



FPVspeed™

Dual Reception System

FPV Video Receiver

VRX-S1

4.9/5.8/6G 48+22CH -98dBm

KEY FEATURES

- Channels: 48CH+22CH
- Hardware: ESP32 microcontroller, 0.96-inch TFT LCD, 5-way button, RF module with -98dBm sensitivity, buzzer
- Interface: Bilingual interface based on LVGL, selectable standard 48CH or extended 22CH frequency bands through a startup animation slider in the settings menu
- Power Supply: 5V @ 450mA
- Weight: 23.4g (excluding antenna)
- Dimensions: L42.6 x W26 x H21.5mm
- Device Compatibility: Fatshark (Dominator V1, V2, V3, HD1, HD2, HD3, HDO, HDO2), Skyzone (04L, 04X), DJI V1, V2 FPV goggles (requires separate purchase of 5.8G RX PORT module)



APPLICATIONS

- FPV Drone Racing
- UAV Communication Systems
- Remote Vehicle Monitoring
- Wireless Video Transmission Systems

FREQUENCY SPECIFICATIONS

a. STANDARD FREQUENCY TABLE

BAND	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1, A (BOSCAM)	5865 MHz	5845 MHz	5825 MHz	5805 MHz	5785 MHz	5765 MHz	5745 MHz	5725 MHz
2, B (BOSCAM)	5733 MHz	5752 MHz	5771 MHz	5790 MHz	5809 MHz	5828 MHz	5847 MHz	5866 MHz
3, E (BOSCAM)	5705 MHz	5685 MHz	5665MHz	5645 MHz	5885MHz	5905 MHz	5925 MHz	5945 MHz
4, F (FAT SHARK)	5740 MHz	5760 MHz	5780 MHz	5800 MHz	5820 MHz	5840 MHz	5860 MHz	5880 MHz
5, R (RACEBAND)	5658 MHz	5695 MHz	5732 MHz	5769 MHz	5806 MHz	5843 MHz	5880 MHz	5917 MHz
6, L (BAND)	5362 MHz	5399 MHz	5436 MHz	5473 MHz	5510 MHz	5547 MHz	5584 MHz	5621 MHz

b. EXTENDED FREQUENCY TABLE

BAND	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1,V BAND (MHZ)	4990 MHz	5020 MHz	5050 MHz	5080 MHz	5110 MHz	5140 MHz	5170 MHz	5200 MHz
2,U BAND (MHZ)	4867 MHz	4884 MHz	4921 MHz	4958 MHz	4995 MHz	5032 MHz	5069 MHz	5099 MHz
3,H BAND (MHZ)	5960 MHz	5980 MHz	6000 MHz	6020 MHz	6040 MHz	6060 MHz		



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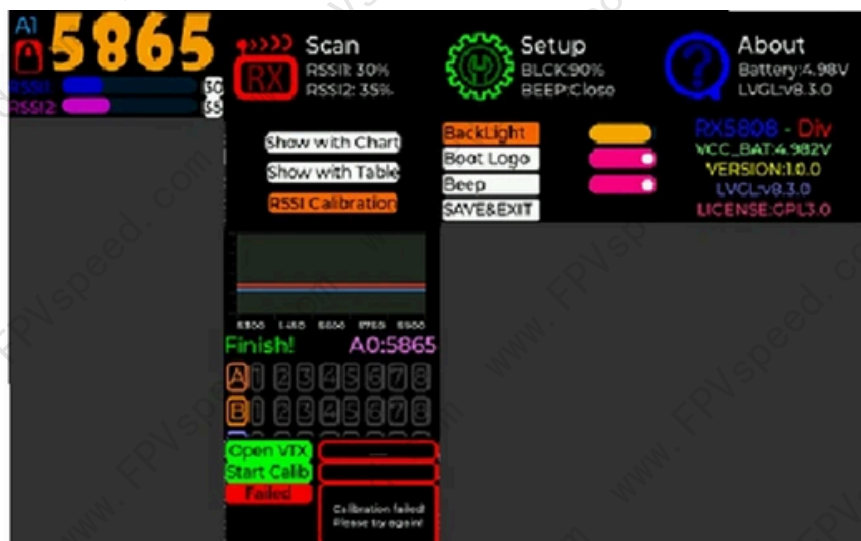
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USER INTERFACE AND OPERATION

1. Main Interface: Long press the OK button to lock/unlock the manual channel selection. Short press the OK button to enter the menu. When unlocked, use the directional buttons (up, down, left, right) to adjust frequency.
2. Menu Interface: The menu is divided into three sections [Receiver, Setup, and About]. Use the up/down buttons to navigate between options and press the OK button to enter a submenu. Press the left button to return to the main interface.
3. Receiver Menu
 - Spectrum Scan: Displays signal strength of 48CH or 24CH with different colors indicating channel strength.
 - Channel Scan: Automatically searches for frequencies and switches to the channel with the best signal strength, displayed in the top right corner.
 - Signal Calibration: Used to calibrate RSSI. Calibration fails if the video transmitter is not active; successful calibration results are saved.
4. Setup Menu: Adjust settings such as screen backlight intensity, fan speed, startup animation, buzzer activation, OSD format, system language, and output signal source.
5. Firmware Upgrade: The firmware can be upgraded via the TYPE-C USB interface.





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DISCLAIMER

! This product is intended for civilian and commercial use only. It is strictly prohibited from being used for any military purposes or activities.