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Other Series

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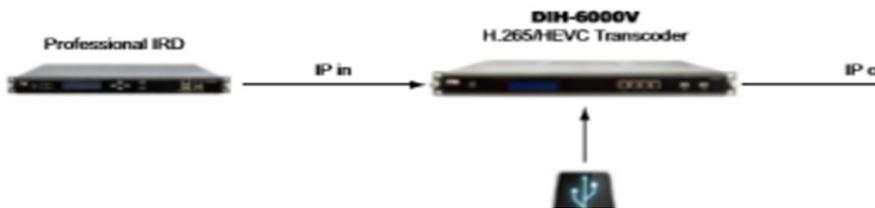# DIH-6000V
High-Density H.264/H.265 Transcoder

The DIH-6000V is a high-density transcoder based on a high-performance chipset. With low-bitrate HEVC transcoding and multiple resolutions, it is particularly suited for multi-screen IPTV systems (TV, smartphones, tablets). Services can thus be transcoded at low bitrates (<1Mb/s, D1) while maintaining good picture quality. Additionally, messages and logos can be inserted. It also supports re-multiplexing of SPTS and MPTS.

Main Features

- Compatible with H.265 (HEVC) Baseline, Main Profile @ L6.2 or lower, H.264 (AVC) Baseline, Main & High Profile @ L5.1 or lower
- Supports 1*4K (2160p60), 2*4K (2160p30), 8HD or 32SD
- Video resolution from 96*96 up to 4096*2160
- Bitrate from 800 Kb/s up to 20 Mb/s
- Multi-audio transcoding and pass-through with MPEG-1 Layer II and AAC
- PSI/SI table editing and PID pass-through
- File transcoding
- Rolling message insertion
- Logo insertion
- PCR auto-correction
- Up to 100 SPTS/MPTS outputs, 100 Mb/s per stream within a 1 Gb/s limit
- Supports 1+N output redundancy (for remux only)
- Remote control via HTTP

Typical Use

Technical Specifications

INPUT

IP Input

Connector Type	RJ45 * 4, 1000M/100M Full Duplex
Protocol	UDP-Multicast, UDP-Unicast, RTMP, HTTP-HLS, HTTP-FLV
Type	TS/IP

Decoding Format

Video Format	AVS+,H.265/HEVC, H.264/AVC, MPEG-2, MPEG-4
Audio Format	MPEG-1, MPEG-2, MPEG-4, AAC, DRA
Source media information parsing	Video format, Resolution, Aspect ratio, Frame rate, Video bit rate, Audio format, Audio channel, Sampling rate, Audio bit rate, Audio bit depth

OUTPUT

IP Output

Connector Type	RJ45 * 4, 1000M/100M Full Duplex,
Protocol	UDP-Multicast, UDP-Unicast, RTMP, HTTP-HLS, HTTP-FLV
Type	TS/IP

Encoding Format

Video Format	HEVC(H.265)/H.264
Audio Format	MPEG-1 Layer 2, MPEG-2 AAC
Package Format	MPEG-TS
Bitrate Control	VBR, CBR

Video Resolution	4096*2160, 3840*2160, 2560*1440,1920*1080, 1280*720, 960*540, 852*480, 720*576, 720*480, 704*576, 704*288, 640*480, 640*360, 544*576, 544*480, 480*576, 480*320, 480*270, 360*320, 352*576, 352*288, 352*240, 320*240, 320*200, 240*160, 192*192, 192*128, 176*144, 160*120, 128*96, 96*96
Video Aspect Ratio	Auto, 4:3, 16:9
Video Frame Rate	Auto, 10fps, 15fps, 20fps, 23.97fps, 24fps, 25fps, 29.97fps, 30fps, 50fps, 60fps
Chrominance Sampling	Auto, YUV 4:2:0, YUV 4:4:4
Bit Depth	8bit, 10bit (only HEVC)
Video Bitrate	800Kbps ~ 20Mbps, User Defined
Audio Sampling Rate	Auto, 32 KHz, 44.1 KHz, 48 KHz
Audio Bitrate	64kbps, 96kbps, 128kbps, 192kbps, 256kbps, 384kbps

Control and Monitoring

Connector Type	RJ45 * 1, 1000M/100M Full Duplex (shared with the data port)
Remote Control	HTTP Web GUI

General

Power Consumption	AC 110V ~ 240V, 6.4A, 50 ~ 60Hz, Max.500W
Operation Temperature	5 ~ 45 ℃
Storage Temperature	-10 ~ 65 ℃
Dimension	505mm x 485mm x 44mm
Weight	8.7 Kg

DIH-6100EV
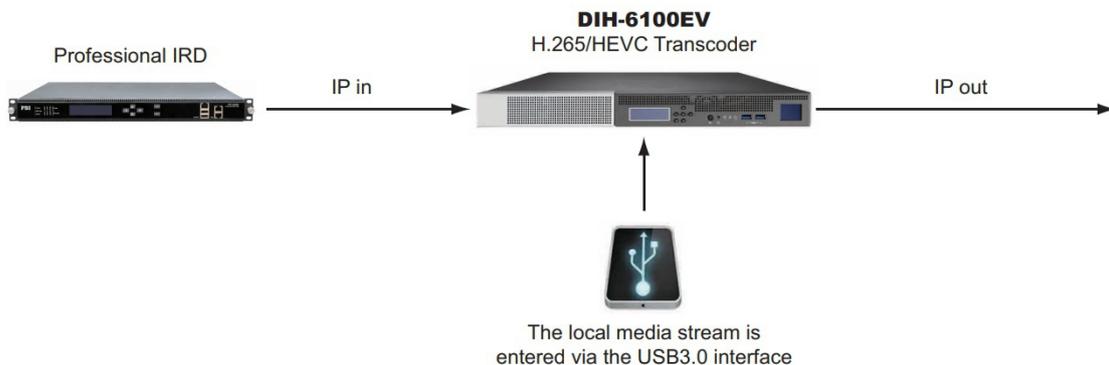## Multi-Screen H.265 / HEVC Encoder/Transcoder

The DIH-6100EV, which can efficiently process SD/HD depending on server architecture, is specifically designed for multi-screen, multi-resolution applications in DVB, IPTV, and mobile television. Programs can be encoded in multiple resolutions while preserving image quality. It also supports IP re-multiplexing of MPTS and SPTS streams. The multiple video resolution features are perfectly suited for multi-screen delivery (TVs, smartphones, tablets, PCs, etc.).

User-friendly network management tools help easily configure and monitor operational status.

The DIH-6100EV-Plus is the enhanced version of the DIH-6100EV, which supports broadcast UHD 4K encoding.

Main Features

- Video compliant with H.265/HEVC Baseline, Main Profile@L6.2 or lower, H.264/AVC Baseline, Main & High Profile@L5.1 or lower
- Audio compatible with MPEG-1 Layer II, AAC transcoding
- Resolution from 96*96 to 4096*2160
- Resolution up to 3840*2160 (DIH6100E-Plus only)
- Bitrate from 800 Kbps to 20 Mbps
- Supports 1*4K P60 H.265/HEVC 4:2:0 10-bit encoding
- Supports 1*4K P60 4:2:2 10-bit H.265/HEVC encoding (DIH-6100E-Plus only)
- Supports local video transcoding and broadcasting
- Scrolling subtitle insertion
- Logo insertion
- Supports real-time per-channel input bitrate monitoring, TS packet continuity error count monitoring, PSI/SI information viewing
- PSI/SI editing, PID filtering/remapping/pass-through, PCR auto-correction
- Up to 100 MPTS/SPTS output channels, 100 Mbps per channel
- Supports 1:N output backup
- HTTP remote control.

Typical Use

Professional IRD

IP in

DIH-6100EV
H.265/HEVC Transcoder

IP out

The local media stream is entered via the USB3.0 interface

Technical Specifications

Input	
IP Input	
Interface	RJ45 × 3pcs, 1000M/100M, Full Duplex, HDMI/SDI × 1
Protocol	UDP-Multicast, UDP-Unicast, RTP, HTTP, RTSP, RTMP, HTTP-HLS, FTP
Type	IP Streaming or Files (TS/MP4/FLV), HDMI/SDI
Re-multiplex	
Input	SPTS / MPTS
Null Packet Processing	Null packet insertion and filtering
TS Editing	Service editing
	PSI/SI editing
	PID filtering / remapping / pass-through
	Automatic PCR correction
Maximum Bitrate	100 Mbps per channel
Maximum Number of TS	100 output TS streams (with transcoder function disabled)
Output	
IP Output	
Interface	RJ45 × 1pcs, 1000M/100M, Full Duplex
Protocol	UDP-Multicast, UDP-Unicast, RTMP, HTTP-HLS, HTTP-FLV, RTP
Type	IP Streaming
Video/Audio Encoding Parameters	
Video Format	HEVC (H.265) / H.264
Audio Format	MPEG-1 Layer 2, MPEG-2 AAC
Packet Format	MPEG-TS
Bitrate Control	VBR, CBR
Video Resolution	4096*2160, 3840*2160, 2560*1440, 1920*1080, 1280*720, 960*540, 852*480, 720*576, 720*480, 704*576, 704*288, 640*480, 640*360, 544*576, 544*480, 480*576, 480*320, 480*270, 360*320, 352*576, 352*288, 352*240, 320*240, 320*200, 240*160, 192*192, 192*128, 176*144, 160*120, 128*96, 96*96 DIH-6100EV-Plus only supports the following video resolutions: 3840*2160, 1920*1080, 1280*720, 720*480

Video Aspect Ratio	4:3, 16:9
Video Frame Rate	10 fps, 15 fps, 20 fps, 23.97 fps, 24 fps, 25 fps, 29.97 fps, 30 fps, 50 fps, 60 fps DIH-6100EV-Plus only supports the following video frame rates: 60 fps, 59.94 fps, 50 fps, 30 fps, 29.97 fps, 25 fps, 24 fps
Chroma Sampling	YUV 4:2:0 YUV 4:2:2 (DIH-6100EV-Plus only)
Bit Depth	8 bits, 10 bits (HEVC only)
Video Bitrate	800 Kbps ~ 20 Mbps, user-defined
Audio Sampling Rate	32 KHz, 44.1 KHz, 48 KHz
Audio Bitrate	64 kbps, 96 kbps, 128 kbps, 192 kbps, 256 kbps, 384 kbps
Control and Monitoring	
Interface	RJ45 × 1 pc, 1000M/100M, Full Duplex
Protocol	Web GUI, HTTPS
General	
Power Supply	Redundant AC dual power supply
	110V ~ 240V, 6.4A, 50 ~ 60Hz, maximum 500W
Operating Temperature	5 ~ 45 °C
Storage Temperature	-10 ~ 65 °C
Dimensions	560 mm x 440 mm x 44 mm
Weight	9.5 kg

Note: All specifications are subject to change without notice.

Order Information

Interface \ Model	DIH-6100EV	DIH-6100EV-Plus
SD/HD	●	
4K 4:2:0	●	●
4K 4:2:2		●

Rear Panel

VRM-1900
4K HD H.264/H.265 Decoder

The VRM-1900 is a 4K H.265 decoder particularly well-suited for IPTV and broadcast systems. Based on a SuperMicro server, it supports multiple input (IP/ASI) and output interfaces including HD-SDI, HDMI, and CVBS. It also allows for logo and message insertion. A delay function of up to 48 hours is available for IP input via circular content recording. The applications for the VRM series range from IPTV and OTT to WEB TV.

Main Features

- Compatible with H.265/HEVC Baseline, Main Profile @L5.1 or lower, H.264/AVC Baseline, Main & High Profile @L5.2 or lower
- Supports up to 32 H.264 HD services and 4 H.265 UHD services, depending on server HW configuration and licenses
- Video resolution from 80*64 (CIF) up to 4096*2160 (UHD)
- Video input format: MPEG-2 / MPEG-4 H.264 AVC / H.265 HEVC / WMV / DIVX / M-JPEG / RMVB
- Audio input format: WAV / MPEG-1 Layer II / AAC / WMA / MP3 / AMR / AC3
- IP input protocol: UDP / RTP / RTSP / MMS / HTTP
- DVB subtitle insertion
- Scrolling message insertion
- Logo insertion
- Configurable input content delay from 0 to 48 hours
- Supports IP input redundancy
- Template creation for typical and rapid configuration
- Remote control via WEB and SNMP

Technical Specifications

IP Input		Audio Decoding Standard	MPEG-1 Layer II, AAC (LC, HEv1, HEv2), AC3, E-AC3, WMA, MP3, AMR
Connector Type	2 x RJ-45 GbE (up to 6 optional)		
Protocols	TS (SPTS and MPTS) over UDP/RTP/HTTP, FLV over RTMP/HTTP, HLS, RTSP, MMS	Sampling Rate	32, 44.1, and 48 KHz
		Audio Bitrate	32 to 384 Kbps
ASI Input		**Control and Monitoring**	
Connector Type	4x Female BNC, 75 Ω	Connector Type	1 x RJ-45, 10/100 Base-T for IP control equipment
Standard	DVB-ASI, EN50083-9	Remote Control	SNMP, HTTP Web
Outputs		**Physical Data**	
HDMI Standard	HDMI 2.0	Dimensions	44mm x 482mm x 680mm
SDI	12G, 2*6G and 3*4G	Weight	9 Kg
UHD Standard	A-2SI and B-DL	Power Supply	AC 100V-240V, 50/60Hz
Video Decoding		Power Consumption	300W
Standard	H.264 AVC MP@L1-3, HP@L3-5.2 AVS Profile Basic L1-4.0 AVS+ Profile DVB 1-4.0 H.265/HEVC MP@L1.0-5.1 H.265/HEVC Main10 Profile@L1.0-5.1	Operating Temperature	0 - 45 °C
		Storage Temperature	-10 - 60 °C
		Humidity	10 - 90%, non-condensing
Video Resolution	3840*2160, 1920*1080, 1280*720, PAL, NTSC		
Frame Rate	p60, p59.94, p50, p30, p29.97, p25, p24, p23.98 i30, i29.97, i25		

VRM-9000/9500
H.264/H.265 (SD/HD/UHD) Encoder/Transcoder

The VRM-9000/9500 is an encoder/transcoder. Its multi-profile capability makes it particularly well-suited for multi-screen IPTV systems (TV, smartphones, tablets). Based on a SuperMicro server, it supports multiple input interfaces including HD-SDI, HDMI, and CVBS, as well as a variety of IP output protocols. It also allows for logo and message insertion. A delay function is available in transcoding mode via circular content recording. The applications for the VRM series range from IPTV and OTT to WEB TV.

Main Features

- Compatible with H.265 (HEVC) Baseline, Main Profile @L6.2 or lower, H.264 (AVC) Baseline, Main & High Profile @L5.1 or lower
- Supports multiple H.264/H.265 UHD (2160p30/60), HD, and SD encoding channels, depending on server HW configuration and licenses
- Video resolution from 80*64 up to 4096*2160
- Video input format: MPEG-2 / MPEG-4 H.264 AVC / H.265 HEVC / WMV / DIVX / M-JPEG / RMVB
- Audio input format: WAV / MPEG-1 Layer II / AAC / WMA / MP3 / AMR / AC3
- IP input protocol: UDP / RTP / RTSP / MMS / HTTP; Samba/NFS files
- File transcoding and broadcasting
- Multi-audio transcoding and pass-through with MPEG-1 Layer II and AAC
- Built-in multiplexers (DVB triplet regeneration, PSI/SI table preservation, PID pass-through, etc.)
- Scrolling message insertion
- Logo insertion
- Configurable input content delay from 0 to 48 hours
- Supports IP input and output redundancy
- Remote control via WEB and SNMP

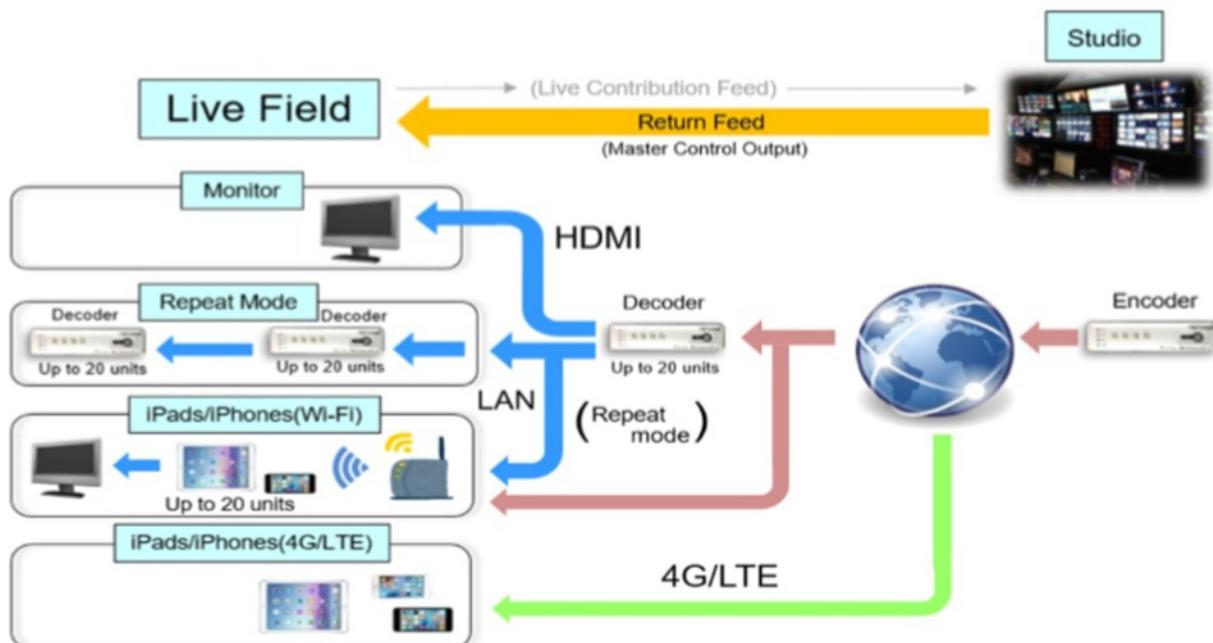# TM7006/TM7007/TM7017
IP Encoder/Decoder

The TM7006 low-latency, low-bitrate encoder/decoder pair is the ideal solution for implementing a camera backhaul (or return feed). Its high-quality, low-bitrate encoding, supporting up to 3 profiles, allows it to automatically or manually adapt to the available bandwidth. Decoding can be performed either with a TM7006 unit or with a tablet or smartphone (iPad/iPhone) using a dedicated application. With the TM7017 control panel, Tally transmission and return audio (intercom) via headsets are available during decoding via the application.
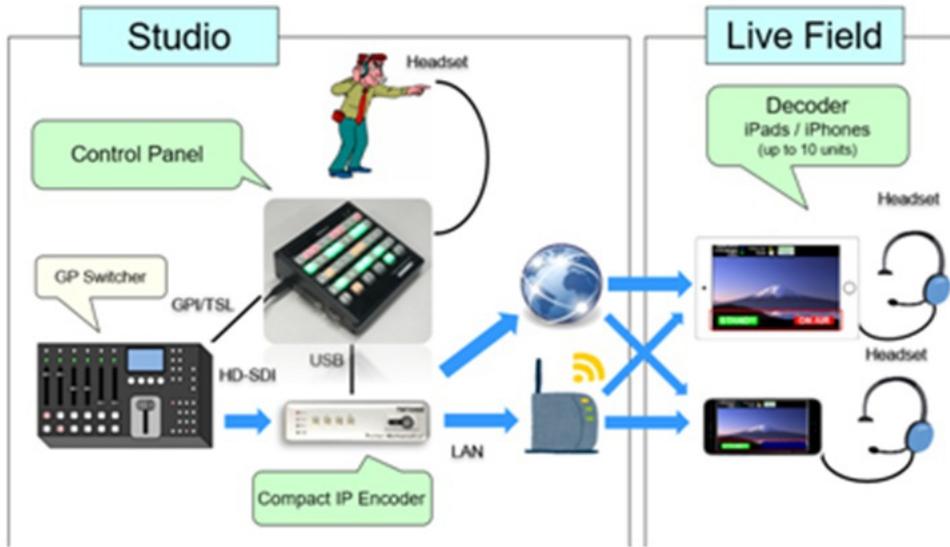

Main Features

- Low latency (100ms)
- Low-bitrate, multi-profile encoding: from 128kbps up to 3Mbps
- Seamless profile switching
- SDI or HDMI input on encoder side, HDMI output on decoder side
- Proprietary codec providing compression ratio comparable to H.265/HEVC
- Decoding application for iPad and iPhone
- Tally signal transmission to up to 10 iPad/iPhone units
- Return audio (intercom) between encoder and iPad/iPhone decoder
- Lightweight (1.5Kg), compact, and discreet (fanless)

Typical Use (without the control panel TM7010)

Typical Use (with the control panel TM7010)

Technical Specifications

Product		Features		
		TM7006E	TM7007E	TM7006D
Video	Format	HDMI Input	HD-SDI Input	HDMI Output
	Encoding Format	DMNA		
	Video Format	1080i/60, 1080i/59.94, 1080p/30, 720p/60, 480i/30		
	Frame Rate	5fps / 10fps / 15fps / 30fps / 25fps (PAL)		
Audio	Bitrate	16kbps (1ch.) / 32kbps / 64kbps / 128kbps		
	Encoding Format	Opus		
	Number of Channels	Zero / 1 channel / 2 channels		
	Sampling Rate	48KHz / 24KHz		
System Interface		IP		
	IP TS Rate	128Kbps - 3 Mbps		
	Latency	100msec		
	Maximum Connectable Decoders	20 units per encoder and/or decoder		
	Voice Communication	Bidirectional mono		
Network	Transmission Transfer Protocol	UDP/IP, Communication packet: custom packet for low latency		
	Error Correction (Option)	FEC (Pro-MPEG), ARQ (Coming Soon)		
	Security (Option - External)	AES		
Operation Buttons		4 (IP rate presets)	4 (access point presets)	
Device Display		4 LEDs (Red: error / Orange: warning / Green: operation / Blue: XMTrg)		
External Size & Weight		18.1 (L) x 5.1 (H) x 15.1 (D) cm, 1.5 kg (main unit)		
Operating Temperature		0 - 50°C		
Power Consumption		20 W Max		
Power Supply		DC 12V ±10%, AC adapter (compatible with 100v - 240v)		