

PolaStrobe600 User Manual



WARNING: This device contains lethal high voltage. All operations must be performed with caution, especially any actions involving opening the plastic cover.

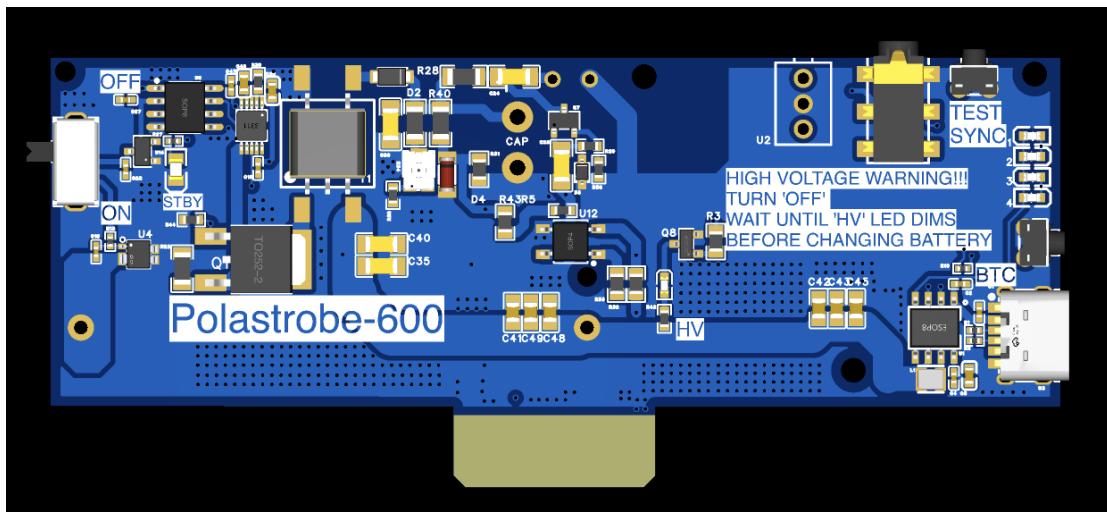
Introduction

The PolaStrobe-600 is a flash unit designed for use with Sx70 series folding cameras to shoot 600/itype instant film. It features extremely fast recycling speed, a compact size, is powered by replaceable 10440 lithium batteries, and has a built-in USB-C charging port. Its unique stepless adjustable output power function can help you better compensate for flash exposure errors caused by Camfollower failure. You can also fine-tune the output power to match your shooting preferences.

Main Specifications:

- Size:**103x40.5x41 (mm)
- Guide Number:**20 (Adjustable,ISO100 in Meter)
- Battery Type:**10440 3.7V Rechargeable Lithium Battery
- Charging Port:**5v 1.2A USB-C (non PD)
- Recycle Time:**3.5s~5s
- Duration:**5 boxes of film or more
- For iType/600 Film ONLY**
- Bidirectional 2.5mm SYNC PORT**
- Effective range:**0.3m~5m

Button&LED Functions



OFF/ON: Main Power Switch

STBY: Status Indicator, Each time the power is turned on, it will blink once to indicate the completion of the self-check. There are 4 different statuses:

1. **Steady on:** Indicates the main capacitor is fully charged and ready for shooting.
2. **Blinking at 4 Hz:** The back shell is not properly installed, and shooting is unavailable.
3. **Blinking at 1 Hz:** The battery is low and has entered protection mode. Needs fully recharge before shooting.
4. **Off:** The main capacitor is recharging or **the battery voltage level is too low to startup** (if it does not blink once when switched on).

Test: Test whether the flash triggering function is working properly.

BTC: Check the battery level by clicking the button once. The four LED lights above will illuminate to indicate the battery status. If only one LED lights up, charge the device immediately. The illuminated LEDs will automatically turn off after 30 seconds, or you can double-click this button to turn them off manually. **Please note that** due to the high current load during the main capacitor charging process, the battery level display may be inaccurate. Therefore, it is recommended to check the battery level only after turning off the main power switch. During charging, the four battery indicator LEDs will light up sequentially as the charging progresses. When all LEDs are steadily lit and stop blinking, charging is complete.

SYNC: Flash sync port with bidirectional interface, compatible with 2.5mm flash sync cables to enable flash triggering functionality. When the sync cable is plugged into the SYNC port, the camera will automatically enter flash exposure mode. It supports both active and passive modes:

1. **Active Mode:** When inserted into the camera's socket, the PS600 acts as a flash trigger to fire external flashes connected via the 2.5mm sync port. In this mode, if the power switch is turned on, the PS600 will fire simultaneously with the connected external flash. **If you intend to use the PS600 solely as a flash trigger adapter, ensure the power switch is turned off and press the Test button once to discharge the main capacitor before connecting the sync cable, to avoid accidental triggering.**
2. **Passive Mode:** Use an additional flash trigger adapter or another PolaStrobe-600 inserted

into the camera's socket, and connect it to the current PolaStrobe-600 via a 2.5mm sync cable to achieve off-camera flash.

HV: It is used to indicate whether the flash's main capacitor retains high voltage. When HV is steadily on, it indicates that the main capacitor voltage exceeds 6V. **At this point, any disassembly of the housing or battery replacement is strictly prohibited.** When the main capacitor voltage drops below 6V or lower, the HV indicator will turn off, indicating that it is now safe to proceed with battery replacement.

Inserting or changing Battery

WARNING:

- a. The circuit board has a micro switch to detect whether the back cover is closed near by the SYNC port. Gently press the lever of the micro switch horizontally to secure it before tightening the screws.**
- b. Operate gently to avoid damaging the connection between the circuit board and the strobe assembly.**
- c. Everytime the HV LED is on, DO NOT REMOVE THE BACK SHELL.**
- d. Only 10440 3.7V rechargeable lithium batteries could be installed. Do not use standard AAA alkaline batteries, the PS600 will not function properly.**

When inserting the battery for the first time or replacing the battery, be sure to follow the steps below to avoid potential hazards:

1. Ensure the main power switch is in the off position.
2. Click the Test button to discharge the main capacitor.
3. Wait until the HV LED dims. (If this is not the first use, after clicking the test button, the HV LED may take about 20 minutes to turn off. This is because a single flash may not fully release all the energy stored in the main capacitor. At this stage, the high-voltage section of the circuit board may still retain approximately 50V, which remains dangerous to the human body. Therefore, it is essential to wait until the HV LED turns off before proceeding with any further operations.)
4. Loosen the screws in sequence, remove the back cover, gently pry up the circuit board and flip it over. At this point, the battery compartment will be visible. Batteries can be installed or replaced following the polarity markings indicated on the circuit board. **Only 10440 3.7V rechargeable lithium batteries should be installed. Do not use standard AAA alkaline batteries, as this will prevent the PS600 from functioning properly.** Due to its unique protective components, incorrect battery type or reversed polarity will not damage the PS600 itself. Simply insert the correct batteries with the proper polarity to proceed.
5. Press the BTC button to check the battery level and verify whether the battery is installed correctly. If the battery model is correct and properly installed.
6. Carefully place the circuit board back into the housing, close the back cover, and tighten the screws. you can now turn on the switch to begin shooting.

Output Power Adjustment

WARNING:

a. It is strictly prohibited to adjust the Trimpot while the PS600 is powered on. Before each time of adjustment, ensure the PS600 is turned off first then click the Test button. Failure to do so may cause electrical shock to the circuit.

b. Fine-tuning the output power with the Trimpot should not be considered an on-the-fly exposure compensation method during shooting, like the L/D wheels. It is only intended for adjusting the overall exposure tendency in flash photography.

The PS600 features an adjustable output power function to compensate for inaccurate flash exposure caused by a malfunctioning Camfollower or to customize personal flash exposure preferences. Each PS600 is factory-tested and precisely calibrated to GN20 before shipment. It is recommended to conduct test a few shots after receiving the PS600 without adjustment. **Proceed with adjustments only if they are truly necessary.**

The adjustment mechanism is located next to the boost transformer, with a corresponding access hole on the back cover, allowing convenient fine-tuning using a **2mm flathead screwdriver** without removing the cover.



The adjustment steps are as follows:

1. Insert the PS600 into the camera's socket, ensuring that the camera is loaded with film for adjustment. Set the L/D wheels in Neutral Position.
2. Take a photo of the Trimpot to record its initial position by CellPhone. Before starting adjustment with a screwdriver, turn off the PS600 and single click the Test button to discharge the main capacitor's energy.
3. Based on the results of previous test shots, use a screwdriver to adjust the Trimpot. **Rotating clockwise increases flash output, while rotating counterclockwise decreases it.** It is recommended to adjust in increments of 45 degrees or less each time. After making adjustments, turn on the PS600, wait for the STBY LED to light up, focus, and take a test photo with the film.
4. Wait for the film to develop, compare the results, and repeat steps 2 to 3 based on your observations.

Warning (Extremely IMPORTANT)

1. When using the PS600, especially when pressing the Test button or inserting a sync cable, do not point the flash directly at someone's eyes at close range. The intense flash can cause irreversible damage.
2. Although we have implemented comprehensive protective mechanisms to ensure both your safety and the integrity of the PS600 during use, particularly during operations such as battery replacement, it is crucial to carefully read this instruction manual before proceeding and follow the

steps outlined therein.

3. Please use high-quality batteries to ensure longer-lasting performance and minimize the risk of malfunctions.
4. Keep the PS600 away from high temperatures, moisture, and water sources. Avoid using it in extreme conditions such as rainy weather. This product is not guaranteed to function normally at or below 5 degrees Celsius. Do not use the product if it is damaged.
5. The above warnings are provided to prevent safety incidents and fires. We cannot guarantee safety problems caused by improper user operation, battery quality, excessive circuit aging, or provide explicit, implied, oral, or written assurances for these issues.