

# CV SERIES TRANSCODERS

## CV 4:2

24 CHANNEL MPEG-4 TO MPEG-2 HD TRANSCODER



### KEY FEATURES

- » H.264 to MPEG-2 transcodes up to 24 HD or SD programs
- » Full 1080p HD support, IP input to IP output
- » Compatible with Technicolor's COM3000 DIRECTV® receivers
- » Compatible with the NXG Platform to support on-site bulk transcoding applications

APPROVED BY  
DIRECTV FOR  
COM3000  
DEPLOYMENTS

### PRODUCT OVERVIEW

The **CV 4:2** 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 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 HD or 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 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. The **CV 4:2** will also accept "in the clear" H.264 content.

### ORDERING INFORMATION



MODEL	STOCK #	DESCRIPTION
CV 4:2	<b>6557</b>	H.264 to HD MPEG-2 Transcoder; 24 Channel

# CV 4:2

## SPECIFICATIONS



INPUT	
<b>Connector</b>	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
<b>Standard</b>	1000Base-T (GbE)
<b>Protocols Supported</b>	UDP
STREAM PROTOCOLS	
<b>Standard</b>	ISO / IEC 13818-1 Systems
<b>Decryption</b>	AES-128
<b>TS Packet Length</b>	188 bytes
<b>Sync Byte</b>	0x47
<b>Bit Rate</b>	Constant (CBR)
<b># of TS Supported</b>	24 SPTS
<b>Video Format</b>	H.264 (AVC/MPEG-4)
<b>Video Resolutions</b>	480i (30 FPS); 720p (60 FPS); 1080i (30 FPS); 1080p (30/60 FPS)
<b>Audio</b>	Pass-Through
<b>Routing Protocol</b>	Unicast

GENERAL	
<b>Dimensions (W x H x D)</b>	19.0 x 1.75 x 19.2 in (483 x 45 x 488 mm)
<b>Weight</b>	9.5 lbs (4.31 kg)
<b>Power</b>	110/230 VAC, 0.9/0.45 A, 60/50 Hz
<b>Power Consumption</b>	60 W
<b>Operating Temp.</b>	32 to 122 °F (0 to 50 °C)
<b>Storage Temp.</b>	-13 to 158 °F (-25 to 70 °C)
<b>Operating Humidity</b>	0 to 95% RH @ 35 °C max, non-condensing

OUTPUT	
<b>Connector</b>	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
<b>Standard</b>	1000Base-T (GbE)
<b>Protocols Supported</b>	UDP
STREAM PROTOCOLS	
<b>Standard</b>	ISO/IEC 13818-1 Systems
<b>Content Protection</b>	Watermarking
<b>TS Packet Length</b>	188 bytes
<b>Sync Byte</b>	0x47
<b>Bit Rate</b>	Constant (CBR)
<b># of TS Supported</b>	24 SPTS
<b>Video Format</b>	MPEG-2
<b>Video Resolution</b>	480i (30 FPS); 720p (60 FPS); 1080i (30 FPS); 1080p (30/60 FPS)
<b>Audio</b>	Pass-Through
<b>Routing Protocol</b>	Unicast

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

# CV 4:2

## I/O CONNECTIONS



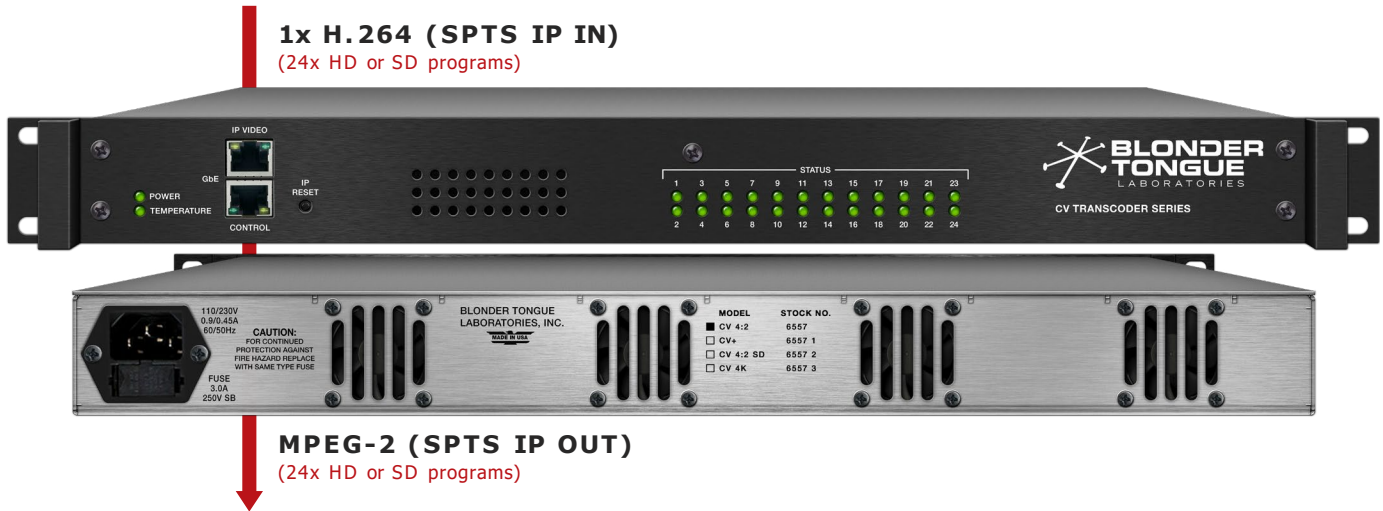
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## I/O OVERVIEW

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CV 4:2	<b>6557</b>	H.264 to HD MPEG-2 Transcoder; 24 Channel

# CV 4:2

APPLICATION DIAGRAM

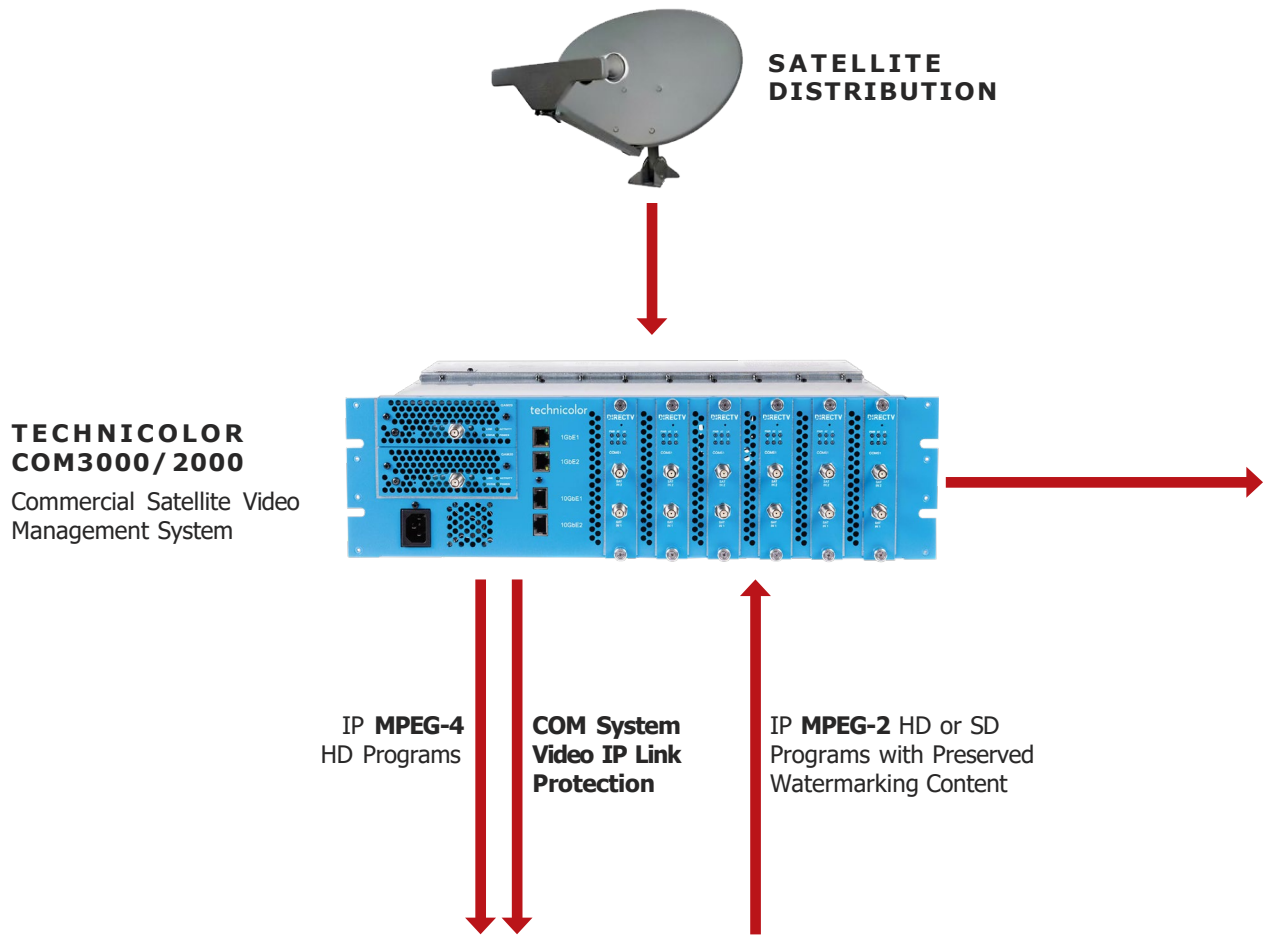


# CV 4:2

24 CHANNEL MPEG-4 TO MPEG-2 HD 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