

# WS-210HD

HD / SD satellite IRD



MPEG-2 HD / SD

MPEG-4 HD / SD

950 - 2150MHz

QPSK / 8PSK

DVB-S / DVB-S2

PAL / NTSC output

HD to SD down-converter

HDMI / Component / Composite output

**WARD**  
株式会社 ワード

## Specifications

### IF / Tuner

Input Frequency	950 MHz to 2150 MHz
Input Signal Level	-25 to -65dBm
Input Impedance	75 ohm nominal
Input Connector	1 × F-type with Loop through
FEC Decoder	DVB-S: 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 DVB-S2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Demodulation	QPSK / 8PSK
Symbol rate	Up to 45Msps (37Msps for DVB-S2) / SCPC, MCPC
22KHz Tone	Frequency :22KHz±20%, Amplitude :0.6Vp-p±0.2Vp-p
LNB Power & Polarization	V: 13V / H: 18V, 600mA max. over current protection

### Audio / Video Decoding

Video Decoder	MPEG2 MP@ML, MPEG2 MP@HL MPEG4 AVC/H.264 HP@L4
Input Rate	108Mbit/s max.
Video Resolution	720×576p, 1280×720p, 1920×1080i for HDMI, YpbPr
Audio Decoder	MPEG-1 Layer 1 & 2, MPEG-4 HE-AAC, AAC Digital Audio Bit-Stream Out via S/PDIF
Audio Mode	Mono L/R, Joint Stereo, Stereo
Audio Sampling Frequency	32 / 44.1 / 48 KHz

### Audio / Video Output

Output color standard	NTSC or PAL selectable
RCA jack	Audio L/R, CVBS, S/PDIF (coaxial )
SCART jack	1 Scart for TV & VCR (CVBS, RGB, Audio L/R)
Component	YPbPr Output Max. Resolution 1080i
HDMI output	Max Resolution 1080i

### Serial Data Interface

Connector Type	9 Pin D-Sub (male)
Signal	RS-232C( Max. 115K Baud)

### USB connection

USB 2.0 Support	USB A single connection × 2
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### Power Supply

Supply Voltage	100VAC - 240VAC, 50/60 Hz
Power Consumption	33W max.

### General

Weight & Dimensions	Approx. 2.5Kg & 260(W) x 55(H) x 225(D)mm
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