

## Foreword

### Thank you for purchasing this product.

This V350S camera flash applies to SONY series cameras and is compatible with TTL autoflash. With this TTL compatible flash, your shooting will become simpler. You can easily achieve a correct flash exposure even in complex light-changing environments. This camera flash features:

- GN36 (m ISO 100, @105mm).
- Pro 2000mAh Li-ion Battery — 0.1s~1.7s recycle — over 500 full power pops.
- Fully support Sony TTL camera flash. Workable as Master or Slave unit in a wireless flash group.
- With built-in 2.4GHz wireless remote system to support transmitting and receiving.
- Provided multiple functions, include manual flash, multi flash, HSS (up to 1/8000s), rear curtain sync, FEC, etc.
- Support with firmware upgrade.

## Warning

- ⚠ Always keep this product dry. Do not use in rain or in damp conditions.
- ⚠ Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- ⚠ Keep out of reach of children.
- ⚠ Stop using this product if it breaks open due to extrusion, falling or strong hit. Otherwise, electric shock may occur if you touch the electronic parts inside it.
- ⚠ Do not fire the flash directly into the eyes (especially those of babies) within short distances. Otherwise visual impairment may occur.
- ⚠ Do not use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstance, these materials may be sensitive to the strong light emitting from this flash unit and fire or electromagnetic interference may result.
- ⚠ Do not leave or store the flash unit if the ambient temperature reads over 50°C. Otherwise the electronic parts may be damaged.
- ⚠ Turn off the flash unit immediately in the event of malfunction.

# Contents

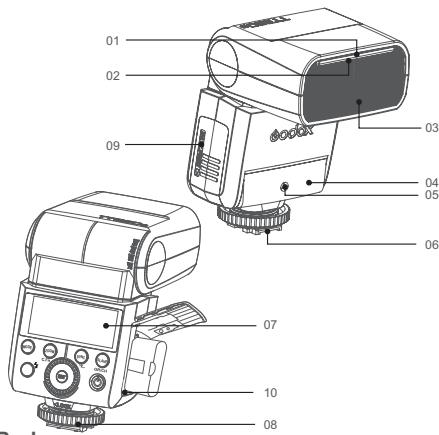
27	Foreword
28	Warning
31	Name of Parts
	Body
	Control Panel
	LCD Panel
	What's in the Box of V350S?
	Separately Sold Accessories
33	Battery
35	Attaching to a Camera
35	Power Management
36	Flash Mode: TTL Autoflash
	☒ FEC (Flash Exposure Compensation)
	Shutter Sync Setting
38	Flash Mode – M: Manual Flash
39	Flash Mode – Multi: Stroboscopic Flash
40	Wireless Flash Shooting: Radio (2.4G) Transmission
	Wireless Settings
	Setting Master Unit's Flash Mode
	Setting the Communication Channel
	Wireless ID Settings
	TTL: Fully Automatic Wireless Flash Shooting
	M: Wireless Flash Shooting with Manual Flash
	Multi: Wireless Flash Shooting with Manual Flash
45	Other Applications
	Auto Focus Assist Beam
	Bounce Flash
	Creating a Catchlight
	ZOOM: Setting the Flash Coverage and Using the Wide Panel
	Low Battery Indicator
47	C.Fn: Setting Custom Functions
48	Protection Function
49	Firmware Upgrade
49	Technical Data
51	Troubleshooting
52	Compatible Camera Models
52	Maintenance



## Conventions used in this Manual

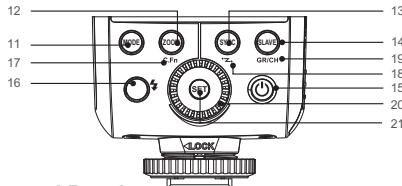
- This manual is based on the assumption that both the camera and camera flash's power switches are powered on.
- Reference page numbers are indicated by "p.\*\*".
- The following alert symbols are used in this manual:
  - ⚠ The Caution symbol gives supplemental information.
  - ☒ The Note symbol indicates a warning to prevent shooting problem.

## Name of Parts



### • Body

- |                          |                         |
|--------------------------|-------------------------|
| 01. Catchlight Panel     | 06. Hotshoe             |
| 02. Built-in Wide Panel  | 07. LCD Panel           |
| 03. Flash Head           | 08. Lock Ring           |
| 04. Optic Control Sensor | 09. Battery Compartment |
| 05. Focus Assist Beam    | 10. USB Port            |

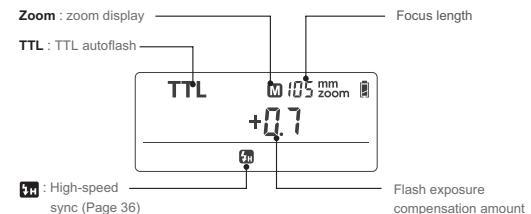


### • Control Panel

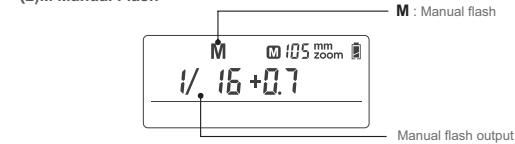
- |  |   |
|--|---|
| 11. <MODE> Mode Selection Button   | press for 2 seconds)  |
| 12. <ZOOM> Zoom Selection Button   | 18. <> Wireless Selection Button ( reusable button, long press for 2 seconds) |
| 13. <SYNC> High-Speed Sync Button  | 19. <GR/CH> Group/Channel Button ( reusable button, in wireless mode)         |
| 14. <SLAVE> S1/S2 Optic Slave Triggering Selection Button (in non-wireless mode) | 20. Select Dial   |
| 15. <> Power Switch  | 21. <SET> Set Button  |
| 16. <> Test Button / Flash Ready Indicator.                                      |   |
| 17. <C.Fn> Custom Function Setting Button ( reusable button, long                |   |

## • LCD Panel

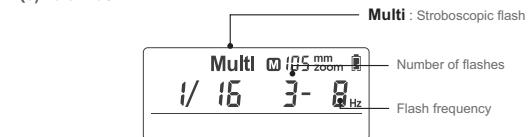
### (1) TTL Autoflash



### (2) M Manual Flash

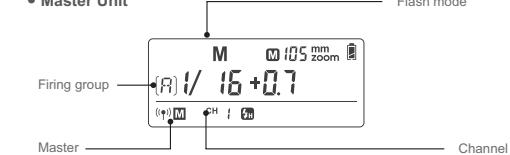


### (3) Multi Flash

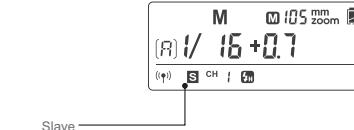


### (4) Radio Transmission Shooting

#### • Master Unit



#### • Slave Unit



## • What's in the Box of V350S?

- 1. Flash unit
- 2. Mini stand
- 3. Protection case
- 4. Diffuser
- 5. Li-ion battery pack
- 6. Battery charger
- 7. Battery charger cable
- 8. Instruction manual

## • Separately Sold Accessories

The product can be used in combination with the following accessories sold separately, so as to achieve best photography effects: XPro, X1T-S wireless flash trigger, Mini softbox, White & Silver reflector, Honeycomb, Color gels, Snoot, etc.



## Battery

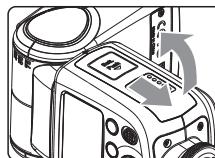
### • Features

1. This flash unit uses Li-ion polymer battery which has long runtime. The available charge-and-discharge times are 500.
2. It is reliably safe. The inner circuit is against overcharge, overdischarge, overcurrent, and short circuit.
3. Take only 2.5 hours to fully charge the battery by using the standard battery charger.

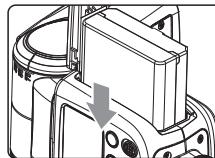
### • Cautions

1. Do not short circuit.
2. Do not expose to rain or immerse into water. This battery is not water proof.
3. Keep out of reach of children.
4. No over 24 hours'continuous charging.
5. Store in dry, cool, ventilated places.
6. Do not put aside or into fire.
7. Dead batteries should be disposed according to local regulations.
8. Please charge the battery to approx. 60% before being placed for long time.
9. If the battery had ceased using for over 3 months, please make a full recharge.

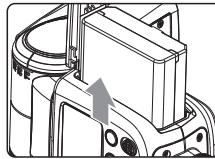
## • Loading and Unloading the Battery



- 1 To load the battery, push the battery compartment cover downward and open it, and the battery pack will pop out.



- 2 To load the battery, according to the triangle sign on the battery pack, insert it into the compartment until it is locked. Then close the compartment.

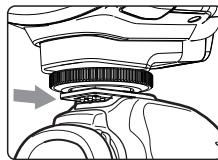


### • Battery Level Indication

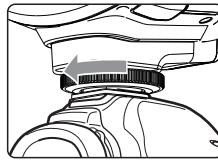
Make sure the battery pack is securely loaded in the flash. Check the battery level indication on the LCD panel to see the remaining battery level.

Battery Level Indication	Meaning
2 grids	Full
1 grid	Middle
Blank grid	Low
Blinking	<p>The battery level is going to be used out immediately. And the flash will auto power off in 1 minute.</p> <p>Note: Please recharge the battery as soon as possible (within 10 days). Then, the battery can be used or be placed for long period.</p>

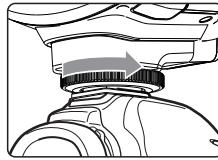
## Attaching to a Camera



- 1** Attach the Camera Flash.
- Slip the camera flash's mounting foot into the camera's hotshoe all the way.



- 2** Secure the Camera Flash.
- Rotate the lock ring on the mounting foot until it locks up.



- 3** Detach the Camera Flash.
- Rotate the lock ring on the mounting foot until it is loosened.

## Power Management

Use Power Switch to power the flash unit on (Long press the button for one second) or off. Turn off if it will not be used for an extended period of time. Setting as a master flash, it will turn the power off automatically after a certain period (approx. 90 seconds) of idle use. Pressing the camera shutter halfway or pressing any flash button will wake up the flash unit. Setting as a slave flash, it will enter sleep mode after a certain period (adjustable, 60 minutes by default) of idle use. Pressing any flash button will wake it up.

**C.Fn** Disabling Auto Power Off function is recommended when the flash is used off camera. (C.Fn-ST, Page 47)

## Flash Mode: TTL Autoflash

This flash has three flash modes: TTL, Manual (M), and Multi (Stroboscopic). In TTL mode, the camera and the flash will work together to calculate the correct exposure for the subject and the background. In this mode, multiple TTL functions are available: FEC, HSS, second curtain sync, etc.

\* Press <MODE> Mode Selection Button and three flash modes will display on the LCD panel one by one with each pressing.

### TTL Mode

Press <MODE> Mode Selection Button to enter TTL mode. The LCD panel will display <TTL>.

- Press the camera release button halfway to focus.
- When the shutter button is fully pressed, the flash will fire a pre-flash that the camera will use to calculate exposure and flash output the instant before the photo is taken.

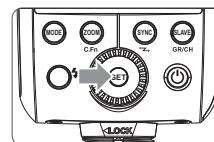
Display "Hi": When the flash output value is up to the maximum value, "Hi" will be displayed and blinking for 3 seconds. Adjust the camera's parameters if underexposure appears.

Display "Lo": When the flash output value is up to the minimum value, "Lo" will be displayed and blinking for 3 seconds. Adjust the camera's parameters if overexposure appears.

### FEC: Flash Exposure Compensation

With FEC function, this flash can adjust from -3 to +3 in 1/3rd stops. It is useful in situations where minor adjusting of the TTL system is needed based on the environment.

#### Setting FEC:

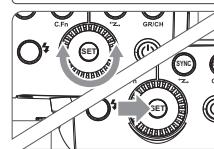


- 1** Press the **SET** Button and the flash exposure compensation amount will be highlighted on the LCD panel.



- 2** Turn the Select Dial to set the amount.

- "0.3" means 1/3 step,
- "0.7" means 2/3 step.
- To cancel the flash exposure compensation, set the amount to "+0".



- 3** Press <SET> button again to confirm the setting.

## Shutter Sync Settings:

1. **High-speed sync:** press the <SYNC> button and is  displayed on the LCD panel. Press the MENU or shortcut Fn on Sony camera to enter Flash Mode and choose Fill-flash .

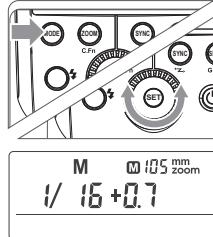
Then, set the camera shutter.

2. **Second-curtain sync:** press the MENU or shortcut Fn on Sony camera to enter Flash Mode and choose REAR flash . Then, set the camera shutter.

- 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.
- Over-temperature protection may be activated after 15 consecutive high-speed sync flashes.
- Try to avoid using high-speed sync flash, which will cut short flash tube's lifetime.

## Flash Mode – M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/128th power in 1/3rd 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. In  high-speed sync mode, the adjustable flash range is 1/16~1/1.

### Flash Output Range

The following table makes it easier to see how the stop changes in terms of f/stop when you increase or decrease the flash output. For example, when you decrease the flash output to 1/2, 1/2-0.3, or 1/2-0.7, and then increase the flash output to more than 1/2, 1/2+0.3, 1/2+0.7, and 1/1 will be displayed.

Figures displayed when reducing flash output level→

1/1	1/1-0.3	1/1-0.7	1/2	1/2-0.3	1/2-0.7	1/4	.....
	1/2+0.7	1/2+0.3		1/4+0.7	1/4+0.3		.....

← Figures displayed when increasing flash output level

In the M mode,  high-speed sync and rear curtain sync functions can be achieved.

### Optical S1 Secondary Unit Setting

In M manual flash mode, press the <SLAVE> button so that this flash can function as an optic S1 secondary flash with optic 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

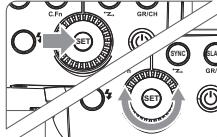
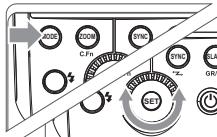
Press the <SLAVE> button so that this flash can also function as an optic S2 secondary flash with optic sensor in M manual flash mode. This is useful when cameras have pre-flash function. With this function, the flash will ignore a single "preflash" from the main flash and will only fire in response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

- S1 and S2 optic triggering and off camera high-speed mode are only available in M manual flash mode.

## Flash Mode – Multi: Stroboscopic Flash

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.



### 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.

**⚠** To avoid overheating and deteriorating the flash head, do not use stroboscopic flash more than 10 times in succession. After 10 times, allow the camera flash to rest for at least 15 minutes. If you try to use the stroboscopic flash more than 10 times in succession, the firing might stop automatically to protect the flash head. If this happens, allow at least 15 minutes' rest for the camera flash.

- Stroboscopic flash is most effective with a highly reflective subject against a dark background.
- Using a tripod and a remote control is recommended.
- Stroboscopic flash can be used with "bulb".
- 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 output	1	2	3	4	5	6-7	8-9	10	20-50	60-99
1/4	6	3	2	2	2	2	2	2	2	2
1/8	14	14	6	4	3	3	3	2	2	2
1/16	30	30	30	20	10	8	5	3	3	3
1/32	60	60	60	50	50	40	12	5	5	5
1/64	90	90	90	80	80	70	60	20	10	10
1/128	90	90	90	90	90	90	80	70	30	20

### Wireless Flash Shooting: Radio (2.4G) Transmission

- You can set up three slave groups for TTL autoflash shooting. With TTL autoflash, you can easily create various lighting effects.
- Any flash settings for the slave units on the master flash in TTL mode will be automatically sent to the slave units. So the only thing you need to do is to set the master unit for each slave group without any operation for the slave units at all during the shooting.
- This flash can work in **TTL / M / Multi / OFF** flash modes when set as a master unit.

When using Godox 2.4G wireless X system, V350S is perfectly compatible with other products of our company.

**As a master unit**, V350S can control the following slave unit models: AD600, AD600M, AD360II-C, AD360II-N, V860IIS, V850II, TT685S, TT600.

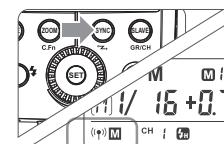
**As a slave unit**, V350S can be controlled by the following master unit models: XPro, X1T-S, V860IIS, V850II, TT685S, TT600.

- ⚠**
- Even with multiple slave units, the master unit can control all of them via wireless.
  - In this user manual, "master unit" refers to the camera flash on a camera and "slave unit" will be controlled by the master unit.

### 1. Wireless Settings

You can switch between normal flash and wireless flash. For normal flash shooting, be sure to set the wireless setting to OFF.

#### Master Unit Setting



- 1** Long Press the <SYNC> button for 2 seconds so that <(•)> is blinking. Turn the Select Dial until the <(•) M> is displayed on the LCD panel, which means the master unit.