



Latency 800ms

Chroma Format 4:2:0

Resolutions 1080i

Introduction

CASTWIN's High-definition encoder offering highest video quality with low latency. It shows excellent performance for inputting signal (Analog & Digital) to output as transport stream signal after compressing and encoding for suitable digital transmission with various supported formats.

Moreover, it supports both MPEG-2 and MPEG-4 AVC so that it make operator select the format as they want. Also, it is very easy to control with Hi-class front VFD.

Competitiveness

- Excellent option for operators who competitively pursue the best performing encoding device with high resolution up to 1080i
- Good option for Real time encoding with low latency
- Low cost and High performance
- Able to secure space with compact and light weight design
- Make operators pay for less labor fee as offering quick and easy setup

Feature

- Component, Composite, HDMI, HD/SD-SDI video inputs.
- Low latency as 800ms
- Digital, Analog and Serial Digital embedded audio inputs.
- 5.1 channel SPDIF audio optical input.(Pass Through)
- Additional 1xASI input for supporting of insertion of externally generated PSIP into the transport stream.
- Video input Auto detection function.
- Selectable MPEG-2 or MPEG-4 AVC HD/SD real-time video encoding.
- Simultaneous outputting of 2xTransport stream (ASI) with UDP/IP or RTP/IP transport stream.
- CBR or VBR outputs
- Dolby Digital (AC-3), MPEG-1 Layer II , AAC-LC, HE-AAC audio encoding.
- User selectable resolution and bit rate.
- Supports internally generated TVCT & CVCT, SDT, NIT.
- Supports EIA-708 closed caption insertion via HD-SDI (SMPTE 334)
- Control and monitoring via web browser, front panel or SNMP.

Specification

Video Input

Analog Input Level	Component , Composite 1 Vp-p
Digital Input Level	HDMI , SDI 1000 mVp-p (HDMI) 800mVp-p (SDI)
Resolutions	480i29.97/30, 576i25, 720p50/59.94/60, 1080i25/29.97/30
Aspect Ratio	4:3, 16:9

Audio Input

Analog Input	1 Stereo(2channel)
Freq. Range	20Hz ~ 20KHz
Impedance	600 Ω/ 20KΩ
Connector	Mini XLR
Digital Input	AES-EBU, Embedded SDI/HDMI
Sampling Rate	32, 44.1, 48 KHz
Connector	BNC (75Ω) / HDMI-19PIN
Optical Input	SPDIF(5.1 Channel) (pass through).

Video Encoder

Encoding	MPEG-2 HP@HL, MP@HL , MP@ML MPEG-4 H.264 HP@L4 , MP@L3
Encoding Rate	MPEG-2 : 2~25 Mbps MPEG-4 H.264 : 0.5~25 Mbps
Chroma Format	4:2:0
PSNR	36dB
Bit Rate Mode	CBR,VBR
Latency	800ms~

Audio Encoder

Sampling Rate	32, 44.1, 48KHz
Dolby Digital® AC-3(5.1CH)	128,192,256,384 Kbps
MPEG-1 Layer II	192,224,256,320,384 Kbps
MPEG-4 AAC-LC	32~384 Kbps
MPEG-4 HE-AAC v1	32~192 Kbps
MPEG-4 HE-AAC v2	32~96 Kbps

TS Input

Transport Stream Connector	ASI 1 Port BNC(75Ω)
Packet Format	188 Byte
Input Level	800mVp-p

TS Output

Transport Stream Connector	ASI 2 port BNC(75Ω)
TS Bit Rate	MPEG-2 : 2~25 Mbps MPEG-4 <u>AVC</u> : 0.5~25 Mbps
Packet Format	188 Byte

IP TS Output

Output Connector	1 Port RJ-45
Ethernet type	10/100 Base-T
Format	UDP/IP, RTP/IP
IP Address Format	Multicast, Unicast
TS <u>Bitrate</u>	MPEG-2 : 2~25 Mbps MPEG-4 <u>AVC</u> : 0.5~25 Mbps
TS Packet Rate	188, 204 Byte

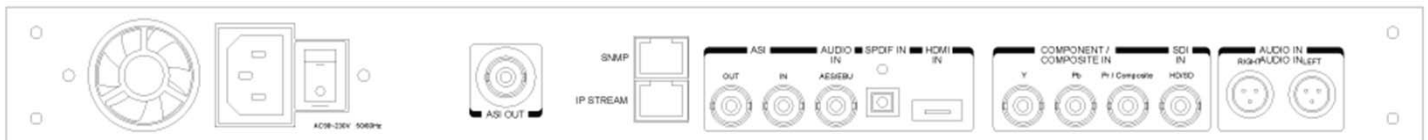
Ethernet

Connector	RJ-45
Interface Type	10/100Base-T
Protocols	SNMP

General

Power Requirements	AC 90~230V, 50/60Hz
Power Consumption	Max. 100W
Weight	4kg
Operating Temperature	-10~50°C
<u>Dimension</u> (W x H x D)	482 x 44 x 383 mm

Configuration



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