Before using this product
Please read this user manual carefully in order to ensure your safety and the proper operation of this product. Keep for future reference.

Thank you for purchasing a GODOX product.
WITSTRO TTL All-in-One Outdoor Flash AD600 has strong power, all-in-one lithium battery pack and great portability. When using Godox 2.4G wireless X system off camera, AD600 can be triggered by X1 series flash trigger in TTL/MMulti mode, etc. With master & slave functions, AD600 can also use in combination with Godox TTL camera flashes, TTL outdoor flashes, TTL studio flashes, etc. With this AD600 flash, your shooting will become simpler. You can easily achieve a correct flash exposure even in complex light-changing environments.

WITSTRO AD600 flash system is an AD600 flash with a bare tube, wireless flash trigger, and a range of dedicated light shaping accessories. AD600 offers studio quality light for outdoor and live shooting. The AD600 offers:

- **Compatible wireless TTL system**: Fully support Canon E-TTL II, Nikon i-TTL and other TTL systems in Godox 2.4G wireless X system. Workable as Slave unit in a wireless flash group.
- **Dot-matrix LCD panel**: with clear and convenient operation.
- **Built-in 2.4G wireless transmission**: with all-in-one functions and 80 meters further transmission
- **Studio quality light**: up to 600Ws, GN 87 (m ISO 100, with AD-R7 standard reflector). One AD600 can overpower the sun.
- **External battery pack**: professional lithium battery pack (lithium, 11.1V/8700mAh), 0.01-2.5s recycling and 500 full power flashes.
- **Lightweight and portable** even with power and accessories
- **Wireless control**: With built-in Godox 2.4G wireless X system to achieve TTL control. Godox FT-16 flash trigger can also be used to wirelessly adjust flash power level and trigger the flash. AD600 has 3.5mm sync cord jack and PC sync socket to achieve various sync triggering mode.
- **Wide-range accessories**: softbox, beauty dish, snoots, color gels, etc.
- **Power adjusts from full power to 1/256 in 1/3 stop increments**
- **Stable color temperature at 5600±200K over the entire power range**
- **1/8000s high-speed sync flash, Focus-assist beam on/off & high-speed sync triggering**

The powerful and portable AD600 meets the demands of freelance commercial photographers, photojournalists, wedding and beach portraiture shooters, event and backpack photographers, photograph enthusiasts, etc.

---

For Your Safety

- Always keep this product dry. Do not use in rain or in damp conditions.
- This product contains high-voltage electronic parts. Touching the high-voltage circuit inside it may result in electric shock. Do not disassemble. Should repairs become necessary, this product must be sent to an authorized maintenance center.
- 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 use the flash unit in the presence of flammable gases, chemicals and other similar materials. In certain circumstances, 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 (e.g. in automobile). Otherwise the electronic parts may be damaged.

Foreword

For Your Safety
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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 indicates a warning to prevent shooting problem.
  📝 The Note symbol gives supplemental information.
Name of Parts

**Body:**

- **<MODE>** Mode Selection Button
- **<MENU>** Menu Button
- **<H>** High Speed Sync Button
- Umbrella Mounting Hole
- Handle
- Handle Lock Ring
- **<ON/OFF>** Power Switch
- **< 快 >** Modeling Lamp Button
- **<GR/CH>** Group/Channel Button
- Select Dial
- **< SET >** Set Button
- **< 快 >** Test Button / Flash Ready Indicator

**LCD Panel:**

(1) TTL Autoflash

- 3.5mm Sync Cord Jack
- Mini USB Port
- Battery Power Jack
- Battery Indicator Button
- Light Sensor
- Wireless Control Port

**Accessories:**

- Accessory Mount
- Tube Socket
- Modeling Lamp (LED)

**Other Parts:**

- Lithium Battery
- Groove
- Ridge
- Fan Outlet
- Fan Inlet
- Direction Adjusting Handle
- Accessory Locking Ring
- Battery Locking Ring
- Socket

**Other Features:**

- TTL: TTL Autoflash
- High Speed Sync
- Flash exposure compensation amount
- Flash exposure compensation
Name of Parts

LCD Panel:

(2) Manual Flash

M: Manual flash

Manual flash output

(3) Multi Flash

Multi: Stroboscopic flash

Number of flashes

Flash frequency

Radio transmission wireless shooting

Optical transmission wireless shooting

(4) Radio Transmission Shooting/Optical Transmission Shooting

Firing group

Channel

(5) Slave Unit

Flash duration

S1/S2

Included Accessories

1. Flash tube
2. Lithium battery pack
3. Battery charger
4. Power cord
5. Reflector
6. Instruction manual

Name of Parts

Separately Sold Accessories

AD600 can be used in combination with the following accessories sold separately, so as to achieve best photography effects: H600 Portable Flash Head, H1200 Portable Flash Head, X1 Wireless Flash Trigger, FT-16 Remote Control, Softbox, Beauty Dish, Fold Up Umbrella, Snoots, Light Stand, etc.

Installing Reflector (Other Accessories)

1. Press down the Accessory Locking Ring.
2. Insert the reflector into the Accessory Mount and clock wise to lock it up.

Attaching Flash Tube

1. Remove the reflector or other accessories from the flash head.
2. Match the flash tube in the Tube Socket. Push the flash tube in until it is securely seated into the socket.

Adjusting Handle

1. When the Direction Adjusting Handle is not pulled out, screw clockwise while unscrew anti clockwise.
2. The Direction Adjusting Handle's rotation angle should be restrained from 0 to 180 degrees below the flash body. Please pull out the Direction Adjusting Handle, adjust the appropriate angle, and manipulate the step 1 before colliding with the flash body.
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 4 hours to fully charge the battery by using the standard battery charger.

Cautions
▷ Do not short circuit.
▷ Do not expose to rain or immerse into water. This battery is not water proof.
▷ Keep out of reach of children.
▷ No over 24 hours’ continuous charging.
▷ Store in dry, cool, ventilated places.
▷ Do not put aside or into fire.
▷ Dead batteries should be disposed according to local regulations.
▷ If the battery had ceased using for over 3 months, please make a full recharge.

Loading and Unloading the Battery Pack

Loading:
1 Match the battery’s groove with the main battery compartment’s ridge.
2 Push down the battery pack until it is locked.

Unloading:
1 Push the Battery Locking Ring to the right.
2 Push the battery pack upward to unload it.

Battery Level Indication
Attach the battery pack to the flash correctly. Be aware of the battery level by check the battery level indication on the LCD panel when using.

<table>
<thead>
<tr>
<th>Battery Level Indication on the LCD Panel (indicating battery level and management of the whole flash system)</th>
<th>LED Battery Level Indication on the Battery (indicating battery level and management of non-loaded battery)</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 grids</td>
<td>1 red grid +3 green grids</td>
<td>Full battery</td>
</tr>
<tr>
<td>2 grids</td>
<td>1 red grid +2 green grids</td>
<td>Medium battery</td>
</tr>
<tr>
<td>1 grid</td>
<td>1 red grid +1 green grid</td>
<td>Low battery</td>
</tr>
<tr>
<td>Blank grid</td>
<td>1 red grid</td>
<td>Lower battery, please recharge it.</td>
</tr>
<tr>
<td>Blinking</td>
<td></td>
<td>The battery level is going to be used out immediately. And the flash will auto power off in 1 minute. Note: Please recharge the battery as soon as possible (within 10 days). Then, the battery can be used or be placed for long period.</td>
</tr>
</tbody>
</table>

Note: The two indications are almost the same except of grids shift.

Power Management

Long press the <ON/OFF> Power Switch for 2 seconds to control the on/off of the flash unit. Turn off the power pack if the flash unit will not be used for an extended period (approx. 1 hour).

Disabling Auto Power Off function is recommended when the flash is used off camera. (C.Fn-APO, Page 44)

Wireless Flash Mode

AD600 can only be set as slave unit (receiver end). Press Wireless Selection Button to switch the two wireless modes: radio transmission and optical transmission. When using radio transmission, AD600 will automatically switch between Canon (C) and Nikon (N) system according to X1 series transmitter. When using optical transmission, please set AD600 to Canon (C) or Nikon (N) before firing a flash.

<table>
<thead>
<tr>
<th>Wireless Mode</th>
<th>Flash Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>M / Multi</td>
</tr>
<tr>
<td>Radio Transmission</td>
<td>TTL / M / Multi</td>
</tr>
<tr>
<td>Optical Transmission</td>
<td>TTL / M / Multi</td>
</tr>
</tbody>
</table>
Flash Mode — TTL Autoflash

This flash has three flash modes: TTL, Manual (M), and Multi (Stroboscopic). In TTL mode, the camera and the flash work together to calculate the correct exposure for the subject and the background.

* 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>.

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

Setting FEC:

1. Press <SET> button and flash exposure compensation amount will be highlighted on the LCD panel.
2. Set the flash exposure compensation amount.
   - 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.

** High-Speed Sync **
High-Speed Sync (FP flash) 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 High Speed Sync Button so that < ≫ > is displayed.
2. Please use X1 series transmitter.

- If you set a shutter speed that is the same as or slower than the camera’s maximum flash sync speed, < ≫ > will not be displayed in the viewfinder.
- With high-speed sync, the faster the shutter speed, the shorter the effective flash range.
- To return to normal flash, press < ≫ > button again. Then < ≫ > will disappear.
- Multi flash mode cannot be set in high-speed sync mode.
- Over-temperature protection may be activated after 50 consecutive high-speed sync flashes.

Flash Mode — M: Manual Flash

The flash output is adjustable from 1/1 full power to 1/256th 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.
3. Press < SET > button again to confirm the setting.

** 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.

<table>
<thead>
<tr>
<th>Flash Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1</td>
</tr>
<tr>
<td>1/1-0.3</td>
</tr>
<tr>
<td>1/1-0.7</td>
</tr>
<tr>
<td>1/2</td>
</tr>
<tr>
<td>1/2-0.3</td>
</tr>
<tr>
<td>1/2-0.7</td>
</tr>
<tr>
<td>1/4</td>
</tr>
<tr>
<td>1/4+0.7</td>
</tr>
<tr>
<td>1/4+0.3</td>
</tr>
</tbody>
</table>

** Optical S1 Secondary Unit Setting **
In M manual flash mode, press <MENU> button to enter C.FN-SLAVE to choose S1 function, so that this flash can function as an optical 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 <MENU> button to enter C.FN-SLAVE to choose S2 function, 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.

- S1 and S2 optical triggering is only available in M manual flash mode.
Flash Mode — M: Manual Flash

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.

The flash duration will only be displayed on the LCD panel in M 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.

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.
   - After you finish the setting, press <SET> button and all the settings will be displayed.

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.

\[
\text{Number of Flashes / Flash Frequency} = \text{Shutter Speed}
\]

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.
- A flash output of 1/1 and 1/2 cannot be set for stroboscopic flash.
- 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:

<table>
<thead>
<tr>
<th>Flash Output</th>
<th>1/4</th>
<th>1/8</th>
<th>1/16</th>
<th>1/32</th>
<th>1/64</th>
<th>1/128</th>
<th>1/256</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7</td>
<td>14</td>
<td>30</td>
<td>60</td>
<td>90</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>14</td>
<td>30</td>
<td>60</td>
<td>90</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>12</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>10</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>8</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>6-7</td>
<td>2</td>
<td>6</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>8-9</td>
<td>2</td>
<td>4</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
<tr>
<td>10</td>
<td>2</td>
<td>3</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>12-14</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>15-19</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>20-50</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>60-100</td>
<td>2</td>
<td>2</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>
Wireless Flash Shooting: Radio (2.4G) Transmission

AD600 adopts Godox 2.4G wireless X system, which has good compatibility with other products of our company. As a slave unit, AD600 is automatically compatible with Canon E-TTL II system and Nikon i-TTL system according to the master unit. When receiving the master unit’s signal, “C” or “N” will be displayed on the LCD panel. Nikon cameras (use X1T-N, TT685N, etc.) and Canon cameras (use X1T-C, TT685C, etc.) can use one or more AD600 flashes simultaneously.

*As a slave unit, AD600 can be controlled by the following master units: AD360II-C, AD360II-N, TT685C, TT685N, X1T-C, X1T-N, TT600, etc.

1. Wireless Settings
Press <GR/CH> Wireless Setting Button again until <GR/CH> is displayed on the panel.

2. 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.

3. Setting the Communication Group
Short press the <GR/CH> Button to choose group ID from A to E.

4. Wireless Flash Shooting
Positioning and Operation Range (Example of wireless flash shooting)
- Autoflash Shooting with One Slave Unit

● Use the supplied mini stand to position the slave unit.
● Before shooting, perform a test flash and test shooting.
● The transmission distance might be shorter depending on the conditions such as positioning of slave units, the surrounding environment and whether conditions.

Transmission distance is about 80m
Wireless Flash Shooting: Radio (2.4G) Transmission

**Wireless Multiple Flash Shooting**

You can divide the slave units into two or three groups and perform TTL autoflash while changing the flash ratio (factor). In addition, you can set and shoot with a different flash mode for each firing group.

- **Auto Shooting with Two Slave Groups**

Wireless shooting using radio transmission has advantages over wireless shooting using optic transmission, such as being less affected by obstacles, and not having to point the slave unit’s wireless sensor toward the master unit.

The main functional differences are as follows:

<table>
<thead>
<tr>
<th>Function</th>
<th>Radio Transmission</th>
<th>Optical Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>80m (X1 series transmitter)</td>
<td>Approx. 10m</td>
</tr>
<tr>
<td>Channel</td>
<td>1~32</td>
<td>1~4</td>
</tr>
<tr>
<td>Group</td>
<td>A/B/C/D/E</td>
<td>A/B/C</td>
</tr>
<tr>
<td>To be disturbed</td>
<td>Hard</td>
<td>Easy</td>
</tr>
</tbody>
</table>

Wireless Flash: Optical Transmission

AD600 supports wireless flash functions and can be set as slave unit. Choose Canon or Nikon optical wireless system through C. FN-REMOTE on the MENU list.

* Compatible Canon optical wireless system: AD600 can receive wireless signals of Canon speedlites e.g. 580EXII, 600EX-RT and commanders of Canon cameras e.g. 7D/60D/600D.

* Compatible Nikon optical wireless system: AD600 can receive wireless signals of Nikon speedlights e.g. SB-900, SB-910 and commanders of D7100/D7000/D800.

- You can set up one to five slave groups for TTL autoflash shooting. With TTL autoflash, you can easily create various lighting effects.
- Any flash settings (of flash exposure compensation, high-speed sync, FE lock, FEB, manual flash, Multi flash) on the master unit will be automatically sent to the slave units. So the only thing you need to do is to set the master unit to TTL mode without any operation for the slave units at all during the shooting.
- This flash can work in TTL autoflash, M manual flash, and Multi stroscopic flash modes when set as a master unit.

**Positioning and Operation Range**

<table>
<thead>
<tr>
<th></th>
<th>Indoors</th>
<th>Outdoors</th>
</tr>
</thead>
<tbody>
<tr>
<td>18m</td>
<td>10m</td>
<td>8m</td>
</tr>
<tr>
<td>49.2ft</td>
<td>32.8ft</td>
<td>26.2ft</td>
</tr>
</tbody>
</table>

1. Wireless Settings

Press < Z > Wireless Setting Button again until < > is displayed on the panel.

![Wireless Setting Button](image-url)
## Wireless Flash: Optical Transmission

### 2. 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 so that channels ID is displayed on the LCD panel.
2. Turn the Select Dial to choose a channel ID from 1 to 4.
3. Press the `<SET>` button to confirm.

### 3. Setting the Communication Group

Short press the `<GR/CH>` Button to choose group ID from A to C.

---

## C.Fn: Setting Custom Functions

<table>
<thead>
<tr>
<th>Custom Function Signs</th>
<th>Functions</th>
<th>Setting Signs</th>
<th>Settings &amp; Descriptions</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BEEP</strong></td>
<td>Beeper</td>
<td>ON</td>
<td>ON</td>
<td>NO</td>
</tr>
<tr>
<td><strong>SLAVE</strong></td>
<td>S1/S2 mode selection</td>
<td>OFF</td>
<td>OFF</td>
<td>M mode</td>
</tr>
<tr>
<td></td>
<td>S1 mode</td>
<td>OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S2 mode</td>
<td>OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FAN</strong></td>
<td>Fan working mode</td>
<td>AUTO</td>
<td>Temperature &lt;45°: OFF</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Temperature &gt;45°: LOW FAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Temperature &gt;60°: HIGH FAN</td>
<td></td>
</tr>
<tr>
<td><strong>SLEEP</strong></td>
<td>Auto power off</td>
<td>OFF</td>
<td></td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>1HR</td>
<td>OFF</td>
<td>Auto power off without any operation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2HR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3HR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LIGHT</strong></td>
<td>Backlighting time</td>
<td>12sec</td>
<td>Off in 12 sec.</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Always off</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ON</td>
<td>Always lighting</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DELAY</strong></td>
<td>Delay flash</td>
<td>OFF, 0.01~30S</td>
<td>Can be triggered as second curtain</td>
<td>M/Multi mode</td>
</tr>
<tr>
<td><strong>UNITS</strong></td>
<td>Total number of flashes</td>
<td>2~4</td>
<td>Use UNITS in combination with ALT: UNITS sets the total number of flashes; ALT sets the triggering times before flash’s firing</td>
<td>M mode</td>
</tr>
<tr>
<td><strong>ALT</strong></td>
<td>Triggering times</td>
<td>0~9</td>
<td>10 levels</td>
<td>M mode</td>
</tr>
<tr>
<td><strong>LCD</strong></td>
<td>LCD contrast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REMOTE</strong></td>
<td>Optical wireless remote system</td>
<td>CANON</td>
<td>Canon</td>
<td>Optical wireless mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIKON</td>
<td>Nikon</td>
<td></td>
</tr>
<tr>
<td><strong>RESET</strong></td>
<td>Parameter resetting</td>
<td>NO</td>
<td></td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>YES</td>
<td>Reseting</td>
<td></td>
</tr>
</tbody>
</table>

1. Press `<MENU>` Button to enter C.Fn menu. The "Ver x.x" in the top-right corner refers to the software version.
2. Select the Custom Function Signs.
* Turn the Select Dial to select the Custom Function Signs.
### Modeling Lamp

- Over-Temperature Protection
  - To avoid overheating and deteriorating the flash head, do not fire more than 100 continuous flashes in fast succession at 1/1 full power. After 100 continuous flashes, allow a rest time of at least 10 minutes.
  - If you fire more than 100 continuous flashes and then fire more flashes in short intervals, the inner over-temperature protection function may be activated and make the recycling time over 10 seconds. If this occurs, allow a rest time of about 10 minutes, and the flash unit will then return to normal.
  - When the over-temperature protection is started, H is shown on the LCD display.

<table>
<thead>
<tr>
<th>Protection Function</th>
<th>Power Output Level</th>
<th>Number of Flashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>1/2 (+0.3,+0.7)</td>
<td></td>
<td>150</td>
</tr>
<tr>
<td>1/4 (+0.3,+0.7)</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>1/8 (+0.3,+0.7)</td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>1/16 (+0.3,+0.7)</td>
<td></td>
<td>400</td>
</tr>
<tr>
<td>1/32 (+0.3,+0.7)</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>1/64 (+0.3,+0.7)</td>
<td></td>
<td>1000</td>
</tr>
<tr>
<td>1/128 (+0.3,+0.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/256 (+0.3,+0.7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 FT-16 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.

#### 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.

#### Protection Function

1. Over-Temperature Protection
   - To avoid overheating and deteriorating the flash head, do not fire more than 100 continuous flashes in fast succession at 1/1 full power. After 100 continuous flashes, allow a rest time of at least 10 minutes.
   - If you fire more than 100 continuous flashes and then fire more flashes in short intervals, the inner over-temperature protection function may be activated and make the recycling time over 10 seconds. If this occurs, allow a rest time of about 10 minutes, and the flash unit will then return to normal.
   - When the over-temperature protection is started, H is shown on the LCD display.

### Other Protections

- The system provides real-time protection to secure the device and your safety. The following lists prompts for your reference:

<table>
<thead>
<tr>
<th>LCD Panel</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>A failure occurs on the recycling system so that the flash cannot fire. Please restart the flash unit. If the problem still exists, please send this product to a maintenance center.</td>
</tr>
<tr>
<td>E2</td>
<td>The system gets excessive heat. Please allow a rest time of 10 minutes.</td>
</tr>
<tr>
<td>E3</td>
<td>The voltage on two outlets of the flash tube is too high. Please send this product to a maintenance center.</td>
</tr>
<tr>
<td>E9</td>
<td>There are some errors occurred during the upgrading process. Please using the correct firmware upgrade method.</td>
</tr>
</tbody>
</table>
If there is a problem, refer to this Troubleshooting Guide.

The flash exposure is underexposed or overexposed.

- There was a highly reflective object (e.g. glass window) in the picture.
  → Use FE lock (FEL).

- You used high-speed sync.
  → With high-speed sync, the effective flash range will be shorter. Make sure the subject is within the effective flash range displayed.

- You used Manual Flash mode.
  → Set the flash mode to TTL or modify the flash output.

This flash supports firmware upgrade through the USB port. Update information will be released on our official website.

USB connection line is not included in this product. The USB port is a standard Micro USB socket. Common USB connection line is applicable.

- Shut down the device immediately should abnormal operation be detected.
- Avoid sudden impacts and the product should be dedusted regularly.
- It is normal for the flash tube to be warm when in use. Avoid continuous flashes if unnecessary.
- Maintenance of the flash must be performed by our authorized maintenance department which can provide original accessories.
- This product, except consumables e.g. flash tube, is supported with a one-year warranty. Unauthorized service will void the warranty.
- If the product had failures or was wetted, do not use it until it is repaired by professionals.
- Changes made to the specifications or designs may not be reflected in this manual.

Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>AD600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Slave Unit Mode</td>
<td>Radio transmission mode (compatible with Nikon &amp; Canon) Optical transmission mode (compatible with Nikon &amp; Canon)</td>
</tr>
<tr>
<td>Flash Mode</td>
<td>Wireless off M/Multi Slave unit of radio transmission TTL/M/Multi Slave unit of optical transmission TTL/M/Multi</td>
</tr>
<tr>
<td>Compatible Cameras under Radio Transmission (as slave unit)</td>
<td>Nikon cameras, supporting i-TTL/IRPT flash (X1N as master unit, etc.) Canon EOS cameras, supporting E-TTL II/IRPT flash (X1C as master unit, etc.)</td>
</tr>
<tr>
<td>Guide No. (m ISO 100)</td>
<td>87 (m ISO 100, with AD-R7 standard reflector)</td>
</tr>
<tr>
<td>Flash Duration</td>
<td>1/220 to 1/10000 seconds</td>
</tr>
<tr>
<td>POWER</td>
<td>600W</td>
</tr>
<tr>
<td>Power Output</td>
<td>9 steps: 1/256~1/1</td>
</tr>
<tr>
<td>Stroboscopic Flash</td>
<td>Provided (up to 100 times, 100Hz)</td>
</tr>
<tr>
<td>Sync mode</td>
<td>High-speed sync (up to 1/8000 seconds), first-curtain sync, and second-curtain sync</td>
</tr>
<tr>
<td>Delay Flash</td>
<td>0.01~30 Seconds</td>
</tr>
<tr>
<td>Mask</td>
<td>√</td>
</tr>
<tr>
<td>Fan</td>
<td>√</td>
</tr>
<tr>
<td>Beeper</td>
<td>√</td>
</tr>
<tr>
<td>Modeling Lamp (LED)</td>
<td>10W</td>
</tr>
<tr>
<td>Optical Slave Flash</td>
<td>S1/S2</td>
</tr>
<tr>
<td>Flash Duration Indication</td>
<td>√</td>
</tr>
<tr>
<td>Display</td>
<td>Dot-matrix panel</td>
</tr>
</tbody>
</table>

- Wireless Flash (optical transmission and 2.4G transmission)

  - Wireless Flash Function: Slave, Off
  - Controllable Slave Groups: Optical 3 (A, B, C) 2.4G 5 (A, B, C, D, E)
  - Transmission Range (approx.): Optical Indoors: 12 to 15 m / 39.4 to 49.2 ft. Outdoors: 8 to 10 m / 26.2 to 32.8 ft. 2.4G 80m
  - Channels: Optical 4 (1, 2, 3, and 4) 2.4G 32 (1~32)

- Power Supply

  - Power Supply: Lithium battery pack (11.1V/8700mAh)
  - Full Power Flashes: 500
  - Recycle Time: Approx. 0.01-2.5s
  - Battery Indicator: √
  - Power Indication: Power off automatically after approx. 60 minutes of idle operation.

- Sync Triggering Mode: 3.5mm sync line, wireless control port

- Color Temperature: 5600±200K

- Dimensions

  - Dimension (with battery): 220x245x125 mm (flash tube & reflector not included)
  - Net Weight (with battery): 2.66 Kg (flash tube & reflector not included)

Troubleshooting

If there is a problem, refer to this Troubleshooting Guide.

The flash exposure is underexposed or overexposed.

- There was a highly reflective object (e.g. glass window) in the picture.
  → Use FE lock (FEL).

- You used high-speed sync.
  → With high-speed sync, the effective flash range will be shorter. Make sure the subject is within the effective flash range displayed.

- You used Manual Flash mode.
  → Set the flash mode to TTL or modify the flash output.

Firmware Upgrade

This flash supports firmware upgrade through the USB port. Update information will be released on our official website.

- USB connection line is not included in this product. The USB port is a standard Micro USB socket. Common USB connection line is applicable.

Maintenance

- Shut down the device immediately should abnormal operation be detected.
- Avoid sudden impacts and the product should be dedusted regularly.
- It is normal for the flash tube to be warm when in use. Avoid continuous flashes if unnecessary.
- Maintenance of the flash must be performed by our authorized maintenance department which can provide original accessories.
- This product, except consumables e.g. flash tube, is supported with a one-year warranty. Unauthorized service will void the warranty.
- If the product had failures or was wetted, do not use it until it is repaired by professionals.
- Changes made to the specifications or designs may not be reflected in this manual.