



DT-7151HES

Dual Channel Mini Transmitter & Receiver



DT-7151HES Transmitter

DR-2108A Receiver



All the specifications are subject to change without any further notice. All rights reserved.

Address: No. 10 & No. 12, Wuxing Fourth Road, Wuhou District, Chengdu 610045, Sichuan, PR China
www.dsdvb.com/English Tel: +86-028-85558928 Fax: +86-028-85585255 Email: sunyu@dsvb.com

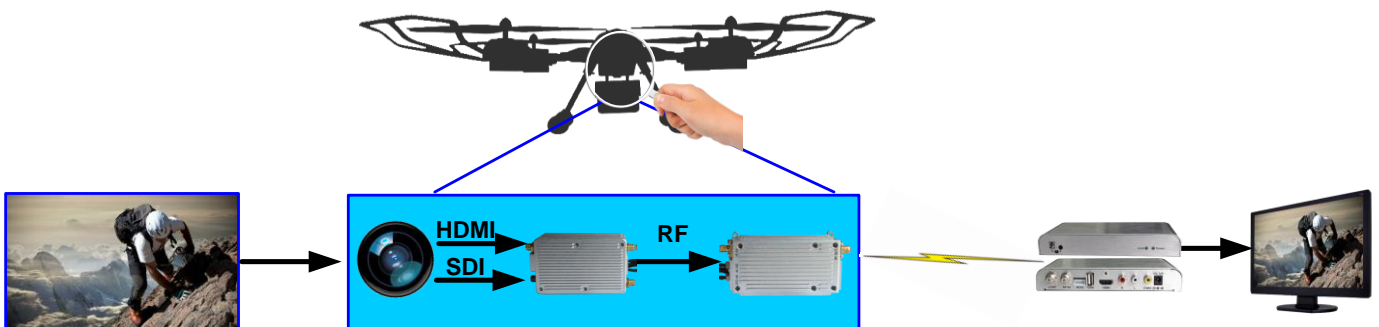
Outline

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(CVBS optional) wireless transmission, support up to 1080P resolution**
- **Frequency & Transmission distance: 300MHz-860MHz can reach 10-15 km; 860MHz-2400MHz can reach 1-3 km.**
- **Receiving frequency range: 100MHz-932MHz**
- **Transmission delay: 130~200ms and 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(CVBS optional)
	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, ≤3W 860MHz-2400MHz,≤500mW	
RF Interface	RF output (RPSMA)	
Modulation mode	COFDM DVB-T	
Bandwidth	2M, 4M,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	130MS-200MS and 180-280ms(after scrambling)	
Antenna interface and impedance	RPSMA male, MMCX female, impedance 50Ω	
Operating Voltage	DC 12V ~ DC 48V	
Temperature	-10℃ ~+50℃ (Operating); -20℃~75℃ (Storage)	
Transmission Distance	100MHz-860MHz, 10-15km 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	160*65*22mm	