

UMH 230

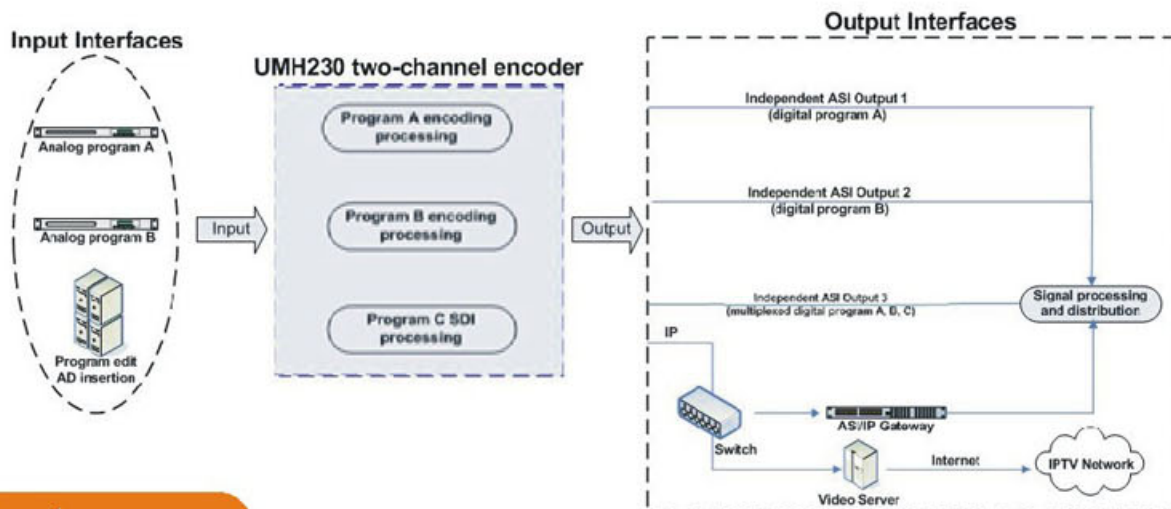
Two-channel MPEG-2 SD Encoder



Description

The UMH 230 is Wellav's new real-time 2-channel MPEG-2 SD encoder. It can support simultaneous MPEG-2 encoding of two programs in real time with independent ASI outputs or in one multiplexed output. It also support both SDI and composite input with TS/IP output to support different applications. With easy network management tool and affordable prices, this model is ideal for MPEG-2 encoding for both content distribution and redistribution.

Applications



Features

- Two-channel 4:2:0 MPEG-2 SD encoding
 - ◆ 1.5 Mbps to 15 Mbps
 - ◆ DVB compliant
- MPEG-1 layer II audio encoding
- Four audio channels as either embedded, analog or digital audio input
- SDI (audio embedded), YCbCr, CVBS input
- Three independent ASI outputs including one multiplexed ASI output
- TS/IP output (support UDP/RTP multicast protocol and program selection)
- Support MPEG-2 frame/field motion estimation and DCT
- Support editing of program/service provider name and PID setting
- TS stream PCR synchronization
- Managed via front panel or network management software (SNMP support)

Specifications

Video Input

- Input interfaces: CVBS x 2, SDI (BNC) x2, YCbCr x2
- Systems: PAL and NTSC
- Input resolution: 576_50i, 480_60i
- Multiplexing function support for IP input (optional)
- Connector type: 75 Ω, BNC
- Aspect ratio: 4:3, 16:9

Video Output

- 3 independent ASI output (two identical, one with multiplexing output support)
- Connector type: 75 Ω, BNC
- ASI bit rate: 270Mbit/s ± 100ppm
- Support burst mode and continuous mode
- Independent and multiplexing output selectable
- Output level: 800mVpp ± 10%
- Max output bit rate: 72Mbps
- TS packet length: 188/204 bytes

Audio Encoding

- Encoding technique: MPEG-1 Layer2
- Sampling frequency: 32KHz, 44.1KHz, 48KHz
- Number of channel: Up to 2 stereo pairs
- Audio mode: stereo, joint stereo, dual channel, mono
- Audio bit rate: 32~384Kbps

Monitor and Control

- Management interface: Ethernet 10/100 Base-T
- Connector type: RJ45
- Protocol: SNMP
- Front panel: LCD display with control keys

Audio Input

- Number of input channel: 4 (Analog R/L x2, SDI embedded audio (BNC) x2)
- Embedded audio format: SMPTE 272M

IP TS Output

- Number of outputs: 1
- Output type: RJ45
- Ethernet type: 1000 Base-T
- Encapsulation: MPEG-2 TS over UDP/RTP
- Broadcasting type: Unitcast, multicast
- TS bit rate: follows the ASI output rate
- Multicast control protocol: IGMP
- TS packet length: 188/204 bytes

Video Encoding

- Encoding technique: MPEG-2 MP@ML
- Chroma format: 4:2:0
- GOP configurable: I, IP, IPB, IPBB
- GOP size: 6-96
- Video bit rate: 1.5~15Mbps
- Modes: CBR & VBR

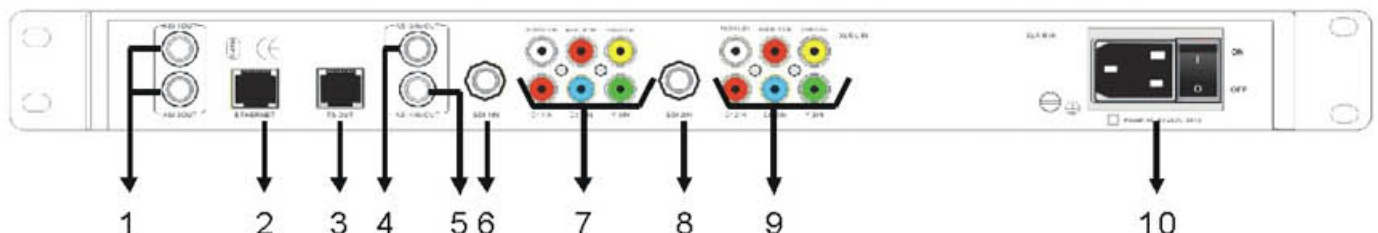
Environmental

- Operation temperature: 0~+50°C
- Size: 1RU rack mount chassis
- Dimensions (H x W x D): 44mmx484mmx306mm
- Net weight: 5Kg

Power Requirements

- AC Power
- Voltage range: 100V~240V
- Line frequency: 50~60Hz
- Consumption: < 50W fully equipped

UMH230 Rear Connector Panel



1. Two identical ASI output (ASI #1 & 2)
2. Ethernet control (RJ45)
3. TS/IP output (RJ45)
4. Independent ASI output (ASI #3)

5. Independent ASI output (ASI #4)
6. SDI input #1
7. Analog R/L input #1 and YCbCr input #1
8. SDI input #2

9. Analog R/L input #2 and YCbCr input #2
10. Power switch