


ESPRESSIF ESP32-MINI-1 AMH Hand Controller User Guide

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ESPRESSIF

**AMH Hand Controller
User Guide**

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

IC RSS-Gen antenna statement

This radio transmitter (IC: 8853A-C8) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated.

Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Radiation Exposure Statement:

The equipment complies with ICSED radiation exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada, Industry Canada (IC) Notices

This device complies with Industry Canada's license-exempt RSS. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAW") limits when operated in portable exposure conditions.

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Light Indicator:

You can learn the status of the AM5 mount through the light colors once you connect the hand controller to AM5 and power them.

Red: Equatorial Mode

Green: Altazimuth mode

Light on: High sidereal tracking rate

Light off: Low sidereal tracking rate



Directional Control Joystick:

The joystick knob can be pushed in multiple directions. Pressing down on it switches between high and low slew speeds. There are 1, 2, 4, and 8x sidereal rates at low speed, and 20 to 1440x sidereal rates at high speed.

How to switch between high and low speed: The default mode is at low tracking speed. Press down on the

joystick to switch to a high tracking rate. Press again to switch back to the low tracking

tracking Button:

Press the button, backlight up: AM5 is now in tracking.

One press again, backlight off: Cancelling tracking.

Cancel Button:

Cancel: One press to cancel GOTO or other functions. Long press for 3 seconds to go to zero position.

Equatorial/Azimuth Mode Switching: When AM5 Mount power is off, long press the cancel button to activate the mount again along with the switch function. To enter Altazimuth mode, press the cancel button until the light indicator turns green. (How to identify the current mode of the mount: After boot, Light Indicator red means Equatorial mode; Light indicator green means Azimuth mode.)

WiFi: The WiFi function has been integrated into the hand controller, which allows a wireless connection between the hand controller and ZWO ASIMount APP or ASIAIR.

If you forget the hand controller's WiFi password, you can press and hold the tracking and cancel buttons, unplug its cable, and then re-plug in, keep pressing the buttons for 3 seconds until the indicator light flashes. The hand controller WiFi password will be restored to the default setting:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

FCC ID:2AC7Z-ESP32MINI1

FCC statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

12345678.

Documents / Resources

<p><small>ESPRESSIF SYSTEMS, INC.</small></p> <p><small>The user is responsible for ensuring that the equipment complies with the following conditions: 1) The user must not use the equipment in a way that causes harmful interference to other users. 2) The user must not use the equipment in a way that causes interference to the equipment of other users.</small></p> <p><small>ESPRESSIF SYSTEMS, INC.</small></p> <p><small>The user is responsible for ensuring that the equipment complies with the following conditions: 1) The user must not use the equipment in a way that causes harmful interference to other users. 2) The user must not use the equipment in a way that causes interference to the equipment of other users.</small></p> <p><small>ESPRESSIF SYSTEMS, INC.</small></p> <p><small>The user is responsible for ensuring that the equipment complies with the following conditions: 1) The user must not use the equipment in a way that causes harmful interference to other users. 2) The user must not use the equipment in a way that causes interference to the equipment of other users.</small></p> <p><small>ESPRESSIF SYSTEMS, INC.</small></p> <p><small>The user is responsible for ensuring that the equipment complies with the following conditions: 1) The user must not use the equipment in a way that causes harmful interference to other users. 2) The user must not use the equipment in a way that causes interference to the equipment of other users.</small></p>	<p>ESPRESSIF ESP32-MINI-1 AMH Hand Controller [pdf] User Guide</p> <p>ESP32MINI1, 2AC7Z-ESP32MINI1, 2AC7ZESP32MINI1, ESP32-MINI-1 AMH Hand Controller, ESP32-MINI-1, AMH Hand Controller</p>
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