

User Manual

PatchMaster Lightning Capture is an extremely sensitive device to detect lightning designed to help photographers take lightning photos during day or night. The device has been designed based on microcontroller technology and has a response (lag) time in microsecond level. This is more than enough to capture the lightning events. Each unit is tested in various test environments after production to verify it is ready to be shipped.

Features:

- Extremely sensitive optical sensor to detect lightning events
- Response (lag) time in microseconds level
- No need to manual adjustment – self calibration based on light level
- Optical isolated output to fully protect the camera from any potential harms
- Hot shoe mount for mounting the device directly to your camera
- Power indicator LED
- Trigger indicator LED for simulating shutter output
- Powered by 9V alkaline battery
- Microcontroller-based design

Dimensions:

- Length : 3.93 in (100 mm)
- Width : 2.36 in (60 mm)
- Height : 1.38 in (35 mm)

Instructions:

1. Make sure the camera and the *PatchMaster Lightning Capture* are turned off.
2. Mount the trigger to the camera using the hot shoe mount.
3. Plug the release cable to the camera.
4. First turn on the *PatchMaster Lightning Capture* and then the camera.
5. Enjoy while the device is taking lightning photos for you.

Testing:

For sure, the best way for testing the *PatchMaster Lightning Capture* is examining it during a real storm. However, you still have other options to test the *PatchMaster Lightning Capture* until a real storm hits. A camera flash is the best device which can simulate a real lightning for testing purposes. Mount your device per the instructions given above, then fire the flash and verify *PatchMaster Lightning Capture* triggers the camera as expected. Enjoy it!

LEDs and Buttons



1. Power LED: Device status indicator LED. The LED lights when the device is working properly.

2. Trigger LED: Flash event indicator LED. The LED blinks when the lightning is detected.

3. ON/OFF Switch: The switch is used to turn the device on/off.

Working Modes:

Daytime: When you turn the device on, if the device decides that it is daytime, Power LED will blink for 2-3 times and then remain stable.

Night time: When you turn the device on, if the device decides that it is night time, Power LED will NOT blink but remain stable.

Disclaimer:

- Lightning can be DANGEROUS. We are not liable for any damage or personal injury associated with the use of the *PatchMaster Lightning Capture*. The *PatchMaster Lightning Capture* is intended for use as a camera shutter release device only and not any other purpose.
- The *PatchMaster Lightning Capture* is not waterproof. It should be treated and handled with the care of a camera and should not be dropped and/or exposed to extreme heat or moisture.
- All camera functions may not be available when using the *PatchMaster Lightning Capture*.

Troubleshooting:

- If the Power LED does not light:
 1. The switch may be OFF, make sure the switch is ON.
 2. The battery may be empty, replace the battery.
- If the Trigger LED is blinking continuously:
 1. The device may be in a strong static field, remove the device from the static field.
 2. Room lights may cause the device to false trigger, turn off the room lights.

Camera Settings

1. Set your camera on the tripod and make sure it is steady.
2. Put the camera to the Manual Focus mode.
3. If available, turn off the Image Stabilizer.



4. Set the camera focus to Infinity manually.



5. Turn the mode selection wheel to M (Full Manual).



6. Set the aperture between 4.0 and 8.0.
7. Set exposure time value to maximum 1/10 (This duration can be adjusted per the ambient light by the user.)



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