ASCENT VRX PRO

User Manual

V1.1



© 2026 CADDXFPV All Rights Reserved.

All copyrights and ownership of this manual belong to Caddx Technology (Shenzhen) Co., Ltd. (referred to collectively as "CADDXFPV"). No individual or entity may reproduce, scan, store, distribute, reprint, sell, transfer, 56 or use all or part of the contents of this manual for personal or third-party purposes without written authorization from CADDXFPV. This manual and its contents are solely intended for the operation and use of this product and shall not be utilized for any other purposes.

Quick Keyword Search

For PDF electronic documents, use the search function to locate keywords. On Windows, press Ctrl+F in Adobe Reader; on Mac, press Command+F to search for target keywords.

Directory Jump

Users may navigate the document structure via the table of contents; click on any heading to jump directly to the corresponding page.

Document Printing

This manual supports high-quality printing.

Reading Instructions

Symbol Legend

⚠ Important Warning Operation Tip Reference Info

Available Documentation from CADDXFPV

CADDXFPV provides the following supporting documents for Ascent VRX Pro:

1. 《Quick Start Guide》
2. 《User Manual》

Recommended workflow: First verify complete product and accessory packaging, read this manual thoroughly, watch official tutorial videos, and then follow the Quick Start Guide for basic operation. Before use, ensure full familiarity with all component functions, operational restrictions, and local flight-related laws and regulations. For technical inquiries, contact CADDXFPV or its authorized distributors.

Additional Resources

Visit the official website to access more information about Ascent VRX Pro:
https://www.caddxfpv.com.cn/

Preface

Thank you for choosing the Walksnail Ascent VRX Pro high-definition digital FPV video receiver.

This unit serves exclusively as the receiving terminal and must be paired with a Walksnail Ascent series airborne VTX transmitter to form a complete video transmission link, designed for real-time HD image reception on racing drones and aerial photography UAVs.

This document fully covers hardware installation, wiring, function configuration, and firmware upgrade workflows. Read the entire manual before powering on the unit—incorrect operation can result in permanent hardware damage.

Critical Safety Warnings

⚠ Hazards: Improper operation may cause hardware damage or safety incidents.

(1) Strict power supply voltage range: 7.4V~25.2V (2S~6S LiPo batteries). Never connect 7S or higher lithium batteries, or regulated power supplies exceeding 25.2V. Overvoltage will permanently burn out the power management chip, voiding all warranty coverage.

(2) Do not plug/unplug antennas while the unit is powered on! Unloaded RF transmit/receive operation will destroy the RF chip. Cut all power and wait 30s for full hardware power-down before installing or removing antennas.

(3) Do not block the chassis cooling vents. Poor heat dissipation during prolonged high-load operation triggers overheat protection, signal packet loss, and irreversible chip damage in severe cases.

(4) This receiver is only compatible with Walksnail Ascent series VTX transmitters; cross-series hardware cannot establish a video link.

(5) This device is classified as radio transmitting/receiving equipment. All users must comply with local radio administration laws and regulations. Unauthorized hardware modification, RF power boosting, and operation within restricted flight zones or frequency bands are prohibited.

(6) Do not operate the unit outdoors in rainy, high-humidity, or coastal salt-spray environments without protective casing. Moisture ingress will cause motherboard short-circuiting and corrosion.

General Usage Precautions

(1) Prior to operation, fully understand and abide by all local laws and regulations. Users running modified, cracked firmware or operating on unlicensed amateur radio bands may face legal penalties.

(2) This product requires professional FPV operational knowledge. Users must possess basic hands-on skills and safety awareness, and operate the hardware in full compliance with official specifications.

(3) When Standby Mode is enabled and the UAV flight controller is disarmed, maximum transmit power for both VTX and VRX is capped at 110 mW.

(4) The VRX supports up to 3 operating channels, with configurable bandwidth options: 5 MHz, 10 MHz, or 20 MHz.

(5) For stable performance, always upgrade both VTX and VRX to the latest matching firmware version before initial use.

■ Product Overview

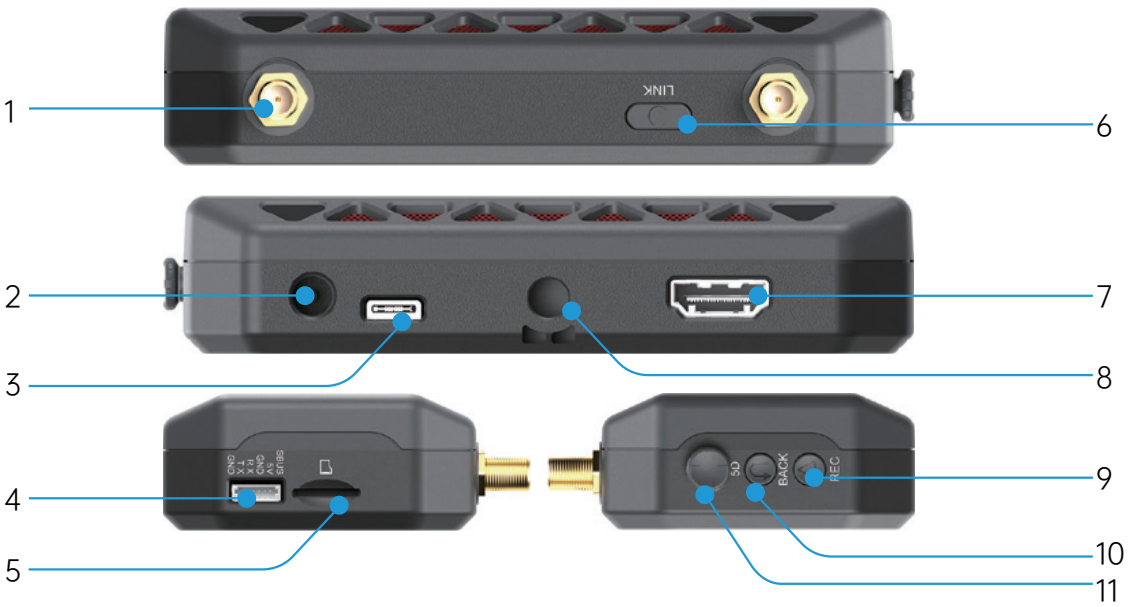
The Walksnail Ascent VRX Pro is a professional-grade next-gen HD digital FPV receiver developed by CADDXFPV. It features upgraded dual circularly polarized diversity receive antennas with ⩾97% radiation efficiency and average 2dBi gain, delivering a maximum transmission distance of 8 km in open line-of-sight environments. Supporting full-spec high-resolution, high-frame-rate video decoding paired with an optimized proprietary transmission protocol, it drastically improves anti-interference performance and ultra-low latency, catering to all mainstream FPV flight scenarios.

■ Package Contents Checklist

Inspect all included accessories immediately after unboxing. Contact your authorized dealer for after-sales support if any items are missing, damaged, or defective.

Ascent VRX Pro ×1	
Red Bird Pro Antenna ×2	 Dual 5.8GHz antennas for stable video signal reception.
HDMI Cable ×1	 Transmit lossless decoded HD video signal from VRX HDMI OUT to FPV goggles, monitors, or televisions. Connect one end to the receiver HDMI OUT port and the other to the display HDMI input port.
1-to-2 DC Power Splitter Cable ×1	 Delivers stable lithium battery power to the receiver. Connect one terminal to the battery power source and the DC plug to the receiver power port for startup.
3M Double-Sided Adhesive Tape ×1	
Quick Operation Guide Card ×1	

Product Hardware Layout



(1) Dual RP-SMA Antenna Ports: Dual diversity receive ports, compatible with LHCP antennas, operating frequency band: 5.725–5.829GHz.

(2) DC Power Input Port (5.5×2.1mm): Primary power supply interface, rated for 7.4V–25.2V DC input.

(3) USB-C Port: For PC-connected firmware upgrades, system log export, and temporary debug power supply (not suitable for long-duration flight power input).

(4) Serial Passthrough Port: Flight controller linkage, serial command control, and peripheral expansion.

(5) Micro SD Card Slot: Stores flight recordings and offline upgrade firmware files; maximum supported capacity: 256GB, exFAT format.

(6) Link Bind Button: Initiates transmitter-receiver pairing mode.

(7) HDMI OUT Port: Standard high-definition video output for FPV goggles and external monitors.

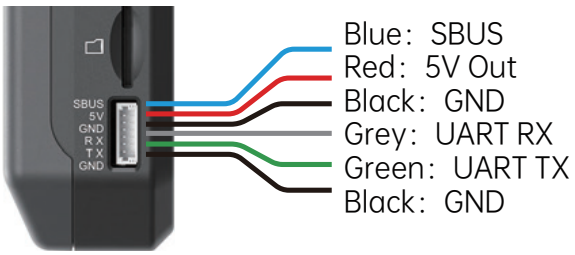
(8) Bottom 1/4" Standard Tripod Thread: Mounting point for tripods and monitor brackets.

(9) Record Button: Toggles local onboard video recording start/stop.

(10) Back Button: Multi-function key to exit menu levels and reset HDMI output; also resolves high-frame-rate HDMI compatibility issues when held.

(11) Way Navigation Joystick: Full menu control component—navigate menu cursors with directional inputs; press center to confirm selections and save configuration changes.

Wiring Diagram & Serial Pin Definition



Pin Functions	Description
Blue	Receives remote controller SBUS signal.
Red	Stable 5V power output for low-voltage peripherals and signal modules.
Black	Common ground reference.
Gray	VRX receives flight controller data (flight voltage, attitude, arm status, etc.) for OSD overlay.
Green	VRX transmits internal device status data to the flight controller.

Button Functions

Link button
Short press to enter binding mode; press and hold for 8 seconds to enter firmware upgrade mode.

5D button
Navigate menu selection frames via up/down/left/right directional inputs; short press the center key to confirm or cancel selections.

Back button
Short press to return to the previous menu or active mode; press and hold for 8 seconds to reset HDMI output to 720P 60fps.

Record button
Press to start or stop video recording

Antenna Installation

VRX signal reception sensitivity, maximum transmission range, and signal stability directly depend on proper antenna installation. Follow the steps below strictly:

(1) Fully power down the VRX unit and disconnect the DC power cable completely.

(2) Remove the included Red Bird Pro LHCP antennas from packaging.

(3) Align each LHCP antenna with the dual RP-SMA antenna jacks on the top chassis; twist clockwise by hand with moderate torque to secure—avoid over -tightening to prevent slipping and RF connector damage.

(4) Adjust the angle of both antennas post-installation to minimize signal interference and blind zones.



⚠
- Never power on the VRX without fully installed antennas. Plugging /unplugging antennas while powered on will burn the RF module due to unloaded operation.
- Avoid squeezing or bending antenna rods during storage; impact damage to RP-SMA internal pins causes single-side receive failure.
- The included Red Bird Pro antennas deliver 2dBi average gain. Third -party replacement antennas must support the 4.9–7.0 GHz frequency band with LHCP polarization; otherwise, the rated 8 km maximum transmission distance cannot be achieved.

Connecting the Receiver to Display Devices

Standard Wiring Sequence (Recommended to avoid short circuits)

Complete connections in the following exact order to prevent hardware short -circuit damage:

(1) (Optional SD Card Insertion) With the unit fully powered off, insert an exFAT -formatted Micro SD card into the side chassis Micro SD slot.
Maximum supported capacity is 256GB; skip this step if recording is not required.



(2) HDMI Video Connection: Take the supplied HDMI cable, plug one end into the chassis HDMI OUT port (side bottom), and connect the opposite end to the HDMI IN input of your FPV goggles, monitor, or television.



(3) Final Power Connection: Insert the 5.5×2.1mm male plug of the 1-to-2 DC splitter cable into the receiver DC power port, then connect the split battery terminals to a 2S–6S lithium battery (7.4V–25.2V) to power on the unit.

⚠
- Inferior HDMI or DC power cables introduce excessive voltage drop, resulting in random unit restarts and flickering video feed.
- Do not connect 7S+ lithium batteries or regulated power supplies over 25.2V to the DC port—overvoltage will destroy the power chip instantly.
- The USB-C port is only intended for PC firmware upgrades and temporary debug power; it cannot supply power for full flight sessions—always use the DC primary power input for flight operation.
- Always short-press the REC record button to stop recording before powering off the unit. Direct power loss without stopping recording corrupts MP4 video files and renders them unplayable.
- Micro SD cards have limited write-cycle lifespans. Back up critical flight footage to a computer promptly, and perform in-menu SD card formatting regularly.

Binding Pairing (Mandatory for new units, hardware swaps, or factory resets)

Complete this pairing process when using the hardware for the first time, switching to a new VTX transmitter, or restoring factory settings:

(1)Pre-Operation Hardware Check:
Ensure both VRX antennas are fully tightened, the HDMI display device is connected and functional, the airborne VTX antennas are securely mounted, and both VRX and VTX units are powered off.

(2)Sequential Power-On:
First connect DC power to the VRX and wait for its self-test beep sequence to complete; then power on the drone airborne VTX and wait for its startup self-test to finish.

(3)Activate Pairing Mode: Short-press both the VRX LINK bind button and the airborne VTX bind button simultaneously:
① VRX Status: Intermittent beeping ("beep... beep... beep...") to indicate active pairing search state.
② VTX Status: Unit indicator LED turns solid red.
(4)Successful Pairing Confirmation
① VRX buzzer stops intermittent pairing beeps
② VTX indicator LED switches to solid green

③ The connected display automatically outputs live drone HD video feed with functional OSD battery voltage and channel data overlay

(5)Link Retention:
Once paired, the VRX and VTX will auto-reconnect automatically on subsequent power cycles. Repeat this full pairing workflow if swapping to a new airborne VTX transmitter.

⚠
- Do not operate the 5-way joystick, REC, or BACK buttons during pairing —interruptions will terminate the binding process.
- Frequency hopping conflict: If the "Hop" auto-scan frequency hopping function is enabled in the VRX channel menu, manual channel switching is disabled. Disable frequency hopping before initiating pairing, and re -enable it post-binding as needed.

■ Status indication

VRX Buzzer Status	
Link state	DI.... DI.... DI.... DI....
Upgrade firmware	DI..... DI..... DI..... DI——
Upgrade failed (No SD card or firmware detected)	DI.. DI.. DI.. DI..
Boot failure (Reboot or re-upgrade)	DI.. DI..... DI.. DI.....

■ Firmware Upgrade Procedures

⚠ Always synchronously upgrade both VRX and VTX to matching firmware versions to eliminate protocol compatibility errors.

Offline Upgrade via Micro SD Card

(1) Download the dedicated VRX firmware file from the official download center page: https://www.caddxfpv.com/pages/download-center

(2) Copy the unmodified firmware file directly to the root directory of the SD card —do not rename the file or store it inside subfolders.

(3) Insert the SD card into the VRX slot and connect stable DC power to the receiver.

(4) Hold the LINK bind button for 15 seconds; the unit restarts and enters automatic firmware upgrade mode with continuous long buzzer tones.

(5) The full upgrade process takes approximately 60 seconds—do not cut power or press any buttons during the entire procedure.

(6) A continuous 5-second long buzzer tone signals successful upgrade completion; the unit will auto-restart.

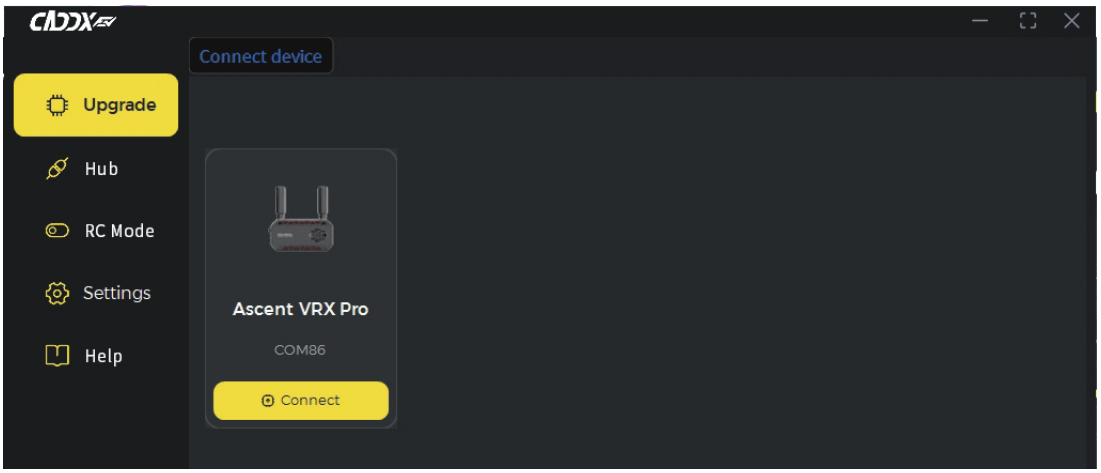
(7) After upgrading, navigate to the settings menu and execute the Restore Factory Defaults function.

USB PC Tool Upgrade

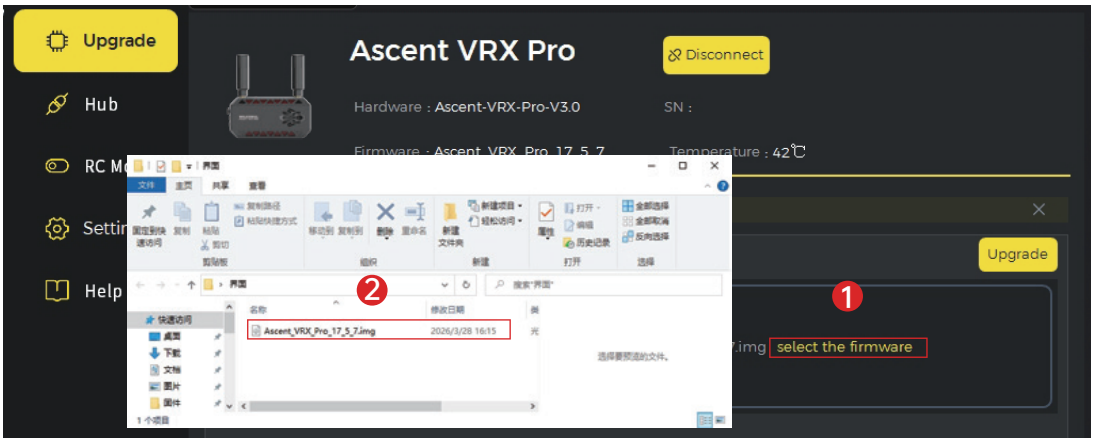
(1) Download the latest matching firmware file via official CADDX distribution channels: https://www.caddxfpv.com/pages/download-center

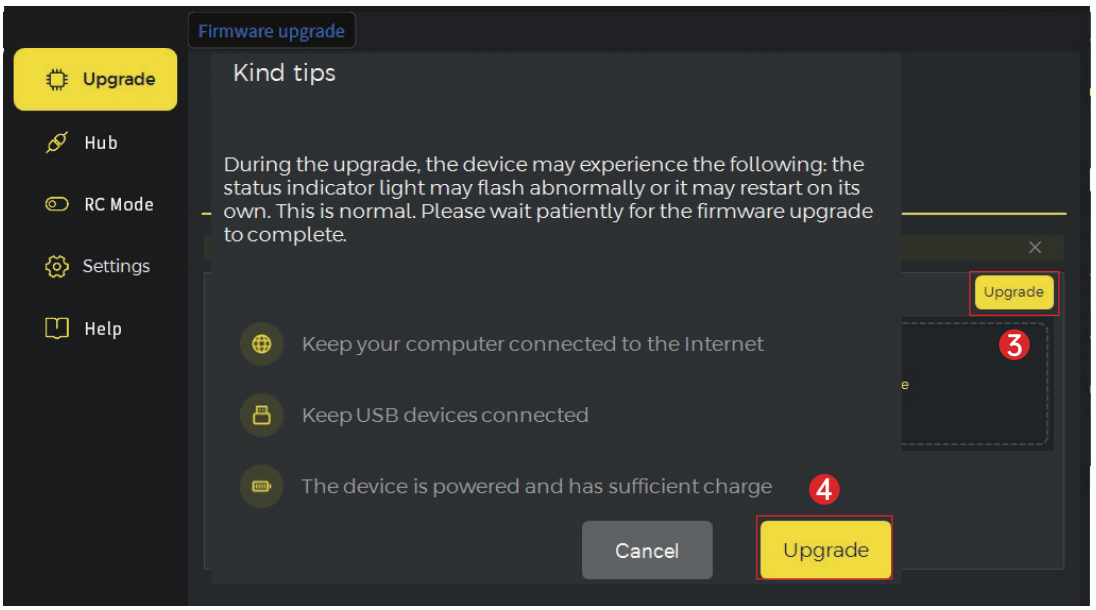
(2) Connect the VRX receiver to a computer with a USB-C data cable, and supply DC power to the receiver simultaneously.

(3) Launch the Caddx_PC_Tool upgrade software; the program will automatically detect the connected Ascent VRX Pro hardware.

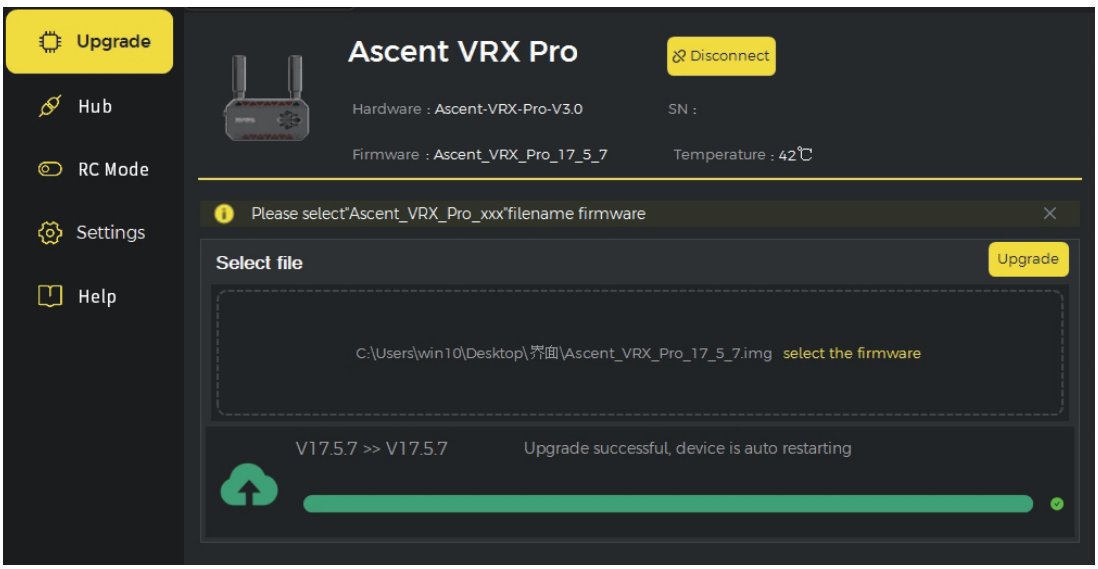


(4) Select the pre-downloaded firmware file in the software interface and click the upgrade button to initiate firmware flashing.





(5) Wait for the progress bar to complete fully; disconnect the USB cable and power supply only after the software displays an upgrade success notification.

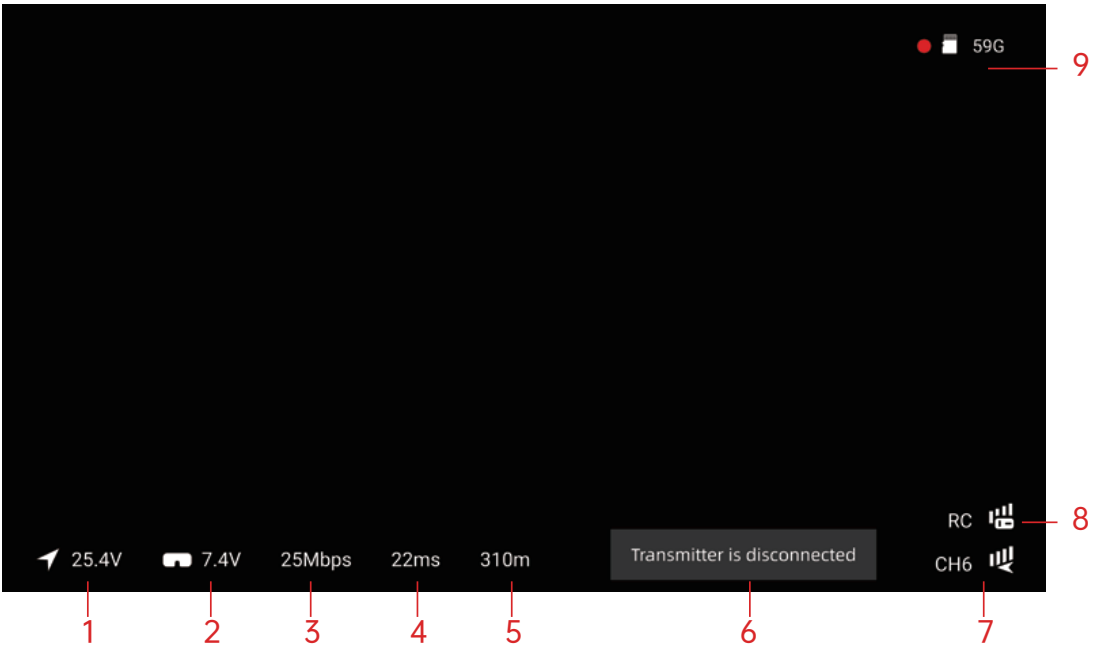


⚠ Universal Upgrade Critical Warning
Power disconnection mid-upgrade (via either SD card offline or USB PC tool method) will corrupt the device firmware and render the hardware unbootable.

On-Screen Interface Introduction

Main Live FPV OSD Interface

After successful VTX-VRX pairing and startup, the connected display outputs a live video feed with overlay OSD status data along the bottom and side edges. Each OSD element definition is listed below:



1-VTX input voltage:
Detect VTX voltage, intelligently identify the voltage of 2, 3, 4, 6 string LiPo batteries, alarm when a single battery is lower than 3.5V, and alarm in red font when the voltage is too low.

2-VRX input voltage:
Detect VRX low battery alarm, intelligently identify the voltage of 2, 3, 4,6 string LiPo batteries, alarm when a single battery is lower than 3.5V, red font and buzzer alarm when the voltage is too low.

3-Real-time Transmission Bitrate:
Display real-time transmission bitrate in Mbps.

4-Time delay:
Displays the total delay from the transmission of images captured by the VTX camera to the ground end.

5-Ranging mode:
The function of calculating the transmission distance from VRX to VTX according to the wireless transmission delay, the signal is interfered will lead to error amplification.

6-Status prompt:
The text prompts information that needs attention in the current state.

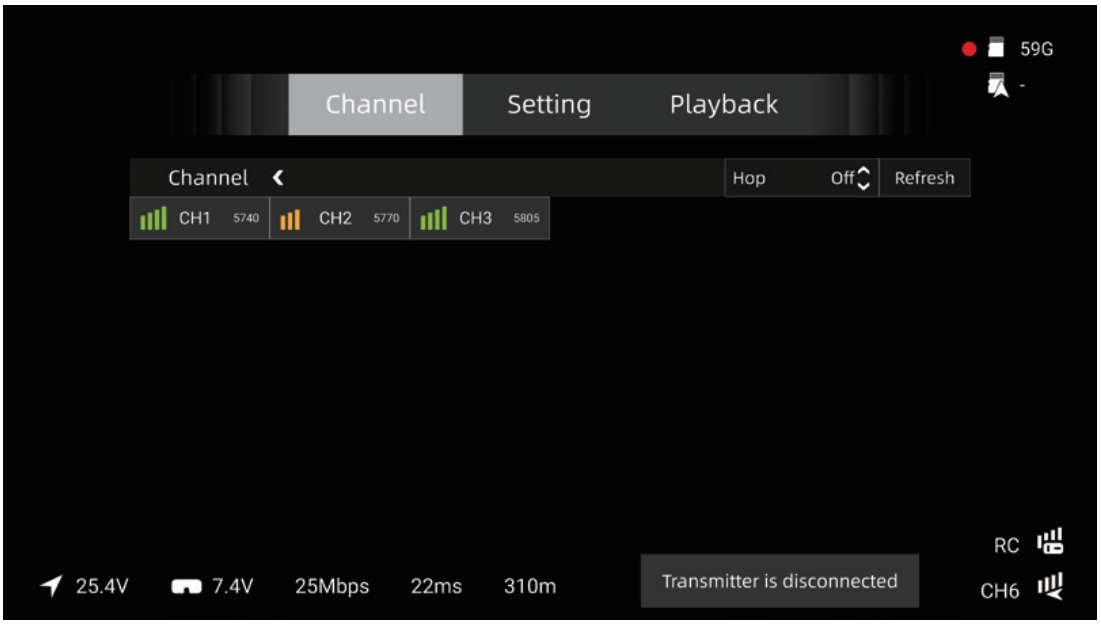
7-Current channel:
Display the current setting channel; the signal grid has 5 states: 4 grids, 3 grids, 2 grids, 1 grid, and blank.

8-VRX SD card status:
There are five signal bar states: 4 bars, 3 bars, 2 bars, 1 bar, and no bar. When no remote controller signal is detected by the image transmission module, this icon will be hidden.

9-Remote Controller Signal Status:
Display the status and remaining capacity of the VRX SD card. When recording, the red circle flashes to prompt, the status of the SD card not detected is displayed as NO SD, and the status of the memory is full is displayed as -.

Menu Tab: Channels

Access the top navigation menu via the 5-way joystick and switch to the Channels tab for channel scanning and manual frequency switching:



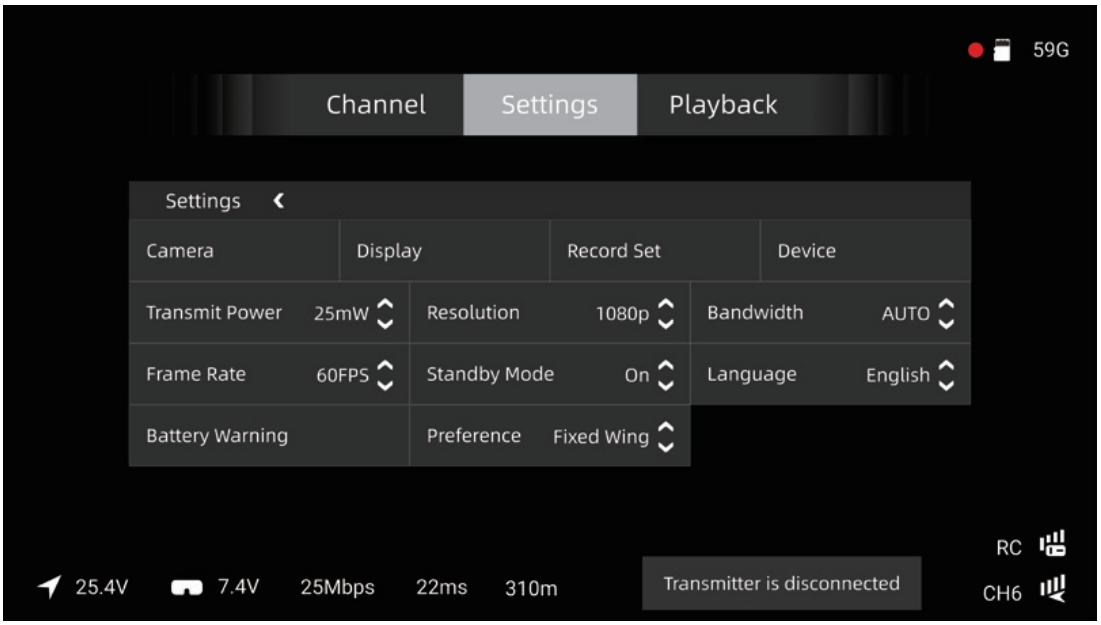
1-Channel List:
Displays the interference status of each channel. Signal strength is shown as 4 bars, 3 bars, 2 bars, 1 bar, or empty. An empty signal bar indicates the channel is occupied and cannot be selected. A white outline represents the selection box. Press the confirm button to highlight a channel, and the highlighted one is the current channel.

2-Frequency Hopping Functio:
When frequency hopping is enabled, the goggles will automatically select the channel with the least interference. Manual channel switching is not available in this mode.

3-Refresh Button:
Click Refresh to re-scan all channels and update their interference status.

Menu Tab: Settings

Navigate to the Settings tab, split into four sub-categories: Camera, Display, Recording, and Device, containing all adjustable operational parameters.



1-Camera Submenu (VTX Image Quality Adjustments)
(1) Scene Preset: Standard / Racing imaging profiles, optimized for aerial photography and racing drone use cases, respectively

(2) Exposure: EV-0 / EV±0.3 adjustable exposure levels to balance brightness for high-brightness and low-light environments

(3) Saturation: Auto / 1–10 numeric tiers; higher values produce richer color saturation, auto mode dynamically adapts to ambient lighting

(4) Sharpness: Auto / 1–10 adjustable detail enhancement; higher values increase edge definition; auto mode adapts to frame content

(5) Contrast: Auto / 1–10 tiers; higher values widen light/dark contrast range, auto mode optimizes scene shadow and highlight detail

(6) White Balance: Auto adaptive color temperature; manual adjustment range: 4000K–7000K to correct cool/warm light color cast

(7) Image Rotation: Fixed options: 0° / 180°, for inverted camera mounting setups

(8) Aspect Ratio: Locked to standard 16:9 wide-screen format, compatible with all mainstream monitors and FPV goggles

(9) 3D Noise Reduction: Auto / Low / Medium / High / Disabled five-tier noise suppression to reduce grain in low-light footage; higher settings deliver cleaner video with mild softness tradeoff

2-Display Submenu (HDMI & OSD Visual Configuration)

(1) Debug Info Toggle: Show/hide low-level hardware diagnostic data (RF signal, chip temperature, etc.) for troubleshooting; disable for regular flight to avoid visual clutter

(2) Screen Brightness: Adjust HDMI output backlight intensity for bright outdoor or dim indoor viewing environments

(3) Focus Aids: Enables center-frame focus marker to lock shooting subjects during flight and improve framing precision

(4) Custom OSD Source: Toggle flight controller OSD data input sources: Auto Detect / Betaflight / INAV / ARDU / FTTC / KISS / QUIC / Disabled

(5) OSD Positioning: Free coordinate adjustment for voltage, distance, bitrate, and other flight telemetry overlays to avoid blocking critical flight visibility

(6) Font Upgrade: Local or online refresh of the system OSD font library to improve text clarity and display compatibility

(7) Custom Font Import: Upload custom font files to replace default OSD text styling for personalized interface visuals

(8) Frame Guide Adjustment: Modify framing border position and size via Move / Zoom / Left Shift / Right Shift / Up Shift / Down Shift controls

(9) Frame Guide Toggle: Global enable/disable switch for composition-assist framing borders

(10) Goggle Icon Style: 3 built-in headset indicator icon presets + full hide option for streamlined interface aesthetics

3-Recording Submenu
(1) Video Capture Configuration.

(2) Recording Hardware Target: Sync Recording/ Airborne VTX Only/ GroundVRX Only three capture mode options to split footage storage between transmitter and receiver

(3) Auto Record Trigger: Auto-start recording on UAV arm, auto-stop on disarm; enable/disable this flight-controller-linked function

(4) Loop Recording: Sync Loop / VTX Only Loop / VRX Only Loop / Disabled. Automatically overwrites the oldest footage once storage capacity reaches maximum

(5) Format Local SD Card: One-click full erasure of all video and data stored on the receiver Micro SD card—back up footage before executing this operation

(6) Format Airborne VTX Storage: Wipes all recorded footage saved to the onboard VTX internal memory

(7) Single Clip Duration: 5 min / 10 min / 30 min / Unlimited continuous recording until storage capacity depletion

(8) Post-Disarm Recording Delay: 0–10 second hold timer (1 s incremental steps) to prevent last-second footage loss when landing and disarming the drone.

4-Global Device Settings
(1) Buzzer Volume: 1–10 adjustable alert loudness tiers

(2) Distance Readout Toggle: Global enable/disable for flight distance telemetry overlay and audio alerts

(3) Signal Loss Alert: Notification modes for video link dropout: Popup Warning / Buzzer Beep / Disabled

(4) Restore Factory Defaults: Resets all receiver custom configuration to original factory preset values, with confirmation/cancel prompts—all user-adjusted parameters will be erased

(5) Reset VTX Defaults: Restores all airborne transmitter VTX settings to factory presets, clearing all custom transmitter configuration

(6) Device Firmware Info: Displays current VRX and VTX firmware versions, hardware revision numbers for version matching and fault diagnosis

(7) Built-In Operation Guide: Embedded concise hardware operation reference for quick lookup of basic workflows

(8) Ground Recording Bitrate: Adjustable video encoding bitrate for local VRX capture: 2M / 5M / 10M / 15M / 20M / 30M / 40M / 50M. Higher bitrates yield superior video quality at the cost of increased storage consumption

(9) Anti-Flicker Filter: Mitigates rolling horizontal band artifacts caused by indoor artificial lighting and variable-frequency light sources

(10) VRX UART Serial Mode: Communication protocol selection for flight controller integration: ELRS Passthrough / Command Mode / MAVLink Protocol

(11) Antenna Diversity Configuration: Adjust receive signal prioritization and operational modes for the dual diversity antenna system

(12) UVC USB Video Output: Toggle USB video streaming function on/off; enable to use the VRX as a USB camera input source for external devices

5-Quick Global Master Parameters (Top of Settings Menu)

(1) Transmit Power: Adjustable airborne VTX RF output tiers: 25mW/ 100mW / 200mW/ 500mW/ 1W/ 1W Auto/ 2.5W/ 2.5W Auto/ 4W/ 4W Auto/ 5W/ 5W Auto

(2) Resolution: HDMI output resolution options: 720P / 1080P

(3) Bandwidth: RF transmission frequency width: 5MHz / 10MHz / 20MHz / Auto (auto-selects optimal bandwidth based on environmental interference)

(4) Frame Rate: Video output frame rate: 50 FPS / 60 FPS / 100 FPS / 120 FPS; higher frame rates deliver smoother motion footage

(5) Standby Mode: Caps VTX/VRX transmit power to low wattage when the flight controller is disarmed; automatically disables standby power cap after arming. Disable this feature if no flight controller serial connection is used.

(6) System Language: Interface display language toggle: Chinese / English

(7) Battery Alarm Configuration

-1) Buzzer Alert Source: Goggle Only/ Transmitter Only/ Both Devices/ Disabled

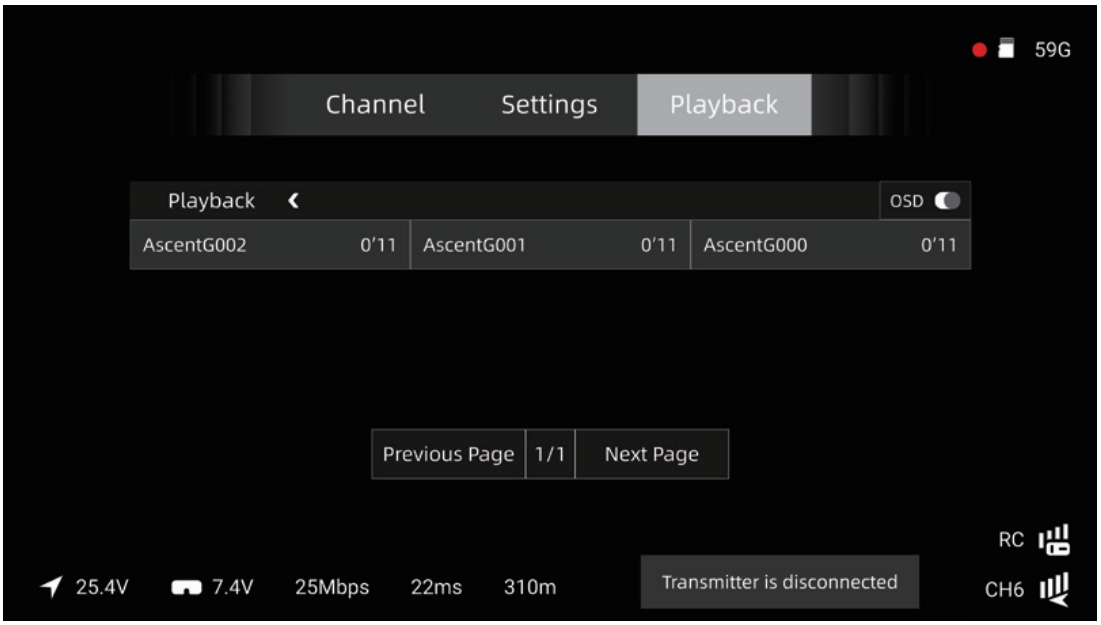
-2) Cell Count Detection: Auto Detect/ 2S/ 3S/ 4S/ 5S/ 6S lithium battery packs

-3) Low-Voltage Cell Threshold: Customizable single-cell voltage trigger point for low-battery alert notifications

(8) Flight Profile Presets: Two one-click operational mode templates: Low Latency Mode / Fixed-Wing Mode, optimized for racing multirotor and fixed-wing aircraft transmission requirements, respectively

Menu Tab: Playback

Switch to the Playback navigation tab to browse, preview, and manage MP4 video files stored on the Micro SD card:



1-Recording File List
All captured video files sorted chronologically with individual clip duration labels; navigate pages via Previous Page / Next Page controls

2-OSD Overlay Toggle
Enable/disable flight telemetry overlay on playback footage, including battery voltage, flight distance, bitrate, and flight controller OSD data.

3-Batch File Management
Long-press the 5-way joystick center button while hovering over the video list to open multi-selection controls: Delete Selected Files / Select All / Deselect All. Short-press the Back button to exit bulk management mode.

4-Playback Transport Controls
Select a video clip and short-press the joystick center button: Play / Pause playback;Left/Right directional joystick inputs: Rewind / Fast-forward video footage.

Supplementary Playback & Menu Notes

(1) All menu navigation relies exclusively on the 5-way joystick (directional navigation, center confirm) and Back button (exit menu hierarchy).

(2) All modified menu parameters save automatically and persist through power

cycles. Executing Restore Factory Defaults erases all personalized configuration permanently.

(3) Captured footage is encoded as H.264 MP4 files stored on exFAT-formatted Micro SD cards, with maximum supported card capacity of 256GB.

Specifications

Name	Ascent VRX Pro
Model	WN02-FP028
Communication Frequency	5.725-5.829 GHz
Transmitter Power(EIRP)	FCC/SRRC:<30dBm, CE:<14dBm
I/O Interface	HDMI, Micro SD Card, DC5.5*2.1mm SH1.0*6PIN, Type-C
HDMI Out	1080p50fps, 1080p60fps, 1080p100fps, 1080p120fps, 720p50fps, 720p60fps, 720p100fps, 720p120fps
Power Input	7.4~25.2V
SD Card	Support Micro SD 256G
System	Ascent HD system
Bandwidth	5MHz/10MHz/20MHz/Auto
Menu OSD recording	Support
Recording File System	exFAT
Recording Format	MP4 (H.264)
Weight	140g
Dimension	114.5*64*24mm (Without Antenna)

Antenna Name	Red Bird Pro
Antenna Polarization	LHCP
Antenna Bandwidth	5.725-5.829 GHz
Antenna Average Gain	2.8dBi
Connector	RP - SMAx2
Dimension	56.3mm*D16.5mm
Weight	7g

CADDXFPV Technical Support:
https://www.caddxfpv.com.cn/service/

Download the latest updated version of this User Manual from the CADDXFPV official website.

For manual feedback, technical questions, or content suggestions, contact the support email address: support@caddxfpv.com