





# **Clearview**<sup>TM</sup> Transcoder Series

SUPERIOR VIDEO QUALITY AT LOW BIT RATES

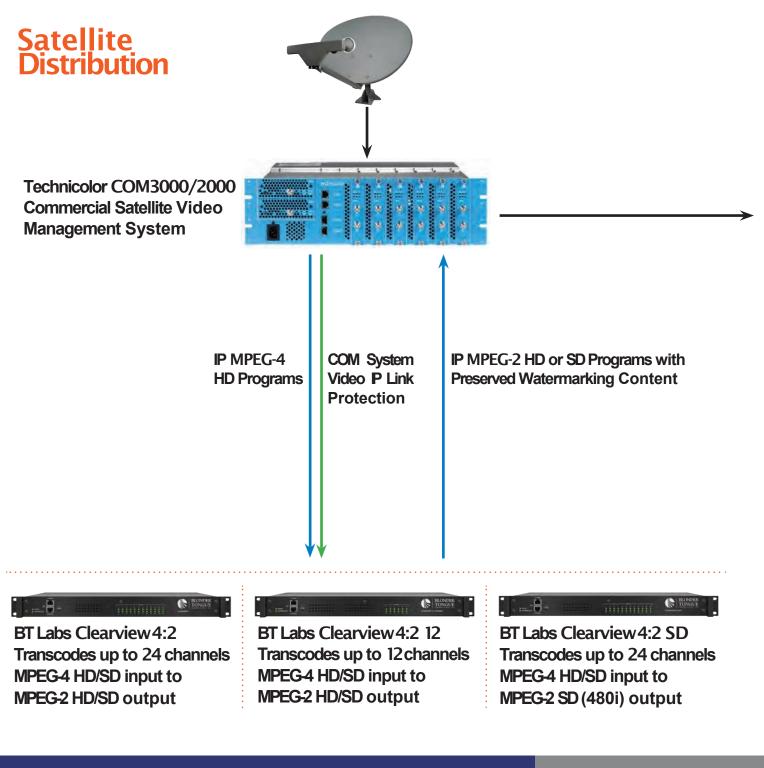
3150 SW 15th Street | Deerfield Beach, FL 33442 | 954.427.5711 | sales@amt.com | www.amt.com





## Cleaview™ 4:2 Application

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





The **Clearview products** have an easy-to-use interface, with the capability of downloading and uploading configuration files for multi-unit deployments.

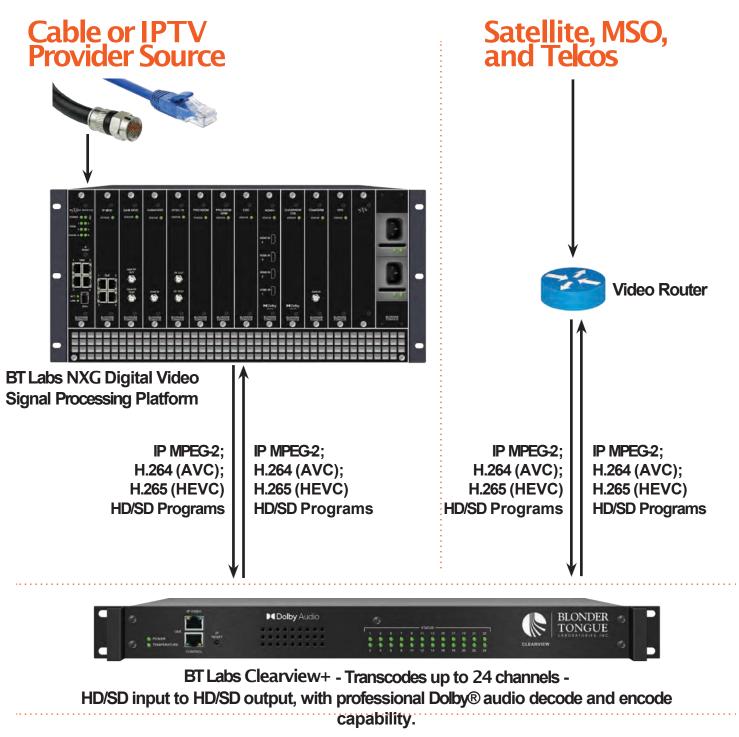
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## Cleaview+™ Applications

The **Clearview**+ differs from the **Clearview** 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<sup>®</sup> Audio functionality.





Perfect for Live Linear Broadcasting, the Clearview + ultra-low latency hardwarebased video compression technology provides superior transcoding quality at low bit rates, emphasizing the advanced full range of MPEG transcoding and Dolby functions - while including the support of multicast output protocols.

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Clearview™ 4:2

#### 24 Channel MPEG-4 to MPEG-2 High-Def. IP Transcoder

#### **Key Features**

» H.264/MPEG-4 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 BT Labs' NXG to support on-site bulk transcoding applications



1xBidirectional RJ45 (IP Video Port, Input/Output)1xBidirectional RJ45 (Control Interface)1RUForm Factor, 9.5 IbsPower: 110230 VAC, 0.9/0.45A, 60/50 HzPower Consumption: 60 W

The **Clearview 4:2** can Transcode up to **twenty-four (24)** HD or SD programs from H.264 (MPEG-4) sources to MPEG-2 output in 1RU. The unit accepts Unicast H.264 IP transport streams and re-encodes the video content to MPEG-2 transport streams for IP Unicast delivery.

The Clearview product line has an easy-to-use interface, with the capability of downloading and uploading configuration files for multi-unit deployments.

**Clearview 42** can be configured to receive up to **twenty-four (24)** H.264 AES-128 encrypted P channels from Technicolor COM3000/2000 satellite receivers. The Clearview 42 decrypts the AES-128 content and Transcodes the decrypted H.264 content into MPEG-2, while preserving the DirecTV 'forensic watermarking' and returns the content to the Technicolor



## **Clearview+**<sup>™</sup>

24 Channel MPEG-2, H.264, or H.265 IP Transcoder

#### **Key Features**

- » Accepts up to 24 HD or SD programs
- » Accepts IP video transport in MPEG-2, H.264, or H.265 formats
- » Dolby® Digital Audio capability



1xBi-directional RJ45 (IP Video Port, Input/Output)1xBi-directional RJ45 (Control Interface)1RUForm Factor, 9.5 lbsPower: 110230 VAC, 0.9/0.45A, 60/50 HzPower Consumption: 64 W

Perfect for Live Linear Broadcasting, the **Clearview+** hardware-based video compression technology provides superior Transcoding quality at low bit rates. The Clearview+ is designed to support a wide range of video and audio inputs and outputs, including **Dolby**<sup>®</sup> **Digital** audio encoding.

The **Clearview+** accepts up to **twenty-four (24)** HD or SD programs simultaneously, using up to 1Gb of data throughput. The unit 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.



**Clearview**<sup>TM</sup> 4:2 12

12 Channel MPEG-4 to MPEG-2 High-Def. IP Transcoder

#### **Key Features**

» H.264/MPEG-4 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



The **Clearview 4:2** 12 can Transcode up to **twelve (12)** HD or SD programs from H.264 (MPEG-4) sources to MPEG-2 in 1RU. The unit accepts Unicast H.264 IP transport streams and re-encodes the video content to MPEG-2 transport streams for IP Unicast delivery.

The Clearview product line has an easy-to-use interface, with the capability of downloading and uploading configuration files for multi-unit deployments.

The **Clearview 42 P** can be configured to receive up to **twelve (12)** H.264 AES-128 encrypted IP channels from Technicolor COM3000/2000 satellite receivers. The Clearview 4:2 12 decrypts the AES-128 content and Transcodes the decrypted H.264 content into MPEG-2, while preserving the DirecTV 'forensic watermarking' and returns the content to the Technicolor COM3000/2000 devices.

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24 Channel MPEG-4 to SD(480i) MPEG-2 IP Transcoder

#### **Key Features**

» H.264/MPEG-4 to MPEG-2 Transcodes up to 24 HD or SD programs

- » Accepts HD/SD input, IP input to IP output with constrained SD (480i) output
- » Compatible with Technicolor's COM3000 DirecTV receivers



1xBi-directional RJ45 (IP Video Port, Input/Output)1xBi-directional RJ45 (Control Interface)1RUForm Factor, 9.5 lbsPower: 110230 VAC, 0.9/0.45A, 60/50 HzPower Consumption: 64 W

The **Clearview 4:2 SD** can Transcode up to **twenty-four (24)** HD or SD programs from H.264 (MPEG-4) sources to SD MPEG-2 output in 1RU. The unit accepts Unicast H.264 IP transport streams and re-encodes the video content to SD MPEG-2 transport streams for IP Unicast delivery.

The Clearview product line has an easy-to-use interface, with the capability of downloading and uploading configuration files for multi-unit deployments.

The **Clearview 4:2 SD** can be configured to receive up to **twenty-four (24)** H.264 AES-128 encrypted **P** channels from Technicolor COM3000/2000 satellite receivers. The Clearview 4:2 **SD** decrypts the AES-128 content and Transcodes the decrypted H.264 content into MPEG-2, while preserving the DirecTV 'forensic watermarking' and returns the content to the Technicolor COM3000/2000 devices.

#### Specifications Blonder Tonque

#### **Clearview 4:2**

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INPUT		OUTPUT	
IP		IP	
Connector:	1xFront Panel RJ45	Connector:	1xFront Panel RJ45
	(IP Video Port, Input/Output)		(IP Video Port, Input/Output)
Standard:	1000Base-T (GbE)	Standard:	1000Base-T (GbE)
Protocols Supported:	UDP	Protocols Supported:	UDP
Stream Protocols		Stream Protocols	
Standard:	ISO/IEC 13818-1 Systems	Standard:	ISO/IEC 13818-1 Systems
Decryption:	AES-128	Content Protection:	Watermarking
TS Packet Length:	188 bytes	TS Packet Length:	188 bytes
Sync Rate:	0x47	Sync Byte:	0x47
Bit Rate:	Constant	Bit Rate:	Constant
TSSupported:	24 SPTS	TSSupported:	24 SPTS
CODEC:	H.264, MPEG-4, AVC	CODEC:	MPEG-2
Input Resolution:	480i (30 FPS)	Output Resolution:	480i (30 FPS)
	720p (60 FPS)		480p (30/60 FPS)
	1080i (30 FPS)		720p (30/60 FPS)
	1080p (30/60 FPS)		1080i (30 FPS)
Audio:	Pass-through	Audio:	Pass-through
Routing Protocol:	Unicast	Routing Protocol:	Unicast

#### Clearview 4:2 12

INPUT		ОИТРИТ	
IP		IP	
Connector:	1x Front Panel RJ45	Connector:	1xFront Panel RJ45
	(IP Video Port, Input/Output)		(IP Video Port, Input/Output)
Standard:	1000Base-T (GbE)	Standard:	1000Base-T (GbE)
Protocols Supported:	UDP	Protocols Supported:	UDP
Stream Protocols		Stream Protocols	
Standard:	ISO/IEC 13818-1 Systems	Standard:	ISO/IEC 13818-1 Systems
Decryption:	AES-128	Content Protection:	Watermarking
TS Packet Length:	188 bytes	TS Packet Length:	188 bytes
Sync Rate:	0x47	Sync Byte:	0x47
Bit Rate:	Constant or VBR	Bit Rate:	Constant
TS Supported:	12SPTS	TSSupported:	12SPTS
CODEC:	H.264, MPEG-4, AVC	CODEC:	MPEG-2
Input Resolution:	480i (30 FPS)	Output Resolution:	480i (30 FPS)
	720p (60 FPS)		480p (30/60 FPS)
	1080i (30 FPS)		720p (30/60 FPS)
	1080p (30/60 FPS)		1080i (30 FPS)
Audio:	Pass-through	Audio:	Pass-through
Routing Protocol:	Unicast	Routing Protocol:	Unicast

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INPUT		OUTPUT	
IP		IP	
Connector:	1x Front Panel RJ45	Connector:	1x Front Panel RJ45
	(IP Video Port, Input/Output)		(IP Video Port, Input/Output)
Standard:		Standard:	
Protocols Supported:	UDP	Protocols Supported:	UDP
Stream Protocols		Stream Protocols	
Standard:	ISO/IEC 13818-1 Systems	Standard:	ISO/IEC 13818-1 Systems
TS Packet Length:	-	TS Packet Length:	······································
Sync Byte:		Sync Byte:	
TS Supported:		Encoding Type:	
Video Format:	MPEG-2, H.264 (AVC); H.265 (HEVC)	Video Bit Rates:	
Video Resolution:	480i (60 FPS);	TSSupported:	
	480p (30/60 FPS);	Video Format:	- / - / // / /
	720p (30/60 FPS);	Video Resolution:	
	1080i (60 FPS);		480p (30/60 FPS);
	1080p (30 FPS)		720p (30/60 FPS);
Closed Captioning:	EIA608/EIA708		<b>1080i</b> (60 FPS);
Addressing:	Unicast		1080p (30 FPS)
Audio Input Formats:	Dolby® AC3, AAC, MPEG1-Layer2	Closed Captioning:	
	(Pass-through/Decode only), MP3	Addressing:	
SAP:	••	Audio Input Formats:	
Audio Rates:	64, 96, 112, 128, 160, 192, 224, 256,		(MPEG1-Layer2 Pass-through only)
	320, and 384 Kbps	SAP:	
		Audio Bit Rates:	128, 192, and 256 Kbps

#### **Clearview 4:2 SD**

INPUT		Ουτρυτ	
IP		IP	
Connector:	1xFront Panel RJ45	Connector:	1x Front Panel RJ45
	(IP Video Port, Input/Output)		(IP Video Port, Input/Output)
Standard:	1000Base-T (GbE)	Standard:	1000Base-T (GbE)
Protocols Supported:	UDP	Protocols Supported:	UDP
Stream Protocols		Stream Protocols	
Standard:	ISO/IEC 13818-1 Systems	Standard:	ISO/IEC 13818-1 Systems
Decryption:	AES-128	Content Protection:	Watermarking
TS Packet Length:	188 bytes	TS Packet Length:	188 bytes
Sync Rate:	0x47	Sync Byte:	0x47
Bit Rate:	Constant or VBR	Bit Rate:	Constant
TSSupported:	24 SPTS	TSSupported:	24 SPTS
CODEC:	H.264, MPEG-4, AVC	CODEC:	MPEG-2
Input Resolution:	480i (30 FPS)	Output Resolution:	480i (30 FPS)
	720p (60 FPS)	Audio:	Pass-through
	1080i (30 FPS)	Routing Protocol:	Unicast
	1080p (30/60 FPS)		
Audio:	Pass-through		
Routing Protocol:	Unicast		

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