

<http://astrus.bymac.org>



## **ASTRUS** - for Astronomy Photography

*"Somewhere, something incredible is waiting to be known."* - Carl Sagan

- 4 time modes, including **QUICK MODE** to start shooting right away without complicated instructions.
- Range up to 10 meters away.
- Simple controls **ALL** on the outside of the device.
- Can also be used as a simple remote to trigger still single photos.
- Firmware upgradable, for future functions.
- Extended support from customer feedback.

Thank you for purchasing **Astrus Long Exposures Remote** from **byMaC Inventions**. This device is suited for having your camera shoot long exposure mostly used on Astronomy Photography. Choose exposure and shoot!

**There is a ASTRUS remote for each major brand of camera. Check compatibility list at the website.**

### **Tempus&Astrus device - T&A**

This section covers the T&A model only. If yours is a regular ASTRUS, please move on to the next section.

**T&A - Tempus&Astrus model.** T&A is like a TEMPUS and an ASTRUS remote all in one device.

You can switch between TEMPUS and ASTRUS when you switch it ON:

1 - with the remote OFF, press and hold MODE button.

2 - with MODE still pressed, flick the power switch on the back of the unit. you can then let go of MODE button.

If LED is BLUE you are in TEMPUS time-lapse mode. If the LED is RED, you are in ASTRUS astrophotography mode.

**The device will be in the same mode every time you turn it on, UNTIL you repeat this process to change between ASTRUS and TEMPUS.**

If you are a T&A user, disregard QUICK START MODE further on this manual.

When using T&A in ASTRUS mode, please refer to this manual.

When using it in TEMPUS mode, please refer to the TEMPUS manual

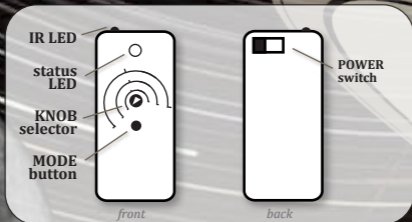
## This package includes

ASTRUS Long Exposures Remote (one of its models)

This MANUAL

1x CR2025 or CR2032 battery already installed

**NOTE:** *remove plastic tab on the side before operation*



## QUICK START MODE (Mode not available for T&A device):

The fastest way to start shooting with your ASTRUS Remote.

- 1 - Set camera to REMOTE mode. Set it to BULB, Noise Reduction OFF, and with your ASTRUS turned OFF, press and hold the MODE button.
- 2 - With MODE still pressed, flick the power switch to ON, on the back of the ASTRUS unit. LED will lit briefly and them go off.
- 3 - after desired interval, release MODE button.

**NOTE:** EXPOSURE TIME, equals the time you've held on to the MODE button.

When you release the button, the device gives you a fast blinking LED for 5 seconds. Time enough for you to position the remote pointing the camera and get out of the way. ASTRUS pauses 2 seconds from one exposure to the next.

## Normal modes (longer exposures):

### **MODE 1:** 1 to 10 seconds intervals.

- 1- turn ON the device flicking the power switch on the back LED will stay ON.
- 2- Turn the knob on the center, to select EXPOSURE TIME. In this mode, turning the knob will select from 1 to 10 seconds interval.
- 3- Press MODE button ONCE.

If you've made a clear press of the button, LED will blink once, signaling MODE 1 selected.

The device will then give you a fast blinking LED for 5 seconds. Time enough for you to position the remote pointing the camera and get out of the way.

LED will blink fast with each shoot, and blink long between exposures.

### **MODE 2:** 10 to 60 seconds intervals.

- 1- turn ON the device flicking the power switch on the back LED will stay ON.
- 2- Turn the knob on the center, to select EXPOSURE TIME. In this mode, turning the knob will select from 10 to 60 second interval.
- 3- Press MODE button 2 TIMES.

If you've made a clear press of the button, LED will blink 2 times, signaling MODE 2 selected.

The device will then give you a fast blinking LED for 5 seconds. Time enough for you to position the remote pointing the camera and get out of the way.

LED will blink fast with each shoot, and blink long between exposures.

### **MODE 3:** 1 to 30 minutes intervals.

- 1- turn ON the device flicking the power switch on the back LED will stay ON.
- 2- Turn the knob on the center, to select EXPOSURE TIME. In this mode, turning the knob will select from 1 to 30 minute interval.

3- Press MODE button 3 TIMES.

If you've made a clear press of the button, LED will blink 3 times, signaling MODE 3 selected.

The device will then give you a fast blinking LED for 5 seconds. Time enough for you to position the remote pointing the camera and get out of the way.

LED will blink fast with each shoot, and blink long between exposures.

**When shoot session is over, remember to turn OFF the ASTRUS remote.**

Remember that the LED only flashes when a shot is requested to the camera, so it is easy to forget to turn OFF the remote draining all the battery.

## **Replacing Battery**

**ASTRUS Long Exposures Infrared remote** operates with **1 x CR2025** or **1xCR2032 battery INCLUDED**. It will eventually run out, and have to be replaced.

To do so:

- Gently press DOWN and TO THE FRONT away from you, on the lid to open it. Do this CAREFULLY, there are wires attached to it.
- The battery will be on bottom section of the case in a holder. With the tip of a small flat screwdriver, slide it out and replace with a new battery.
- When inserting the new battery, be sure the top connector maintains a good contact connection to the top of the battery.
- Inverse steps to assemble back the device.

Please enjoy your ASTRUS remote with your camera and  
**SHARE YOUR WORK WITH US**  
so we can post them on our website!

## Troubleshoot:

**Problem:** LED blinks as shooting picture, but camera does not shoot.

**Solution:** Set camera to REMOTE mode.

**Solution 2:** camera too far way from remote, or obstructed view.

**Solution 3:** battery is low. When battery needs replaced, LED will still flash, but it has no power left for IR transmission. Replace battery.

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**Problem:** I'm pressing MODE 1, 2 or 3 times, but LED goes back to constant ON again.

**Solution:** you are pressing too slow or too fast. You should press 2 presses a second (give or take). It ASTRUS can't figure out what mode you want, it goes back to waiting for you to tell it again.

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**Problem:** My battery drained too fast!

**Solution:** never forget to turn OFF remote after shooting. Since while in shooting mode, the LED only blinks when it takes a shot, its easy to forget to turn it OFF and drain the battery.

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