

**Nissin**  
DIGITAL

# MARK II Di622

for Canon EOS digital SLR cameras

for Nikon digital SLR cameras

## INSTRUCTION MANUAL



**Nissin**

**Nissin Japan Ltd., Tokyo**  
<http://www.nissin-japan.com>

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

622II.Rev.0610.1.4

Nissin Di622 Mark II is designed for digital SLR cameras with hotshoe and the latest TTL flash control technology.

Note: No film camera can be used with Di622 Mark II.

Attach Di622 Mark II 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.

The compatibility list of Di622 Mark II, please check at our official website: [www.nissindigital.com](http://www.nissindigital.com)

### **WARNING**

This sign refers the danger or serious damage.

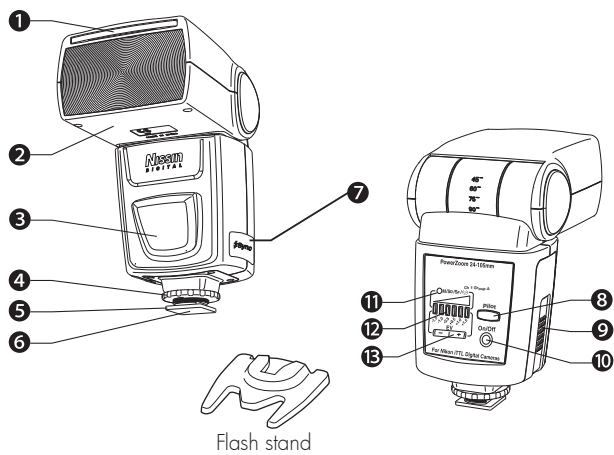
- The flash unit contains high voltage electric parts. Do not try to open or repair the flash unit. Return it back to the repair service station or the store you bought it.
- Do not touch the inside parts from the opening when the unit was dropped and broken.
- Do not fire the flash direct to the eye 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**

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 resistant. 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 the compatibility list at our official website, otherwise it may damage the camera's circuitry.
- Remove the batteries when not in use for a longer period of time.

## Names of the Components



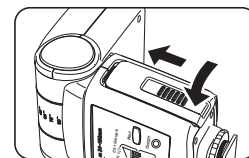
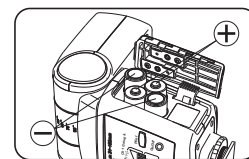
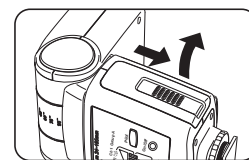
- ❶ Light diffusing panel / Fill-in reflector
- ❷ Flash head
- ❸ AF-assist light / wireless flash sensor
- ❹ Lock ring
- ❺ Mounting foot
- ❻ Hotshoe contacts
- ❼ X - Terminal
- ❽ Pilot lamp (Test flash button)
- ❾ Battery compartment door
- ❿ Power switch (Press button)
- ⓫ Mode select button / indicator  
(TTL → Manual → SD → SF → Wireless)
- ⓬ Flash power level indication lamp (6 LEDs)
- ⓭ Flash power level select button

Accessories: Flash stand, Pouch

## Basic Operation

### Inserting batteries

- Open the battery compartment door and insert 4 x size AA batteries as shown by the picture.
- Make sure the + and - battery contacts are correctly inserted at the battery compartment.
- Close the battery compartment door and slide it back in place.

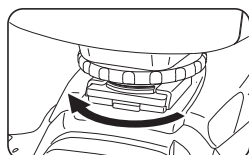
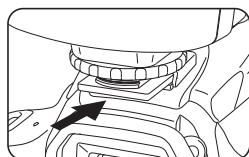
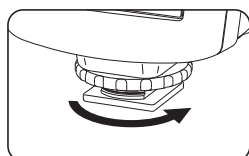


### NOTE

- Wrong insertion or using different size batteries may result damage on the flash unit.
- It is recommended to use all 4 batteries in same brand and type, and replace them all at the same time.

### Mounting Di622 Mark II on the camera

- Twist the lock ring anti-clockwise to loosen it as shown in the picture.
- Slide the mounting foot of Di622 Mark II into the hotshoe of camera.
- Twist the lock ring clockwise to tighten it.



### Removing Di622 Mark II from the camera

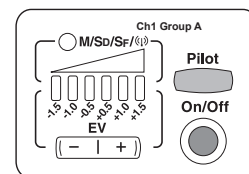
- Loosen the lock ring and slide the mounting foot of Di622 Mark II off the hotshoe of camera.

### NOTE

- Before mounting or removing Di622 Mark II into or from the camera, make sure to turn off the power switch of both Di622 Mark II and the camera.

### Turn on the flash unit

- Press the On/Off switch and Pilot lamp turns red showing the unit is turned on.
- In a few seconds, the Pilot lamp turns green. Di622 Mark II is



- For a test flash, press the Pilot lamp. When using the test flash as an open flash, please note that the
- To turn off the flash unit manually, press the On/Off

### Di622 Mark II has energy saving double power off function


To save battery energy, the power is automatically turned off (switch to stand-by mode), both in TTL mode & Manual Power mode, in about 2 minutes of idle use. While Di622 Mark II 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 Di622 Mark II again, press the camera's shutter button halfway or press any button of the flash unit. In case Di622 Mark II 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 Di622 Mark II again, take the first step of turning the flash unit on. In case of using Di622 Mark II in slave or remote mode, Di622 Mark II will not go into the stand-by mode. It will however automatically turn off when not used over 60 minutes.

## Shooting Di622 Mark II automatically


### Canon cameras

[P](Program), [□] (Full Auto), [Av] (Aperture priority), [Tv](Shutter priority) or [M] (Manual); and / or

### Nikon cameras


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

In all camera's shooting mode listed above, Di622 Mark II will fully work in TTL (ETTL, ETTL-II for Canon, and i-TTL for Nikon) automatic-flash system.

- Set Di622 Mark II to the camera's hotshoe and turn on the power switch.
- Di622 Mark II 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 subject.
- Shutter speed, aperture and flash mark (  ) are indicated in camera's view finder.
- Take the picture. Di622 Mark II 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 Di622 Mark II responds without delay and immediately sets its position to match the lens focal length you selected.
- The flash illumination coverage of Di622 Mark II responds to the lens focal length of 24mm to 105mm (35mm film camera standard).

Set the camera's shooting mode, select focal length and take pictures with Di622 Mark II on your camera.

Di622 Mark II is a supplement to help you taking a creative and live picture. Almost all jobs are automatically done by the camera and you just control the camera only.

| Mode  |   | Shutter Speed | Aperture Setting | Control on the camera                           |
|-------|---|---------------|------------------|---|
| Canon | Nikon   |               |                  |   |
| [□]   | [  ] | Automatic     | Automatic        | Automatic                                       |
| [P]   | [P]   | Automatic     | Automatic        | Automatic                                       |
| [Tv]  | [S]   | Manual        | Automatic        | Any available shutter speed can be set          |
| [Av]  | [A]   | Automatic     | Manual           | Any available f-stop can be set                 |
| [M]   | [M]   | Manual        | Manual           | Any available shutter speed / f-stop can be set |

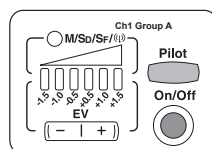
### Synchro Terminal

Di622 Mark II equipped a Synchro terminal (X terminal) to connect the off-camera cable, allows photography with flash units separate from the camera. This feature can be applied in Manual mode only.

## Joy of Flash Photography

### TTL flash power compensation

With the latest TTL flash control system, the flash power level is always automatically controlled by the camera for the most appropriate exposure. You wish if you can soften or weaken the flash light, or give more light to the subject without changing the environmental or background exposure effect Di622 Mark II can make it possible quickly for each shot at respective occasion of flash picture.

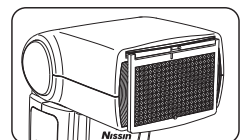
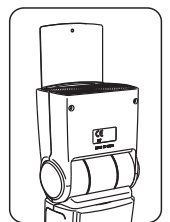


- TTL flash power compensation is provided in 7 steps by half Ev increment for -1.5, -1.0, -0.5, 0, +0.5, +1.0, and +1.5 Ev.
- Set the Flash power level select button to the power level you desire.
- When Di622 Mark II shows no level indication LED is turned on, the flash power compensation level is at even (0 Ev) level as default
- Press the flash power select button, by each press of + marked knob, it sets the power of +0.5 → +1.0 → +1.5 Ev. and the - marked knob sets it to -0.5 → -1.0 → -1.5 Ev. The power level indication lamp
- Take a picture and the aimed subject is shown with required lighting effect by keeping the background exposure level as originally
- On some cameras, the TTL flash power compensation setting is provided in its menu mode. When setting the TTL flash power compensation on your camera, the same of Di622 Mark II 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.

- If the subject is close (within 2 meter), turn the flash head 90° upward and pull out the fill-in reflector as shown in the picture.
- Take a picture as usual. 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.



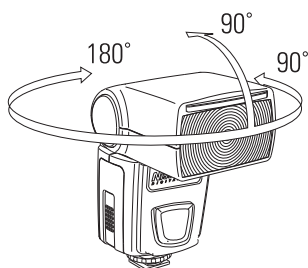
- For portrait photography, pull out the light diffusing panel and place it over the flash window as shown in the picture. The diffusing panel makes the flash light soften and creates a lively color effect on the subject.



- Since the light diffusing panel expands the lighting area, it covers the range of 16mm focal length lens.

### Bounce lighting

When lighting a subject in front of the wall, an unnecessary sharp shadow on the wall results the picture disappointed. Bounce the light off the ceiling or wall to soften the light on the subject, and the shadow fade out.



- Turn the flash head up. It turns upward to 45° >60° >75° >90°.
- Or tilt the flash head sideways to left 30° >60° >90° or to right 30° >60° >90° >120° >150° >180°.
- Or mixing it upward/ sideways, you can set it at multiple directions as shown.
- When the flash head stays at turning or tilting position, the zoom setting position of Di622 Mark II is automatically set at the position for 50mm 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.

### AF assist light emitter

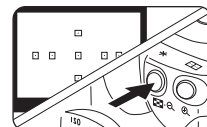
Under the low light condition, in the dark place, AF assist light will automatically emit the beam and illuminate the subject, so that the camera can easily focus the subject in darkness. The beam is however not shown in the picture.

### 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 ] button on some cameras).
- Pre-flash is fired to pre-set the correct light amount for the main subject.  
Remarks: **FEL** only work on P, TV, AV, M & A-Dep mode.



#### With Nikon cameras: Fv lock

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



### 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-eye reduction

To prevent the subject's eyes from appearing red, Di622 Mark II fires three controlled flash just before the picture is taken. Red-eye reduction can be combined with slow sync.



#### Rear curtain synchronization

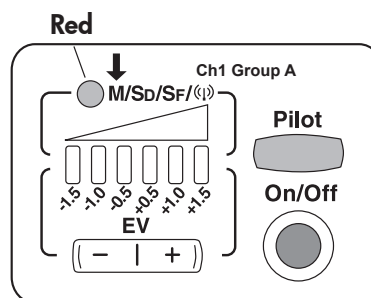
In rear-curtain sync., the flash fires just before the rear curtain close. By using this function at slow shutter speeds, a moving subject will appear with such moving marks behind.



### Manual Exposure Flash

In some occasion, or for special expression, you may need your own flash exposure instead of automatic controlled exposure. You can set Di622 Mark II 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 mode. In this mode, the mode select indicator does not light.
- Press the mode select button.
- The color of mode select indicator turns to Red as shown in the picture.
- You can select the power by pressing the - / + button, from the left to right, 1/32 - 1/16 - 1/8 - 1/4 - 1/2 - 1/1 (Full) power.
- 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

Di622 Mark II has a wireless remote flash system as a slave unit. You can enjoy creative flash photography with multiple lightings from the various directions. 3 slave modes are provided, Slave Digital (SD: green color) for digital pre-flash system; Slave Film (SF: blue color) for analogue flash system and Wireless (Purple color) for wireless remote channel 1 group A digital flash.

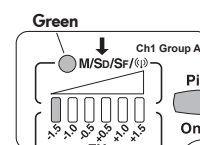
**SD:** In this mode, Di622 Mark II synchronize to the pre-flash system. The master flash is to be set at TTL (E-TTL for Canon and i-TTL for Nikon) mode.

**SF:** In this mode, Di622 Mark II synchronize to the traditional 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.

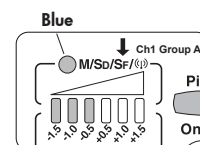
**Wireless:** In this mode, Di622 Mark II synchronize to the wireless remote flash system. The master flash is to be set at Channel 1 group A in wireless remote mode.

## Setting slave flash Di622 Mark II:

- Switch Di622 Mark II on and while the ready lamp is on, press the mode select button to select desired mode. The mode select button turns to **TTL** (no light)— **Manual** (red)— **SD** (green)— **SF** (blue)— **Wireless** (Purple) and back to TTL.

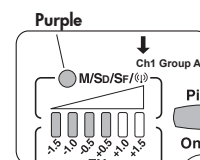


- When flash is set to SD or SF mode, the first lamp of flash power level is lighted. This lamp shows the 1/32 manual power level. Press the flash power level select button at marked + to select different power of 1/16→1/8→1/4→1/2 and Full.



Press the button at marked — to power downward. The power you selected is memorized and remains unchanged until the unit is switched off.

When the flash is set to Wireless mode, the power level will be controlled by the Master flash. Therefore, no setting is require



- Set slave flash at any place and direct the flash head as you desire. Slave sensor may not respond to the master flash in the extremely bright condition or under the poor sensing situation.
- Use the flash stand included. Place Di622 Mark II on to the flash stand which can be placed 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 contact of the flash hotshoe.

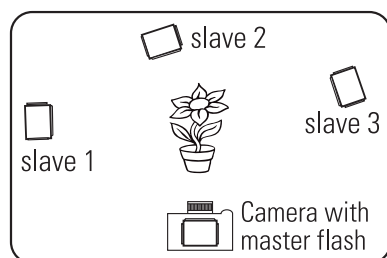
## Shooting the subject:

Set the camera for flash shooting mode. Point the subject and shoot. The slave flash will synchronize to the master flash and gives additional lighting from the different direction you desired.

Energy saving system 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 use over 60 minutes.

The zoom setting position is automatically set for the focal length of 35mm while using Di622 Mark II as a slave unit.

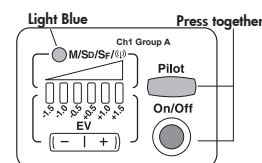
To reset the flash unit to the other mode, press the mode select button for TTL and or Manual mode.



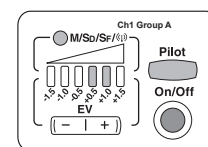
## TTL Exposure level custom setting

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 4 AA batteries in the battery compartment.

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



Press the power level select button either + or - to adjust it to the required exposure level. Each LED shows 0.25 (1/4) Ev. increments and it can be adjusted up to +0.75 (3/4)Ev. (over exposure efficiency), or down to -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 level. This setting is permanently kept until you alter the setting to the other required level. Start to use flash unit from "Turn on the flash unit" at "BASIC OPERATION" explained as above.



## ■ Specifications

| Usable cameras        | Canon EOS digital SLR cameras  | Nikon iTTL digital SLR cameras                         |
|-----------------------|--|--|
| Guide No.             | 44/145 at 105mm focal length (ISO 100 m/ft)  |  |
| Illumination coverage | 24-105mm (16mm with diffuse panel)<br>(Automatically set for the lens focal length)  |  |
| Power source          | 4 x size AA alkaline batteries<br>(Size AA Ni-MH or lithium batteries usable)  |  |
| Battery life          | 200-1500 flashes according to the mode<br>(with alkaline batteries)  |  |
| Energy saving         | Switch to Stand-by mode in 2 minutes., and power off in 30 minutes. after the power on or the last use of flash unit.  |  |
| Recycle time          | 5 sec. with fresh alkaline batteries   |  |
| Flash exposure        | Automatic exposure   |  |
|                       | E-TTL / E-TTL II   | iTTL   |
| Flash power lock      | FE lock<br>With [FEL] or [✳] button on EOS cameras   | Fv lock<br>With [AE-L] or [AF-L] button on the cameras |
| AF assist light       | Effective range of approx. 0.7 to 6m / 2.3 to 20 ft.   |  |
| Color temperature     | 5600 K   |  |
| Flash duration        | 1/800 (full power flash) sec.<br>1/800 - 1/20,000 (controlled flash) sec.  |  |
| Wireless flash        | SD: Slave Digital / SF: Slave Film<br>(Slave function with 6 power level)<br>Wireless: Wireless remote Channel 1 Group A<br>(Controlled by Master flash)<br>*See guide number table as below |  |
| Dimensions            | 77 x 130 x 103mm (3.0 x 5.12 x 4.05 inch)  |  |
| Weight                | 315 g / 11 ounces  |  |

## ■ Guide Numer table

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

| Zooming Position | Flash Power Level |        |         |         |        |        |
|------------------|-------------------|--------|---------|---------|--------|--------|
|                  | Full              | 1/2    | 1/4     | 1/8     | 1/16   | 1/32   |
| 24mm             | 25/82             | 18/58  | 12.7/42 | 9/29    | 6.4/21 | 4.5/15 |
| 28mm             | 28/92             | 20/65  | 14/46   | 10/33   | 7/23   | 5/16   |
| 35mm             | 32/105            | 22/74  | 16/51   | 11/37   | 7.8/26 | 5.5/18 |
| 50mm             | 35/115            | 25/82  | 18/25   | 12.7/42 | 9/29   | 6.4/21 |
| 70mm             | 38/125            | 27/88  | 19/63   | 13.5/44 | 9.5/31 | 6.7/22 |
| 85mm             | 41/134            | 29/95  | 20/65   | 14/46   | 10/33  | 7/23   |
| 105mm            | 44/144            | 31/102 | 22/74   | 16/52   | 11/37  | 8/26   |

## ■ Trouble Shooting

### The flash unit does not start charging.

- Batteries are not correctly installed  
>>> Install batteries to correct direction.
- Batteries are exhausted  
>>> Replace the batteries if the recycle time beyond 30 sec.

### The flash unit does not fire.

- The flash unit is not firmly clipped on the camera  
>>> Mount the flash unit firmly on the camera's hot shoe.
- The flash unit is automatically powered off  
>>> Turn on the switch again.

### The flash picture is overexposed or underexposed.

- A reflective object or strong lighting near the subject  
>>> Use FE or Fv lock.
- The unit is set for manual exposure mode  
>>> Set to TTL mode or other power level.

## Warranty

In case of the following reason of the defect, it may void the warranty. Please refer the respective warranty 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.
3. When the product is used with the cameras not applicable, lens, adaptors or such accessories produced by the third party.
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.

## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>