SM1S

Sony Speedlight Master

Transmitter

Code 4959

[pro]master®

Contents

Precautions

- Do not attempt to disassemble, open, or repair this transmitter by yourself.
- This product is not water-resistant. Keep it away from rain, snow, and high humidity areas.
- Do not touch this device with wet hands.
- Avoid corrosive or flammable substances when cleaning this product.
- The ideal operating temperature range for this device is 32F to 104F / 0°C to 40°C.
- Keep the device and its internal battery away from excessive heat.
- Keep this accessory out of the reach of children.
- Dispose of this device according to local regulations. Keep in mind it uses an internal li-ion battery. It should not be disposed of in normal household waste.
- The device has a built-in, non-removable battery. Do not attempt to remove the battery or the device may be damaged.
- Do not place this device too close to competitive products or they may become jealous.
- When mounted to a camera do not pick up the unit by the transmitter or you may damage the shoe assembly on the transmitter, camera, or both. Only pick it up by holding the camera.
- Be sure to use the protective cap on the hot foot when the transmitter is not connected to a camera to protect the connections from accidental damage.

Foreword

Thank you for purchasing the ProMaster SM1S.

The ProMaster SM1S is a 2.4GHz wireless transmitter with a built-in, high-capacity lii rechargeable battery. It is compatible with Sony cameras using an M.I.S. (Multi-Interface) Shoe) speedlight / flash connection. The SM1S can control compatible ProMaster 2.4GHz slave speedl ights (like the 200ST-R) with 3 groups, ratio control and many advanced features. The remote distance can reach up to 325'/100 meters.

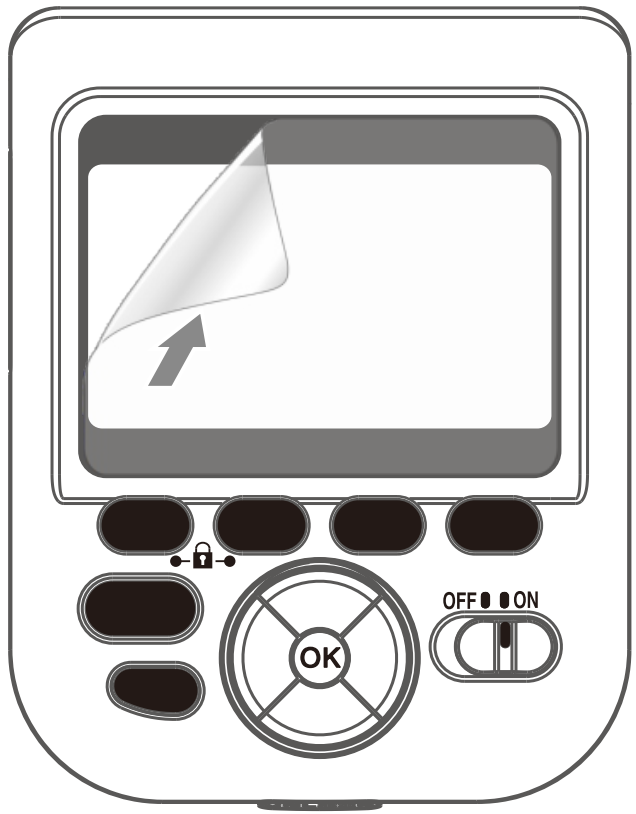
Please read this instruction manual while also referring to your camera's instruction manual for the best results. Your camera must be set correctly in order to work with this transmitter and, in some cases, to access advanced functions.

Here are some of the SM1S's features:

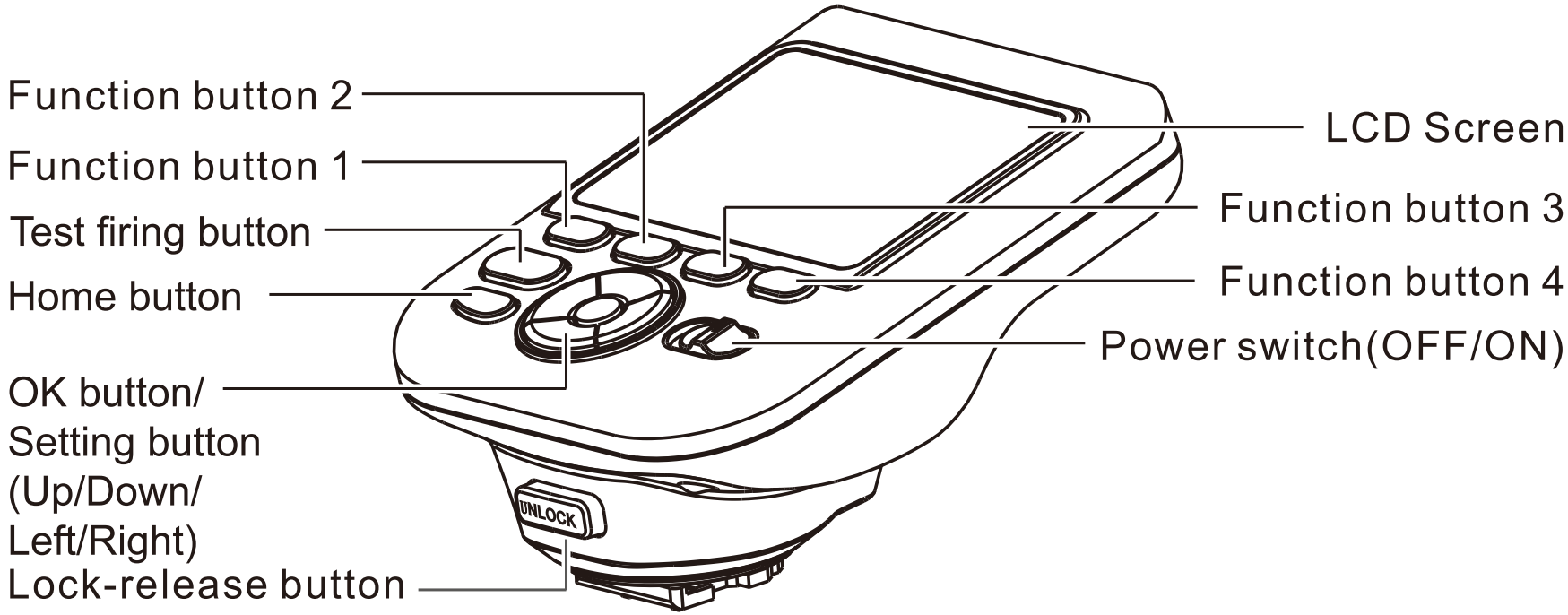
- 2.4GHz wireless control is reliable over a long range.
- Large LCD screen with backlight
- Built-in high-capacity li-ion battery
- Manual mode
- High-speed sync.
- Exposure compensation
- Auto/Manual AF-assist beam
- 16 channels (15 + auto)
- USB Firmware update support
- Ratio control
- Supports slow sync. mode
- Customizable utility menu

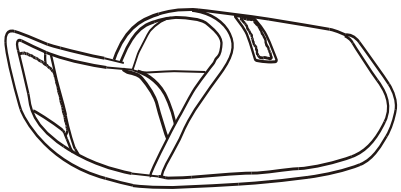
Protection Film

SM1S has a protection film over the LCD screen.
It can protect the LCD screen from scratches and damage. You may remove the protection film or leave it in place if you wish.

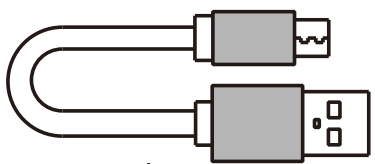


Parts Identification

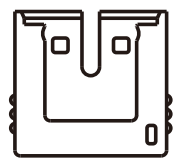




Soft case

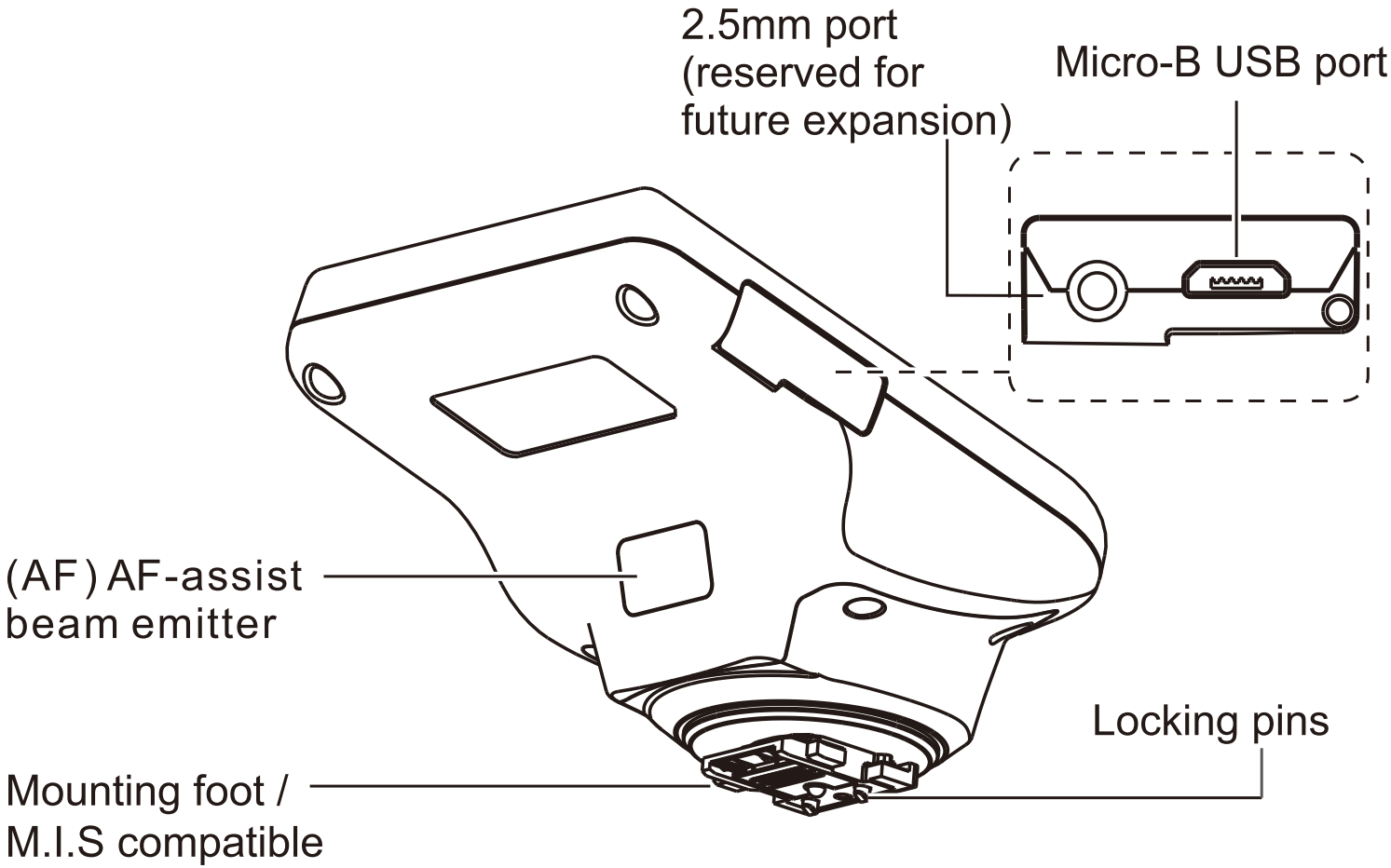


Micro-B USB cable
(Charge/Firmware update)

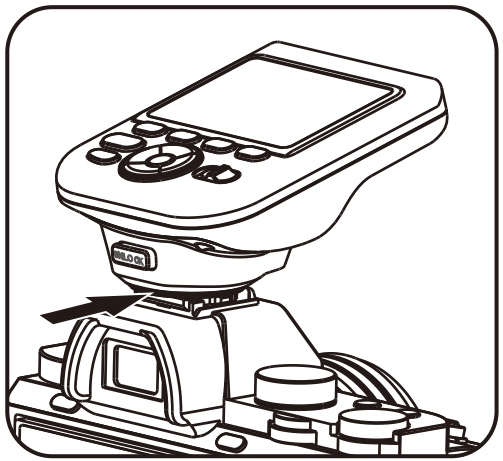


Hot foot protective cap

Parts Identification (continued)

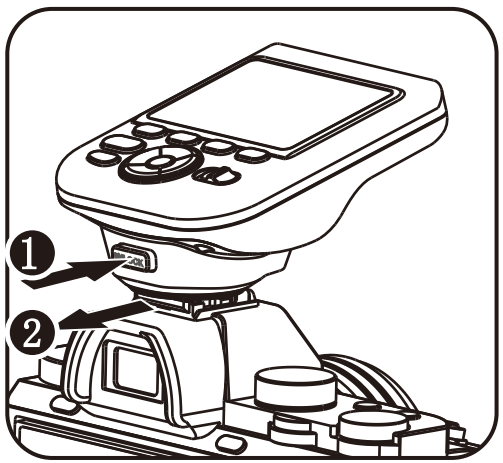


Attaching and Detaching



Attaching

1. Turn off the camera and transmitter’s power.
2. Remove the hot foot protective cap.
3. Slide the transmitter into the camera’s hot-shoe all the way (you may hear a "click" as the locking pins engage).

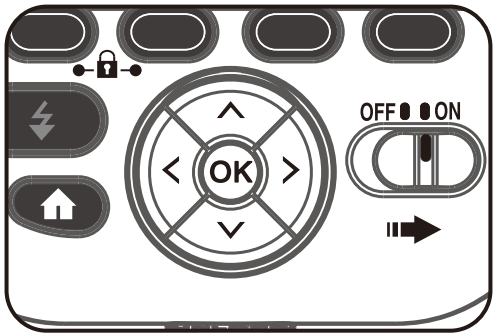


Detaching

1. Turn off the camera and transmitter’s power.
2. Press the lock-release button and hold it in.
3. Detach the transmitter by sliding it out of the camera’s shoe, and then release the button.

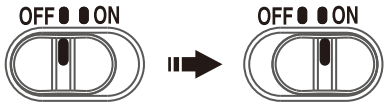
- Always replace the hot foot protective cap when the transmitter is not mounted to a camera. Sony's M.I.S. system is very fragile and the contacts on the hot foot can easily become damaged if not properly protected.
- Be sure to use the lock-release button when removing the transmitter. Do not force it.

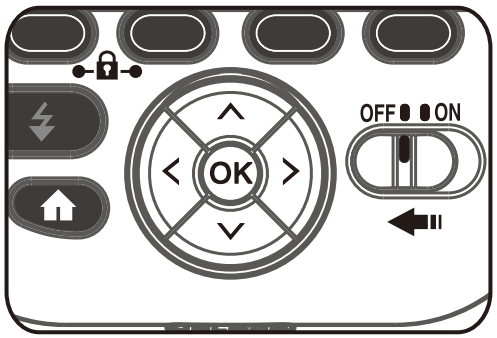
Turning On/Off the Power and Key Lock



Turn on the power

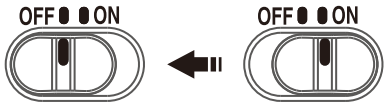
- Turn on the camera power first, and then slide the transmitter power switch to the [ON] position.

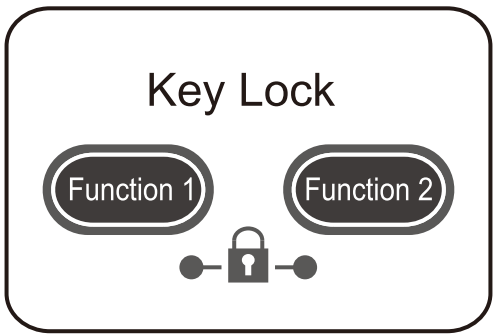




Turn off the power

- Slide the power switch to the [OFF] position.

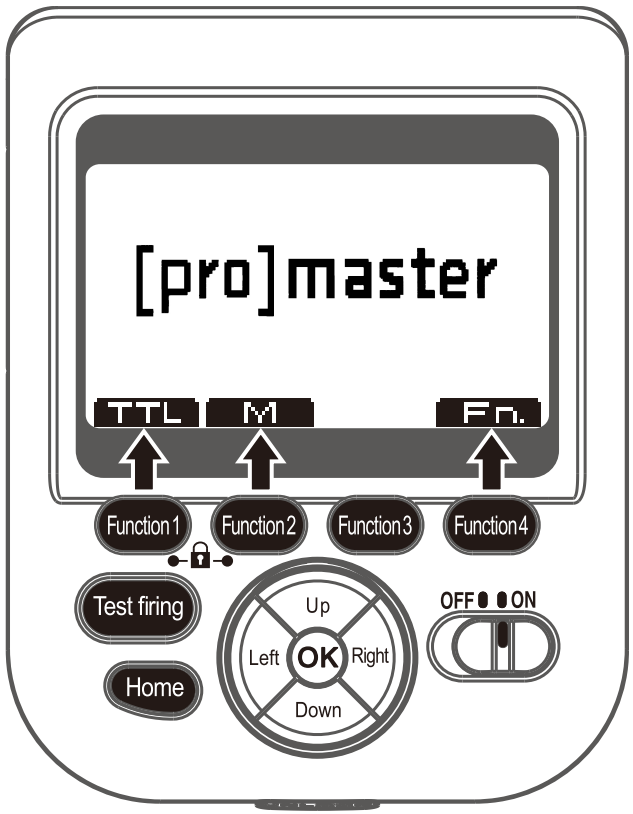




Using th SM1S's Key Lock function allows you to prevent accidental changes to settings. It locks all buttons from functioning except the test firing button. Press function buttons 1 and 2 simultaneously for 2 seconds. The key lock icon [LOCKED] will appear on the LCD and the buttons are locked. To cancel key lock, press function buttons 1 and 2 again, simultaneously for 2 seconds.

★ The test button is not limited by the lock function.

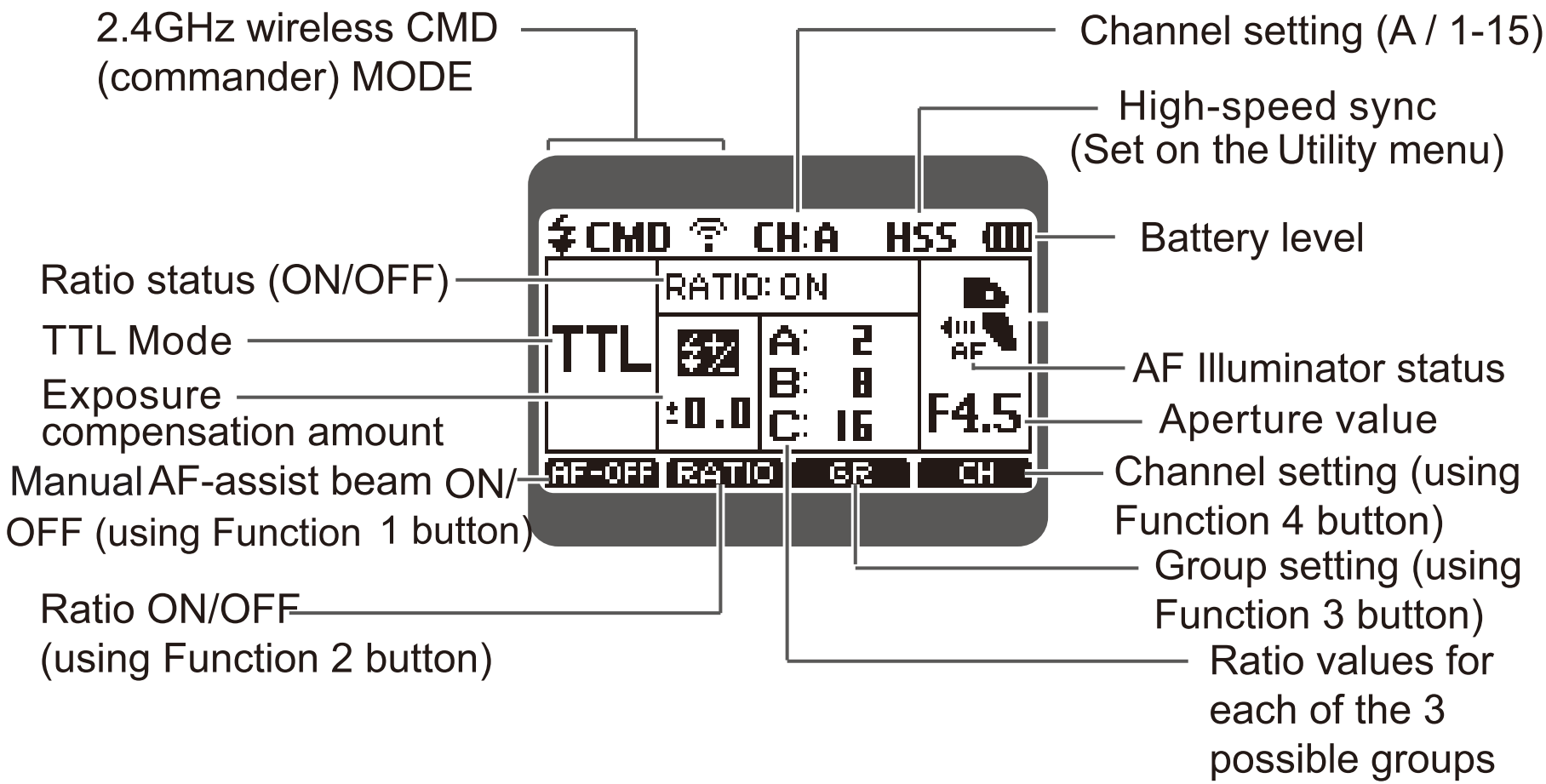
Home Screen



- In any mode (unless key lock is engaged), pressing the home button allows you to quickly access other modes. It is a very fast method of changing between TTL master mode, Manual master mode, and the Utility Menu.

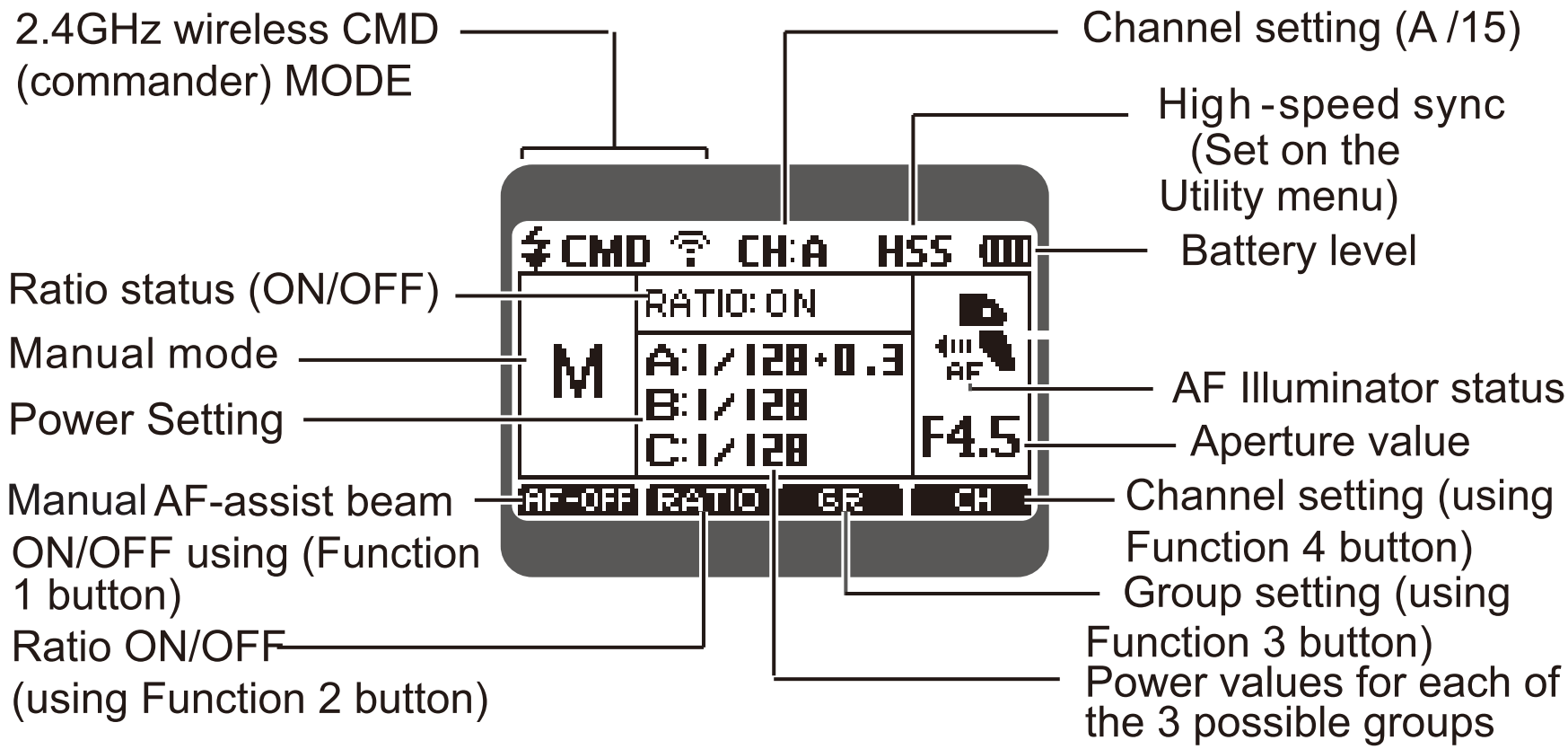
TTL Screen Icons

TTL mode display interface



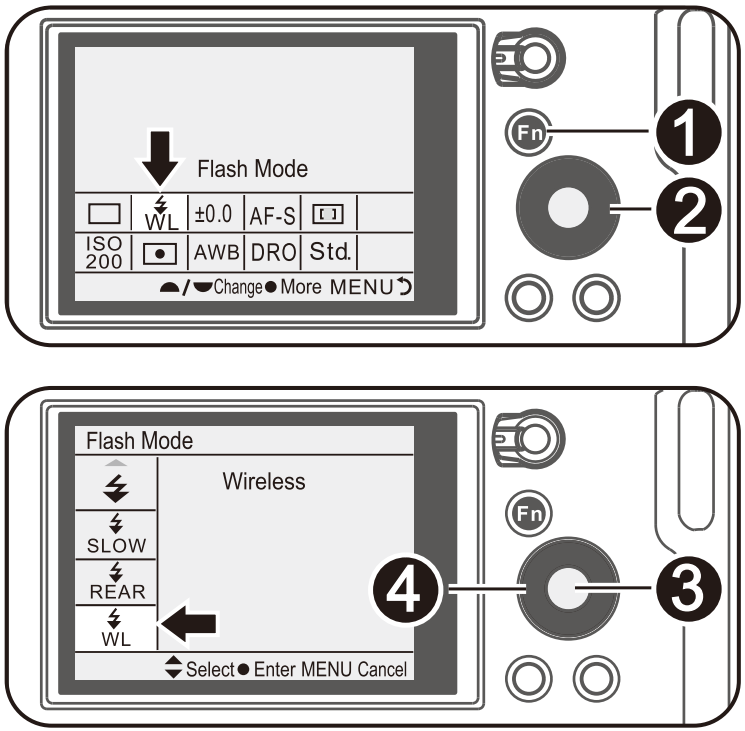
Manual Screen Icons

Manual mode display interface



Enabling WL Mode (Wireless control) In-Camera

Before using the transmitter it is important to set the camera's flash mode to "Wireless Flash On" [WL ON] mode. Otherwise the transmitter cannot be used, and the LCD of the SM1S will display the [ ] Flash Off icon.



Setting WL Mode in some Sony cameras

Presss the Fn. button for quick menu access

↓

Navigate to the Flash Mode settings, and enter the next options screen

↓

Set the Flash Mode to [WL] or [WL ON]

↓

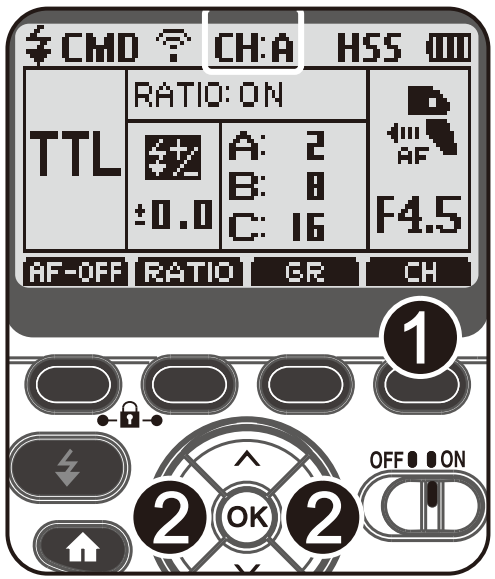
Confirm the setting

- This setting interface on some Sony cameras may differ or not allow access to wireless from the quick access menu. In that event, attempt to reach the Wireless Flash sub-menu from the main Flash menu. Refer to your camera's instruction manual for more details.
- The setting interface will be different from camera to camera and also may vary by firmware version.

Transmitter Settings / TTL

Entering Wireless TTL flash mode

→ Press the Home button followed by Function button 1 to enter wireless TTL mode. Notice the TTL icon on the left-side of the LCD screen to confirm you are in the proper mode.

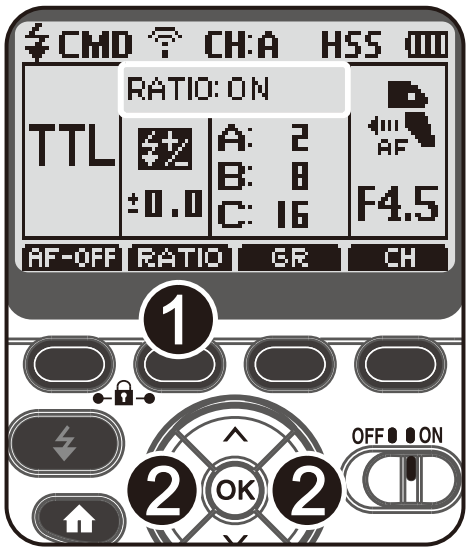


Channel Selection

Press the Function 4 button to choose [CH] and enter channel selection. Using the Left/Right buttons choose your channel. Press either the Function 4 button again or the OK button to confirm your selection.

- The transmitter and slave units must use same channel to fire the flash. You may choose to set-up numerous slaves on different channels and then change the transmitter's channel if you wish to control different slaves at different times.
- Switching channels can also be used to avoid interference in an environment with a lot of wireless traffic.
- It is generally advisable to start all devices in channel [a] unless you experience interference or wish to control many slaves at different times using multiple channels.

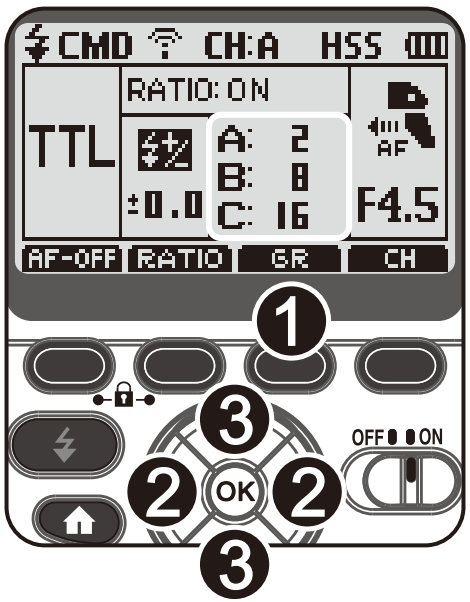
Transmitter Settings / TTL (continued)



Turning Ratio Control On/Off

Ratio OFF means slaves set to any of the 3 groups will all fire at the same light output amount. Ratio ON allows you to adjust the power of each group as a ratio so as to achieve different light output from each slave.

Press the Function 2 button to choose [RATIO]. Now use the Left/Right buttons to turn it ON or OFF. Press the Function 2 button again or the OK button to confirm your selection.



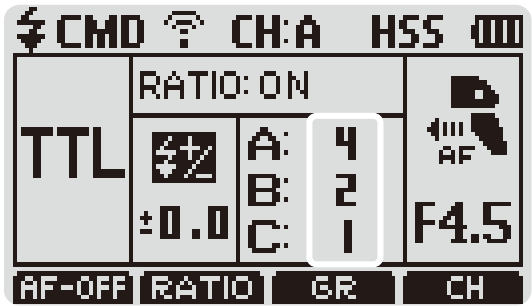
Groups Ratio Setting

With [RATIO] set to ON you can adjust each group.

Press the Function 3 button to choose [GR] or "groups". Use the UP/Down buttons to highlight a particular group (A,B, or C). Now use the Left/Right buttons to change that group's light output power setting to a fraction of the full amount as will be determined by your camera's TTL metering system

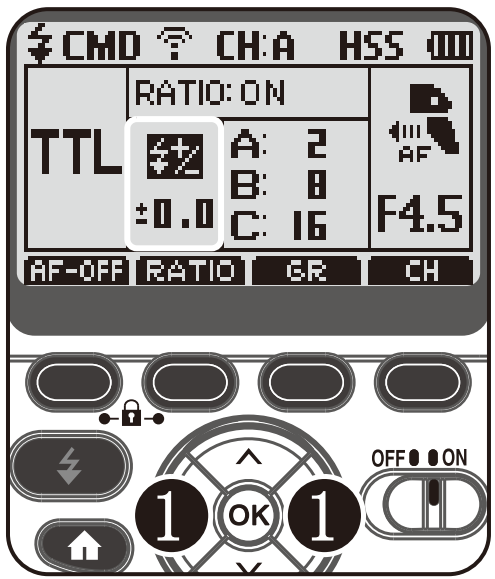
- 3 groups are available (A,B, and C).
- The Ratio value settings range is : -- / 1 / 2 / 4 / 8 / 16
  (-- Means 'Flash off for that group. Keep in mind these are fractions of the total number. They all add up to the full power of light determined by the camera's TTL system).

Transmitter Settings / TTL (continued)



Groups Ratio Setting (continued)

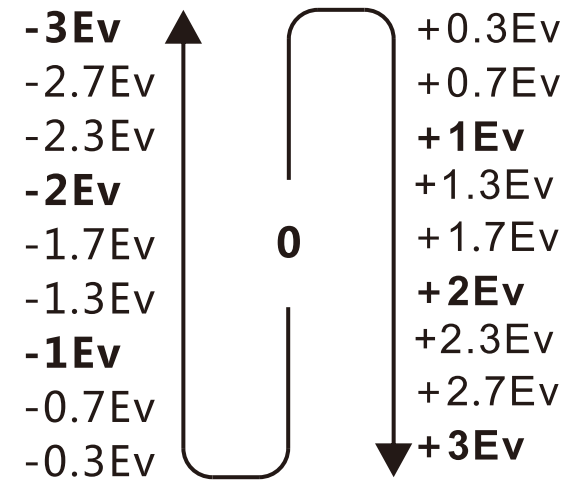
Shown in the figure to the left, the Ratio value is [4:2:1] respectively. This means the flash power of the groups is 4/7, 2/7, 1/7. When added together they equal 7/7, which is the whole.



Seting Exposure Compensation

(0.3 EV steps) are used for exposure compensation

Exposure compensation is quickly and easily adjusted on the TTL screen by simply pressing the Left/Right buttons and watching the value change.



EV compensation scale shown for your reference

- You may choose to set flash exposure compensation via your camera's menu rather than directly through the SM1S's controls. In this case your camera's screen will show the compensation amount but the screen on the transmitter will not reflect it.
- Set the value to ‘0’ to cancel any exposure compensation and achieve a "normal" exposure.

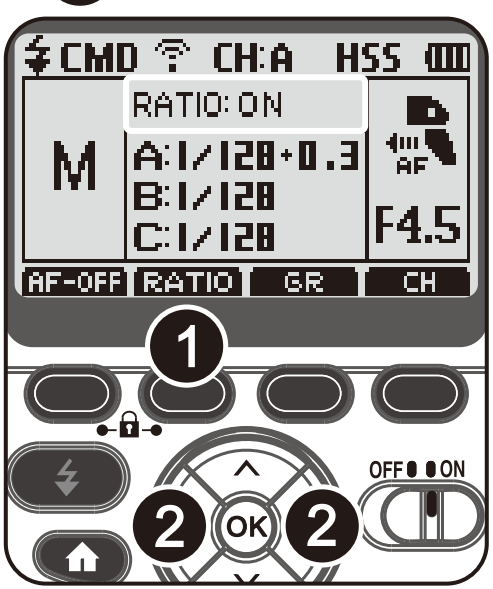
Transmitter Settings / M Manual

Entering Wireless M / Manual mode

Press the Home button followed by Function button 2 to enter wireless M mode. Notice the M icon on the left-side of the LCD screen to confirm you are in the proper mode.

Channel Selection

This is accomplished the same way in both TTL and M modes Please refer to Page 19 for more details)



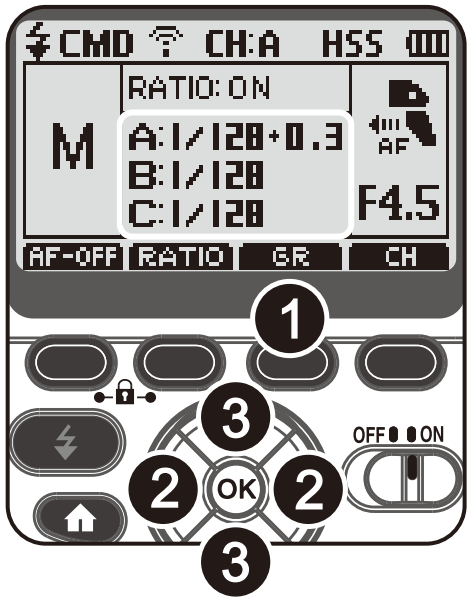
Choosing Ratio On vs. ALL

In M mode the ratio settings work differently from TTL mode. Here you can choose to set all 3 groups to the same light output amount using [RATIO: ALL] or you can independently set each group to its own light output amount using the [RATIO: ON] setting.

Start by pressing the Function 2 button to select [RATIO]. Now press the Right/Left buttons to switch between RATIO: ALL and RATIO: ON. Press the Function 2 button again or the OK button to confirm your selection.

- **RATIO: ON**
  Set the output power of each slave group independently
- **RATIO: ALL**
  Set the output power of all slave units the same

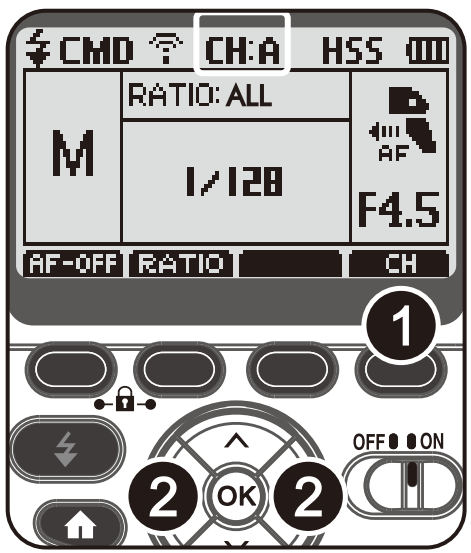
Transmitter Settings M / Manual (continued)



Using Ratio ON in wireless M mode

With Ratio set to [RATIO: ON] you can manually set the light output power for each of the 3 groups (A, B, and C).
Press the Function 3 button to choose [GR]. Use the Up/Down buttons, or continue pressing the Function 3 button, to toggle among the 3 groups. With a group highlighted, use the Left/Right buttons to adjust the power of that group between 1/128th and 1/1 in 1/3 EV increments.
Press the OK button when finished to confirm your selections.

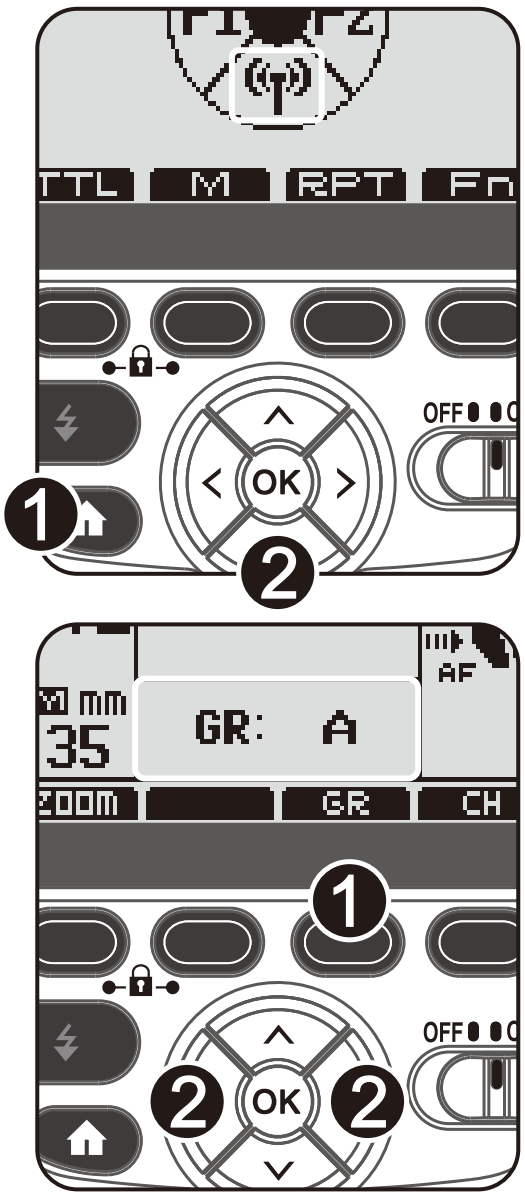
- The manual flash value settings range is 22 levels.
  (-- Means 'Flash off for that group).



Setting the Light Output Power for Ratio: ALL

With a setting of [RATIO: ALL] in wireless M mode you can quickly and easily adjust the light output power of all slave speedlights in all groups.
Please refer to the prior section titled "Choosing Ration On vs. All" if don't know how to set [RATIO: ALL].
Press the Left/Right buttons to change the light output power for all groups. The Usable range is 1/128 - 1/1 in 1/3 EV steps.

Slave Unit Settings



To get the most out of your SM1S it is important to know how to set your slave speedlights. This section will refer to a ProMaster 200ST-R Sony speedlight for this purpose.

Setting 2.4GHz Slave Mode

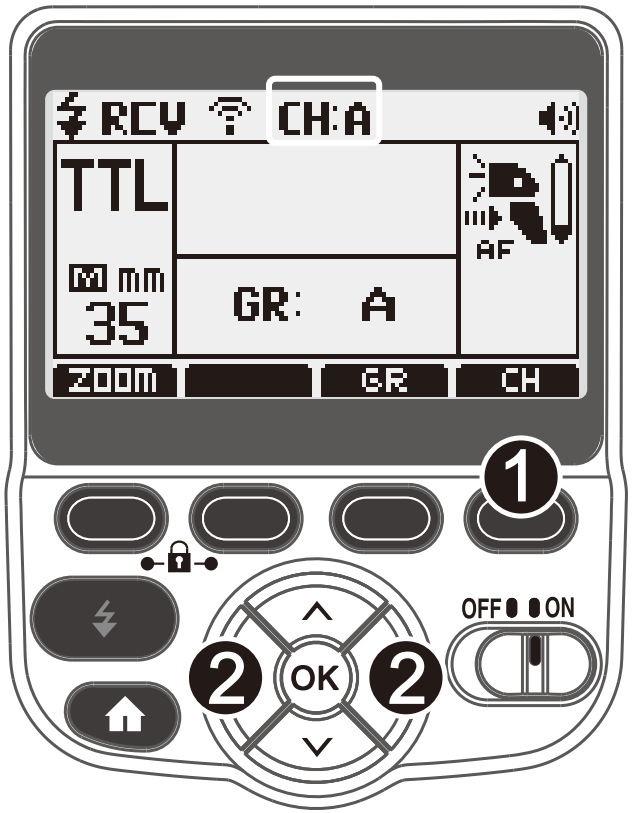
→ Press the Home button followed by the Down button to enter 2.4GHz slave mode

Setting the Slave's Group

Press the Function 3 button for [GR]. Use the Left/ Right buttons to choose one of the 3 possible groups (A,B, or C). Now either press Function 3 again or the OK button to confirm your selection.

Note: A slave can only be set to one group at a time.

Slave Unit Settings (continued)



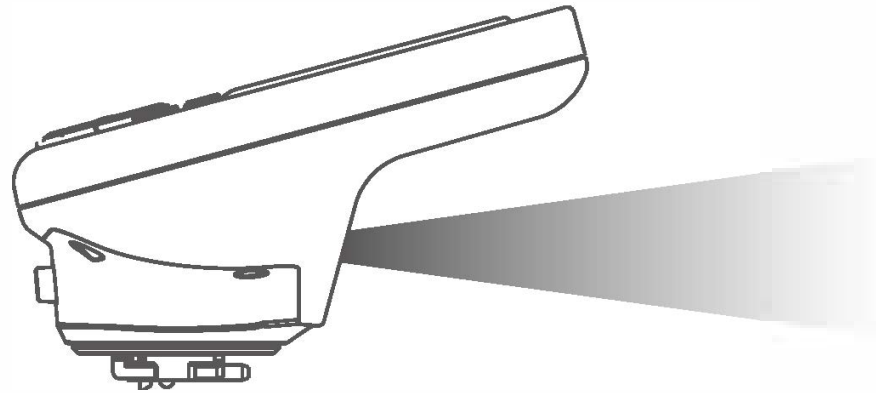
Setting the Slave's Channel

Press the Function 4 button for [CH]. Use the Left/Right buttons to select your channel. Now press the Function 4 button again or the OK button to confirm the selection.

- If another photographer uses the same type and same channel of transmitter nearby, your speedlight may accidentally fire in-sync. with that photographer's transmitter. Please change to a different channel number.

Automatic AF Illuminator Setting

The SM1S transmitter can support your camera's auto focusing with an automatic AF (Auto Focus) assist beam in low-light conditions. It emits a red-colored beam towards your subject. This is considered "automatic" because it illuminates when the camera actuates it (typically when the shutter button is pressed half-way down).



Setting the Automatic AF Illuminator In-Camera

Locate the camera's menu setting for "AF Illuminator". Set it to Auto to use the beam or OFF so as not to use it.

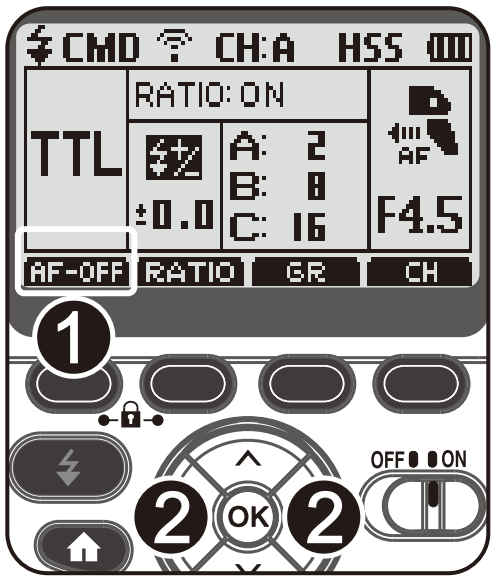
> Some modern Sony cameras will not permit the AF beam to activate on a speedlight or transmitter (including their own brand) even when the AF Illuminator feature is turned on. Rather, they may only use a beam that is built into the camera. So, this automatic feature is highly dependent on your camera's abilities. If your camera will not allow the transmitter beam to illuminate automatically you can instead set the beam manually, on the transmitter, as explained in the upcoming section of this manual.

Setting the Automatic AF Illuminator on the SM1S

Begin by pressing the Home button, followed by the Function 4 button to enter the Utility Menu. Use the Up/Down buttons to highlight the AF Illumintor setting which if Fn2. Press the Right button or the OK button to enter the settings, use the UP/Down buttons to choose ON or OFF and then press the OK button to confirm the setting. Use the Home button to return there and move on to your next important task. Note, when Fn2 in the Utility Menu is turned ON, The AF Illuminator Status icon appears on both the TTL screen and the M Screen.

Manual AF Illuminator Setting

The SM1S gives you the ability to activate its on-board AF Illuminator manually rather than relying on the camera to activate it. This can be helpful in some situations where focusing in low light is difficult and the camera is not natively compatible with the AF Illuminator. For this manual setting to work, the AF Illuminator feature MUST be switched to ON in Fn2 on the Utility Menu first.



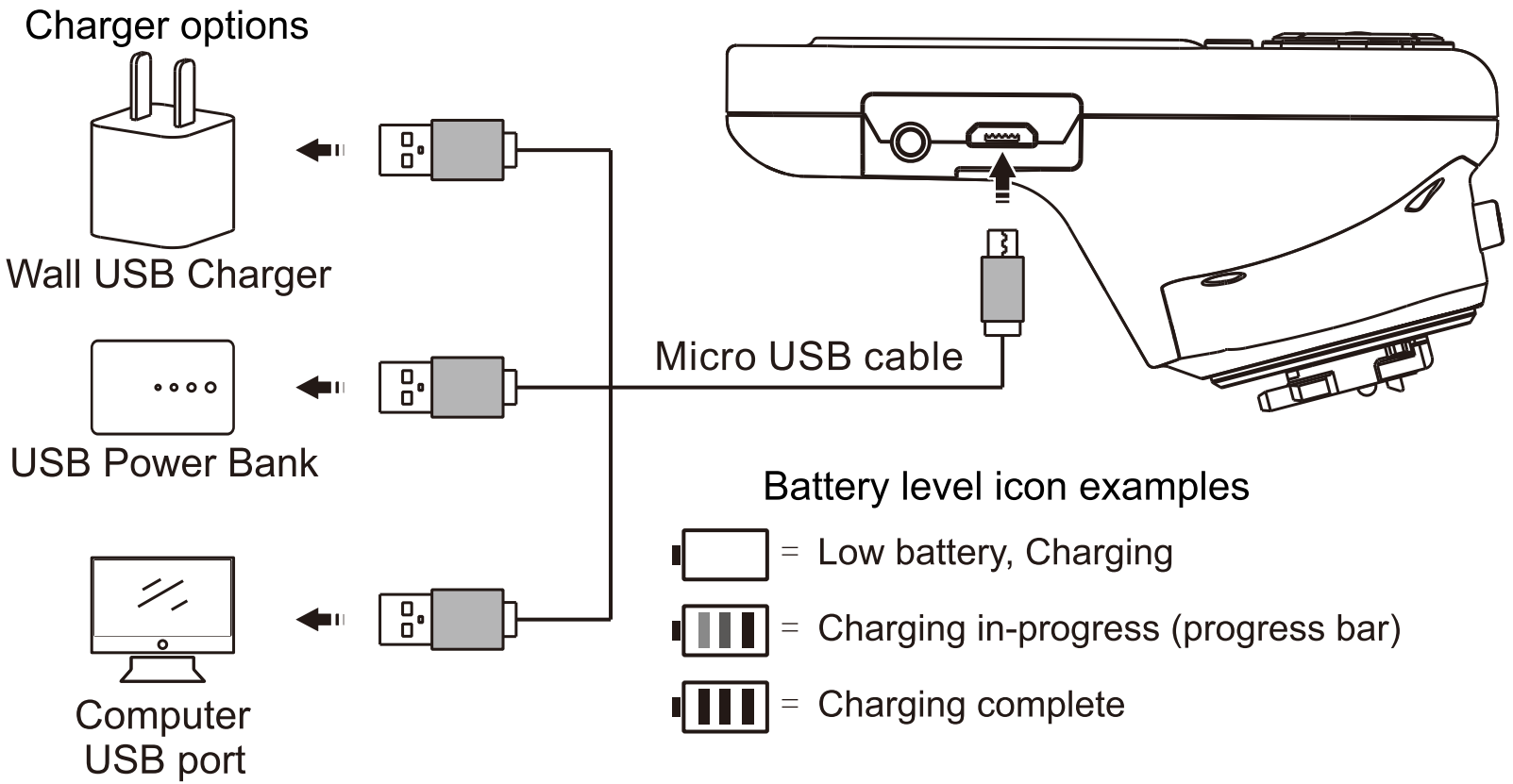
Manually Turning On/Off the AF Illuminator

First make sure Fn2 in the Utility Menu is turned ON.
From either the TTL screen or the M screen you will notice [AF-OFF] appears above the Function 1 button. Simply press the Function 1 button and notice the screen will change to [AF-ON] while a red pattern of light begins to flash upon your subject. This beam pattern is emitted from the front of the transmitter. It flashes to help from accidentally capturing the pattern in your images. You will need to test this and take a series of shots to be sure the pattern does not appear in the photograph.
If your camera and your subject are not moving, you may turn on the beam to capture focus, then hold focus using your camera's focus lock, and finally switch off the beam before clicking the shutter.

- When the transmitter custom menu (Fn:2) is switched [OFF], the manual AF-assist will not appear as an option.

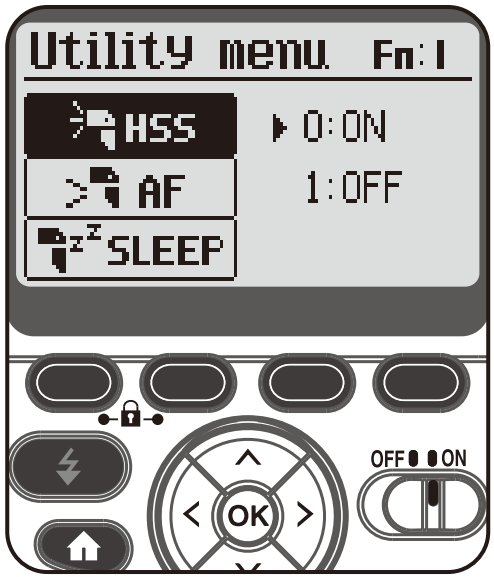
Charging the SM1S

Be sure to charge your SM1S when the LCD displays low-power in the battery level icon.



- Be sure to use the included micro-b USB cable or a compatible cable with proper safety certifications for charging.
- The transmitter can be used while charging so you won't loose a moment photographing.
- Be very careful about charging in high-heat environments, such as a closed car interior on a hot summer day. The battery could overheat, catch fire, permanently fail, or have its usable life cut short.

Setting Custom Functions



NO.	Functional specification	
Fn:1	HSS	High-speed sync
	0:ON	On
	1:OFF	Off

NO.	Functional specification	
Fn:2	AF	AF-assist beam
	0:ON	On
	1:OFF	Off

NO.	Functional specification	
Fn:3	SLEEP	Standby (90 Sec.)
	0:ON	On
	1:OFF	Off

NO.	Functional specification	
Fn:4	BKLIGHT	LCD Backlight
	0:OFF	Off
	1:12S	Turn off after 12 Sec.
	2:ON	On

NO.	Functional specification	
Fn:5	RESET	Reset
	0:NO	Cancel
	1:YES	Reset the settings

NO.	Functional specification	
Fn:6	VERSION	Firmware version
	VER x.x	Firmware version Number

Custom Funtion Setting Proceedure

Add a number 4 so [Fn.] changes to [Fn4.]

From the Home Screen press Function 4 [Fn.] to enter the Utility Menu. Use the Up/Down buttons to scroll through the options. When you want to change a setting either press the Right button or the OK button to enter it. Now use the Up/Down buttons to change the setting for the particular function and then press the OK button to confirm the setting. Use the Home Button to exit the Utility Menu.

Specifications

System Type:	Digital FSK 2.4GHz wireless
Channels:	Channels (A, 1~15)
Range:	Approximately 325' / 100 meters
Battery:	Built-in Li-Ion battery 3.7V /1000mAh 3.7 Wh
Charging Voltage:	DC 5V / 0.5 A
Charging Time:	Approximately 2 hours
Use Time:	At least 20 Hours, starting with a full battery
Standby Time:	At least 27 Days, starting with a full battery
Flash Modes:	TTL(Auto) Firing mode (-3 EV to +3 EV in 1/3 EV stops) M(Manual) Firing mode (22 Levels of control 1/1~1/128)
Groups:	3 Groups- A/B/C (up to 15 slaves per group)
High-speed Sync. :	1/8,000 Second
Charging Interface:	Micro-b USB port
Display Type:	2.2" LCD Dot Matrix Screen with backlight
Button Backlight:	White light
Firmware Upgradable:	Yes. Via micro-b port (with Windows OS)
Operating Temp:	32F~104F / 0℃~40℃
Dimensions:	3 5/16" x 2 9/16" x 1 11/16"/ 84.1×65.1×42.9mm
Weight:	3 5/8 oz / 102g

One Year
Unconditional Warranty

If for any reason, this ProMaster product fails within ONE YEAR of the date of purchase, return this product to your ProMaster dealer and it will be exchanged for you at no charge. ProMaster products are guaranteed for ONE FULL YEAR against defects in workmanship and materials. If at any time after one year, your ProMaster product fails under normal use, we invite you to return it to ProMaster for evaluation.

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