



# CLEARVIEW 4:2 12

12 CHANNEL MPEG-4/MPEG-2 TO MPEG-2 HD/SD TRANSCODER



## KEY FEATURES

- » H.264/MPEG-2 to MPEG-2 transcodes up to 12 HD or SD programs
- » Full 1080p HD support, IP input to IP output
- » Compatible with Technicolor’s COM3000 DirecTV receivers

APPROVED  
FOR COM3000  
DEPLOYMENTS

## PRODUCT OVERVIEW

The **Clearview 4:2 12** is a professional grade, low cost per stream transcoder that can transcode up to twelve (12) HD or SD programs from H.264 (MPEG-4/AVC) or MPEG-2 to MPEG-2 output in a 1RU form factor. The unit accepts unicast H.264/MPEG-2 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 twelve (12) H.264/MPEG-2 AES-128 encrypted IP channels from Technicolor’s COM3000/2000 satellite receivers. The Clearview 4:2 12 decrypts the AES-128 content and transcodes the decrypted H.264/MPEG-2 content into MPEG-2 HD or SD while preserving DirecTV “forensic watermarking”. The content is then returned to the Technicolor COM3000/2000 devices. The **Clearview 4:2 12** will also accept “in the clear” H.264/MPEG-2 content.

## ORDERING INFORMATION



MODEL	STOCK#	DESCRIPTION
Clearview 4:2 12	<b>6559</b>	H.264/MPEG-2 to HD MPEG-2 Transcoder; 12 Channel

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) or Variable (VBR)
<b># of TS Supported</b>	12 SPTS
<b>Video Format</b>	H.264 (AVC/MPEG-4) or MPEG-2
<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>	12 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) 12x 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

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### I/O OVERVIEW

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**1x H.264/MPEG-2 (SPTS IP IN)**  
(12x HD or SD programs)



**MPEG-2 (SPTS IP OUT)**  
(12x HD or SD programs)

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