

CLEARVIEW+ MPEG-2/H.264/H.265 HD Transcoder

The Blonder Tongue Labs **Clearview+**™ is a professional grade video and audio Transcoder in a 1RU form factor, designed to accept 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 IP transport 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 unit was designed to support a wide range of video and audio inputs and outputs, as well as Dolby® Digital audio capability to reduce capital and operational costs.



Features

- Stand-alone 1RU Transcoder for the Advanced Transcoding/Transrating of IPTV signals
- SD to HD upscaling or HD to SD downscaling
- IP input up to 24 SPTS MPEG-2, H.264 (AVC), H.265 (HEVC) HD programs
- IP output up to 24 SPTS MPEG-2, H.264 (AVC), H.265 (HEVC) HD programs
- Primary and secondary Audio types: Dolby® Digital AC3, AAC, MPEG1-Layer2 (pass-through only), MP3
- 1080i to 720p or 720p to 1080i resolution conversions yields improved compatibility/bandwidth savings
- 24 front panel Status LEDs, one (1) per each program stream
- Front panel Temperature LED
- Easy-to-use GUI for monitoring and control

Ordering Information

Model	Stock #	Description
Clearview+	6557 1	MPEG-2, H.264 (AVC), H.265 (HEVC) to MPEG-2, H.264 (AVC), H.265 (HEVC) HD Transcoder

CLEARVIEW+ MPEG-2/H.264/H.265 HD Transcoder

Specifications

Input

IP	Connector:	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
	Standard:	1000Base-T (GbE)
	Protocols Supported:	UDP
Stream Portfolio	Standard:	ISO/IEC 13818-1
	TS Packet Length:	188 bytes
	Sync Byte:	0x47
	TS Supported:	24 SPTS
	Video Format:	MPEG-2; H.264 (AVC); H.265 (HEVC)
	Video Resolution (fps):	480i (60); 480p (30/60); 720p (30/60); 1080i (60); 1080p (30)
Closed Captioning:	Addressing:	Supported
	Addressing:	Unicast
Audio	Format:	Dolby® AC3, AAC, MPEG1-Layer2, MP3
	Audio Bit Rates (Kbps):	64, 96, 112, 128, 160, 192; 224, 256, 320, and 384 Kbps
Sample Bit Rates	AAC / MPEG (kHz):	16, 32, 44.1, 48 kHz
	Dolby® Digital AC3 (kHz):	32, 44.1, 48 kHz

Output

IP	Connector:	1x Bi-directional Front Panel RJ45 (IP Video Port, Input/Output)
	Standard:	1000Base-T (GbE)
	Protocols Supported:	UDP
Stream Portfolio	Standard:	ISO/IEC 13818-1
	TS Packet Length:	188 bytes
	Sync Byte:	0x47
	Bit Rate:	CBR/VBR (Encoding)
	Video Rate:	3-19 Mbps (.1 mbps increments)
	TS Supported:	24 SPTS
Video Format:	Video Format:	MPEG-2; H.264 (AVC); H.265 (HEVC)
	Video Resolution (fps):	480i (60); 480p (30/60); 720p (30/60); 1080i (60); 1080p (30)
Closed Captioning:	Addressing:	Supported
	Addressing:	Unicast
Audio	Format:	Dolby® AC3, AAC, MP3 (MPEG1-Layer2 is Pass-Through Only)
	Audio Bit Rates:	Follow Input Audio Bit Rates

Alarms/Monitoring/Control

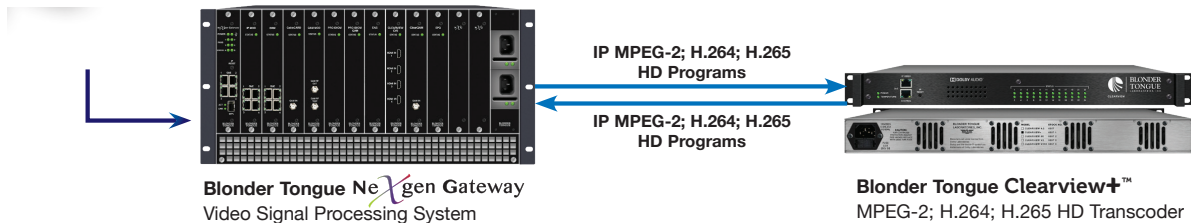
Local Monitoring:	1x Power LED 1x Temperature LED 24x Status LEDs
Local Control:	1x IP Reset button
Remote Monitoring/Control:	1x RJ45 (1000Base-T GbE)

General

Unit Dimensions (W x D x H):	19.0 x 19.2 x 1.75 inches (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



Satellite, MSO, & Telco Transcode Applications

