

CV SERIES TRANSCODERS



CV 4:2 SD

24 CHANNEL H.264 TO SD (480i) MPEG-2 TRANSCODER



KEY FEATURES

- » H.264 to MPEG-2 transcodes up to 24 HD or SD programs
- » Accepts HD/SD input, IP input to IP output
- » Compatible with Technicolor's COM3000 DIRECTV® receivers

APPROVED BY
DIRECTV FOR
COM3000
DEPLOYMENTS

PRODUCT OVERVIEW

The **CV 4:2 SD** is a professional grade, low cost per stream transcoder that can transcode up to twenty-four (24) HD or SD programs from H.264 (MPEG-4) to SD MPEG-2 output in a 1RU form factor. The unit accepts unicast H.264 IP video transport streams and re-encodes the video content to SD MPEG-2 transport streams for IP Unicast delivery.

The transcoder can be configured to receive up to twenty-four (24) H.264 AES-128 encrypted IP channels from Technicolor's COM3000/2000 satellite receivers. The **CV 4:2 SD** decrypts the AES-128 content and transcodes the decrypted H.264 content into MPEG-2, while preserving DIRECTV "forensic watermarking". The content is then returned to the Technicolor COM3000/2000 devices.

ORDERING INFORMATION



MODEL	STOCK #	DESCRIPTION
CV 4:2 SD	6557 2	H.264 to SD (480i) MPEG-2 Transcoder; 24 Channel

CV 4:2 SD

SPECIFICATIONS



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
Decryption	AES-128
TS Packet Length	188 bytes
Sync Byte	0x47
Bit Rate	Constant (CBR) or Variable (VBR)
# of TS Supported	24 SPTS
Video Format	H.264 (AVC/MPEG-4)
Video Resolutions	480i (30 FPS); 720p (60 FPS); 1080i (30 FPS); 1080p (30/60 FPS)
Audio	Pass-Through
Routing Protocol	Unicast

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
Content Protection	Watermarking
TS Packet Length	188 bytes
Sync Byte	0x47
Bit Rate	Constant (CBR)
# of TS Supported	24 SPTS
Video Format	MPEG-2
Video Resolution	480i (30 FPS)
Audio	Pass-Through
Routing Protocol	Unicast

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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I/O CONNECTIONS



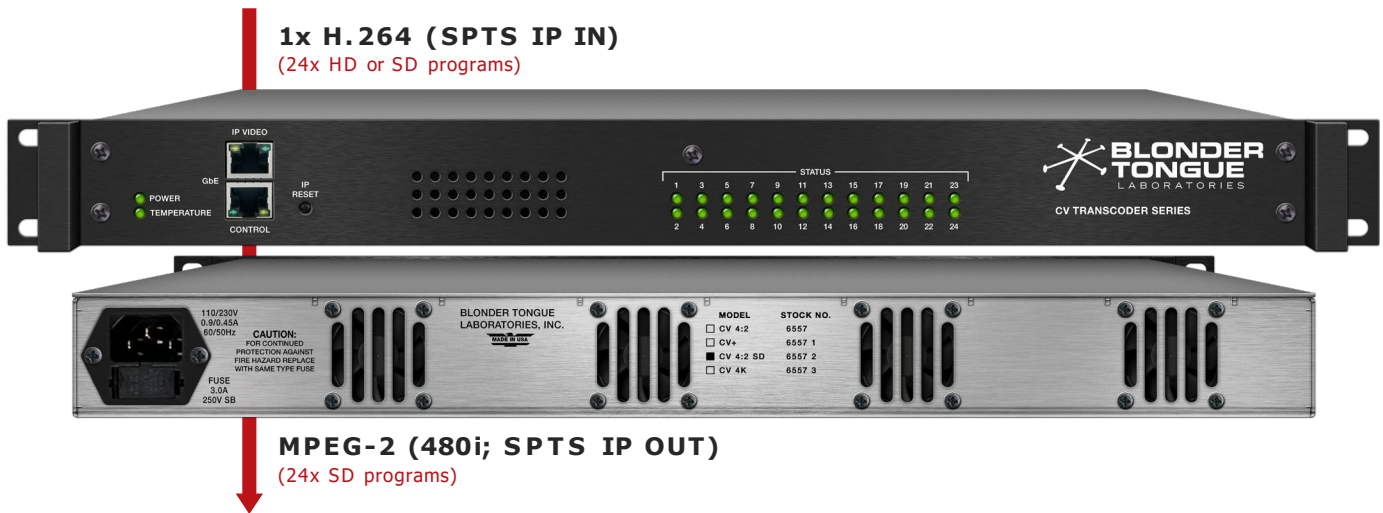
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APPLICATION DIAGRAM

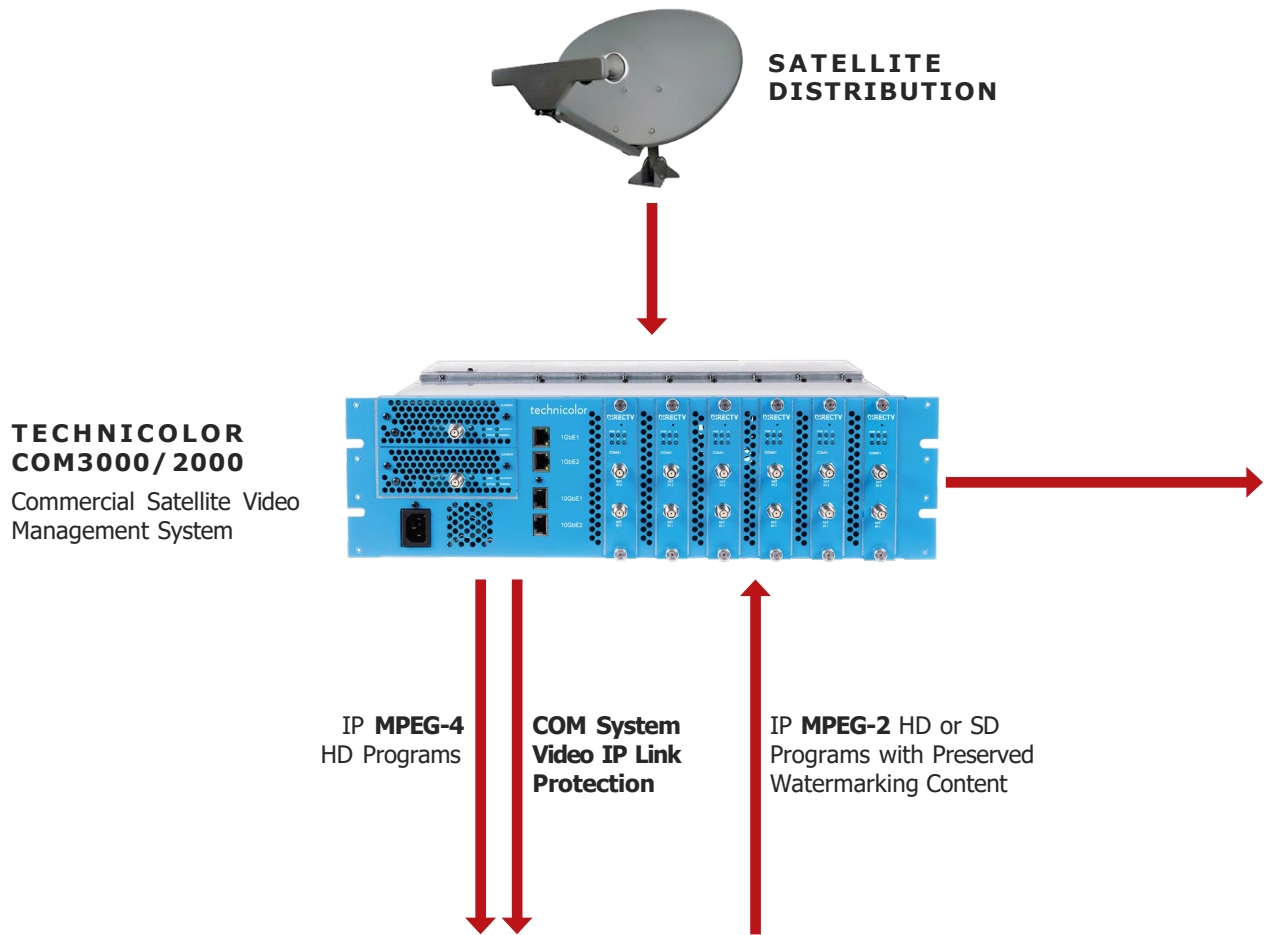


CV 4:2 SD

24 CHANNEL H.264 TO SD (480i) MPEG-2 TRANSCODER



This primary Clearview 4:2 Transcoding application provides digital television compatibility at a hotel or similar commercial lodging property.



CV 4:2

Transcodes up to **24** channels
MPEG-4 HD/SD input to
MPEG-2 HD/SD output



CV 4:2 12

Transcodes up to **12** channels
MPEG-4 HD/SD input to
MPEG-2 HD/SD output



CV 4:2 SD

Transcodes up to **24** channels
MPEG-4 HD/SD input to
MPEG-2 SD (480i) output