

MPEG-2 & H.264 HD/SD Encoder

with digital modulator (8VSB/QAM/ISDB) and broadband RF up-converter

All in One Digital Head-end



HSDV300HD

Multi-standard HD MediaStation

The HSDV300HD, HD mediastation, is a perfect HD video broadcasting equipment to system operator who plans to broadcast the highest HD video over cable network with the least effort.

This product consists of MPEG2 & H.264 HD encoder, digital modulator(8VSB/QAM/ISDB) and broadband RF up-converter. Due to flexible functionality for all size systems, it is ideal for MDU's, such as hotels, hospitals, gated communities, and so on.

Overview :

Simple plug-in and play HD broadcasting

The HSDV300HD provides the easiest way to start HD broadcasting to system operators offering TV services. All the functions required to deliver HD video are integrated in a compact 1RU size chassis. Easy-to-use front panel interface is all you need to start.

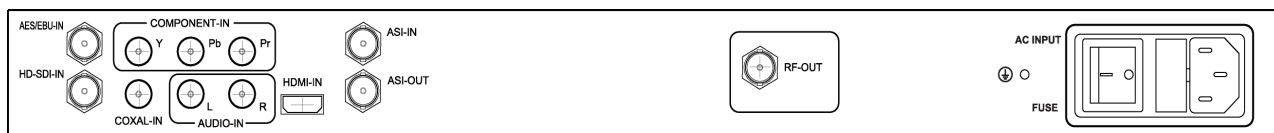
Amazing picture quality

Extensive video pre-processing combined unit with advanced motion estimation brings the best sound and vision for subscribers.

Features :

- All in one HD video delivery solution
- Various types of input video resolution and frame rate
- MPEG-2 and H.264 HD real-time video encoding
- MPEG-1 Layer-II, AC3, AAC-LC/HEV1/HEV2, and pass-through audio encoding
- ATSC, DVB-C, ISDB-T and ISDB-TB outputs are selectable
- Fully compliant with ATSC standard
- Low noise, high quality broadband up-converter
- Flexible input options includes Component, HDMI and SDI
- Constant bit-rate encoding
- Single rack unit chassis
- Broadband RF output(54~870MHz)
- Internal virtual channel table generator(static PSIP & PSI)
- Interface for insertion of dynamic PSIP/SI(option)

Rear Panel :



Specifications :

Inputs

Video

Component video(YCbCr)
HDMI
HD-SDI (option)

Audio

Analog audio LR
HDMI embedded
HD-SDI embedded(option)
AES/EBU digital audio(option)

Outputs

1x DVB-ASI BNC
1x RF 75 Ohms F type

Video Encoder

MPEG-2 Main Profile @ High Level
MPEG-2 Main Profile @ Main Level
MPEG-2 High Profile @ High Level
MPEG-2 High Profile @ Main Level
H.264 HD High Profile @ L4.1
H.264 SD High Profile @ L3.1

Ordering

HSDV300HD- VSB - HD/SD Encoder, HDMI and Component inputs + 8VSB(ATSC) Digital Modulator
HSDV300HD- VSB-SDI - HD/SD Encoder, HD-SDI, HDMI and Component inputs + 8VSB(ATSC) Digital Modulator
HSDV300HD- QAM - HD/SD Encoder, HDMI and Component inputs + QAM Digital Modulator
HSDV300HD- QAM -SDI - HD/SD Encoder, HD-SDI, HDMI and Component inputs + QAM Digital Modulator
HSDV300HD- ISDB - HD/SD Encoder, HDMI and Component inputs + ISDB-T Digital Modulator
HSDV300HD- ISDB -SDI - HD/SD Encoder, HD-SDI, HDMI and Component inputs + ISDB-T Digital Modulator

Options

OPT-AES/EBU - AES/EBU digital audio input

Audio Encoder

MPEG-1 Layer-II
2 stereo AC3
AAC-LC/HEv1/HEv2
5.1Ch AC3 Pass-through

Video Standards

1080p 30, 29.97, 25, 24, 23.97
1080i 60, 59.94, 50
720p 60, 59.94, 50, 30, 29.97, 25, 24, 23.97
576i 50
480i 59.94, 60

Digital Modulator

Selectable :
8VSB
64/256 QAM(Annex A/B)
ISDB - T

RF output

Frequency : 54 ~ 870MHz
Level : 32~50 dBmV
Bandwidth : 6 MHz
Return Loss: 15 dB max.
Phase Noise: under -98 dB/Hz @ 20 kHz offset
SNR: under 30 dB in band
Group Delay: ± 2 ns
Spurious: under 60 dB
Freq. Deviation: ± 3 ppm

Control and Monitor

2-line LCD and buttons in front panel

Environment

Cooling : Rear fan. Air flow side to rear
Operating Temperature : 0 to 50 °C
Operating Humidity : < 95% non-condensing

Physical

Dimension : 483 x 44 x 480 mm (WxHxD)
Weight : 5kg
Input Power : 100-220V AC, 50/60Hz