CLEARVIEW+

24 CHANNEL HD TRANSCODER

advanced media technologies®

Blonder Tongue

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
- Superior Transcoding quality at low bit rates

Product Overview

The **Clearview+**™ 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. 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.

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

Ordering Information

Model	Stock #	Description
Clearview+	6557 1	24 Channel HD Transcoder

Clearview+™ *24 Channel HD Transcoder*

Input

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

Stream Protocols

Standard:	ISO/IEC 13818-1 Systems
TS Packet Length:	188 bytes
Sync Byte:	0x47
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:	EIA608/EIA708
Addressing:	Unicast

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

Alarms & Monitoring

Local Monitoring:	1x Power LED
	1x Temperature LED
	24x Status LEDs
Local Control:	1x IP Reset Button
Remote Control:	1x RJ45 (1000Base-T GbE)

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
Encoding Type:	CBR/Capped VBR
Video Bit Rates:	2-19 Mbps (0.1 Mbps increments)
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:	EIA608/EIA708
Addressing:	Unicast

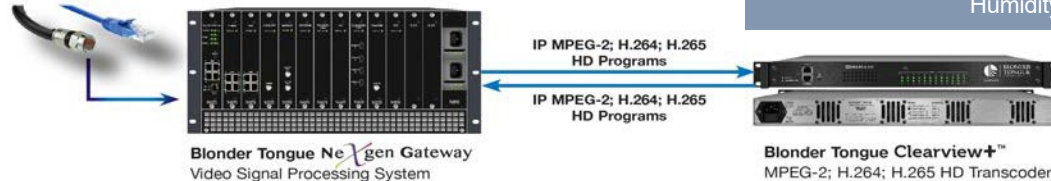|	
Audio Output Formats:	Dolby® AC3, AAC, MP3 (MPEG1-Layer2 Pass-through only)
SAP:	Supported
Audio Bit Rates:	128, 192, and 256 Kbps

General Specifications

Dimensions:	19.0 x 19.2 x 1.75" (483 x 488 x 45 mm)
Unit Weight:	9.5 lbs (4.31 kg)
Shipping Weight:	12 lbs (5.44 kg)
Power:	110/230 VAC, 0.9/0.45 A, 60/50 Hz
Power Consumption:	64 W
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating/Storage Humidity:	0 to 95% RH @35 °C max, non-condensation

Application Diagrams

Cable or IPTV Provider Source

IP MPEG-2; H.264; H.265 HD Programs

IP MPEG-2; H.264; H.265 HD Programs

Blonder Tongue Nexgen Gateway
Video Signal Processing System

Blonder Tongue Clearview+™
MPEG-2; H.264; H.265 HD Transcoder

Satellite, MSO, & Telco Transcode Applications

IP MPEG-2; H.264; H.265 HD Programs

IP MPEG-2; H.264; H.265 HD Programs

Video Router

Blonder Tongue Clearview+™
H.264 to MPEG-2 HD Transcoder