

# Mini Encodulator+Transmitter For Mini Drone Aircraft



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



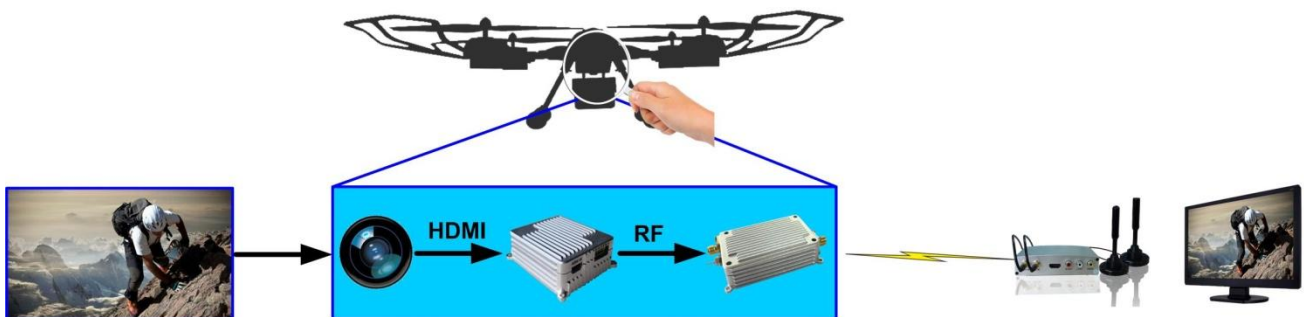
## Outline

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	



