T3 VTX

Quick Start Guide



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Wiring



Binding





1. Connect the power supply of the Air unit, to turn on the VRX.

2. Press the binding button for more than 3 seconds, wait for the green light to flash quickly, and release the button.

3. Press the VRX Unit M button for more than 3 seconds, wait for the green light to flash quickly, and release the button.

4. The device enters the binding state at this time. Wait for about 5 to 10 seconds, and the green lights on both units will turn solid green. The binding is completed and the screen should displayed normally.



This device only supports one-to-one pairing.

Firmware Upgrade

Upgrade the Air Unit through the Ethernet cable to connect with computer.



Upgrade the Air Unit

1. Open the computer browser, and enter "http://192.168.1.166" in the URL bar, select the "system information" page, select the "upgrade firmware" menu, click "upload" to select the firmware (the file name is usually starting with "upgrade").

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		NetWork	Video	System		
Ø System Info	Upgrade Syste	em : Select file				
안 Upgrade	Upload					

2. During the upgrade process, prompts will appear, "upload successful", "updating", and "restarting". The appearance of "restarting" indicates the update is complete. At this time, the device will automatically restart and start working. You can close the browser.

Serial port

1. The data transmission serial port Tx and Rx in the SH1.0-6P interface are cross-connected with the Rx and Tx on the flight controller (Tx to Rx, and Rx to Tx) for data transmission and OSD functions. Mavlink and MSP protocols are supported.

2. For Ardupilot type flight controller, set SERIALX_PROTOCOL=2.



3. For MSP type flight controller, set the correct MSP port according to wiring.

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🖊 Setup	Identifier	Configuration/MSP	Serial Rx	Peripherals	
🖄 Ports	USB VCP	115200 •		Disabled	▼
Configuration	UART1	115200 •		Disabled	•
Power & Battery	UART2	115200 •		Disabled	•

A Serial port baud rate supports 115200 and 57600 (automatically select once powered on).

Status indicator

Air Unit				
Binding	Green light flashing			
Binding completed/connected	Green light steady on			
Camera successfully detected	Blue light flashes quickly			
Camera not found	Blue light flashes slowly			

Memory card

1. Insert the microSD card to start automatic recording, and automatically stops when the storage is full. The file system supports both FAT-32 and exFAT formats.

2. It is recommended to use a high-speed microSD card with 16-256GB capacity.

Image transmission module (VTX)

Model: T3 VTX

Product name: T3 digital high-definition image transmission (Air Unit)

Communication frequency: 5.18-5.24GHz, 5.745-5.825GHz Transmit power (EIRP): FCC≤30 dBm, CE:<14dBm; SRRC:<20dBm Interface: SH1.0-4P, SH1.0-6P, SH1.0-8P Mounting hole spacing: 2x25.5 / 4x20 mm Dimensions: 36x36x11.8 mm External storage: Support microSD card (16-256GB) Recording specifications: 1080p@60fps Weight: 25g (including heat sink) Operating temperature: 0°C to +50°C Available frequency points: 9 Voltage input range: 6-28V DC Supported flight control systems: ArduPilot, Betaflight, iNav

Camera module

Model: T3 Camera module Image sensor: 1/2.8-inch 2MP 16:9 sensor Resolution: 1080P/60FPS Aspect ratio: 16:9 Lens (standard): 2.9mm HD120 Aperture: F1.4 FOV: 120° Lens (optional): 2.2mm HD155 Aperture: F1.9 FOV: 155° Shutter type: rolling shutter Weight: 13g Dimensions: 20x20x30mm/20x20x25mm Coaxial cable length: 130mm

Antenna

Name: Omnidirectional antenna Polarization direction: Left-hand circular polarization (LHCP) Working bandwidth: 5500-6000 MHz Input impedance: 50Ω **VSWR:** ≤1.5 Interface type: IPEX-1 Dimensions: 15x122 mm Weight: 2.5 g (single)