SuperFastPRO

Contents

Name of Parts

Body:

- Slave Cell
- Umbrellas Input
- Select Dial/ SET Button
- Wireless Control Port
- Power Switch
- Sync Cord Jack
- Fuse
- Power Socket

- ((•)) /C.Fn Custom Function Button
- LCD Panel
- GR/CH Group/ Channel Button
- Modeling Lamp Indicator
- MODE Mode Button
- Test Indicator Lamp
- S1/S2 Slave Model Button
- Test Button
- Sound Control Button
- Modeling Lamp Button

Name of Parts

LCD Panel:

HSS

Stroboscopic Mode

Channel

S1/S2

Delay Flash

Beep

Radio (2.4G) Transmission

Over-Temperature Protection Icon

Group

Mask

High-Speed Flash Mode

Flash Output

Light Brightness of Modeling Lamp

Flash Duration

Accessories

1. Sync Cord   2. Power Cord   3. Standard Reflector   4. Lamp Cover   5. Glass Protection Cover
6. Modeling Lamp

1   2   3   4   5   6

Operations

Flash Preparation
1. Take down the lamp cover. Install the modeling lamp and put on the glass protection cover and the standard reflector. (To uninstall the standard reflector, press the orange release button on the flash head and turn the standard reflector counter-clockwise to take it out, as illustrated in the picture.)

2. Attach the flash unit on an appropriate light stand. Adjust the mounting bracket for a good angle and make sure it's tightened and fixed. Use the direction adjusting handle to adjust the flash on a desired direction. Umbrella input is for different photo umbrellas to put in.

M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/128th power in 0.1 stop increments. To obtain a correct flash exposure, use a hand-held flash meter to determine the required flash output.

1 Press <**MODE**> button so that <**M**> is displayed.

2 Turn the Select Dial to choose a desired flash output amount.

Display Flash Duration
Flash duration refers to the length of time that from flash's firing to reach the half peak at maximum. The half peak at maximum is usually expressed as t=0.5. In order to provide the photographer with more concrete data, this product adopts t=0.1. The difference between t=0.5 and t=0.1 is shown in the following picture.

A

50%

10%

t

t=0.5

t=0.1
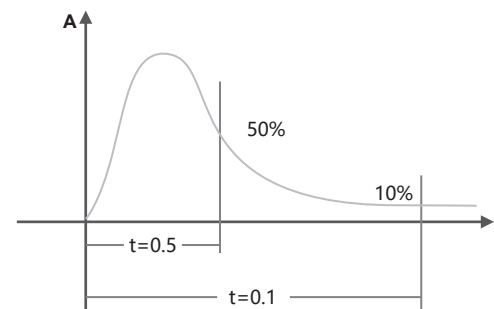
> ● **Flash duration will only be displayed in the M mode.**

Stable Color Temperature Mode and High-Speed Flash (speed) Mode

Stable Color Temperature Mode or High-Speed Flash (speed) Mode can be chosen in the C.Fn-F1 setting. These two modes are effective in M/Multi mode and ineffective in high-speed sync mode.

Stable Color Temperature Mode: color temperature ranges within ±200K, which is a good choice for the photographers who pursues stable color temperature.

High-Speed Flash (speed) Mode: the max flash duration is up to t0.1=1/28984, which is perfect for capturing the fast-changing actions. As the color temperature is a little higher in this mode, please set the camera's white balance parameter to the proportional color temperature amount (see the chart below) or AWB (Auto White Balance).

SuperFast Pro Prototype Test		
Test Environment	Darkroom	
Color Temperature Test	Equipment	SEKONIC C-700
	Testing Method	Trigger beyond 2 meters and average the amount of 3 tests.
Flash Duration (t0.1)	IGBT control the time of turning on the ash	

| Stable Color Temperature Mode			High-Speed Flash (speed) Mode		
Parameter Level	Color Temperature CCT(K)	Flash Duration t0.1(S)	Parameter Level	Color Temperature CCT(K)	Flash Duration t0.1(S)
1/128	5744	1/ 4983	1/128	8823	1/ 35086
1/128+0.3	5759	1/ 4694	1/128+0.3	8877	1/ 33332
1/128+0.7	5747	1/ 4444	1/128+0.7	8930	1/ 30302
1/64	5761	1/ 4444	1/64	8919	1/ 27776
1/64+0.3	5775	1/ 4444	1/64+0.3	8926	1/ 25640
1/64+0.7	5780	1/ 4444	1/64+0.7	8836	1/ 22222
1/32	5753	1/ 4444	1/32	8432	1/ 20202
1/32+0.3	5771	1/ 4444	1/32+0.3	8183	1/ 18518
1/32+0.7	5754	1/ 4444	1/32+0.7	7784	1/ 16666
1/16	5764	1/ 4444	1/16	7368	1/ 15150
1/16+0.3	5752	1/ 4444	1/16+0.3	6983	1/ 13332
1/16+0.7	5755	1/ 4444	1/16+0.7	6763	1/ 11494
1/8	5777	1/ 4444	1/8	6533	1/ 10100
1/8+0.3	5734	1/ 3920	1/8+0.3	6377	1/ 8546
1/8+0.7	5665	1/ 3030	1/8+0.7	6192	1/ 6872
1/4	5604	1/ 2468	1/4	6061	1/ 5648
1/4+0.3	5621	1/ 2468	1/4+0.3	5957	1/ 4566
1/4+0.7	5626	1/ 2222	1/4+0.7	5840	1/ 3508
1/2	5654	1/ 2082	1/2	5962	1/ 2656
1/2+0.3	5672	1/ 1514	1/2+0.3	5807	1/ 2014
1/2+0.7	5695	1/ 1148	1/2+0.7	5711	1/ 1148
1/1	5595	1/ 416	1/1	5579	1/ 416

⚡H High-Speed Sync

In this mode, you can set the flash output from 1/1 full power to 1/16th power in 0.3 stop increments.

High Speed Sync enables the flash to synchronize with all camera shutter speeds. This is convenient when you want to use aperture priority for fill-flash portraits.
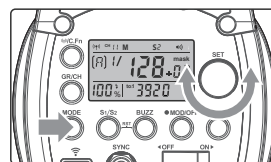
1 Press the **<MODE>** Button so that < ⚡H > is displayed.
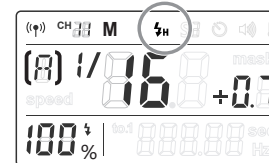
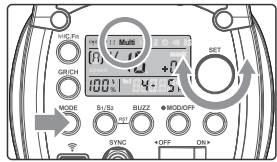**2** Turn the Select Dial to set the flash output power.

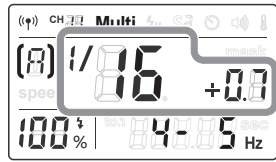**3** We recommend using the WaveSync 2.4 TTL Trigger

> ● With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
> ● Multi flash mode cannot be set in high-speed sync mode.
> ● With high-speed sync, the color temperature is lower (decrease around 700K) because of tube's characteristics. Please set the camera to AWB (Auto White Balance).
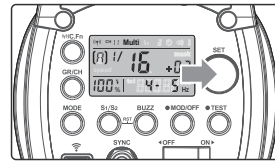
Multi: Stroboscopic Flash

In this mode, you can set the flash output from 1/128th power to 1/8th power in 0.3 stop increments. With stroboscopic flash, a rapid series of flashes is fired. It can be used to capture a multiple images of a moving subject in a single photograph. You can set the firing frequency (number of flashes per sec. expressed as Hz), the number of flashes, and the flash output.

1 Press <**MODE**> button so that <**Multi**> is displayed.

2 Turn the Select Dial to choose a desired flash output.

3 Set the flash frequency and flash times.
- Press <**SET**> Button to select the flash times. Turn the Select Dial to set the number.
- Press <**SET**> Button to select the flash frequency. Turn the Select Dial to set the number.

Calculating the Shutter Speed

During stroboscopic flash, the shutter remains open until the firing stops. Use the formula below to calculate the shutter speed and set it with the camera.

Number of Flashes / Flash Frequency = Shutter Speed

For example, if the number of flashes is 10 and the firing frequency is 5 Hz, the shutter speed should be at least 2 seconds.

> ● Stroboscopic flash is most effective with a highly reflective subject against a dark background.
> ● Using a tripod and a remote control is recommended.
> ● A flash output of 1/1 and 1/2 cannot be set for stroboscopic flash.
> ● If the number of flashes is displayed as "--", the firing will continue until the shutter closes or the battery is exhausted. The number of flashes will be limited as shown by the following table.

Maximum Stroboscopic Flashes:

| Flash Output \ Hz	1	2	3	4	5	6-7	8-9	10	11	12-14	15-19	20-30
1/8	7	6	5	4	4	3	3	2	2	2	2	2
1/16(+0.3.+0.7)	14	14	12	10	8	6	5	4	4	4	4	4
1/32(+0.3.+0.7)	30	30	30	20	20	20	10	8	8	8	8	8
1/64(+0.3.+0.7)	60	60	60	50	50	40	30	20	20	20	18	16
1/128(+0.3.+0.7)	99	99	90	80	80	70	60	50	40	40	35	30

Wireless Flash Shooting: Radio (2.4G) Transmission

We adopted a built-in 2.4G wireless X system, which is fully compatible with the Godox 2.4 GHz RF Radio System

Wireless Settings

Press <((•))/**C.Fn**> Wireless Button so that < ((•)) > is displayed, entering the 2.4G wireless status now.
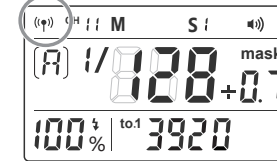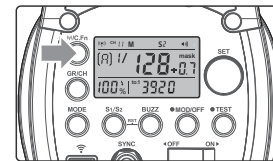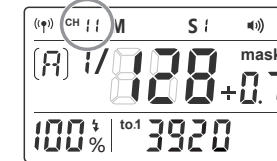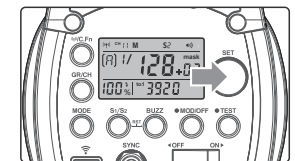
Setting the Communication Channel

If there are other wireless flash systems nearby, you can change the channel IDs to prevent signal interference. The channel IDs of the master unit and the slave unit(s) must be set to the same.

1 Long press the <**GR/CH**> Button for 2 seconds until the channel IDs is blinking.
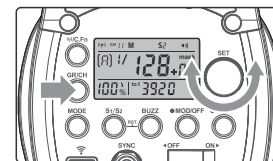
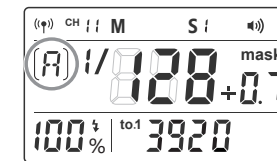**2** Turn the Select Dial to choose the channel from 1 to 32.

3 Press the <**SET**> Button to confirm.
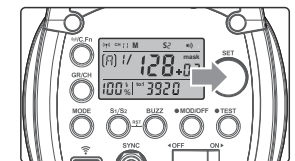
Setting the Communication Group

1 Short press the <**GR/CH**> Button for 2 seconds until the group IDs is blinking.

**2** Turn the Select Dial to choose the group from 0 to F.

3 Press the <**SET**> Button to confirm.

Slave Trigger Model

Optical S1 Secondary Unit Setting

In M manual flash mode, press **<S1/S2>** button so that this flash can function as an Optical S1 secondary flash with Optical sensor. With this function, the flash will fire synchronously when the main flash fires, the same effect as that by the use of radio triggers. This helps create multiple lighting effects.
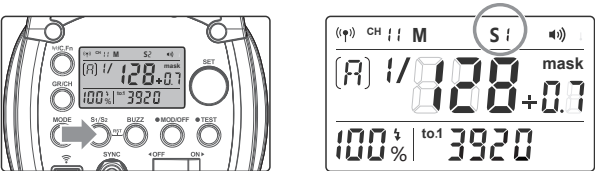
Optical S2 Secondary Unit Setting

Press < **S1/S2**> button so that this flash can also function as an Optical S2 secondary flash with Optical sensor in M manual flash mode. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single "preflash" from the main flash and will only fire in response to the second, actual flash from the main unit.
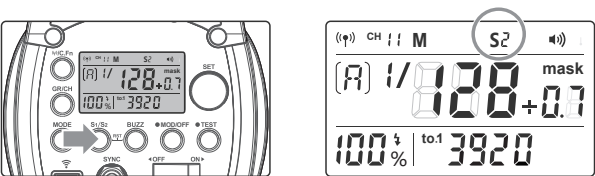
Modeling Lamp

The 150W modeling lamp which offers 5% to 100% light adjustment and 2 long lighting modes.
Modeling Lamp's ON/OFF and Settings:
   1. When the modeling lamp is OFF, short press the Modeling Lamp Button to turn it on;
    2. When the modeling lamp is ON, short press the Modeling Lamp Button to setting the light brightness. As the lighting amount is blinking, turn the Select Dial to choose.
● **Turn off the Modeling Lamp**
    Long press the Modeling Lamp Button for 2 seconds to turn it off.
● **Choose the Modeling Lamp's Modes**
    1. Long press the C.Fn Custom Button for 2 seconds until Fn menu is displayed.
    2. Press the SET Button to choose F4.
    3. Turn the Select Dial to choose the Modes:
    ON: the modeling lamp will keep this status when triggering;
    OFF: the modeling lamp will turn off when triggering;

Buzz Function

The Buzz Button is used to decide whether there is sound reminder for ready flash after recharging. When the buzz indicator is displayed on the LCD panel, it means the sound reminder is turned on; if not dislayed, the sound reminder is turned off.

1. A "**BI**" sound will be heard when it's fully charged.
2. A "**BI**" sound will be heard when the button and the select dial echo each other.
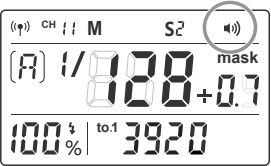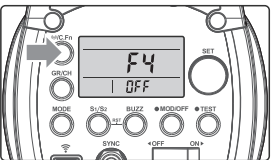
C.Fn Setting Custom Function

1 Long press the C.Fn Custom Button for 2 seconds until <**Fn**> menu is displayed.

2 Press the <**SET**> Button to choose Fn function signs.

3 Turn the Select Dial to change the settings. Short press the **C.Fn** Custom Button to exit.

| Custom Function Signs	Function	Setting No.	Settings & Description	Restrictions
F1	Choose high-speed flash	ON	High-Speed Flash (speed) Mode	M/Multi mode
		OFF	Stable Color Temperature	
F2	Delay flash	OFF, 0.01~30S	Trigger as second curtain	M/Multi mode
F3	Mask function	OFF	Mask function is off	M mode
		N1	Mask function is on: when setting 2 times' triggering as a period, the first triggering will fire a flash.	
		N2	Mask function is on: when setting 2 times' triggering as a period, the second triggering will fire a flash.	
F4	Modeling lamp mode	ON	The modeling lamp will not change its status when triggering.	No
		OFF	The modeling lamp will turn off when triggering.	

Other Applications

Wireless Control Function

The flash unit is built in with a Wireless Control Port so that you can wirelessly adjust the power level of the flash and the flash triggering.

To control the flash wirelessly, you need a remote control set (on-camera and on-flash). Insert its receive end into the Wireless Control Port on the flash and insert the transmit end into the camera hot shoe. Settings made on the hotshoe-mounted transmit and receive ends will be wirelessly communicated to the flash. Then you can press the camera shutter release button to trigger the flash. You can also hold the transmit end at hand to control your off-camera flash.

> ⓘ For full instructions on the use of WaveSync series see the manual.
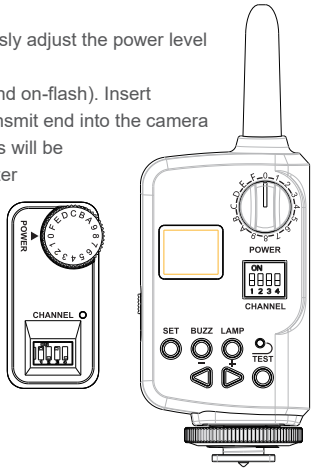
Sync Triggering

The Sync Cord Jack is a Φ3.5mm plug. Insert a trigger plug here and the flash will be fired synchronously with the camera shutter.

Memory Function

The device is equipped with memory function for the panel setting. It will help remember the panel setting 3 second after you set it. When starting up the flash next time, the panel setting will be the same as the status before powering it off.

Tube Replacement

Shut down the power and remove the power cord before replacing the flash tube and wear insulated gloves. Then, loosen the iron wire on the tube, keep a balanced hold on the two feet of the flash tube and pull out the old tube gently. Take down the feet casing from the old tube and put it on the new one. Hold two feet of the new tube, and target directly towards the two copper outlets, then push them slightly in. Twine the iron wire on the stainless steel sheet to fix the flash tube.

Technical Data

	SuperFast Pro (400Ws)
Flash Mode	M/Multi/Hss(high-speed sync)
Guide Number in 1/1 full power (m ISO 100, using standard reflector)	65
Flash Duration (t0.1) — High-Speed Flash (speed) Mode	1/416s － 1/35086s
Flash Duration (t0.1) — Stable Color Temperature Mode	1/416s － 1/4983s
Color Temperature — Stable Color Temperature Mode	5600±200K
Color Temperature — High-Speed Flash (speed) Mode	5400K~9000K
Color Temperature — High-Speed Sync Flash Mode	4600K~5000K
POWER	400WS
Recycle Time	Approx. 0.05-0.7s
Output Level — M	1/128~1/1
Output Level — Hss	1/16~1/1
Output Level — Multi	1/128~1/8
Multi Flash	Yes (max. flash time: 99; max. flash frequency: 30)
Sync Mode	High-speed sync (up to 1/8000s), first curtain sync, second curtain sync
Delay Flash	0.01~30s
MASK Function	✓
Fan	✓
Beeper	✓
Modeling lamp	150W
Slave Trigger Model	S1/S2
Display Flash Duration	✓
Display	LCD panel
• Radio (2.4G) Transmission	
Wireless Function	Slave unit, ON/OFF
Controllable Slave Units	16 groups: 0~9，A,B,C,D,E,F
Transmission Range (approx.)	50m
Channel	32: 1~32
Sync Triggering Mode	3.5mm sync line, PC sync socket，wireless control port
Dimension	Flash diameterΦ14CM, height of flash with handle 23CM, length of flash with lamp cover 41CM
Net Weight	Approx. 2.96KG

Maintenance

- Shut down the device immediately when it works abnormally and find out the reason.
- Avoid sudden impacts and the lamp should be dedusted usually.
- It's normal for lamp being warm when in use. Avoid continuous flashes when it is not necessary.
- Maintenance of all the flashes is up to our authorized maintenance department which can provide original accessories. Users can replace the flash tube and modeling lamp provided by the manufacturer.
- Three year warranty period will be cancelled when any unauthorized maintenance is found.
- If the product had failures or was water damage, it can be continuously used only after it is repaired by professionals.
- Disconnect the power when doing maintenance work or cleaning.