

DT-7101HE Portable Wireless Transmitter



Product Overview

DT-7101HE is a professional HD portable transmitter, which integrates H.264 HD and SD encoder, DVB-T RF modulator and transmitter in one case. It supports HDMI, SD/HD-SDI, S-Video, YPbPr and CVBS input and also 1 ASI input for re-mux. With excellent performance of encoding, modulating and portable, this unit is widely applied in fields such as radio and television broadcast, emergency situation, fire control, maritime affairs and so on.

Key Features

- MPEG4 AVC/H.264 HD/SD video encoding
- MPEG1 Audio Layer 2, MPEG-2 AAC and MPEG-4 AAC audio encoding
- Support ASI input for re-mux
- Support VBR/CBR video bitrate mode
- Support DVB-T (DTMB-T, ISDB-T optional) RF output
- Control buttons + LCD display

Specifications

Input	Input port	HDMI ×1, YPbPr×1, S-video×1, CVBS ×1,SD/HD-SDI × 1 ASI × 1
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Video	Encoding format	MPEG-4 AVC/H.264
	Resolution	HDMI/HD-SDI: 1920×1080_60p, 1920×1080_50p; 1920×1080_60i, 1920×1080_50i, 1280×720_60p, 1280×720_50p
		S-video:720×576_50i(PAL); 720×480_60i(NTSC)
		YPbPr: 1920×1080_60i, 1920×1080_50i; 1280×720_60p, 1280×720_50p
	CVBS: 720×576I,720×480_60i	
	Bit-rate	0.500~19.500Mbps
Audio	Encoding	MPEG-1 Layer2,MPEG-2 AAC,MPEG-4 AAC
	Sample rate	48KHz
	Bit rate	64~384Kbps
Multiplexing	Port	ASI×1 (SMA port)
	Mux	ASI pass through and multiplexed with encoded TS
Modulating	Standard	DVB-T COFDM (DTMB,ISDB-T optional)
	Bandwidth	2M,4M, 6M,7M,8M
	Constellation	QPSK,16QAM,64QAM
	Code rate	1/2,2/3,3/4,5/6,7/8
	Guard interval	1/32,1/16,1/8,1/4
	FFT	2K, 8K
	RF frequency	30~960MHz,1KHz step (Amplifier is exclusive)
		300~860MHz (Amplifier is included)
RF output level	-36~-16dbm (73~93db μ V), 0.1db step (Amplifier is exclusive)	
Transmitting	Transmission power	1W (1W-5W customizable)
	Transmit frequency	300MHz~800MHz (1 MHz step, adjustable frequency)
	MER	\leq 25db
	RF output level	-36~-16dbm (73~93db μ V), 0.1db step (Amplifier is exclusive)
	Output port	N-L16(F type)
Transmission Distance	1W	1KM
	2W	3KM
	5W	5KM
Note: The above transmission distance is based on the normal conditions to use, and only for reference. The final distance should depend on actual situation and the use of specific circumstances		
System	LCD + control buttons	
	Chinese-English control interface	
	Ethernet software upgrade	
General	Power supply	DC 12V (standard) or Special Battery (below 16.8V)
	Dimensions	Transmitter: 180mm×115mm×50mm
	Weight	Transmitter: 1.7kg (battery is exclusive)
	Environment condition	Storage temperature: -40℃~+70℃;Working temperature: -20℃~+60℃
Relatively humidity: 85% (non-condensing)		

DR-2098HIA Mobile Digital Receiver



Product Overview

DR-2098HIA is a professional mobile digital receiver to convert the input tuner signals to crystal clear digital or analog video in various formats available at CVBS, YPbPr, HDMI, and HD-SDI. It is designed to support the industry standard 576i/480i, 576p/480p, 720p and 1080i decoding. It is also equipped with 1 ASI input, 2 ASI output ports and a data port for both input and output to make it possible to process more programs.

Additionally, the implemented web server allows the configuration of the DR-2098HIA with a standard web browser. Basic configuration can also be done locally with the LCD display and navigation buttons. The LCD monitor can, at the same time, realize the real-time observation about broadcasting status.

Key Features

- convenient and efficient network transmission
- dual LNB input
- real-time LED monitor for decoded program
- multi Audio/Video format output: 1*HDMI, 2*CVBS, 1*YPbPr, 1*HD-SDI
- multiple video resolution: 576i/480i, 576p/480p, 720p and 1080i decoding
- Support ASI input and output, IP input and output
- Support Keyboard and LCD operation
- web NMS management via Ethernet port

Specifications

Input Parameters		
Tuner in	Signal source	2*LNB, N-L16 (negative)
	Receiving frequency	30MHz~900MHz
	Bandwidth	2MHz, 4MHz, 6MHz, 8MHz
	Input impedance	50Ω
	Receiving restriction	20dBμV~103dBμV
	Demodulation mode	COFDM/DVB-T
Transport Stream in	ASI input	1*ASI, BNC (negative)
	IP input	UDP Unicast/Multicast (100M, RJ45)
Output Parameters		
Stream out	Video output port	1*HDMI, 2*CVBS, 1*YPbPr, 1*HD-SDI
	Audio output	L/R channel (unbalanced); XLR (balanced)
	ASI output	2*ASI, BNC (negative)
	IP output	UDP/ Unicast/Multicast (100M, RJ45)
Resolution	HDMI	1080i@25, 29.94fps, 720p @ 50 59.94fps, 576i@25 fps, 480i@29.94 fps
	CVBS	576i@25 fps, 480i@29.94fps
	YPbPr	1080i@ 25, 29.94fps,720p@50, 59.94fps
	HD-SDI	1080i@25, 29.94fps,720p@50, 59.94fps, 576i@25 fps, 480i@29.94 fps
Data Formatting	MPEG-2, H.264	
BER	≤10 ⁻⁸	
Miscellaneous		
Management	Web NMS via Ethernet; LCD & Key board	
Upgrade	External USB driver	
MTBF	≥10000hrs	
Working voltage	DC 10V~16V; AC 90V~250V	
Feed voltage	DC 10V~16V	
Power dissipation	12W	
Dimension	19"1U, 483×400×44(mm)	
Weight	3.5Kg	

Principle Chart

