

CV SERIES ENCODERS



CV HDMI2 QAM IP

2 CHANNEL HDMI TO SPTS / SRT / QAM ENCODER



KEY FEATURES

CUSTOMIZE A CHANNEL LINEUP FROM INSERTED LOCAL GENERATED CONTENT

- » HDMI 2.0b Ingest of Local Content
- » Internal File Store and Player – Up to 500 MB video file with looping player (per output channel)
- » NTSC Closed Caption input
- » QAM Modulates (2) HDMI 2.0b streams to (1) Edge QAM channel
- » Video encoding MPEG-2, H.264, or HEVC + Dolby® Digital AC3, AAC
- » 2 SRT or Unicast/Multicast SPTS outputs

PRODUCT OVERVIEW

The **CV HDMI2 QAM IP** is a dual channel encoder/player. It accepts up to 2 HD or SD programs from two rear panel HDMI input connectors or loops a video file from its internal file store. The unit multiplexes and modulates both HDMI streams to one QAM output channel including PSIP for direct digital TV display including digital signage applications. The **CV HDMI2 QAM IP** can also output 2 SRT or Unicast/Multicast SPTS. Additionally, there are 2 Composite inputs provided for NTSC Closed caption input.

The **CV HDMI2 QAM IP** can encode to MPEG-2, H.264/MPEG-4 (AVC), or H.265 (HEVC) in all major resolutions from 480i through 1080p60. In addition, the unit can playback compact H.264 file to MPEG-2.

ORDERING INFORMATION



MODEL	STOCK #	DESCRIPTION
CV HDMI2 QAM IP	6569	2 Channel HDMI to SRT Backhaul / QAM Encoder

CV HDMI2 QAM IP

SPECIFICATIONS



INPUT

Connectors	2x HDMI, v2.0b, "Type A" (HDMI In, Rear Panel)
Virtual	Uploaded video file from HTTP UI (supports MP4 and TS file formats)
Closed Caption	1x Composite (CC Ports, Rear Panel)

VIDEO

Video Resolution	480i (59.94, 60 FPS) 480p (29.97, 30, 59.94, 60 FPS) 720p (29.97, 30, 60 FPS) 1080i (59.94, 60 FPS) 1080p (29.97, 30, 59.94, 60 FPS)
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AUDIO

Audio Format	PCM Raw (L-PCM, IEC-60958 @ up to 192 kHz)
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GENERAL

Dimensions (W x H x D)	19.0 x 1.75 x 8.5 in (483 x 45 x 216 mm)
Weight	9.5 lbs (4.31 kg)
Power	110/230VAC, 0.35/0.175A, 60/50 Hz
Power Consumption	35 W
Operating Temp.	32 to 122 °F (0 to 50 °C)
Storage Temp.	-13 to 158 °F (-25 to 70 °C)
Operating Humidity	0 to 95% RH @ 35 °C max, non-condensing

ALARMS & MONITORING

Local Monitoring	1x Power and Status LED (bicolor) 2x Fan Control Status LED (bicolor) 2x Encoder Status LED (bicolor) 1x QAM Status LED (bicolor)
Local Control	1x IP Reset Button
Remote Control	1x RJ45 (1000Base-T GbE; Front Panel) GUI-Based Menu Via Internal Web Server

OUTPUT

IP Connector	1x RJ45 Gigabit Ethernet Output
QAM Connector	1x "F" Connector, Full Agile QAM
QAM Test Point	1x "F" Connector, -20 dB Test Point

RF QAM MODULATION

Standards	ITU-T J.83; Annex B
Frequency Range	54 to 1002 MHz
Power	+45 dBmV
Channel Bandwidth	6 MHz
Return Loss	≥ 14 dB
Level Adjust. Range	15 dB
Level Accuracy	±1 dB
QAM MER	>40 dB
Impedance	75 Ω
Phase Noise	-95 dBc @ 10 kHz offset

SRT STREAM PROTOCOLS

Specifications	www.SRTalliance.org
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SPTS STREAM PROTOCOLS

Standard	ISO/IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
Encoding Type	CBR or Capped VBR
TS Supported Video Bitrate	2x SPTS 2 Mbps to 19 Mbps (0.1 Mbps increments)

ENCODED VIDEO AND AUDIO

Video Resolution	1080p (30, 60 FPS); 1080i (60 FPS); 720p (30, 60 FPS); 480i (30, 60 FPS)
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Audio Format	Dolby® AC3, AAC, MP3

CV HDMI2 QAM IP

I/O CONNECTIONS

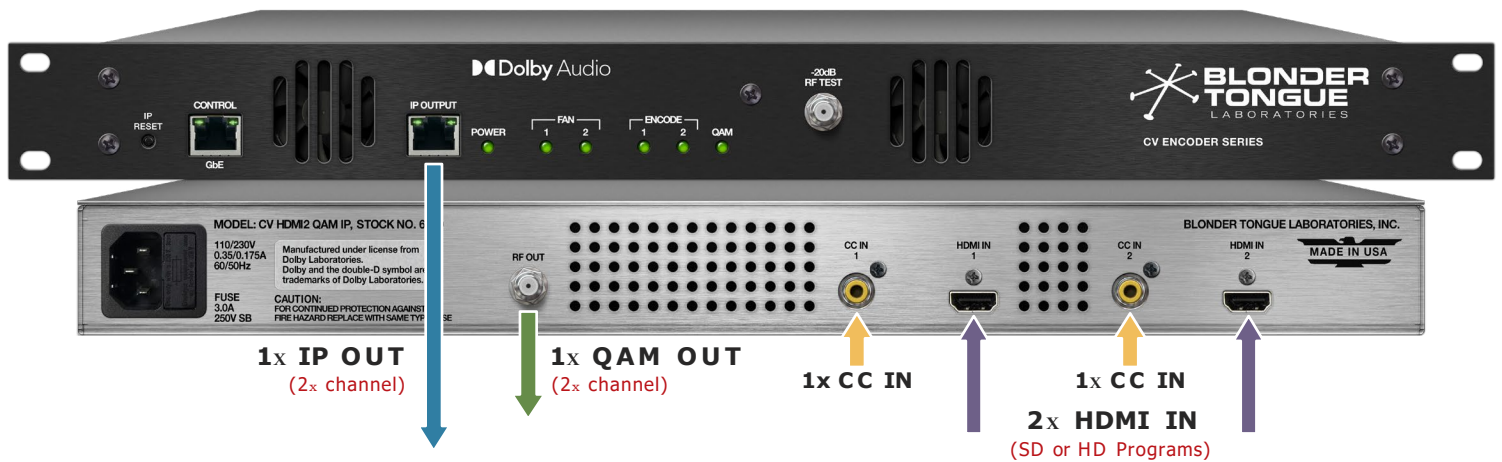


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I/O OVERVIEW



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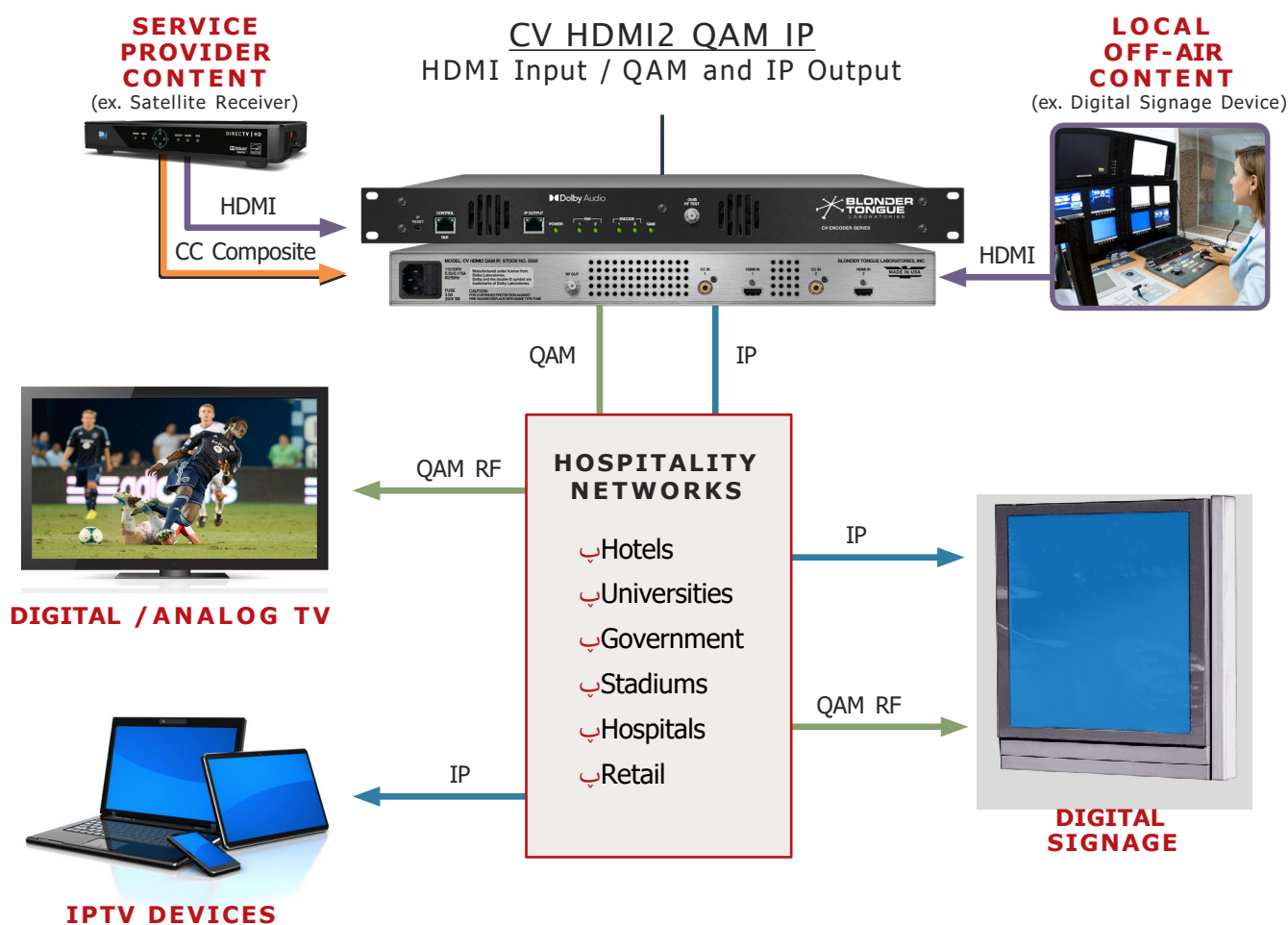
APPLICATION DIAGRAM



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IP VIDEO CONTENT DELIVERY TO HOSPITALITY NETWORKS



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