CV+
24 CHANNEL HD TRANSCODER

KEY FEATURES

» Accepts up to 24 HD or SD programs in 1RU

» Accepts IP video transport in MPEG-2, H.264, or H.265

» Dolby® Digital Audio capability

» Now with Multicast IGMP v2/v3 Input and Output Support

PRODUCT OVERVIEW

The **CV+** is a professional-grade video and audio transcoder in a 1RU form factor, designed to accept up to 24 HD or SD programs simultaneously, using up to 1Gb of data throughput. It can accept IP video transport streams in MPEG-2, H.264, or H.265 and output these streams to any combination of MPEG-2, H.264, and H.265 formats. Product features include transrating capability of specific video bit rates and specific video resolutions.

The **CV+** hardware-based video compression technology provides superior transcoding quality at low bit rates, perfect for Live Linear Broadcasting. It is designed to support a wide range of video and audio inputs and outputs, including Dolby® Digital audio encoding.

ORDERING INFORMATION

MADE IN USA

MODEL	STOCK#	DESCRIPTION
CV+	**6557 1**	24 Channel HD Transcoder

REV: 053123

INPUT

Connector	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
Standard	1000Base-T (GbE)
Protocols Supported	UDP

STREAM PROTOCOLS

Standard	ISO / IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
# of TS Supported	24 SPTS
Video Formats	MPEG-2; H.264 (AVC); H.265 (HEVC)
Video Resolutions	480i (60 FPS); 480p (30/60 FPS); 720p (30/60 FPS); 1080i (30/60 FPS); 1080p (30 FPS)
Closed Captioning	EIA-608 / EIA-708
Addressing	Unicast, Multicast

AUDIO

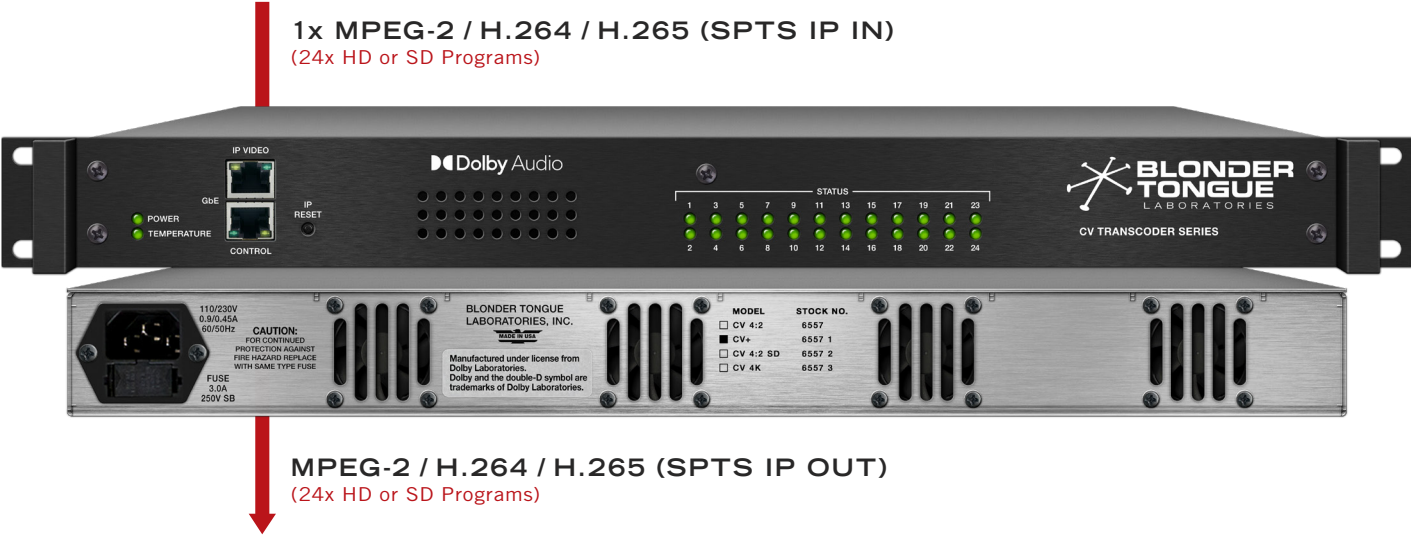|	
Input Formats	Dolby® AC3, AAC, MPEG1-Layer2 (Pass-through/Decode only), MP3
SAP	Supported
Rates	64, 96, 112, 128, 160, 192, 224, 256, 320, and 384 Kbps

GENERAL

Dimensions (W x H x D)	19.0 x 1.75 x 19.2 in (483 x 45 x 488 mm)
Weight	9.5 lbs (4.31 kg)
Power	110/230 VAC, 0.9/0.45 A, 60/50 Hz
Power Consumption	64 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

OUTPUT

Connector	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
Standard	1000Base-T (GbE)
Protocols Supported	UDP

STREAM PROTOCOLS

Standard	ISO/IEC 13818-1 Systems
TS Packet Length	188 bytes
Sync Byte	0x47
Bit Rate	CBR/Capped VBR (encoding)
Video Rate	2 to 19 Mbps (0.1 Mbps increments)
# of TS Supported	24 SPTS
Video Format	MPEG-2; H.264 (AVC); H.265 (HEVC)
Video Resolution	480i (60 FPS); 480p (30/60 FPS); 720p (30/60 FPS); 1080i (60 FPS); 1080p (30 FPS)
Closed Captioning	EIA-608 / EIA-708
Addressing	Unicast, Multicast

AUDIO

Output Formats	Dolby® AC3, AAC, MP3 (MPEG1-Layer2 Pass-through only)
SAP	Supported
Audio Bit Rates	128, 192, and 256 Kbps

ALARMS & MONITORING

Local Monitoring	1x Power and Status LED (Bicolor) 1x Temperature LED (Bicolor) 24x Transcoder Status LED (Bicolor)
Local Control	1x IP Reset Button
Remote Device Control	1x RJ45 (1000Base-T GbE) GUI-Based Menu Via Internal Web Server

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CV+
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I/O OVERVIEW

1x MPEG-2 / H.264 / H.265 (SPTS IP IN)
(24x HD or SD Programs)

MPEG-2 / H.264 / H.265 (SPTS IP OUT)
(24x HD or SD Programs)

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CV+
24 CHANNEL HD TRANSCODER

The **CV+** differs from the **CV 4:2** in that it will accept all major MPEG compression formats as inputs, supports transcoding and transrating to all major MPEG formats on the output, and will support a variety of professional Dolby® Audio functionality.

CABLE OR IPTV PROVIDER SOURCE

SATELLITE, MSO, AND TELCOS

NXG DIGITAL VIDEO SIGNAL PROCESSING PLATFORM

VIDEO ROUTER

IP MPEG-2;
H.264 (AVC);
H.265 (HEVC)
HD/SD Programs

IP MPEG-2;
H.264 (AVC);
H.265 (HEVC)
HD/SD Programs

IP MPEG-2;
H.264 (AVC);
H.265 (HEVC)
HD/SD Programs

IP MPEG-2;
H.264 (AVC);
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HD/SD Programs
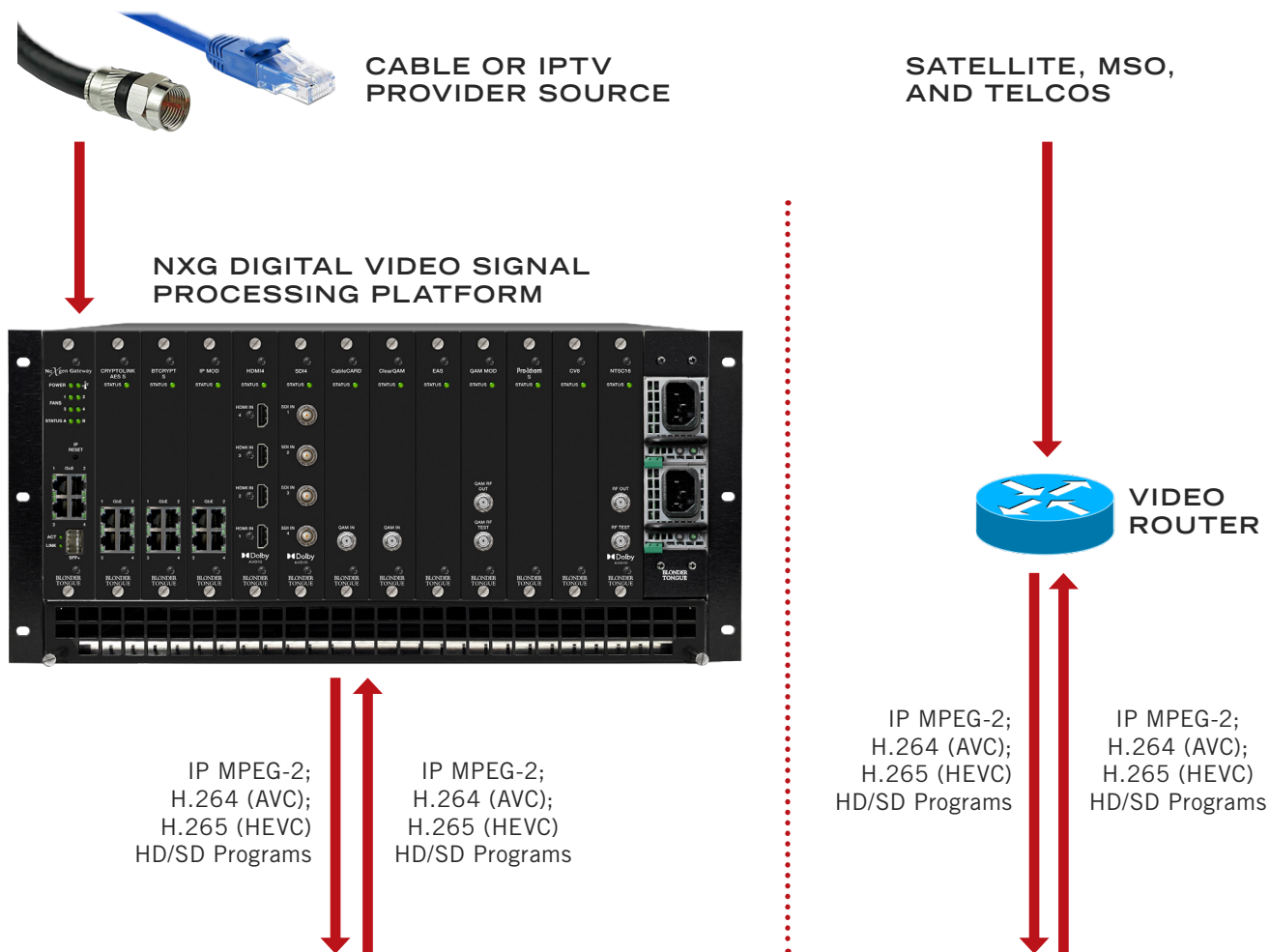
CV+ - Transcodes up to **24** channels
HD/SD input to HD/SD output, with professional Dolby® audio decode and encode capability.

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