

HDT-201 **HDR-201**

HD Uplink Transmitter/Receiver for Live Broadcasting

OFDM Modulation enabled use at the frequency band where much noise exists.



The HDT-201 and the HDR-201 are a transmitter and a receiver for live HD/SD broadcasting with coaxial cable network. The compact and light-weight devices integrate H.264 encoder and decoder in the chassis, featuring excellent mobility.

- ◆ **OFDM Modulation enabled the use at the frequency band where much noise exists.**
- ◆ **H.264 encoder and decoder are integrated in each compact body.**
- ◆ **Compact and light-weight body of the transmitter realized excellent mobility.**
- ◆ **Intercom devies are optionally available; Headset/2-wire/4-wire**
- ◆ **Bit rates and modulation systems can be programmed according to the C/N ratio of the field for best live broadcasting.**
- ◆ **The center output frequency can be programmed in the range from 13MHz to 52MHz in the resolution of 1MHz.**
- ◆ **The output level can be programmed in the range from +80dB to +110dB in the resolution of 2dB.**

HDT-201 / HDR-201 HD Uplink Transmitter/Receiver for Live Broadcasting

<Specifications and Features>

HDT-201 Transmitter (Modulator)		HDR-201 Receiver (Demodulator)	
Video signal input		Video signal input	
Signal System	HD-SDI / SD-SDI	Signal System	HD-SDI / SD-SDI
Connector	BNC-J 75Ω	Connector	BNC-J 75Ω
RF output		RF input	
Center Frequency	13MHz to 52MHz (variable per 1MHz)	Center frequency	13 to 52MHz (variable per 1MHz)
Output level	80dBμV to 110dBμV	Input level	60dBμV to 80dBμV
Connector	F-type 75Ω	Connector	F-type 75Ω
Modulation system	OFDM	Modulation system	OFDM
Transmission band	5.6MHz	Transmission band	5.6MHz
Transmission rate	22.6Mbps or less	Transmission rate	22.6Mbps or less
	*when transmitting 204byte packet.		*when transmitting 204byte packet.
Video coding	MPEG2 video regulation ITU-T recommendation H.264	Video coding	MPEG2 video regulation ITU-T recommendation H.264
Audio coding	MPEG-1 Audio Layer II (MP2)	Audio coding	MPEG-1 Audio Layer II (MP2)
OFDM modulation		Intercom *optional	
Signal System	Digital terrestrial broadcasting	Input system	Headset / 2-wire / 4-wire
Frequency band	5.6MHz	Connector	#238 jack (#110 plug) XLR3 male pin × 1 (2W Tx/Rx, 4W Tx) XLR3 female pin ×1 (4W Rx)
Layer	Layer A	Transmission frequency	9 channels from 70MHz to 74MHz
Number of segments	13	Transmission level	105dBμV or more
Sub-carrier modulation	QPSK, 16QAM, 64QAM	Receiving frequency	9 channels from 15MHz to 19MHz
Guard interval	1/4, 1/8, 1/16	Receiving level	60dBμV to 80dBμV
Preset		Audio signal band	300Hz to 3400Hz
Number of parameters	10	Conversation	Full duplex
Items to preset	Modulation; 64QAM / 16QAM / QPSK Bitrate, Mode, Interleave Coding rate	Modulation system	QPSK
Intercom *optional		Stability of frequency	±5×10 ⁻⁵ or less
Input system	Headset / 2-wire / 4-wire	External interface	RS-232C
Connector	#238 jack (#110 plug) XLR3 male pin × 1 (2W Tx/Rx,4W Tx) XLR3 female pin ×1 (4W Rx)	General Specifications	
Transmission frequency	9 channels from 15MHz to 19MHz	Temperature	HDT 0 to 40 degree C HDR 5 to 35 degree C
Transmission level	80 to 120dBμV (variable per 5dB)	Humidity	30 to 80% (without dews)
Receiving frequency	9 channels from 70MHz to 74MHz	Rated voltage	90 to 110VAC, 50Hz/60Hz
Receiving level	60dBμV to 80dBμV	Power consumption	HDT 35W or less HDR 30W or less
Audio signal band	300Hz to 3400Hz	Dimensions	HDT 324(W)×109(H)×325(D) mm HDR 480(W)×49(H)×370(D) mm
Conversation	Full duplex	Weight	HDT 5.5kg or less HDR 5.0kg or less
Modulation system	QPSK		
Stability of frequency	±5×10 ⁻⁵ or less		
External interface	RS-232C		

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