Nissin
DIGITAL

NAS
Ready!
Compatible with
Nissin Air System

MG80 Pro

Canon / Nikon / Sony
Fujifilm / Panasonic / Olympus

INSTRUCTION MANUAL

NISSIN.JAPAN

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

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.

Thank you for purchasing a Nissin product

Before using this commander unit, please read this instruction manual and refer to the manual of camera owner carefully to get a better understanding of the proper operation to enjoy flash photography.

The commander Nissin MG80 Pro (Canon / Nikon / Sony/ Fujifilm / Panasonic / Olympus) is an advanced commander for wireless flash shooting.It controls up to 8 groups of NAS (Nissin Air System) flash (Canon / Nikon / Sony/ Fujifilm / Panasonic / Olympus) that have a wireless multiple flash shooting function using NAS (radio transmission). Please note that Nissin MG80 Pro (Canon / Nikon / Sony/ Fujifilm / Panasonic / Olympus) are not usable with other branded cameras for TTL operation.

Compatible cameras

Please refer to Nissin’s compatibility chart shown here:
http://www.nissindigital.com/download.html

Nissin Air System (NAS) is a Nissin wirelessly remote control flash light system, designed by Nissin. It consists of a Nissin radio commander (NAS commander) and the Nissin wireless flash (NAS flash) and Nissin radio receiver (NAS receiver) as remote slave units.

- Insert MG80 Pro on the camera hot shoe as a NAS commander.
- The signal of MG80 Pro is transmitted by using 2.4 GHz transmission.
- Transmission distance is approx. 100m (330 ft.)
  (Metal/ Wire/ Wall/ another 2.4 GHz radio frequency may cause a reduction in the NAS transmission distance)

SAFETY INSTRUCTIONS

These safety instructions refer to important information on how to use this product safely and properly. Please read the following instructions before using the product.

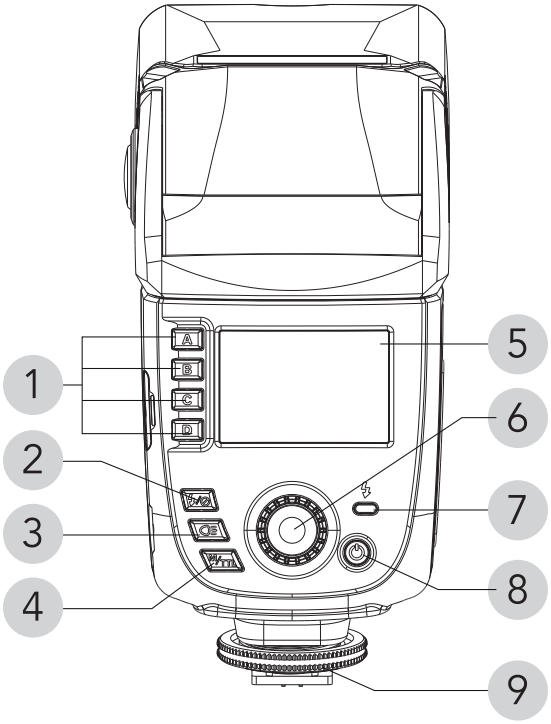
⚠ CAUTIONS

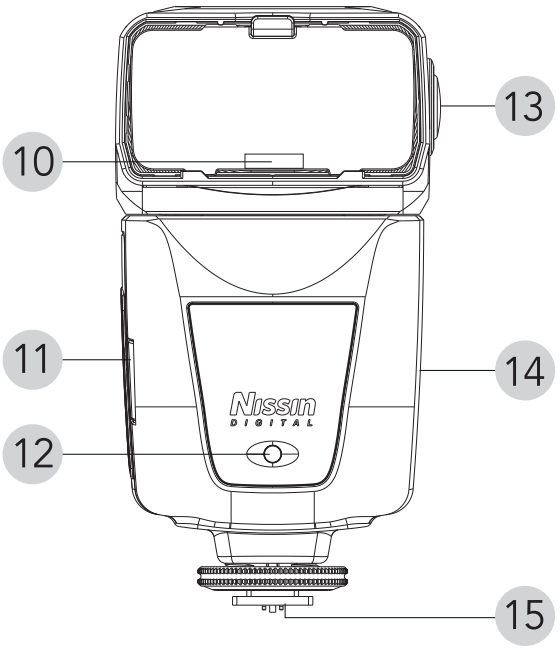
This sign refers to conditions which may cause damage or defect.

- Do not touch the inside parts from the opening when the unit was dropped or broken.
- Place the batteries correctly in position. Placing the batteries in wrong polarity may cause leakage, exothermic heat or explosion.
- Do not leave or store the commander unit in the temperature over 40ºC/ 104ºF, such as in the automobile.
- The commander 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 commander unit with cameras which are not recommended in the compatibility list at official website, otherwise it may damage the camera's circuitry(*).
- Remove the batteries when not in use for a longer period of time.
- Do not use the Nissin MG80 Pro to pick up whole camera system when it installed on your camera. To pick up the whole camera system, you should hold the handle of camera body or the lens..

(*) Please refer Nissin's compatibility chart shown here:
http://www.nissindigital.com/download.html

Names of the Components





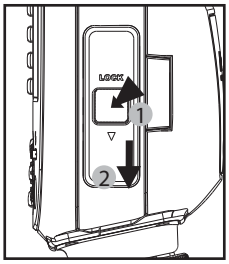
1 Group selection button
2 Group on/off button
3 Modeling light button
(Basic/Advanced Groups button)
4 M/TTL Mode Button
(OPEN Mode button)
5 LCD panel
6 Select dial with buttons
Channel button
HSS button
Buzzer button
M.Zoom button
Panel Lock/Unlock button (hold 1sec.)
7 Pilot button (Test flash button)
8 Power On/Off button
9 Lock ring
10 Modelling Light
11 Micro SD card slot
(for firmware update)
12 AF-assist light (1)
13 Bounce lock
14 Battery compartment door
15 Hotshoe contacts

(1) The AF-assist lamp supports digital system cameras measuring autofocus in the center of the image field only. It does not support other camera brands, other types of Canon, Nikon, Sony, Fujifilm, Panasonic and Olympus cameras or camera models without our compatibility test.

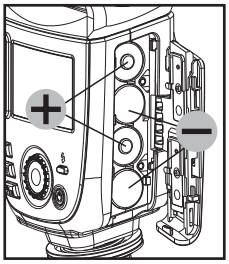
Before starting wireless flash shooting.

Inserting batteries

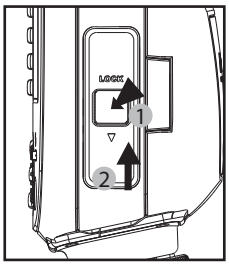
1. Open the battery compartment door and insert 4 x size AA batteries as shown in the picture.



2. Make sure the + and - battery contacts are correctly inserted in the battery compartment.



3. Close the battery compartment door and slide it back in place.



(*) MG80 Pro has an energy saving power off function

To save battery energy, the screen of MG80 Pro display dims in about 30 seconds and turns off in about 2 minutes automatically after the setting job is terminated. While MG80 Pro is in the stand-by mode, a blinking signal will be shown on the Pilot Button. To turn on MG80 Pro again, press any button on the Commander. In case of not in use for over 60 minutes, MG80 Pro will be turned off completely. To turn on MG80 Pro again, press Power button on the Commander.

NOTE

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

Default Setting reset

Press power on to activate Nissin MG80 Pro,
hold the Pilot button for 5 seconds to reset to factory default setting

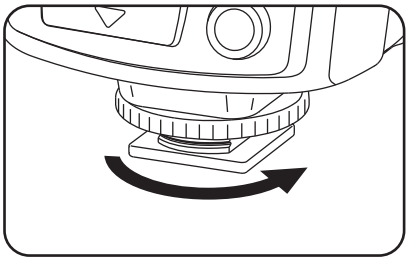
Default setting:

1. TTL mode: +/- 0EV
2. M Manual mode: 1/256
3. Zoom setting: Manual, 24mm
4. Channel Setting: no. 2
5. HSS mode: off
6. Buzzer: off
7. Group Mode: Basic Groups
8. Group status: all on

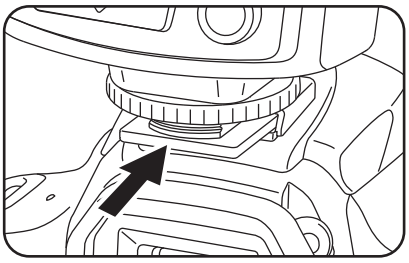
Basic Operation

Mounting MG80 Pro on the camera

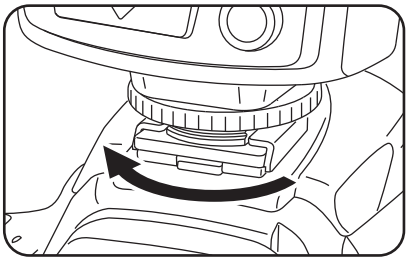
1. Turn off MG80 Pro.



2. Turn the lock ring of MG80 to loosen it all the way as shown in the picture.



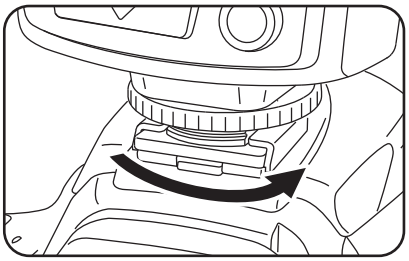
3. Slide the mounting foot of MG80 into the hotshoe of the camera.



4. Turn the lock ring to opposite direction and tighten it.

Removing MG80 Pro from the camera

1. Turn off MG80 Pro.



2. Turn the lock ring of MG80 to loosen it all the way as shown in the picture.

3. Slide the mounting foot of MG80 out of the hotshoe of the camera.

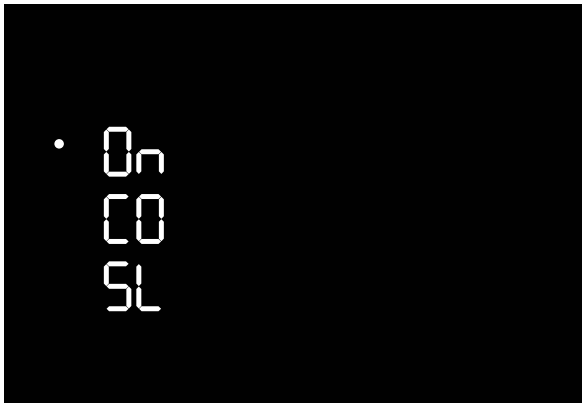
NOTE

Do not use the MG80 Pro as a holder to pick up the whole camera system.

Menu Screen For Main Modes

MG80 Flash Mode and Functions

Press the Power button 3 seconds to select a function.



- On **On-Camera Mode**
  Flash light is automatically controlled by the camera with the flash exposure or selecting the desired manual power on the flash unit.

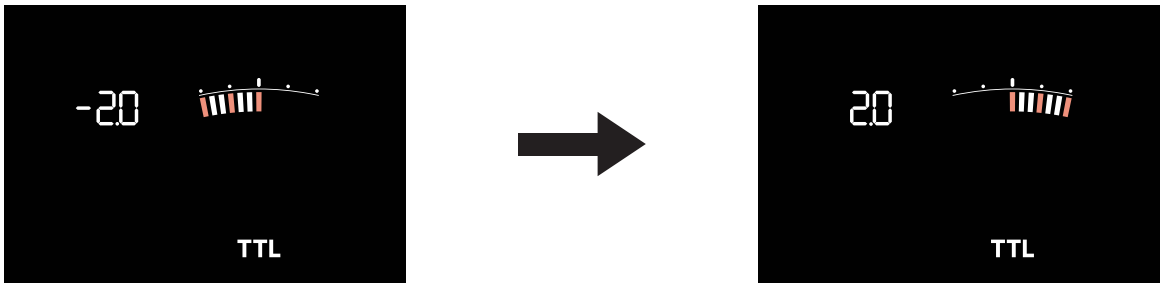
- CO **Commander Mode**
  Placing multiple numbers of flashes (slave flash) off camera and controlling the lighting.

- SL **Slave Mode**
  Synchronizes to the wireless remote flash system.

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. If 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. The MG80 can make it possible to quickly adjust the exposure for each particular flash picture as needed.

- Set MG80 to the camera's hotshoe and press the on/ off switch to power on.
- Press the Power button 3 seconds to select On-Camera Mode.
- Press the M/TTL button to "TTL" mode.
- To set the Flash power compensation level rotate the Control wheel to the power level you desire.
- TTL flash power compensation is provided in 12 steps by 1/3 Ev increments for -2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0, +1.3, +1.7 and +2.0 Ev.

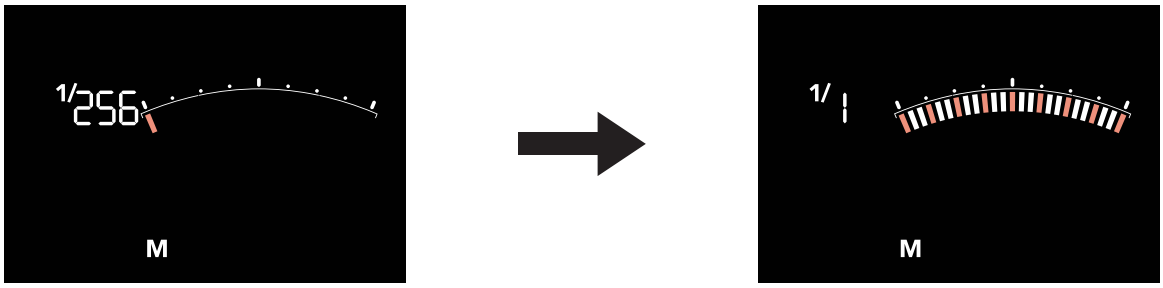


- Take a picture and the subject is shown with required lighting effect by keeping the background exposure level as originally expected.
- On some cameras, the TTL flash power compensation setting is provided in its menu mode. When setting the TTL flash power compensation on your camera, any compensation which is also set on the i60A will be counted in addition to the compensation you selected in the camera's menu mode. (i.e. Having a +1 compensation set on the flash and a +1.3 compensation set in the camera would yield a total compensation of +2.3 EV.)

Manual Exposure Flash

In some occasions, or for special expression, you may need your own flash exposure instead of the automatic controlled exposure. You can set MG80 for non-automatic flash mode, and select the desired flash power.

- Set MG80 to the camera's hotshoe and press the on/ off switch to power on.
- Press the Power button 3 seconds to select On-Camera Mode.
- Press the M/TTL button to "M" mode.
- You can select the power by rotating the Control Wheel :
  1/256 – 1/1 (Full) power.
  Red color bar represent 1 step, White color bar represent 1/3 step



Wireless Slave Flash

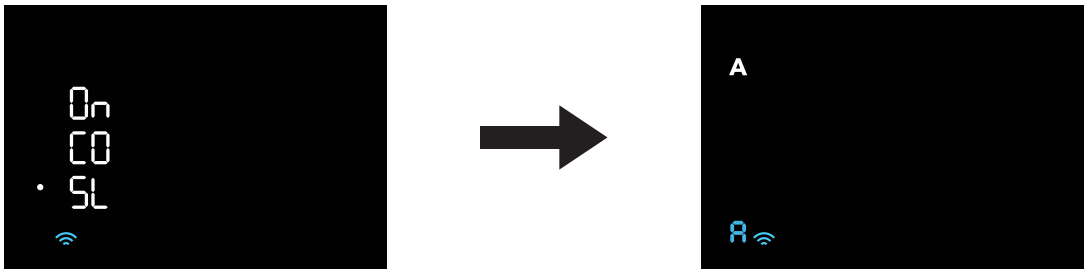
Slave Mode

MG80 Pro has a wireless remote flash system as a slave unit. You can enjoy creative flash photography with multiple lightings from the various directions.

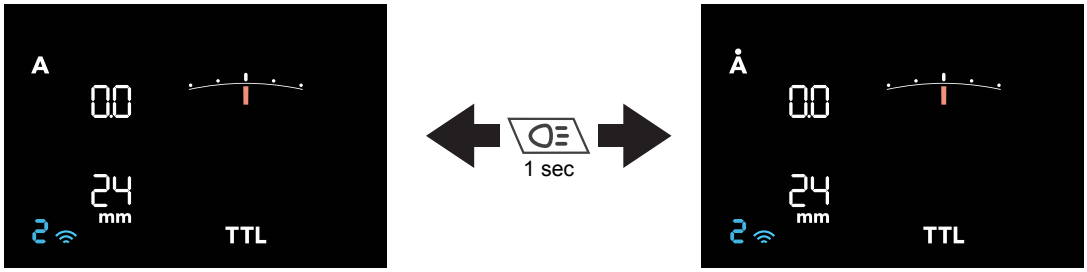
Using MG80 Pro with a NAS shooting function makes it easy to shoot with advanced wireless multiple flash lighting, in the same way as normal TTL autoflash shooting.

Pairing

Press the Power button 3 seconds to select Slave.



Press the Group Selection button to change A / B / C / D



Hold the 1 second to change group A / B / C / D

Once the MG80 Pro is linked to NAS, the functions are controlled directly by the NAS master(or commander). User only needs to select the group on MG80 Pro.

Wireless Flash Shooting

Pairing Setting

To perform wireless shooting, set the Nissin MG80 Pro commander and NAS slave with the following procedure. When completed pairing, both of them will memorize the data and no need to pair again after the units are switched on and off.

For Sony Camera

Before usiung MG80 Pro in Commander mode, please install MG80 Pro on camera and change the Flash mode to “WL” in camera menu.

Step 1: Switch all flash and Commander off

Nissin flash Di700A

1. Hold the "Set" and Power “ON/OFF” buttons for 3 seconds at the same time.
2. “Beep” sound persists until the Pairing signal received from commander.
3. Nissin Di700A will automatically be changed to wireless slave mode after Pairing completed.

Nissin flash i60A

1. Hold the Panel Lock key and the “On & Off” button of Nissin i60A at the same time for 3 seconds.
2. “Beep” sound persists until the Pairing signal received from commander.

Nissin flash MG10 / MG8

1. Rotate the "Ch" channel dial to "Auto" auto channel mode.
2. Hold the "Open" button and the power button for 3 seconds.
3. “Beep” sound persists until the Pairing signal received from commander.

Nissin flash MG80 Pro (Slave mode)

1. Press the Power button 3 seconds to select Slave Mode then turn off.
2. Hold the Panel Lock key and the “On & Off” button of Nissin MG80 at the same time for 3 seconds.
3. “Beep” sound persists until the Pairing signal received from commander.

Nissin Air R Receiver

1. Rotate the "Ch" channel dial to "Auto" auto channel mode.
2. Hold the power button for 3 seconds
3. “Beep” sound persists until the Pairing signal received from commander.

Step 2: Pairing on Nissin MG80 Pro in Commander Mode

1. Press the on/ off switch to power on and press the Power button 3 seconds to select Commander Mode.
2. Turn off the MG80, hold the Panel Lock key and the “On & Off” button at the same time for 3 seconds. The Pilot LED will blink about 10 seconds to process the pairing.

(*) Compatible Channel for NAS System

	Air1	Air 10s	MG80 Pro
i60A / Di700A / Air R	Ch.1 - 8	Ch.2 - 8	Ch.2 - 8
MG10 / MG8 / MG80 Pro	Ch.2 - 8	Ch.1 - 8	Ch.1 - 8

NOTE

If strobes still "beep" constantly after the pairing process, is means the pairing process is not complete. Please move your MG80 Pro towards the Beeping strobes, then turn off the MG80 Pro and re-do the pairing process by holding Panel Lock key and the “On/Off” button again for 3 seconds.

Open Mode (only works with MG Series)

The NAS system is using an independent identity (ID) function to access strobes, the NAS strobes will not be affected by other commanders whenever they are using the same channel in the same location. A slave unit of Nissin flash or Nissin receiver can only be controlled by one and only one NAS commander with pairing in default setting.

MG80 Pro offers “Open Mode” ,a new function (only works with MG Series), on the pairing setting. Open Mode can let two or more camera using same set MG10 in one place.

Open Mode Setting

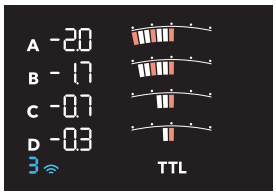
1. Hold the M/TTL button of Nissin MG80 Pro for 1 seconds, OPEN lights up on lower left corner means Open Mode is on. Now hold the M/TTL for 1 seconds again to turn off.

Basic Groups and Advanced groups

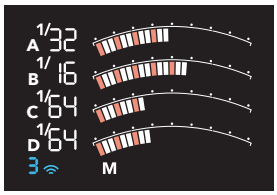
There are basic groups and advance groups for controlling the Nissin MG80 Pro. They allow the user to pair an unlimited amount of slave units. They mainly divided into two kinds of groups:

Basic Group

A B C D



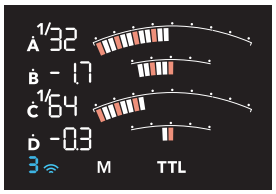
TTL mode



M mode

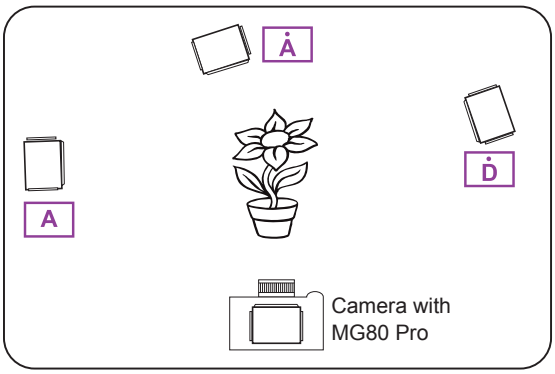
Advance Group

Ȧ Ḃ Ċ Ḋ



M/TTL mode

Both basic and advance groups can be operate in the MG80 Pro commander. User can switch between these two groups whenever they want.
Example:
Use the i60A in basic group A on manual, use two MG10 in advance group Ȧ & Ḋ in TTL and manual mode.



Group Setting

MG80 Pro, provides individual control of 4 groups (strobes), you can set these 4 groups in different settings. Before shooting, you have to set each strobes to be one of these 4 groups.

Nissin Di700A Flash

1. Power on Nissin Di700A and switch to wireless slave mode, press “Set ” several times until the A / B / C (Group mode in the display), then turn the Set to change the group number.

2. Press the Set key to confirm the new setting.

Nissin i60A Flash

1. Use Mode Dial to change group A / B / C.

Nissin MG10 Flash

1. Use Gr D Mode Dial to change group A / B / C / D / Ȧ / Ḃ / Ċ / Ḋ.

Nissin Air R Receiver

1. Use Mode Dial to change group A / B / C.

Nissin MG80 Pro Slave Mode

1. Press the Group Selection button to change A / B / C / D

   Hold the 1 second to change group Ȧ / Ḃ / Ċ / Ḋ

Group On/off Setting

In testing or changing the flash effect of different slave units group, you can turn on or off any group.

Nissin MG80 Pro Commander Mode

1. Press the Group Selection button on Nissin MG80 Pro.

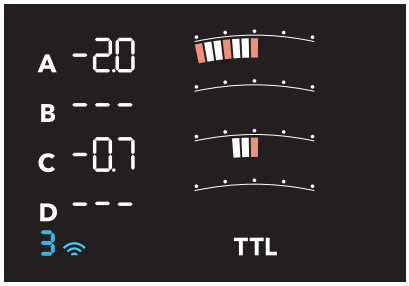
   While the selected group is blinking in the display, press the “Group On/Off ” button.

   When the group is switched on, the exposure setting value and exposure bar

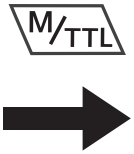
   will be appeared on the right side of the group. When the group is switched off, only "---" is shown.

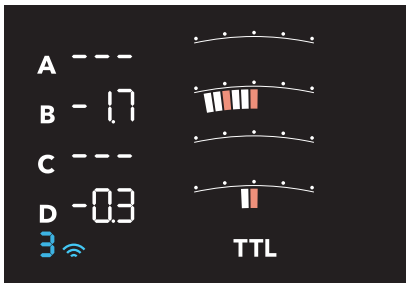
2. Press the “Group Selection” button when finish setting.

   For example：



A & C: on, B & D: off





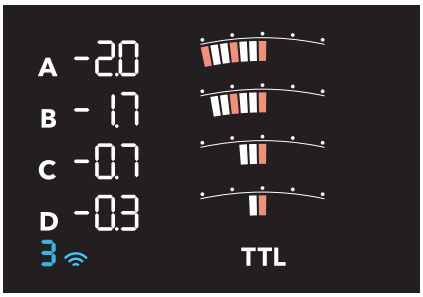
A & C: off, B & D: on

Flash power control

When the NAS flash is set to the wireless mode, all exposure setting functions will be controlled by the NAS commander.

TTL and M exposure mode switch

In Basic groups mode: Press the M/TTL button.



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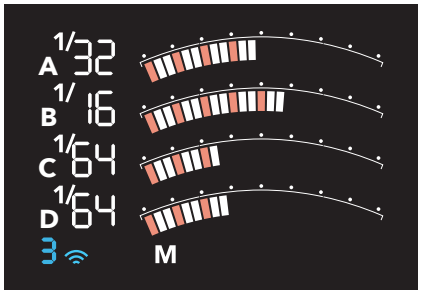


In Advanced groups mode:

To set different exposure in each group:

1. Press the Group Selection button. When the letter “A” blinks, press M / TTL mode button to change the exposure (the same procedure works with groups B, C, and D).

2. After completing the exposure setting, press the Group Selection button again to stop the blinking.

+/- EV

Flash Exposure Control

TTL flash exposure compensation

1. Press the Group Selection button, the group letters blink.

2. Rotate the Operation Dial to increase or decrease the TTL flash exposure compensation. The settings of TTL auto exposure compensation on Nissin MG80 Pro starts from -2EV to + 2EV and controlled by 1 / 3EV step interval.

TTL mode

In addition to the bar chart, there are a number of exposure values shown:

- Setting of 0EV shows in 0.0,
- Setting of -2EV to -0.3EV will be displayed in -2.0 to -0.3;
- Setting of +0.3EV to + 2EV will be displayed in 0.3 to 2.0.

3. When the exposure compensation setting is completed, press the group selection button again.

TTL memory (exposure value memory)

Switching MG80 Pro from TTL mode to M mode, the last flash power setting will be saved in TTL control. Flash power value will also remain unchanged in M mode.

NOTE

If you do not press any group selection button which means all group letters in the display do not blink, rotate the Operation Dial to increase/ decrease the power of all groups. For example, A: 0EV, B: + 0.6EV, C: + 1EV, D: -1EV, do not select any group then turn the Operation Dial clockwise in 2 click intervals, will cause to A: + 0.6EV, B: + 1.3EV, C: 1.6EV, D: -0.3EV.

+/- EV

Flash Exposure Control

M manual flash mode power control

1. Press the Group Selection button, the group letter blinks.

2. Rotate the Operation Dial to increase or decrease the flash power of the group selected. The setting of M mode on MG80 Pro starts from 1/256 (minimum) to 1/1 (Full), and controlled by 1/3 step intervals. The value digi displayed next to the group only shows the integer step value (*).

M mode

3. When the M mode setting is completed, press the group selection button again.

(*) The integer step values of Nissin MG80 Pro are
1/1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128 and 1/256

NOTE

If you do not press any group selection button which means all group letters in the display do not blink, rotate the Operation Dial to increase/ decrease the power of all groups. For example, A: 1/256, B: 1/8 + 0.6EV, C: 1/4, D: 1/2, do not select any group then rotate the Operation Dial clockwise with 2 intervals, it becomes
A: 1/256 + 0.6EV , B: 1/4 + 0.3EV, C: 1/4 + 0.6EV, D: 1/2 + 0.6EV.

Zoom head setting

Nissin MG80 Pro offers "A" auto zoom mode and manual zoom mode.

1. Hold the M.zoom for 2 seconds.

2. Press the group selection button to select the group.
   (On-camera Mode will not show the other group)
   Rotate the Operation Dial to change the Zoom head position setting.
   The focal length is representing the flash angle. Rotate the Operation Dial in anti-clockwise direction to decrease the value of the focal length of zoom head.
   Keep rotating anti-clockwise to change the "A" automatic zoom mode at the end.
   Rotate the Operation Dial in a clockwise direction to leave.
   The “A” auto zoom mode will increase the value of the focal length value of zoom head.
   Coverage range supports 24mm, 28mm, 35mm, 50mm, 70mm, 85mm, 105mm, 135mm and 200mm focal length lenses.

3. Press the group selection button again after completion of the zoom setting.
   Hold M.zoom for 2 seconds again when all groups zoom settings are completed.

NOTE

If you do not press any group selection button, which means all group letters in the display do not blink, rotating the Operation Dial to increase or decrease the flash zoom head focal length will affect all groups; A, B, C and D.

Modeling light

Normal flashguns have a very short flash duration. In order to estimate and control the flash more efficiently, the modeling light on slave unit can be used. It is a constant light for the user to estimate and preview the light before shooting(flash emitting).

(*) Modeling light is a new feature of the NAS system.
Nissin Di700A, i60A, i40 flash and other discontinued models do not support this feature.

Turn on/off the modeling light

1. Press the Group Selection button(s), the group letter(s) blink.
2. Press to switch the group's modeling on/off.
3. Press the Group Selection button again when setup completed.

Adjusting modeling light

1. Press M/TTL to change to M mode.
2. Press to turn on modeling light.
3. Use the to adjust the modeling light power.

NOTE

If you do not press any group selection button, which means all group letter in the display do not blink, pressing the modeling light button will invert the modeling on/off setting of all groups. For example, A & C: On and B & D: off, press the modeling light button without selecting any group, will cause to A & C: Off, and B & D: On.

High Speed Synchronize (HSS / FP)

Flashgun supports shutter speed limitation on X-Sync (maximum speed synchronize to flash) on SLR / DSLR /Mirrorless Cameras in general. If it does not support HSS function of the camera, faster shutter speed settings than the maximum synchronize speed will block the flash gun. With faster shutter speeds than the maximum sync speed some part(s) of the image area would be shaded by the moving shutter leaves within the flash duration. As a result the image is only partially exposed by the flash light.”. HSS allows flashgun works under high speed shutter (max 1/8000s).

MG80 Pro HSS On & Off switch

- For Canon, Sony and Four Thirds
  Hold H button for 2 seconds to turn on or off.

- For Nikon and Fujifilm
  1. Insert MG80 Pro to camera shoe.
  2. Switch on both MG80 Pro and Camera,
     Change the Flash sync speed to Auto FP in camera manual.

Exposure setting under HSS mode

The flash emitting operation in HSS mode is different from the normal flash mode. With the HSS function, users can get a faster shutter speed which will result in a lower guide number. This is equivalent to a lower flash output. The flash of HSS cannot be measured by an external light meter. When HSS is on, the exposure compensation setting of TTL mode offers the same -2EV to +2EV of basic mode. Using the power control of "M" Manual mode under HSS, the MG80 Pro offers 1/32 to 1/1 power range only. If power is set from 1/256 to 1/64+0.3EV, “M” manual power setting will automatically change to 1/32 in HSS mode.

Buzz (Beep sound) on strobes

All settings of strobes are controlled by the commander wirelessly after the pairing is completed. If the strobes buzzer is on, a “Beep” sound will be heard when the Strobe is charging and not ready to flash. The “Beep” sound will be heard everytime when there is any change made through the commander.

MG80 Pro Beep or Buzzer on & off switch

Hold button to switch the buzzer (on strobes) on or off.
When “no buzzer” logo is displayed in LCD, it means that the beep sound is off.
When the “no buzzer” logo disappears, then the buzzer function is turned on.

Firmware update procedure

To start the firmware update procedure, you need to have:

- The computer (Windows or Mac) connected to the Internet
- A Micro SD/SDHC card (recommend 4GB-32GB) and Micro SD card reader.
- MG80 Pro with 4pcs of full re-charged AA batteries.

1. Download the Firmware file(s). Click here to download firmware files:
   http: //www.nissindigital.com/firmware.html

2. Insert Micro SD/SDHC card to the card reader and connect to the computer.

3. Format Micro SD/SDHC card under FAT32 format (Please backup before format).

4. Copy all Firmware file(s) to Micro SD/SDHC card.

5. Eject the Micro SD/SDHC and remove from the card reader.

6. Insert AA batteries into MG80 Pro and switch on it.

7. Then switch off the MG80 Pro.

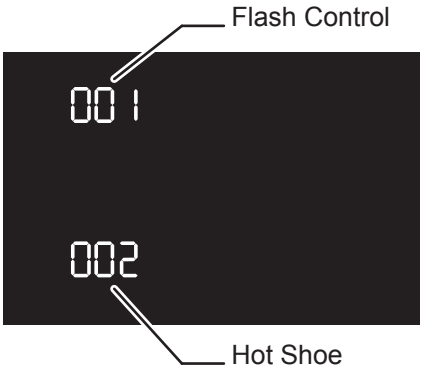
8. Remove the Micro SD/SDHC cover of MG80 Pro, insert the Micro SD/SDHC which contains the latest firmware update files into the MG80 Pro.

9. Switch on the MG80 Pro. A LED light inside the Micro SD card slot of MG80 Pro will blink, it will blink and the light will change orange to red and stop blinking once the update is finished.

10. The green light will emit when the firmware update procedure is completed. Remove the batteries and remove the Micro SD/SDHC.

11. Insert the batteries again and switch on the MG80 Pro.

How to check firmware version of MG80 Pro



Switch on power, press and hold the Power on/off button for 5 seconds. LCD display will show 2 different firmware versions. Release the Power button about 2 seconds, firmware version page will disappear and returns to the front operation page.

Specifications

Type	Canon / Nikon / Sony / Fujifilm / Panasonic / Olympus
Guide no. (at ISO 100)	GN60@200mm / GN32@35mm / GN28 without zoom cover / 83Ws
Power source	4x 14500 Li-ion or 4xAA rechargeable Batteries
Recycling time	1.5sec with 4x Li-ion Batteries 3.8sec with 4xAA rechargeable batteries
Number of flashes (Approx.)	280 times with 4x Li-ion 650mAh batteries(1) / 320 times with 4x AA 2450mAh rechargeable batteries
Radio specifications	NAS 2.4GHz ISM band (to obtain technical standards certification)
Channel	8 channels
Flash Groups	8 groups(2) : A , B , C , D & Ȧ ,Ḃ , Ċ ,Ḋ
Transmission distance	100 meters(1)
Flash exposure mode	TTL automatic flash exposure mode with +/- 2EV compensation and in 1 / 3EV step intervals; M manual flash output mode, offers 1/256 to 1/1 control with 1/3 step intervals
Supporting TTL Exposure control	[TTL] i-TTL (Nikon) / E-TTL II / E-TTL (Canon) [manual]/ ADI/ PTTL (Sony)
Flash sync mode	1st curtain & 2nd curtain sync., red-eye reduction HSS (up to 1 / 8000s), slow shutter sync.
Zoom mode (Flash coverage area)	Auto Zoom, 24mm, 28mm, 35mm, 50mm, 70mm, 85mm, 105mm, 135mm and 200mm
Special features	Modelling light on remote flash(2) , Advanced groups(2) , TTL memory
AF-assist beam effective range	0.7 to 5 meters(1)
Display	LCD color display
Firmware update	Micro SD / SDHC (up to 32GB) (Not included)
Continuous flash speed	Up to 10 shots per second
Hot shoe	Metal shoe with ring lock
Size	Approx. 73(W) x 137(H) x 120(D) mm
Weight	520g / 18.3 oz (without battery)

(1) This is a testing result record, it may be affected by equipment and environmental factors.
(2) This is a new feature which supports a coming new NAS flash.

Warranty

In case of the following reason of the defect, it may void the warranty.

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 violent use or treatment.

7. Guarantee card without name of place purchased or date of purchase stamped, or no guarantee card.

Please refer the respective warranty condition for details which depends on the country of purchase and contact our official distributors who distributed this product for the warranty arrangement details.

Nissin

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

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

Design and Specifications are subject to change without prior notice.

MG80.Rev.0410.2.0