlled at a slow shutter speed to the correct exposure for both the main subject and back ground in low light conditions or at night.

#### Red-eve reduction

To prevent the subject's eyes from appearing read, Di466 fires three controlled flash just before the picture is taken. Red-eye reduction can be combined with slow sync.

#### Rear curtain synchronization

In rear-curtain sync., the flash fires just before the rear curtain close. By using this function at slow REAR shutter speeds, a moving subject will appear with such moving marks behind.

### Manual Exposure Flash

- exposure. You can set Di466 for non-automatic flash mode, and select the desired flash power from 6 different levels • When the flash unit is turned on, it is automatically set for TTL
- (E-TTL II / E-TTL for Canon, or i-TTL for Nikon) automatic flash node. In this mode, the mode select indicator does not light.

- ∭M/S1/S2 -

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- | +)

Pilot

(

On/Off

In some occasion, or for special expression, you may need

your own flash exposure instead of automatic controlled

- Press the mode select button.
- The color of mode select ndicator turns to Red as shown in the picture.
- You can select the power rom the left to right,
  - 1/32 1/16 1/8 1/4 1/2 1/1(Full) powe
  - Set the camera shooting mode to either [AV](Canon) [**A**](Nikon), or [**M**].
  - Select your desired F-stop and/or shutter speed. Point the subject and press the shutter.

# Wireless Remote Flash

Di466 has a wireless remote flash system as a slave unit You can enjoy creative flash photography with multiple lightings from the various directions, 2 slave modes are provided, Slave 1 (S1: color green) for digital pre-flash system and Slave 2 (S2: color blue) for analog flash system. Slave 1: In this mode, Di466 synchronize to the pre-flash

em. The master flash is to be set at TTL(e-TTL for Canon and i-TTL for Nikon) mode

single flash system. The master flash is to be set at manual mode. Studio lighting system synchronizes to this mode. This mode is also available for open flash, and for a standard flash in the market

#### Setting master flash:

and switch it on Or set the camera for flash mode to always fire the built-in

flash



Switch Di466 on and while the ready lamp is on, press the mode select button to select S1(color turns Green) or S2(color turns Blue). The mode select button turns to TTL(nolight)-Manual(red)—S1(green)—S2(blue) and back to TTL.

When flash is set to either slave mode the fist lamp of Flash power level indication lamps is lighten. This lamp shows the 1/32 manual power level of the On Flash power

 $1/16 \rightarrow 1/8 \rightarrow 1/4 \rightarrow 1/2$  and Full. Press the button at marked — to power downward The power you selected is memorized and remains

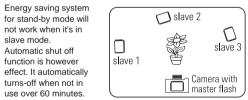
unchanged untill the unit is switched off.

- desire. Slave sensor may not respond to the master flash in the extremely bright condition or under the poor sensing situation.
- which can be placed
- contact of the flash hotshoe.

Set the camera for flash shooting mode. Point the subject and

additional lighting from the different direction you desired

for stand-by mode will not work when it's in slave mode. Automatic shut off function is however effect. It automatically turns-off when not in



Press too

Pilot

On/Off

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The zoom setting position is automatically set for the focal

To reset the flash unit to the other mode, press the mode select button for TTL and or Manual mode

#### TTL Exposure level custom setting

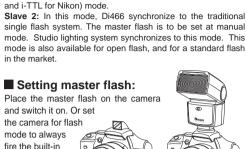
TTL exposure level is accurately calibrated for standard balance in accordance with Nissin's standard. If any adjustment is however required, or if you like to set your preferable level, it can be adjusted for about  $\pm 0.75(3/4)$ ev This adjustment can only be set when the flash is off. Insert the battery magazine with 4 batteries fully loaded as instructed above.

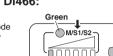
Purple

— 🕐 M/S1/S2 –

\*\*\*\*

Press the pilot lamp and On/Off switch both together and hold for 3 sec The mode select lamp turns purple showing the unit is ready for TTL exposure level





Press the power level select

button either + or - to adjust

0.25(1/4)ev increments and

+0.75(3/4)ev.(over exposure

setting to the other required level

OPERATION" explained as above.

■ SPECIFICATIONS

it to the required exposure

level. Each LED shows

it can be adjusted up to

efficiency), or down to

Usable

ameras

Guide No.

overage

Battery life

Recycle time

Flash Power Lock

Wireless

Weight

28mm

Flash

Color Temperature 5600 K

230 g

Guide Number table

■ TROUBLE SHOOTING

Batteries are exhausted

The flash unit does not fire.

beyond 30 sec.

The flash unit does not start charging.

Batteries are not correctly installed

>>> Install batteries to correct direction.

>>> Replace the batteries if the recycle time

• The flash unit is not firmly clipped on the camera

The flash picture is overexposed or underexposed.

• A reflective object or strong lighting near the subject

>>> Mount the flash unit firmly on the

• The flash unit is automatically powered off

• The unit is set for manual exposure mode

>>> Set to TTL mode or other power level.

camera's hot shoe.

>>> Turn on the switch again.

>>> Use FE or Fv lock.

Exposure

Energy

Power

- M/S1/S2-

On/Off

Nikon iTTL

digital cameras

i-TTL

Ev lock

With [AE-L] or [AF-L]

-0.75(3/4)ev.(under exposure efficiency). Press the On/Off

switch for 3 sec. to turn the unit off. The adjusted level is

memorized and kept as customized default TTL exposure

Start to use flash unit from "Turn on the flash unit" at "BASIC

Canon EOS

digital cameras

4 x size AA batteries

with alkaline batteries

or the last use of flash unit.

E-TTL/E-TTL II

FE lock

With [FEL] or [ 🛪]

AF assist light Effective range of approx. 0.7 to 6m / 2.3 to 20 ft.

1/800 (full power flash) see

1/800-1/20.000(controlled flash) sec

Slave function with 6 power level

(See guide number table below)

Dimensions 67(W) x 105(H) x 95(D) mm / 2.6(W) x 4.1(H) x 3.7(D) inches

Guide No. at manual exposure mode (ISO 100 in meters/feet)

Position Full 1/2 1/4 1/8 1/16 1/32

24mm 18/59 12.7/42 9/29 6.4/21 4.5/15 3.2/10

35mm 22/72 16/52 11/36 7.8/26 5.5/18 4/13

50mm 24/79 18/59 12.7/42 9/29 6.4/29 4.5/15

70mm 27/88 19/62 13.5/44 9.5/31 6.7/31 4.7/15.5

85mm 30/98 21/69 15/49 10/33 7/23 5/16

105mm 33/108 23/75 16.5/54 11/36 8/26 5.6/18

Flash Power Level

20/65 14/46 10/33 7/23 5/16 3.5/12

4 sec. with fresh alkaline batterie

33/108 at 105mm focal length (ISO 100 m/ft)

24-105mm (18mm with diffuse panel)

(Automatically set for the lens focal length)

(Size AA Ni-MH or lithium batteries usable)

200-1500 flashes according to the mode

Come to Stand-by mode in 2 min, and

Power off in 30 minutes after the power on

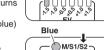
Automatic exposure

Manual exposure at 6 power level

button on EOS cameras | button on the camera

(See guide number table below)

level. This setting is permanently kept until you alter the



C

level select button at marked + to select different power of

• Set slave flash at any place and direct the flash head as you

# • Use the flash stand included. Place Di466 on to the flash stand

either on the flat place or on the tripod by the screw.

(NOTE) Metal type accessory shoe is not recommended since it may give electric damage on the electrical

#### Shooting the subject:

The slave flash will synchronize to the master flash and gives

length of 35mm while using Di466 as a slave unit.