OLYMPUS

FL-700WR

CE

Model No.: IM011

IMPORTANT SAFETY INSTRUCTIONS

When using your photographic equipment, basic safety precautions should always be followed, including the following:

- Read and understand all instructions before using.
- Close supervision is necessary when any flash is used by or near children. Do not leave flash unattended while in use.
- Care must be taken as burns can occur from touching hot parts.
- Do not operate if the flash has been dropped or damaged - until it has been examined by qualified service personnel.
- Let flash cool completely before putting away.
- To reduce the risk of electric shock, do not immerse this flash in water or other liquids.
- To reduce the risk of electric shock, do not disassemble this flash, but take it to qualified service personnel when service or repair work is required. Incorrect reassembly can cause electric shock when the flash is used subsequently.
- The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.
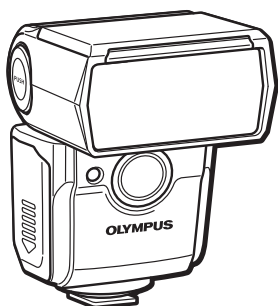
SAVE THESE INSTRUCTIONS

Thank you for purchasing this Olympus product.
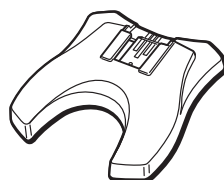To ensure your safety, please read this instruction manual carefully before use.
In addition, please keep the manual handy for future reference.
If you use the product outside the country or region of purchase, you may violate local regulations. Olympus accepts no liability in this case.
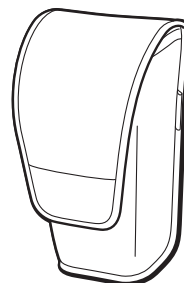
Checking the Contents of the Package

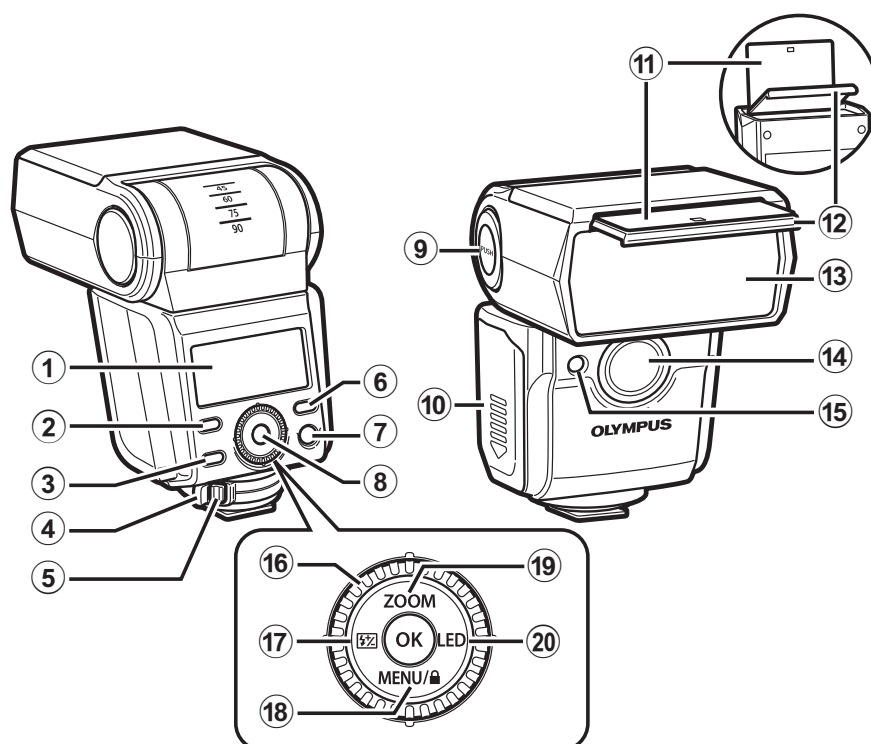- Flash: FL-700WR
- Flash stand: FLST-1
- Flash case

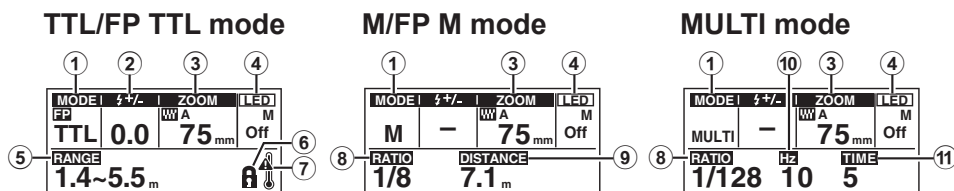- Instructions (This manual)
- Warranty card

Names of Parts

① Control panel .... P. 38

② MODE button .... P. 42, 52

③ CHARGE/TEST button .... P. 41

④ Latch .... P. 40

⑤ Latch release button .... P. 40

⑥ 🔆/•)) (radio communication mode
   switching) button..................... P. 42, 52

⑦ ON/OFF button .... P. 41

⑧ OK button............................... P. 42, 52

⑨ PUSH (lock release) button .... P. 47

⑩ Battery compartment cover........... P. 39

⑪ Catch light plate .... P. 48

⑫ Wide panel.................................... P. 48

⑬ Flash window .... P. 47

⑭ AF illuminator/LED light .... P. 59, 60

⑮ Optical communication sensor
   window.. P. 49

Dial/Arrow pad

⑯ Dial................................... P. 42, 52, 59

⑰ ⚡ (flash compensation/flash intensity)/
   ◁ button .... P. 43, 44, 45, 46, 52

⑱ MENU/🔒 (key locking)/▽ button
   .... P. 59

⑲ ZOOM/△ button
   .... P. 43, 44, 45, 46, 47, 52

⑳ LED/▷ button .... P. 59

Display (control panel)

Flash modes (P. 43 to 46)

TTL/FP TTL mode

① ② ③ ④
| MODE | ⚡+/- | ZOOM | LED |
FP / M
⑤ — TTL 0.0 75mm Off — ⑥
RANGE
1.4~5.5 m — ⑦

M/FP M mode

① ③ ④
| MODE | ⚡+/- | ZOOM | LED |
M — 75mm Off
⑧ — RATIO DISTANCE — ⑨
1/8 7.1 m

MULTI mode

① ⑩ ③ ④
| MODE | ⚡+/- | ZOOM | LED |
MULTI — 75mm Off
⑧ — RATIO Hz TIME — ⑪
1/128 10 5

Radio wireless commander modes (P. 52)

⚡CMD mode

① ②⑧ ③ ⑫
| MODE | +/-RATIO | ZOOM | CH |
⑭ — A TTL 0.0 M 1
⑮ — B TTL 0.0 75mm
⑯ — C M 1/128 FP •)) — ⑱
Off — ⑬

CMD mode

① ②⑧ ⑬ ⑫
| MODE | +/-RATIO | FP | CH |
⑭ — A TTL 0.0 1
⑮ — B TTL 0.0 Off
⑯ — C M 1/128 •))
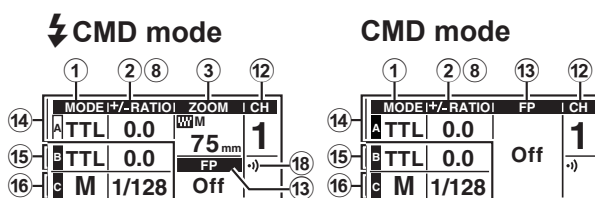
Radio wireless receiver modes (P. 54)

RCV mode

③
| MODE | ⚡+/- | ZOOM | G/CH |
A
— — 75mm —
⑰ — GROUP CH •)) — ⑱
⑫ — A / 1

X-RCV mode

① ③ ⑰⑫
| MODE | +/- | ZOOM | G/CH |
A
M — 75mm A11
⑧ — RATIO •))
1/128
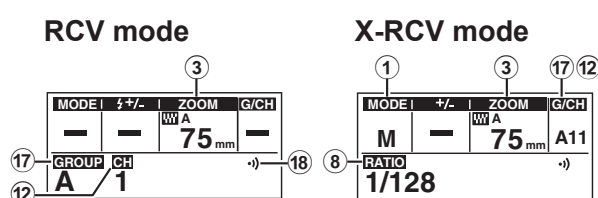
Optical wireless modes (P. 56)

RC mode

① ③ ④
| MODE | ⚡+/- | ZOOM | LED |
M
RC — 28mm Off
⑰ — GROUP CH
⑫ — A / 1

SL M mode

① ② ③ ④
| MODE | ⚡+/- | ZOOM | LED |
SL M
M 1/8 25mm Off
⑧ — RATIO
1/128

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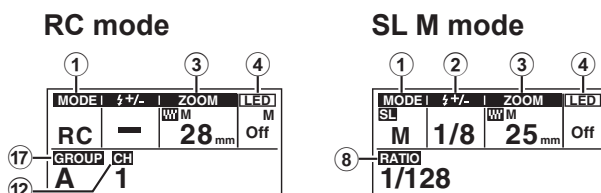
① MODE (flash control mode)
② ⚡+/- (flash compensation)
③ ZOOM (firing angle)
④ LED light
⑤ RANGE (flash control range)
⑥ 🔒 (key lock mode)
⑦ 🌡 (temperature warning)
⑧ RATIO (flash intensity)
⑨ DISTANCE (optimal shooting distance)

⑩ Hz (firing frequency)
⑪ TIME (number of firings)
⑫ CH (communication channel)
⑬ FP (Super FP) flash
⑭ Group A setting
⑮ Group B setting
⑯ Group C setting
⑰ GROUP (communication group)
⑱ •)) (radio wireless mode)

Preparing the Flash
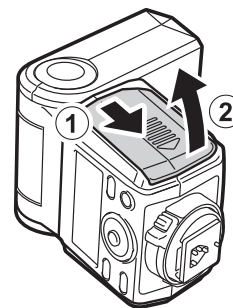
Inserting the batteries (sold separately)

Batteries to use

Choose from the following batteries.

- AA NiMH batteries (x 4)
- AA alkaline dry-cell batteries (x 4)

❶ AA manganese batteries are not usable.

❶ Avoid using AA lithium batteries. Some AA lithium batteries may become extremely hot during use.
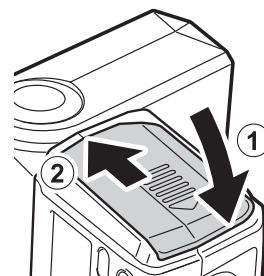
Inserting the batteries

1 Open the battery compartment cover.

2 Insert the batteries.
 - Make sure that the polarity ($\oplus$/$\ominus$) is correct.
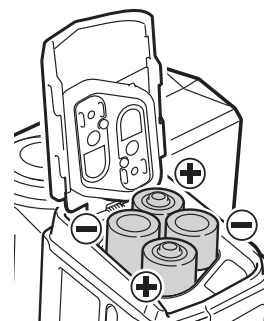
3 Close the battery compartment cover.

Attaching the flash to the camera

❶ Make sure that both the flash and the camera are turned off.

❶ Dirt or moisture on the electrical contacts may cause a malfunction. Wipe off any dirt or moisture before you attach the flash to the camera.
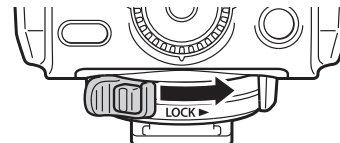
1 Hold down the latch release button (①), and slide the latch in the direction of the arrow (②).

Latch release button
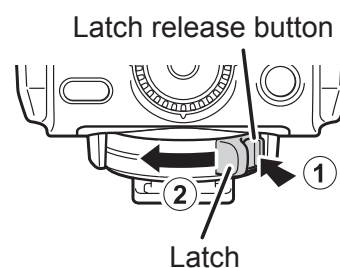
Latch

2 Insert the flash all the way into the hot shoe.

Hot shoe

Electrical contacts
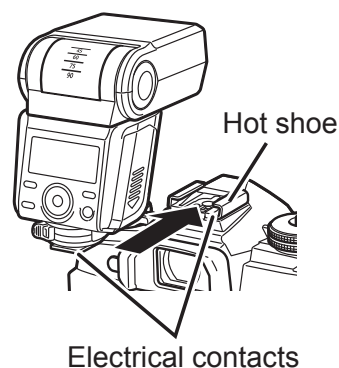
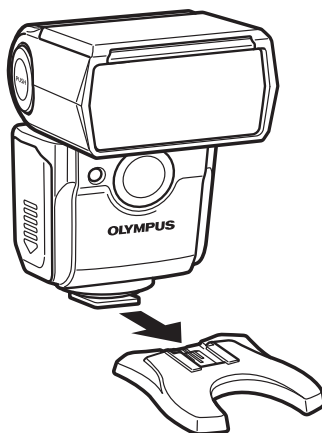**3** Slide the latch in the direction of the arrow.
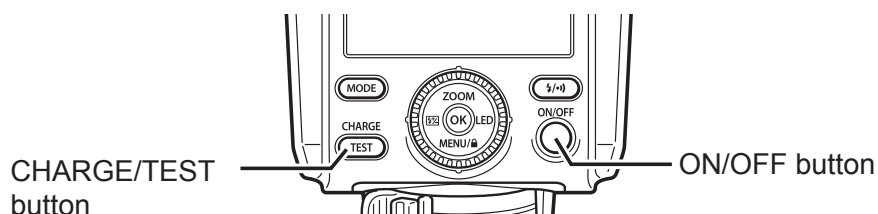
Removing the flash

Perform Step 1 of the above procedure and remove the flash from the hot shoe.

Attaching the flash to the flash stand

To attach the flash to the flash stand, follow the same procedure as "Attaching the flash to the camera."

OLYMPUS

Turning on the Power

CHARGE/TEST
button   ON/OFF button

1 Press the ON/OFF button.
   • The CHARGE/TEST button will light up in orange, and the control panel will
     turn on.
   ❶ If the CHARGE/TEST button does not light up after the following length of time,
     you should replace the batteries soon. (P. 39)

   NiMH batteries: 10 seconds
   Alkaline dry-cell batteries: 30 seconds

   ❶ If the ▢ mark appears in the center of the control panel, the batteries are
     running very low. Replace the batteries as soon as possible.

Firing a test flash

To fire a test flash, press the CHARGE/TEST button while the button is lit up in
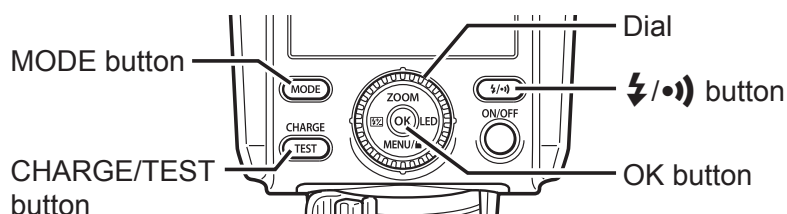orange.

Turning off the power

Press the ON/OFF button.

Sleep mode/Automatic power off

   • With some cameras, the flash will automatically enter the sleep mode when
     the camera enters the sleep mode.
   • If approximately 60 minutes elapse with no operations, the power will turn off
     automatically. Press the ON/OFF button when you want to use the flash again.
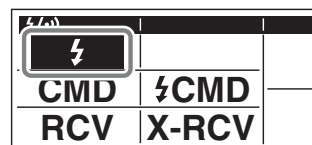
Shooting with the Flash

MODE button — Dial — $\frac{4}{4}$/•) button

CHARGE/TEST button — OK button

1 Set a flash mode on the camera.

• Refer to the camera manual for details.

2 Press the $\frac{4}{4}$/•) button. Then, turn the dial to select the $\frac{4}{4}$ (flash) mode. Press the OK button to confirm.

• The CHARGE/TEST button will light up in orange.

$\frac{4}{4}$		
CMD	$\frac{4}{4}$CMD	—
RCV	X-RCV	

3 Press the MODE button. Then, turn the dial to select a flash control mode and adjust the settings.

• For details, refer to the explanations of the flash control modes (P. 43 to 46).

4 Press the shutter button halfway down.

• If you are using the TTL mode, make sure that the subject is within the value of RANGE (flash control range).

• If you are using the M mode, make sure that the subject is within the value of DISTANCE (optimal shooting distance).

5 Press the shutter button all the way down to take a picture.

❶ When you fire the flash repeatedly, the area around the flash window becomes hot. If the internal temperature of the flash rises excessively, $\frac{1}{4}$ (temperature warning) will appear and the flash will not fire for a certain period of time. Limit continuous firing to approximately 40 times (when firing at full power). After firing, avoid using the flash for at least 10 minutes.

❶ Depending on the lens and hood, vignetting may occur. (The shadow of the lens or hood may appear on the subject.)

Automatically Controlling Flash (TTL Mode)

The TTL mode adjusts the flash level according to the brightness through the camera lens. You can use this mode with cameras that support the Olympus TTL mode. Refer to the Olympus website for a list of compatible cameras.

1 Press the MODE button. Then, turn the dial to select TTL. Press the OK button to confirm.

MODE	⚡+/-	ZOOM	LED
		A	M
TTL	0.0	75 mm	Off
RANGE			
0.7~8.0 m			

2 Adjust the settings.

Setting the flash compensation (⚡+/-)

Press the ⚡ button to highlight ⚡+/-. Then, turn the dial to adjust the setting.

 • You can set a flash compensation from -5 to +5.

Press the OK button.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

 • When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
 • When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
 • When you select M (manual), you can set a firing angle from 12 mm to 75 mm.

Press the OK button.

Manually Setting the Flash Intensity (M Mode)

The flash will fire at the selected intensity. You can use this mode with cameras that do not support the Olympus communication feature.

1 Press the MODE button. Then, turn the dial to select M. Press the OK button to confirm.

MODE	⚡+/-	ZOOM	LED
		A	M
M	−	75 mm	Off
RATIO		DISTANCE	
1/128		1.14 m	

2 Adjust the settings.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.
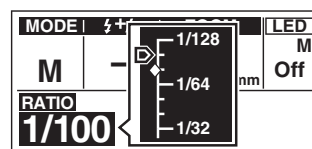
Press the OK button.

Setting the flash intensity (RATIO)

Press the ▦ button to highlight RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.*1

  *1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)
  *2 On the scale display, ▷ is the current selection. ◇ is the previous setting.

Scale display*2

Press the OK button.

- If you switch to the M mode after you shoot with the flash in the TTL mode, the previous flash intensity will become the manual flash intensity.

Firing the Flash at a High Shutter Speed (FP TTL Mode / FP M Mode)

You can shoot with the flash at shutter speeds faster than the flash sync speed. These modes are useful when you want to shoot a portrait with a blurry background by widening the aperture, or when you want to use a high shutter speed to reduce blown-out highlights in the background.
The guide number is lower than in the regular TTL mode or M mode.

1 Press the MODE button. Then, turn the dial to select FP TTL or FP M. Press the OK button to confirm.
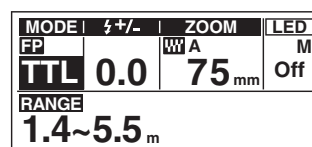
2 Adjust the settings.

Setting the flash compensation (⚡+/-) in the FP TTL mode

Press the 🔳 button to highlight ⚡+/-. Then, turn the dial to adjust the setting.

- You can set a flash compensation from -5 to +5.

Press the OK button.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.
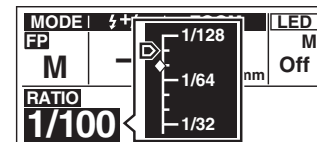
Press the OK button.

Setting the flash intensity (RATIO) in the FP M mode

Press the 🔳 button to highlight RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.*[1]

  *1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)

 *2 On the scale display, ▶ is the current selection. ◇ is the previous setting.

Press the OK button.

Scale display*[2]

Firing the Flash Repeatedly at a Regular Interval (MULTI Mode)

In this mode, the flash fires multiple times at a regular interval during a single exposure. You can capture the subject's movement in a single image. The maximum number of firings varies according to the setting for flash intensity. Normally, this kind of shooting uses a slow shutter speed of 60 seconds or shorter. You can only set this mode with Olympus cameras that support the multi-flash feature.

1 Press the MODE button. Then, turn the dial to select MULTI. Press the OK button to confirm.
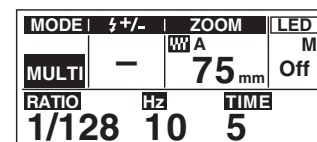
2 Adjust the settings.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.
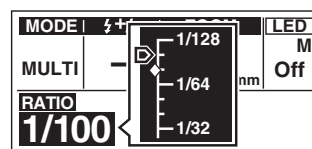
Press the OK button.

Setting the flash intensity (RATIO)

Press the ⚡ button to highlight RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/4 to 1/128.[1]

    [1] You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)
    [2] On the scale display, ▷ is the current selection. ◇ is the previous setting.

Press the OK button.

Scale display[2]

Setting the firing frequency (Hz)

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight Hz. Turn the dial to adjust the setting.

- You can set a frequency from 1 to 100.

Press the OK button.

Setting the number of firings (TIME)

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight TIME. Turn the dial to adjust the setting.

- The maximum setting for number of firings varies according to the setting for flash intensity (RATIO).

Press the OK button.

Setting the shutter speed on the camera

Set the shutter speed in accordance with the firing frequency and the number of firings set on the flash as described below.

Shutter speed (sec.) ≥ Number of firing (TIME) ÷ Firing frequency (Hz)

Example:
When "10" is set for the number of firing (TIME) and "5" is set for the firing frequency (Hz), set the shutter speed longer than the value (sec.) calculated in the following formula.

$10 ÷ 5 = 2$

Shooting Tips

## Adjusting the distribution of light

You can switch between the standard mode and the wide mode. The wide mode is useful when you want to illuminate the surroundings more uniformly. When the firing angle is 12 mm or less, the light distribution does not change.

1 Hold down the ZOOM button until "W" (wide) appears on the control panel.

• To cancel the setting, hold down the ZOOM button until "W" (wide) disappears from the control panel.

MODE	⚡+/−		ZOOM	LED
			🔲 Ⓦ	M
TTL	0.0		25 mm	Off
RANGE				
0.7~8.0 m				

Tilting the flash window (bounce flash photography)

By changing the angle of light from the flash to the subject, you can control the appearance of shadows. You can also reflect the light off the ceiling or walls to soften shadows on the subject.

Flash window — 90°
180°
180°
PUSH button
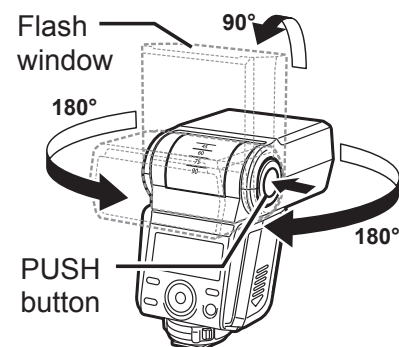
1 Hold down the PUSH button and tilt the flash window upward, downward, to the left, or to the right.

Bouncing the flash

You can soften the light from the flash by reflecting it off the ceiling or walls.

- When you set ZOOM (firing angle) to A (auto), the firing angle for bounce flash photography becomes the "Bounce zoom" setting. (P. 60)

Creating a catch light effect

If you use the catch light plate during bounce flash photography, you can create reflections in the eyes of human subjects. This gives subjects more dynamic expressions.

1 Hold down the PUSH button and tilt the flash window upward by 90 degrees.

2 Pull out the wide panel.
   - The catch light plate will come out with the wide panel.

3 Stow just the wide panel.

Catch light plate
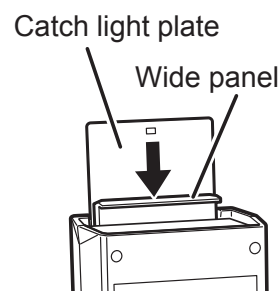
Wide panel

Increasing the firing angle (wide panel)

Use the wide panel when you use a lens with a focal length of 12 mm (24 mm*) or shorter. The firing angle will become 7 mm. The wide panel is also useful when you want to diffuse light during shooting at distances shorter than 1 meter (3.2 ft.), and so forth.

* Focal length for 135 film (35 mm film)

1 Pull out the wide panel and set it in front of the flash window.
   - The catch light plate will come out with the wide panel.
   - The setting for ZOOM (firing angle) follows the "Wide panel" setting. (P. 60)

Wide panel/
Catch light plate

2 Stow just the catch light plate.
   ❶ Do not flip the wide panel upward.
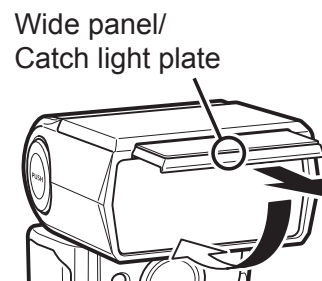
Wireless Shooting

You can shoot an image using one or more flashes placing away from the camera. You can adjust the positions and settings of the flashes to enjoy many different lighting effects.

This flash supports wireless shooting with both radio communications and optical communications.

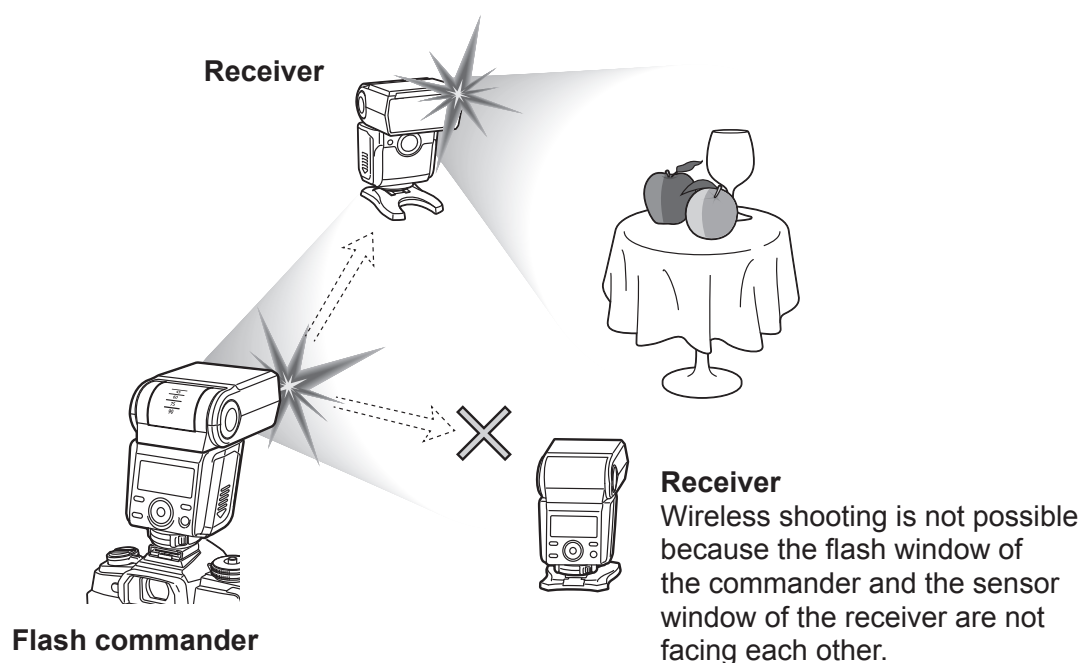## Differences between radio communications and optical communications

Wireless shooting with radio communications has some advantages over wireless shooting with optical communications. Wireless shooting feature of being less vulnerable to obstacles and ambient light allows flexible receiver installation and selection of shooting location.

The following chart shows the main functional differences.

Function	Radio communications	Optical communications
Maximum communication distance	Approx. 30 meters (98.4 ft.)	Up to approx. 5 meters (16.4 ft.)*
Groups	3 groups (A / B / C)	3 groups (A / B / C) + 1 master flash
Communication channels	1 to 15	1 to 4

* The distance varies depending on the angle of the receiver and compatibility between the flash and the receiver.

Optical communications

Receiver

Flash commander

Receiver
Wireless shooting is not possible because the flash window of the commander and the sensor window of the receiver are not facing each other.

Radio communications

Receiver

Commander

Receiver
Wireless shooting is possible even if the flash window of the commander and the sensor window of the receiver are not facing each other.
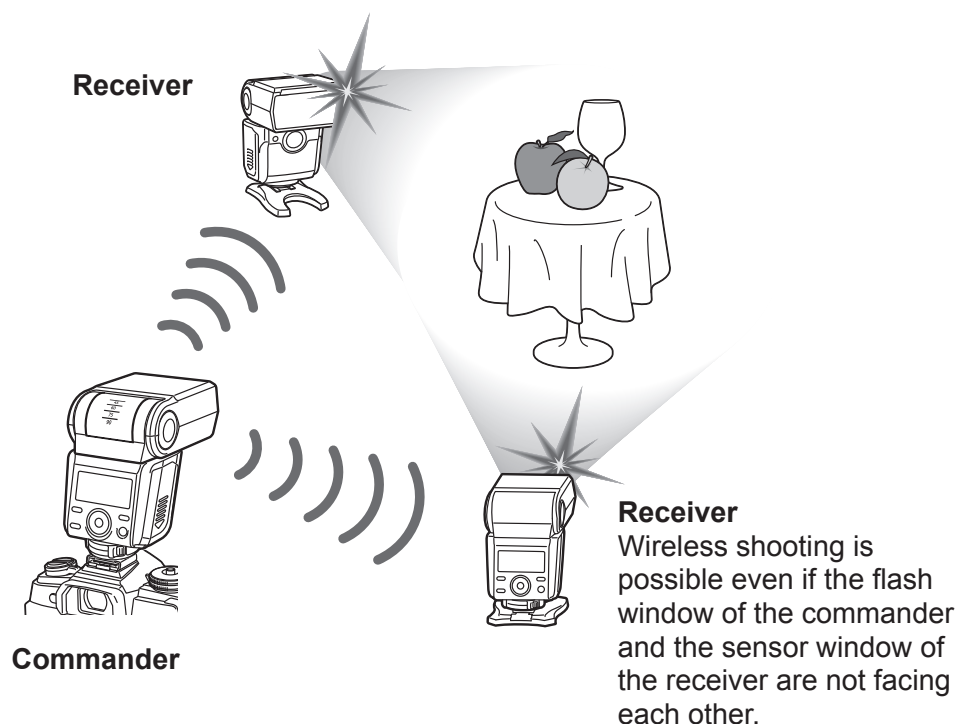
Using the Radio Wireless Function

You can use this flash to control multiple receivers through radio communications (commander function). You can also use the commander to control this flash through radio communications (receiver function). These functions only work with Olympus products that support the radio wireless function.
Refer to the Olympus website for information on products that support the radio wireless function.

Operating modes

This flash has the following radio wireless operating modes.

**Radio wireless commander:** The flash controls radio wireless receivers.

Radio commander flash: The flash controls radio wireless receivers and fires a flash.

Radio wireless receiver (group control): The flash controls firing.

Radio wireless receiver (individual control): The flash controls firing with its own settings.

Group control

When you set the operating mode of the flash to radio wireless commander or radio commander flash, you can control up to three groups of radio wireless receivers. Within each group, the flashes will fire with the same settings. This function allows you to shoot with a variety of lighting effects.

Group B

Radio wireless receiver

Radio wireless receiver

Group A

Radio commander flash

Radio wireless receiver

Group C

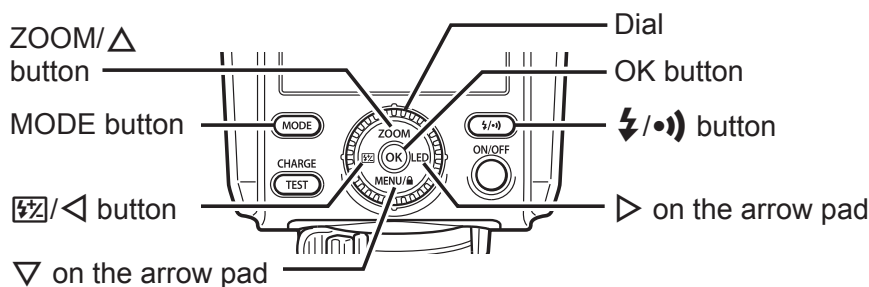**Radio wireless receiver**
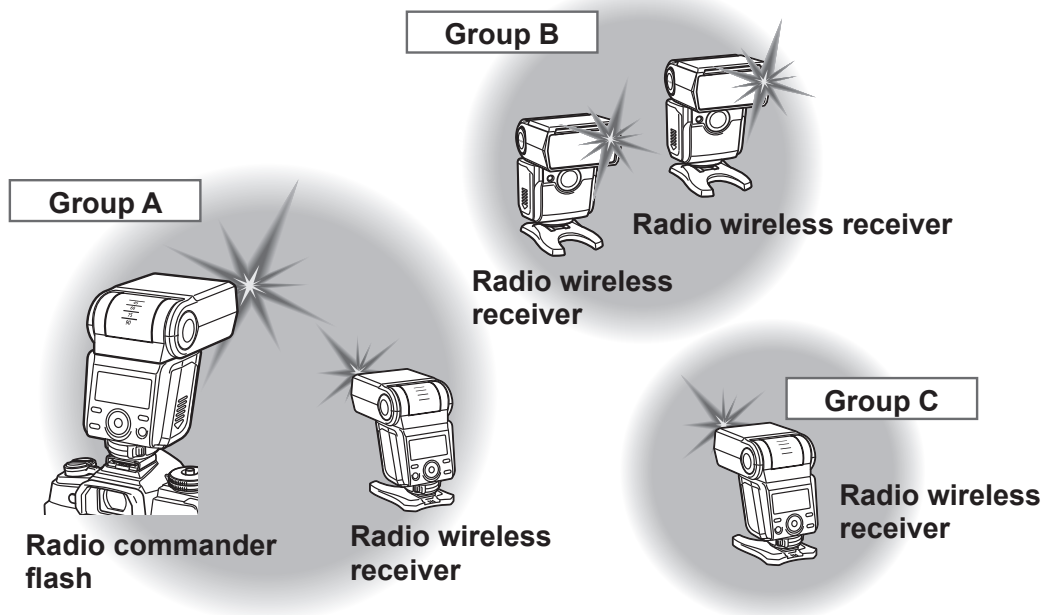
Communication distance

The maximum distance for radio wireless communications with this flash is approx. 30 meters (98.4 ft.) (under Olympus measurement conditions).

• This distance assumes that there are no obstacles, shielding materials, or radio interference from other devices.
• The communication distance may be shorter depending on the positions of the devices, the surrounding environment, weather conditions, and other factors.

Frequency

This product uses the 2.4 GHz band for wireless communications. However, other wireless devices may use the same frequency.

Radio Wireless Shooting

ZOOM/△ button — Dial
MODE button — OK button
CHARGE/TEST — $\frac{4}{ }$/•) button
▣/◁ button — ▷ on the arrow pad
▽ on the arrow pad

Using the flash as a radio wireless commander/commander flash

1 Press the $\frac{4}{ }$/•) button. Then, turn the dial to select an operating mode. Press the OK button to confirm.

• The CHARGE/TEST button will light up in green.

```
$\frac{4}{ }$/•)
CMD   $\frac{4}{ }$CMD   •))
RCV   X-RCV
```

When you select the operating mode

CMD mode
• You can use the flash as a radio wireless commander. (The flash does not fire.)

MODE	+/-RATIO		FP	CH
A TTL	0.0			1
B TTL	0.0		Off	•))
C M	1/128			

$\frac{4}{ }$CMD mode
• You can use the flash as a radio commander flash. (Group A is set for the flash.)

MODE	+/-RATIO	ZOOM		CH
A TTL	0.0	▥A		1
B TTL	0.0	75mm		•))
C M	1/8	FP Off		

2 Press the MODE button. Then, press △ ▽ on the arrow pad. Highlight MODE (flash control mode) for a group to set the group's flash control mode.

MODE	+/-RATIO	ZOOM		CH
A TTL	0.0	▥A		1
B TTL	0.0	75mm		•))
C M	1/8	FP Off		

3 Turn the dial to select a flash control mode, and then press the OK button.

• For details, refer to the explanations of the flash control modes (P. 43 to 46).

❶ If you do not want to use a particular group, select "Off."

4 Adjust the settings.

Setting the flash compensation (⚡ +/-) in the TTL or FP TTL mode

Press the 🔲 button to highlight +/- RATIO. Then, turn the dial to adjust the setting.

- You can set a flash compensation from -5 to +5.

Press the OK button.

MODE	+/-RATIO	ZOOM	CH
A TTL	0.0	🔲A 75mm	1
B TTL	0.0	FP	•))
C M	1/8	Off	

Setting the flash intensity (RATIO) in the M, FP M, or MULTI mode

Press the 🔲 button to highlight +/- RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.*1

  *1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)
  *2 On the scale display, ▷ is the current selection. ◇ is the previous setting.

Press the OK button.

MODE	+/-RATI		D
A TTL	0.0		—1/16
B TTL	0.0	▷	—1/8
C M	1/8		—1/4

Scale display*2

Setting the firing angle (ZOOM) in the ⚡ CMD mode

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.

Press the OK button.

Setting the FP mode

Press ◁▷ on the arrow pad to highlight FP. Then, turn the dial to adjust the setting.

- You can select On (enable) or Off (disable).

MODE	+/-RATIO	FP	CH
A TTL	0.0		1
B TTL	0.0	On	•))
C M	1/8		

CMD mode

MODE	+/-RATIO	ZOOM	CH
A TTL	0.0	🔲A 12mm	1
B TTL	0.0	FP	•))
C M	1/8	On	

⚡CMD mode

- Refer to "Firing the Flash at a High Shutter Speed (FP TTL Mode / FP M Mode)" (P. 44) for details.

Press the OK button.

Setting the channel (CH)

**Press ◁▷ on the arrow pad to highlight CH. Then, turn the dial to select a communication channel. Press the OK button to confirm.**

 • You can select SCAN* or a channel from 1 to 15.
   *Select this setting when the communication conditions are poor due to interference from other devices. When an unused channel appears automatically, press the OK button again to confirm.

5 On the wireless receivers, select the same channel that you set on the wireless commander/commander flash.
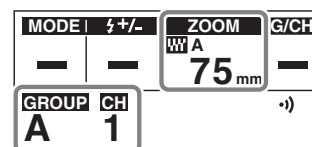
Using the flash as a wireless receiver

1 Press the ⚡/•)) button. Then, turn the dial to select an operating mode. Press the OK button to confirm.
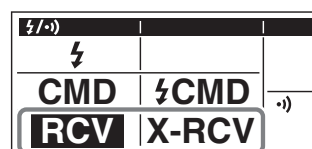
When you select the operating mode

RCV (group control) mode
 • In this mode, you set the flash control mode and flash intensity on the radio wireless commander. The radio wireless receiver (this flash) receives the setting information and firing signal from the radio wireless commander. Then, the radio wireless receiver fires a flash.

X-RCV (individual setting) mode
 • In this mode, you set the flash control mode and flash intensity on the radio wireless receiver (this flash). The radio wireless receiver receives a firing signal from the radio wireless commander. Then, the radio wireless receiver fires a flash with its own settings.
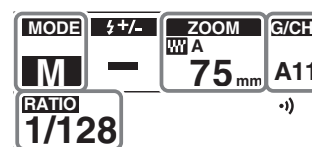
2 Press the MODE button. Then, turn the dial to select a flash control mode. Press the OK button to confirm. (only for the X-RCV mode)

3 Adjust the settings.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.
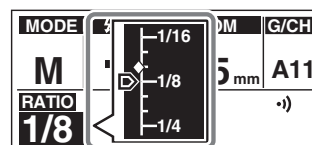
Press the OK button.

Setting the flash intensity (RATIO) in the X-RCV mode

Press the 🔲 button to highlight RATIO. Then, turn the dial to select a setting.

- You can set a flash ratio from 1/1 to 1/128.*[1]

  *1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)

  *2 On the scale display, ▶ is the current selection. ◇ is the previous setting.

Scale display*[2]

Press the OK button.

Setting the communication group/channel in the RCV mode

- Select the same group and the same channel that you set on the wireless commander/commander flash.

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight GROUP (communication group). Turn the dial to adjust the setting.
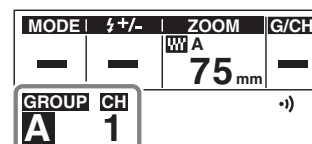
- You can select Group A, Group B, or Group C.

Press the OK button.

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight CH (communication channel). Turn the dial to adjust the setting.
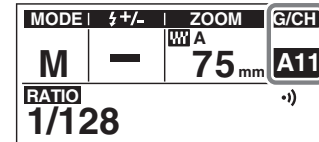
- You can select a channel from 1 to 15.

Press the OK button.

Setting the communication group/channel in the X-RCV mode

- Select the same group and the same channel that you set on the wireless commander/commander flash.

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight G/CH (communication group/communication channel). Turn the dial to adjust the setting.

- You can select from A1 to A15, B1 to B15, and C1 to C15.

Press the OK button.

Setting the firing frequency (Hz) and number of firings (TIME)

- This procedure is necessary only when you select the MULTI mode in Step 2. Refer to "Firing the Flash Repeatedly at a Regular Interval (MULTI Mode)" (P. 45) for details.

Optical Wireless Functions

Wireless RC flash shooting allows you to use the camera settings to control multiple flashes through optical communications. This function only works with Olympus digital cameras that support the wireless RC mode.
Optical slave shooting allows you to control the flash through optical communications. This function works even with products that do not support the RC mode.
The flash may not fire properly in the following situations.
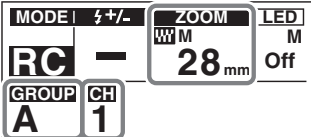
- Something is blocking the light from the commander flash.

- The receiver is outside the range of the commander flash.

- The commander flash and the receiver are too far apart.

- The sensor window of the receiver is not correctly facing the commander flash.

- The receiver is in a bright environment, such as outside on a sunny day.

Refer to the camera manual as well.

Shooting with the wireless RC flash

❶ The commander communicates with the receivers using light (a pre-flash). The operating range varies according to the camera/flash.

1 Set the camera to the RC mode.

2 Set the communication channel on the camera.
　• Refer to the camera manual for details.

3 Press the 🔦/•)) button. Then, turn the dial to select the 🔦 (flash) mode. Press the OK button to confirm.

4 Press the MODE button, and then turn the dial to select RC.

MODE	🔦 +/–	ZOOM	LED
		M	M
RC	—	28 mm	Off
GROUP	CH		
A	1		

5 Adjust the settings.

Setting the communication channel (CH)

　• Select the same channel that you set on the camera.

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight CH. Turn the dial to adjust the setting.

　• You can select a channel from 1 to 4.

Press the OK button.

Setting the communication group (GROUP)

Press the MODE button. Then, press ◁▷ on the arrow pad to highlight GROUP. Turn the dial to adjust the setting.

　• You can select Group A, Group B, or Group C.

Press the OK button.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.

　• When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
　• When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
　• When you select M (manual), you can set a firing angle from 12 mm to 75 mm.

Press the OK button.

Optical slave shooting

1 Press the ⚡/•)) button. Then, turn the dial to select the ⚡ (flash) mode. Press the OK button to confirm.

2 Press the MODE button, and then turn the dial to select the SL M mode.

MODE	⚡+/-	ZOOM	LED
SL		M	M
M	−	**25** mm	Off
RATIO			
1/128			

3 Adjust the settings.

Setting the firing angle (ZOOM)

Press the ZOOM button to highlight ZOOM. Then, turn the dial to adjust the setting.
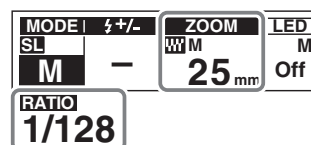
- When you select A (auto), an automatic setting takes effect. The automatic setting ranges from 12 mm to 75 mm.
- When the flash window is adjusted for bounce flash photography, you cannot select A (auto).
- When you select M (manual), you can set a firing angle from 12 mm to 75 mm.

Press the OK button.

Setting the flash intensity (RATIO)

Press the ⚡ button to highlight RATIO. Then, turn the dial to adjust the setting.

- You can set a flash ratio from 1/1 to 1/128.*¹

  *1 You can select 1/2 EV or 1/3 EV for the adjustment increment. (P. 60)

  *2 On the scale display, ▷ is the current selection. ◇ is the previous setting.

Press the OK button.

MODE			DM	LED
SL		—1/16		M
M	◇ ▷ —1/8	**5** mm	Off
RATIO			
1/8	< —1/4		

Scale display*²

Other settings

Turning on the LED light

You can use the flash as a light.

1 Hold down the LED button until ![icon] appears on the control panel.

- To turn off the light, hold down the LED button until "Off" appears.

🛈 You can only use the LED light in the 🗲 (flash) mode.

```
MODE | 🗲+/− | ZOOM | LED
FP             WW A        M
TTL  0.0    17mm  ⚡On
RANGE
0.60~10.4 m
```

Preventing accidental operation (key lock mode)
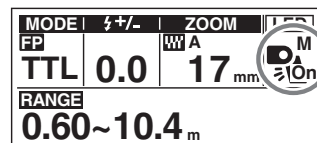
You can prevent accidental operation of the buttons and dial during shooting.

1 Hold down the MENU/🔒 button until 🔒 appears on the control panel.

- To cancel the mode, hold down the MENU/🔒 button until 🔒 disappears from the control panel.

```
MODE | 🗲+/− | ZOOM | LED
               WW A        M
TTL  0.0    25mm  Off
RANGE
0.7~8.0 m         🔒
```
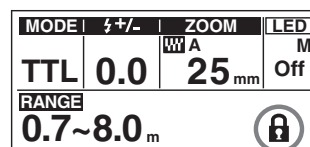
Settings on the MENU Screen

You can configure various functions to make the flash easier to use.

Setup procedure

△ on the arrow pad — Dial

MENU/▽ button — OK button
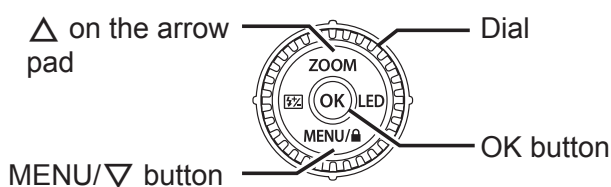
Function name   Setting

```
AF illum. mode   Auto
LED brightness   1/8
EV step          1/3
Bounce zoom      12
        Value DIAL  Set OK
```

Menu

1 Press the MENU button.

2 Press △▽ on the arrow pad and select a function name.

3 Turn the dial to select a setting, and press the OK button to confirm.

Configurable functions

▯ indicates the default setting.

AF illum. mode: You can turn on the AF illuminator by controlling the camera.

      Auto (To use the AF illuminator) / **Off** (To turn off the function)

LED brightness: You can adjust the brightness of the LED light.

      From **1/1** (brightest) to **1/8** to **1/32** (darkest)

EV step: You can change the adjustment increment for ⚡+/- (flash compensation/flash intensity).

      1/3 / **1/2**

Bounce zoom: You can manually configure ZOOM (firing angle) during bounce flash photography, even when you have set ZOOM to A (auto).

      From **12** to **75**

❶ You cannot configure this function when you set "Wide panel" to "On" and pull out the wide panel.

Wide panel: The setting for ZOOM (firing angle) automatically becomes 7 mm when you use the wide panel (P. 48).

      On (To turn on the function) / **Off** (To turn off the function)

Flash cable: You can select whether or not to use a flash cable.

      On (To use a flash cable) / **Off** (To turn off the function)

❶ When you select "On," the RANGE (flash control range) display does not appear. When you select "Off," the RANGE display assumes that you have attached the flash to the camera.

Zoom display: You can change the ZOOM (firing angle) display.

You can display the focal length for a Four Thirds lens or the focal length for 135 film (35 mm film).

      FT (Four Thirds lens) / **135F** (35 mm film)

m/ft: You can change the unit on the RANGE (flash control range) display.

      m (Meters) / **ft** (Feet)

Front charge ind.: The LED light blinks to indicate when the flash is ready to fire.

> **Auto** (To turn on the function) / **Off** (To turn off the function)

❶ You can only configure this function if you have set MODE (flash control mode) to RC (P. 57) or SL M (P. 58).

Back light mode: You can set the back light of the control panel.

> **Auto** (The back light turns on during operation.) /
> **On** (The back light is always on.) / **Off** (The back light is always off.)

Back light timer: You can set when to turn off the back light of the control panel.

You can select the time (in seconds) until the back light turns off automatically when there is no operation.

> From **1sec** to **5sec** to **15sec**

Beep: A beeping sound indicates when the flash is ready to fire.

> **Off** (To turn off the function) / **On** (To turn on the function)

Reset: You can restore the default settings.

> **No** (To keep the current settings) / **Yes** (To restore the default settings)

Safety Precautions

Read WARNINGS and CAUTIONS thoroughly to ensure safe usage. These safety precautions protect the users and others and prevent property damage.

⚠ **WARNING**	Failure to observe the precautions indicated by this symbol may result in injury or death.

- Do not use flash in places where it may be exposed to flammable or explosive gas. Otherwise, fire ignition or explosion may result.
- Do not directly solder the product or modify, remodel, or disassemble.
- Do not cover the light emitting area of the flash with your hand, and do not touch the light emitting area after continuous firing. It may burn your skin.
- Water and foreign matter inside of the device may cause fire or electric shock. If the device is immersed in or exposed to water or foreign matter is found inside of the device, turn off the power immediately and remove batteries with care. Contact your dealer or consult an Olympus Authorized Service Station.
- To prevent a traffic accident, do not direct the flash at a person operating a motor vehicle.

- Do not use the flash or AF illuminator in close proximity to others (especially infants). Keep the flash out of reach of children. Light from the flash can cause visual impairment.
- To prevent a short circuit, do not use batteries with a damaged external seal (insulation coating).
- Do not mix old and new batteries, or batteries made by different manufacturers.
- Do not connect substances such as metal to the (+) or (−) of batteries.

⚠ **CAUTION**	Failure to observe the precautions indicated by this symbol may result in injury or property damage.

- If you notice any abnormalities such as odor, noise, or smoke, stop using this device. Otherwise a fire or burn may result. Remove the batteries carefully to avoid burning yourself, and contact your dealer or consult an Olympus Authorized Service Station.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Do not operate with wet hands. This may cause malfunction or electric shock.
- Do not use or store batteries in areas exposed to extremely high temperatures, such as in direct sunlight, in an enclosed vehicle on a sunny day, or near a heater.
- Continuous repeated firing could lead to adverse health effects.
- Dirt or water on the contacts can cause malfunction. Remove dirt, water, and other foreign matter before attaching the unit to the camera.

Using the radio wireless function

- When you use the radio wireless communication function, comply with all local laws and regulations.
- If you use the product outside the region of purchase, you may violate local regulations for radio waves. Olympus accepts no liability in this case.
- Turn off the product in hospitals and other locations where medical equipment is present.
  The radio waves from the product may adversely affect medical equipment, causing a malfunction that results in an accident.
- Turn off the product when onboard aircraft.
  Using wireless devices onboard may hinder safe operation of the aircraft.

FCC Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment must not be co-located or operated in conjunction with any other antenna or equipment except Olympus wireless equipment whose RF exposure was evaluated for this equipment. For the latest information, please visit the Olympus website.
Website: https://cs.olympus-imaging.jp/en/support/imsg/digicamera/download/notice/rfsimullist.cfm

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Declaration of Conformity
Model Number   : IM011
Trade Name   : OLYMPUS
Responsible Party : **OLYMPUS AMERICA INC.**
Address   : 3500 Corporate Parkway, P. O. Box 610, Center Valley,
                              PA 18034-0610, USA
Telephone Number : 484-896-5000
Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

This device complies with part 15 of FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules as this equipment has very low levels of RF energy.

Simple Declaration of Conformity

Hereby, OLYMPUS CORPORATION declares that the radio equipment type IM011 is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
http://www.olympus-europa.com/

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.
Please do not throw the equipment into the domestic refuse.
Please use the return and collection systems available in your country for the disposal of this product.

Radio wireless communication function	
Compatible standard	IEEE 802.15.4 2405 - 2480 MHz 3 mW or less
Firmware	Version 1.0 or later

Complies with
IMDA Standards
DB104634

Specifications

Product type		TTL automatically controllable flash
Maximum guide number		Approx. 42 (firing angle of 75 mm / standard light distribution, ISO 100•m)
Firing angle		Auto/Manual Focal length: 12 mm to 75 mm (35 mm-equivalent focal length: 24 mm to 150 mm) / 7 mm (35 mm-equivalent focal length: 14 mm) when using the built-in wide panel Light distribution modes: Standard / Wide* * The same light distribution as the standard mode when the firing angle is 12 mm or less.
Flash control modes		TTL / MANUAL / FP TTL / FP MANUAL / MULTI
Flash compensation		±5 EV (Increment: 1/3 EV or 1/2 EV)
Manual flash intensity		From 1/1 to 1/128 (Increment: 1/3 EV or 1/2 EV)
Flash duration		From approx. 1/20000 second (M 1/128) to 1/950 second (M 1/1)
Firing frequency[1]		Approx. 2.5 seconds (when using AA dry-cell alkaline batteries) / Approx. 1.5 seconds (when using AA NiMH batteries)
Number of firings[1]		Approx. 240 times (when using AA dry-cell alkaline batteries) / Approx. 280 times (when using AA NiMH batteries)
Bounce		Upward: 0° straight ahead; from 0° to 90° upward To the left/right: 0° straight ahead; from 0° to 180° left/right with lock mechanism
Built-in functions		Wide panel, catch light plate
Radio wireless function	Control modes	Commander: Commander / Commander flash Receiver: RCV (commander flash control) / X-RCV (receiver flash control)
	Maximum communication distance[1]	Approx. 30 m (98.4 ft.)
	Frequency	2.4 GHz band
	Number of channels	15 (in the commander mode; with automatic channel setting function)
	Number of groups	3; maximum number of units: unlimited
	Flash control modes	TTL / MANUAL / FP TTL / FP MANUAL / Off

Optical wireless function	Control modes	RC (commander flash control) / SL MANUAL (slave manual)
	Number of channels	4
	Number of groups	4 independently controllable groups (receivers: 3; on-camera flash: 1)
	Flash control modes	TTL / MANUAL / FP TTL / FP MANUAL / Off
LED/AF illuminator	Color	White
	Illumination angle	Approx. 77° (equivalent to 14 mm firing angle)
	LED illuminance	Approx. 100 lux (1/1, 1 m), MANUAL (From 1/1 to 1/32 in increments of 1 EV); Off
	LED lighting duration	Approx. 1.8 hours (when using AA alkaline dry-cell batteries)[1]
Charging completion indication		LED blinking; beeping sound
Power supply		AA alkaline dry-cell batteries x 4 / AA NiMH batteries x 4
Splash-proof function (Type)		Class 1 (IPX1)
Operable temperature/ humidity[2]		From -10 to 40ºC (14 to 104ºF) / From 30 to 90%
Storage warranty temperature/humidity		From -20 to 60ºC (-4 to 140ºF) / From 10 to 90%
Dimensions		Approx. 70.4 (W) x 106.3 (H) x 100.2 (D) mm (2.8 x 4.2 x 3.9 in.) [excluding the projecting parts]
Weight		303 g (10.7 oz.) [excluding the batteries]

Specifications are subject to change without notice.

*1 Values are based on Olympus testing conditions and may vary according to the shooting conditions. The values assume the use of new batteries or fully charged rechargeable batteries.
*2 At low temperatures, warm the batteries before use. For example, place the batteries in your pocket.

Guide number table

The values for firing angle (ZOOM) indicate the focal length for a Four Thirds lens (Unit: mm). The values inside the parentheses indicate the focal length for 135 film (35 mm film).

In the standard flash modes (standard light distribution; ISO100)

Flash intensity (RATIO)	Firing angle (ZOOM)						
	7 (14)	12 (24)	14 (28)	17 (35)	25 (50)	30 (60)	35 (70)
1/1	11.0	21.0	22.0	24.0	27.0	29.0	30.0
1/2	7.8	14.9	15.6	17.0	19.1	20.5	21.2
1/4	5.5	10.5	11.0	12.0	13.5	14.5	15.0
1/8	3.9	7.4	7.8	8.5	9.6	10.3	10.6
1/16	2.8	5.3	5.5	6.0	6.8	7.3	7.5
1/32	1.9	3.7	3.9	4.2	4.8	5.1	5.3
1/64	1.4	2.6	2.8	3.0	3.4	3.6	3.8
1/128	1.0	1.9	1.9	2.1	2.4	2.6	2.7
	40 (80)	45 (90)	52 (105)	60 (120)	67 (135)	75 (150)	
1/1	33.0	36.0	37.0	38.0	40.0	42.0	
1/2	23.3	25.5	26.2	26.9	28.3	29.7	
1/4	16.5	18.0	18.5	19.0	20.0	21.0	
1/8	11.7	12.7	13.1	13.4	14.1	14.9	
1/16	8.3	9.0	9.3	9.5	10.0	10.5	
1/32	5.8	6.4	6.5	6.7	7.1	7.4	
1/64	4.1	4.5	4.6	4.8	5.0	5.3	
1/128	2.9	3.2	3.3	3.4	3.5	3.7	

Super FP flash mode (standard light distribution; ISO100)

Flash intensity (RATIO)	Firing angle (ZOOM)						
	7 (14)	12 (24)	14 (28)	17 (35)	25 (50)	30 (60)	35 (70)
1/1	6.5	12.5	13.1	14.3	16.1	17.2	17.8
1/2	4.6	8.8	9.3	10.1	11.4	12.2	12.6
1/4	3.3	6.3	6.6	7.2	8.0	8.6	8.9
1/8	2.3	4.4	4.6	5.1	5.7	6.1	6.3
1/16	1.6	3.1	3.3	3.6	4.0	4.3	4.5
1/32	1.2	2.2	2.3	2.5	2.8	3.1	3.2
1/64	0.8	1.6	1.6	1.8	2.0	2.2	2.2
1/128	0.6	1.1	1.2	1.3	1.4	1.5	1.6
	40 (80)	45 (90)	52 (105)	60 (120)	67 (135)	75 (150)	
1/1	19.6	21.4	22.0	22.6	23.8	25.0	
1/2	13.9	15.1	15.6	16.0	16.8	17.7	
1/4	9.8	10.7	11.0	11.3	11.9	12.5	
1/8	6.9	7.6	7.8	8.0	8.4	8.8	
1/16	4.9	5.4	5.5	5.7	6.0	6.3	
1/32	3.5	3.8	3.9	4.0	4.2	4.4	
1/64	2.5	2.7	2.8	2.8	3.0	3.1	
1/128	1.7	1.9	1.9	2.0	2.1	2.2	

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