

## 50km Long Range Drone HDMI +SDI Video, Ethernet and Bi-directional Data Links

Model: FIM-2450



### Frequency Option

- 2.3Ghz
- 2.4Ghz
- 2.5Ghz
- 1.4Ghz

### Key Features

- Video Input: HDMI+SDI+LAN
- Video Output: HDMI+SDI+LAN
- Ethernet: Support TCPIP/UDP
- 2\* RS232 Port: Full duplex(RS232,  $\pm 13V$ )
- 2\* Antennas: Dual Tx antenna and Dual Rx antenna
- Short Latency: 40ms for 720P60, 60ms for 1080P30
- Output Video to PC and displayed via TPlayer
- Light Weight: 160g

Frequency	2.3Ghz	2304 ~ 2390 MHz
	2.4Ghz	2405~2479 MHz

	2.5Ghz	2500~2570 MHz
	1.4Ghz	1430~1444 MHz
Bandwidth	4/8MHz	
RF Power	2W (Bi-Amp, 2W Peak Power of each power amplifier)	
Transmit Range	50km	
Transmit Rate	1.5/3/6Mbps (Video code stream and serial data) The best video stream: 2.5Mbps	
Baud Rate	115200(Adjustable by software)	
Rx Sensitivity	-102dBm@4Mhz/-97@8Mhz	
Wireless Fault Tolerance Algorithm	Wireless baseband FEC forward error correction / video codec super error correction	
Video Latency	Latency for encoding + transmission + decoding 720P60 <40 ms 1080P30 <60ms	
Link Rebuild Time	<1s	
Modulation	Uplink QPSK/Downlink QPSK	
Video Compression Format	H.264	
Video Color Space	4:2:0 (Option 4:2:2)	
Encryption	AES128	
Start Time	25s	
Power	DC-12V (10 ~ 18V)	
Interface	Interfaces on Tx and Rx are same ✧ Video input/Output: Mini HDMI×1, SMAX1(SDI) ✧ Power Input×1 ✧ Antenna Interface: SMA×2 ✧ Serial×2: (±13V(RS232)) ✧ LAN: 100Mbps x 1	
Indicators	✧ Power ✧ Tx and Rx Working Indicator ✧ Ethernet Working Indicator	
Power Consumption	Tx: 17W(Max) Rx: 6W	
Temperature	Working: -40 ~+ 85℃ Storage: -55 ~+100℃	
Dimension	Tx/Rx: 73.8 x 54 x 31 mm	
Weight	Tx/Rx: 160g	
Metal Case Design	CNC Technology	
	Double Aluminum Alloy Shell	
	Conductive anodizing craft	