

Mini Encodulator+Transmitter For Mini Drone Aircraft



*You take me fly & I send your
photography back to ground*



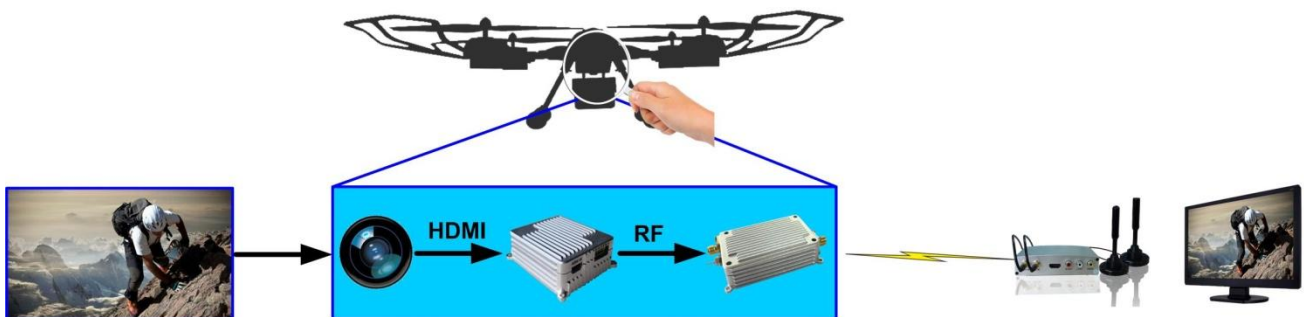
Outline

Dexin DT-7141HE mini encodulator+transmitter is a set of real-time image transmission system which is specially designed for working with mini drone aircraft. It integrates encoder, modulator, transmitter and antenna. It converts the real-time signal from the mini camera into RF and send back to ground wirelessly. The returned signal will be received by the accessory STB and displayed on TV screen.

Main Features

- Support standard HDMI wireless transmission, support up to 1080P resolution
- Frequency & Transmission distance: 300MHz-860MHz can reach 5-10 km; 860MHz-2400MHz can reach 1-3 km.
- Receiving frequency range: 300MHz-862MHz
- Transmission delay 300-350ms
- H.264 encoding format, high quality encoding
- Channel selectivity and channel spurious suppression characteristics
- Excellent receiving sensitivity, stable image transmission at high speed above 230km/hours

Principle Chart



Specifications:

Transmitter

Video	Interface	HDMI input
	Resolution	1920x1080_60P, 1920x1080_50P 1920x1080_60i, 1920x1080_50i 1280x720_60P,1280x720_50P 720x576_50i, 720x480_60i
	Video Format	PAL/NTSC
	Encoding Format	MPEG-4 AVC/H.264
	Bitrate	0.8Mbps~30Mbps
	Rate Control	CBR
	GOP Structure	IPPP
Audio	Encoding Format	MPEG-1 Layer2
	Sampling Rate	48KHz
	Resolution	24-bit
	Bite rate	64Kbps-192Kbps
RF frequency	300~2400MHz, 10 KHz step	
RF Output and Power	300MHz-860MHz, ≤1W 860MHz-2400MHz, ≤500mw	
RF Interface	RF output (RPSMA)	
Modulation mode	COFDM DVB-T	
Bandwidth	6M,7M,8M	
Transmission Rate	1-8Mbps	
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	
Guard Interval	1/32, 1/16, 1/8, 1/4	
Constellation	QPSK, 16QAM, 64QAM	
Transmission Mode	2K 8K	
MER	≤25dB	
Transmission Delay	300MS-350MS	
Antenna interface and impedance	RPSMA male, MMCX female, impedance 50Ω	
Operating Voltage	DC 24V/DC 12V	
Power Consumption	≤12W	
Temperature	-10℃ ~+50℃ (Operating); -20℃~75℃ (Storage)	
Transmission Distance	300MHz-860MHz, 5-10km 860MHz-2400MHz, 1-3km	
Weight	≤120g (antenna and cables are exclusive)	
Dimension	Encodulator	46(L)*40(W)*24mm(H)
	Amplifier	68(L)*43(W)*20mm(H)

Receiving Box:



Model NO	DR-2108	
RF frequency	300MHz-862MHz	
Input Impedance	75Ω	
Receiving sensitivity	-98dBm	
Channel Band Width	6M/7M/8M	
Constellation	QPSK, 16QAM, 64QAM	
Guard Interval	1/32, 1/16, 1/8, 1/4	
FEC	1/2, 2/3, 3/4, 5/6, 7/8	
Carrier Mode	2K 8K	
Transport Stream	MPEG-4AVC/H.264HP@L4 MPEG-2 MP@HL/ML	
Video Aspect Ratio	4:3/16:9	
Video System	PAL/NTSC	
Video Output	1 ±0.3Vpp	
Video Resolution	HDMI	1920x1080_60P, 1920x1080_50P 1920x1080_60i, 1920x1080_50i 1280x720_60P, 1280x720_50P 720x576_50i, 720x480_60i
	CVBS	720x576_50i
Audio Decoder	MPEG-2/HE_AAC(DD/DD +optional)	
Audio Output	R/L/ST	
A/V Output interface	Video RCA Jack ×1, Audiop RCA Jack(R/L) ×2	
Upgrade and Multimedia Port	USB	
Power Consumption	≤4.5W	
Power Supply	DC+12V~24V ±10%	
Operating Temperature	-10℃~+50℃	
Dimension	115*77*27mm	

