



**DT-7151HES**

**Dual Channel Mini Transmitter & Receiver**



**DT-7151HES Transmitter**

**DR-2108A Receiver**



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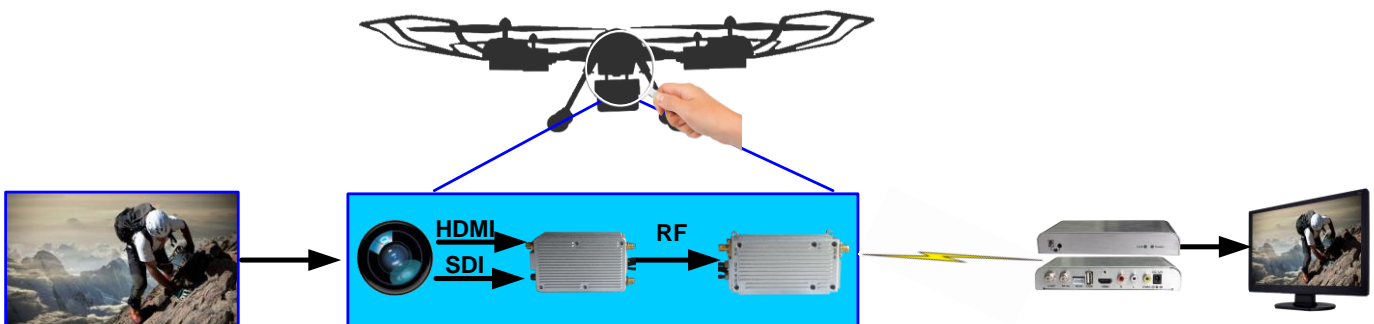
## Outline

Dexin DT-7151HE packs of SDI input and HDMI input into a mini size transmitter. It is usually used together with the low latency receiver DR-2108A, and composed a set of real-time image transmission system. It converts the control protocol, signal from the mini camera into RF and send back to ground wirelessly, it can realize real-time check the longitude, latitude and the altitude of the drone aircraft. The returned signal will be received by the receiver and displayed on TV screen. DT-7151HES is used in a variety of UAV monitoring, aerial photography and other areas, as well as electricity, hydrology and other monitoring.

## Main Features

- Support standard HDMI and SDI 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: 100MHz-932MHz
- Transmission delay: 180-280ms(after scrambling)
- H.264 encoding format, high quality encoding
- Support BISS scrambling and descrambling
- Channel selectivity and channel spurious suppression characteristics
- Excellent receiving sensitivity, stable image transmission at high speed above 230km/hours
- 1W, 3W, 5W, 10W, 20W power option.

## Principle Chart





## Transmitter Specifications:

Video	Interface	HDMI and SDI input	
	Resolution	1920x1080_30P, 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	VBR	
	GOP Structure	PPPP	
Audio	Encoding Format	MPEG-1 Layer2	
	Sampling Rate	48KHz	
	Resolution	24-bit	
	Bite rate	64Kbps	
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 4K 8K		
MER	≤25dB		
Transmission Delay	180MS-280MS		
Antenna interface and impedance	RPSMA male, MMCX female, impedance 50Ω		
Operating Voltage	DC 24V/DC 12V		
Temperature	-10°C ~+50°C (Operating); -20°C ~75°C (Storage)		
Transmission Distance	100MHz-860MHz, 5-10km 860MHz-2400MHz, 1-3km		
Weight	≤182g (antenna and cables are exclusive)		
Dimension	Encodulator	80(L)*48(W)*23mm(H)	
	Amplifier	68(L)*43(W)*20mm(H)	

## Receiving Box:

Model NO	DR-2108A	
RF frequency	100MHz-932MHz	
Input Impedance	75Ω	
Receiving sensitivity	-95.8dBm	
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 4K 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_30P, 1920x1080_60i, 1920x1080_50i 1280x720_60P,1280x720_50P 720x576_50i, 720x480_60i
	CVBS	720x576_50i, 720x480_60i
Audio Decoder	MPEG-2/HE_AAC	
Audio Output	R/L/ST	
A/V Output interface	HDMI, CVBS, YPbPr	
Upgrade and Multimedia Port	USB	
Power Consumption	≤10W	
Power Supply	DC+12V~24V±10%	
Operating Temperature	-10℃~+50℃	
Dimension	175*115*45mm	