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SRT

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DCH-5300EC-D

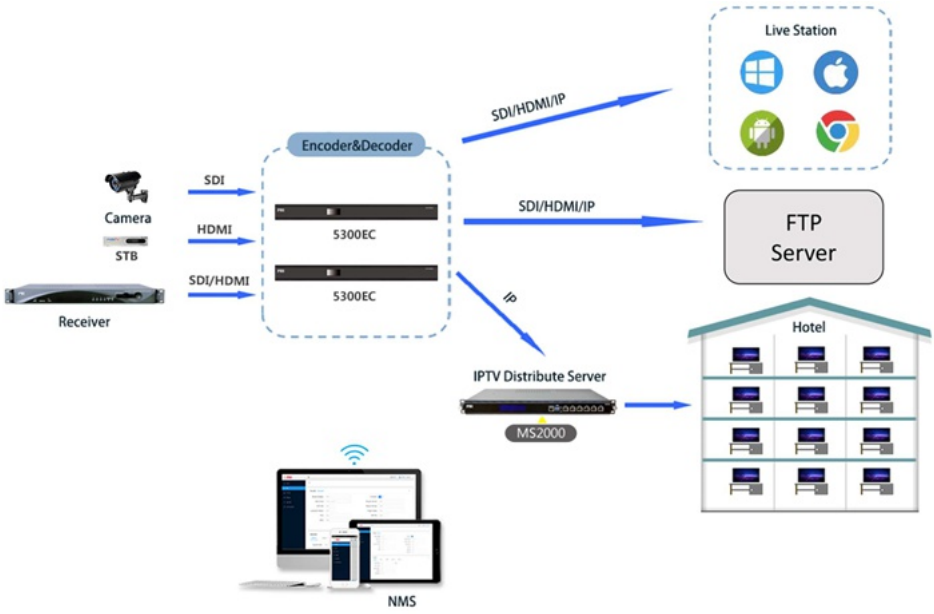
Bidirectional SRT Encoder-Decoder HD-SDI/HDMI

The DCH-5300EC-D is a high-quality high-definition encoder and decoder supporting HEVC/H.264 standards. It supports UHD/HD HDMI and HD SDI inputs and outputs, as well as simultaneous decoding and encoding via HDMI. It can receive various types of signal sources, including satellite receivers, cameras, media players, decoders, and more. It supports H.264/H.265 video encoding and decoding of incoming H.264/H.265 IP streams. Its reliable stability and high performance make it ideal for hotels, apartments, security monitoring, and more.

Key Features

- Supports H.264/H.265 video encoding/decoding and MPEG1 Layer II, MPEG4-AAC audio encoding/decoding.
- Supports multiple resolutions, from 1280x720 to 3840x2160.
- Supports two simultaneous encoding channels: HDMI resolution up to 4K@30Hz and SDI resolution up to 1080P@60Hz.
- Supports one IP IN decoding channel, with HDMI output resolution up to 4K@30Hz and SDI output resolution up to 1080P@60Hz.
- Supports IP protocols UDP/RTP/RTSP/RTMP/HTTP/HLS/SRT for input and output.
- Service name, service PIDs, PMT PID, Video PID, etc., can be configured.
- Supports insertion of logos, watermarks, text, mosaics, and timestamps.
- Supports multi-screen switching: 3x3, 2x2, 1+2, PIP, or custom layouts.
- Supports streaming to any video platform.
- Supports image rotation, cropping, and smart encoding.
- Monitoring via HDMI and SDI.
- Remote control via HTTP.

Typical Applications



Technical Specifications

Video Input and Encoding	
Input Interfaces:	HDMI x 1, SDI x 1
Encoding Standards:	H.265 Main Profile, Level 5.0; H.264 Baseline/Main/High Profile, Level 5.1
Chroma Sampling Format:	YCbCr 4:2:0
Supported Video Resolutions:	2160P@30Hz (HDMI only), 1080P@50/60/30Hz, 1080I@50/60Hz, 720P@50/60Hz
Special Effects:	Logo, watermark, text, mosaic, timestamp
Aspect Ratio:	16:9
Bitrate Control:	CBR, VBR, AVBR
Smart Encoding:	SmartP, Normal
Image Rotation:	Supports 90°, 180°, and 270° rotations
Image Cropping:	Top, bottom, left, right
Audio Input and Encoding	
Input Interfaces:	Embedded HDMI x 1, Embedded SDI x 1, Line x 1
Encoding Standards:	MPEG1 Layer II, MPEG-4 AAC
Sampling Rate:	48 kHz
Video and Audio Decoding	
Output Interfaces:	HDMI x 1, SDI x 1
Video Decoding Standards:	H.265 Main Profile, Level 5.0; H.264 Baseline/Main/High Profile, Level 5.1
Audio Decoding Standards:	MPEG1 Layer II, MPEG-4 AAC
TS/IP Interface	
Interface:	1 x RJ45 (GbE), 100 Base-T
Standard:	IEEE 802.3, 100 Base-T, Full Duplex
Supported IP Protocols:	HTTP, HLS, RTSP, RTMP push/pull, UDP-Multicast, UDP-Unicast, SRT
Rear Panel	
Inputs:	HDMI x 1, 3G-SDI x 1, Line 3.5 mm x 1
Outputs:	HDMI x 1, 3G-SDI x 1, Line 3.5 mm x 1
Control Interface:	RJ-45, 100 Base-T x 1, full-duplex independent
Data Interface:	RJ-45, 100 Base-T x 1, full-duplex independent
Other:	Reset button, USB 2.0
System	
Control Method:	Managed via web interface
Languages:	Chinese and English interface
Firmware Update:	Via web
General	
Power Supply:	AC 90~250V, 50/60Hz
Dimensions	(L x W x H): 483 x 261 x 44 mm
Weight:	3.5 kg

VRM601EC
SRT Encoder HD-SDI/HDMI

Mobile Version

Technical Specifications

Video Processing	
Capacity:	Single HD stream
Codec/Profile:	HEVC (H.265) up to MP@5.1 AVC (H.264) up to HP@L4.2
Bitrate Control:	CBR (constant bitrate), VBR (variable bitrate)
Chroma Subsampling:	4:2:0 / 4:2:2
Bit Depth:	8 bits
Resolution:	1920×1080, 1280×720 (HD)
Frame Rate:	60p, 60i, 59.94p, 50p, 50i, 30p, 29.97p, 25p, 24p (1920×1080)
Scan Mode:	60p, 60i, 59.94p, 50p, 50i (1280×720)
GOP Structure:	All Intra, Adaptive, Basic, Pyramidal, Low Delay (no reordering)
Latency:	70 ms for ultra-low latency mode (glass-to-glass)
Decoding Bitrate:	Up to 80 Mbps
Audio Processing	
Codec/Profile:	MPEG-2 AAC-LC
Modulation:	Linear PCM
Sampling Rate and Bit Depth:	48 kHz, 16-bit
Capacity:	Up to 8 channels (4 stereo pairs)
Management	
Connector:	1× RJ45, auto-negotiation 10/100/1000
Protocols:	HTTP(S)
User Interface:	Full control via web GUI
Firmware Interface:	Via web GUI
General	
Dimensions:	450 mm × 280 mm × 44 mm, 220 mm × 240 mm × 44 mm (mobile version)
Power:	External adapter 12V/2A
Power Consumption:	12W
Cooling:	Software-controlled fan
Operating Temperature:	0 ~ 50 ºC
Storage Temperature:	-10 ~ 50 ºC
Humidity:	< 90% (non-condensing)

VRM601
SRT Decoder HD-SDI/HDMI

Mobile Version

The SRT VRM601 network decoder supports video decoding in AVS+/H.265/H.264/MPEG2 and audio decoding in DRA/AC3/EAC3/AAC/MPEG.

It also supports IP input protocols SRT/HTTP/HTTPS/HLS/M3U8/RTSP/RTMP/MMS/Blu-ray and output resolutions of 1080P/1080I/720P/576I/480I.

Key Features

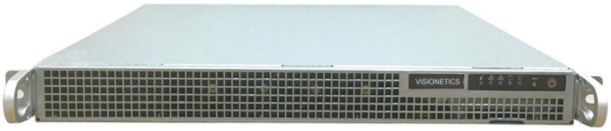
- Supports multiple network protocol inputs
- Supports CVBS/HDMI/SD/HD SDI/AES/EBU output
- Supports IP protocols SRT/HTTP/HTTPS/HLS/M3U8/RTSP/RTMP/MMS/Blu-ray
- Supports video decoding in AVS+/H.265 HEVC/H.264/MPEG2
- Supports audio decoding in DRA/AC3/EAC3/AAC/MPEG
- Supports Biss_1/Biss_E decryption mode
- Supports HD and SD signal input
- Resolution can be automatically detected or set manually
- User-friendly interface for easy menu operation; all functions can be controlled via the LCD screen
- Web-based management using B/S architecture

Technical Specifications

TS / IP	
Interface:	1 × RJ45, 10/100 Base-T
Effective Rate:	90 Mb/s (100 Base-T)
Frame Length:	(1 ~ 7) × 188 bytes adjustable
IP Output Protocol:	SRT/UDP/RTP/HTTP/HTTPS/HLS/M3U8/ RTSP/RTMP/MMS/Blu-ray
HDMI Output	
Interface:	1 × HDMI
Resolution & Frame Rate:	1080P60 / 1080P50 / 1080I60 / 1080I50 / 720P60 / 720P50 / 576P / 576I / 480P / 480I
Embedded Audio:	1 stereo
Video Decoding	
Format:	MPEG-2 / MPEG-4 / H.264 AVC / H.265 (HEVC) / AVS+
Audio Decoding Format:	MPEG-1 Layer I/II, MPEG-2 Layer II, MPEG-2 AAC, MPEG-4 AAC LC, 2-channel / 5.1-channel AC3 / DRA / EAC3
HD/SD-SDI Output	
Interface:	2 × BNC, 75Ω
SD-SDI Output:	SMPTE 259M, 270 Mb/s (10-bit)
HD-SDI Resolution:	SMPTE 292M, 1.485 Gbit/s (20-bit)
Output Level:	800 mV ± 20 mV p-p
Analog Audio Output	
Audio Interface:	2 × BNC, 2 × XLR
Audio Output Format:	Left, Right, Dual Mono, Stereo
Digital Audio Output	
Interface:	1 × AES/EBU

Analog Video Output	
Video Interface:	1 × BNC, 75Ω
Output Level:	1.0 Vp-p ±5%
CVBS Format:	PAL B/D/G/H/I, PAL N, NTSC M, PAL N-C, NTSC M, NTSC M443, PAL M, SECAM, NTSC MJ
Video SNR:	≥56 dB
Video Sync Amplitude:	300 ± 20 mV P-P
Video Amplitude Characteristic:	±0.8 dB (4.8 MHz) / ±1 dB (4.8–5 MHz) / ±0.5 / -4 dB (5.5 MHz)
Video Output Amplitude:	700 ± 30 mV P-P
Differential Gain:	≤8%
Data Output	
Subtitles:	DVB / EBU
Teletext:	DVB / EBU
Captioning:	EIA 608, EIA 708, EIA 608-to-708
Control and Monitoring	
Interface:	1 × RJ45, 10 / 100 Base-T
Remote Management:	HTTP Web
Local Management:	Front panel button and LED
Device Upgrade:	IP
General	
Dimensions:	450 mm × 280 mm × 44 mm, 220 mm × 240 mm × 44 mm (mobile version)
Weight:	3 kg
Power Supply:	AC 90V–250V, 50–60 Hz
Power Consumption:	24 W
Operating Temperature:	0 ~ 45 °C
Storage Temperature:	-10 ~ 60 °C
Humidity:	10 ~ 90% (non-condensing)

VRM9001
Multi-Channel HD-SDI Video Encoder



The VRM9001 multi-screen encoder/transcoder is a broadcast-level encoder that can support multiple end devices, such as TV, PC, tablet, and phone. It supports HDSDI input interfaces and a variety of IP output protocols. When used as an encoder, it supports SD or HD dual-channel encoding for HDSDI video/audio input and can generate encoded data for multiple screens. This product can be widely used in DVB, IPTV, Internet TV, and Mobile TV applications.

Key Features

- Real-time MPEG-2/H.264 encoding, up to MP@HL
- WMV support: WMV1/WMV2/WMV3 (Microsoft WMV9)
- Subtitle transfer support
- Audio: fixed gain control or dynamic gain control supported
- Video: black borders on top/bottom/left/right supported
- Dynamic video bitrate: IP output remains continuous when changing the video bitrate
- Resolution: from 80x64 to 1920x1080, customizable
- Offline transcoding supported, cluster supported
- Real-time file recording supported
- File transcoding and streaming supported
- SPTS and MPTS supported for IP and ASI inputs
- IP output protocol: TS over UDP/RTP/HTTP/RTSP; FLV over HTTP/RTMP; HTTP live streaming; 3GP over RTP; MMS; File via Samba/NFS; 3GPP
- Video input format: MPEG1/MPEG2/MPEG4/H.264/WMV/DIVX/M-JPEG/RMVB
- Audio input format: WAV/MPGA/AAC/WMA/MP3/AMR/AC3
- IP input protocol: UDP/SRT/RTP/RTSP/MMS/HTTP; File via Samba/NFS
- Device control: Web or SNMP
- Full support: from a single input stream to multi-profile, multi-format, multi-protocol, multi-interface output streams
- Live FLV video support
- 3GP support
- Live video support for iPhone and iPad series
- Support for 3 dynamic logo overlays and 2 subtitle overlays
- System backup support: 1+1 or N+M
- Various applications: DVB/IPTV/WebTV/Mobile TV/Offline transcoding/…
- SNMP protocol software supports real-time status monitoring, alarm messages, and log storage

Technical Specifications

Video	
Input interface:	2 × HD-SDI
Horizontal resolution:	1920/1440/1280/1024/800/720/704/640/544/480/416/352/320/240/220/192/176/144/160/128/96/8
Vertical resolution:	1080/768/720/600/576/480/288/240/192/180/176/144/140/128/120/96/90/80/64
Encoding format:	H.264/AVC MP Level 1–3, H.264/AVC HP Level 4 MPEG-2 MP, ML; MPEG-2 MP, HL WMV: WMV1/WMV2/WMV3 (Microsoft WMV9)
Audio	
Input interface:	2 balanced analog channels, SDI embedded audio, up to 3 stereo channels
Encoding format:	MPEG1 Layer II / AAC / AC3 / WMA / MP3 / AMRR

TS / IP	
Output:	2 × TS over IP 100/1,000M
Protocol:	UDP/SRT/RTP/RTSP/MMS/HTTP
General	
Dimensions:	1U, 482 mm × 680 mm × 44 mm
Weight:	9 kg
Power:	AC 100V–240V, auto-select
Power consumption:	300 W max
Operating temperature:	0–50 °C
Storage temperature:	-10–60 °C
Humidity:	5–95%

IPS-3000 IP

SPTS/MPTS/IPTV Stream Redundancy Switch

IPS 3000 is an ideal solution for intelligent redundancy switching between MPEG transport streams in IP video networks.

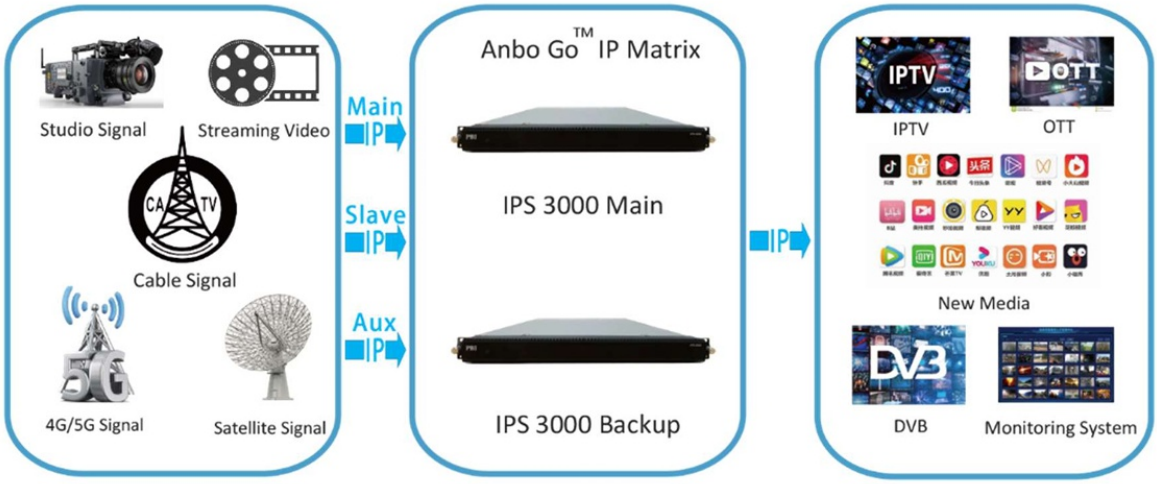
It ensures robustness and maximizes the availability of your broadcast services by continuously monitoring all inputs and seamlessly switching to a backup if errors are detected or the signal is lost. The redundancy switch supports automatic, semi-automatic, and manual modes.

It can be widely used in television stations, new media radio and TV, video network companies, and other large-scale IP signal transmission scenarios.

Key Features

- The base version supports up to 200 IP stream inputs, real-time monitoring, and error detection.
- It allows configuring the primary, secondary, and auxiliary source inputs as well as the backup output as needed.
- Supports stream backup and program backup.
- Provides continuous, simultaneous real-time monitoring and error detection of input signals, including stream unlock, loss of synchronization, CI scrambling, error accumulation, PID errors, etc. Error detection follows ETR 101 290 priorities 1, 2, and 3.
- Supports input via UDP/RTP/HTTP-HLS/RTMP/RTSP/SRT protocols and output via UDP/SRT.
- Supports remultiplexing, PSI mapping, PID editing, and PSI relay.
- Supports batch processing of sources and backup output, as well as keyboard shortcut operations.
- Maintains user operation logs, device failover logs, source alarm logs, and search functionality.
- Can be supervised and configured remotely via a web browser; the unit can also be controlled via a touchscreen and mechanical switch panel.
- Server hardware architecture with dual redundant power supplies and SFP+ module support.
- The Lite version supports UDP/RTP IN and UDP OUT.

Typical Applications



Technical Specifications

	IPS-3000 Lite	IPS-3000	IPS-3000 P
			
Network	6 x RJ45 1000Mbps	8 x RJ45 1000Mbps 4 x RJ45 1000Mbps (*) 4 x SFP 1000Mbps (*) 4 x SFP 10 Gbps (*)	2 x RJ45 1000Mbps + 4 x RJ45 1000Mbps 2 x RJ45 1000Mbps + 4x SFP 1000Mbps 2x RJ45 1000Mbps + 4x SFP 10Gbps
Input standard	UDP-Multicast, UDP-Unicast RTP	UDP-Multicast, UDP-Unicast, RTP, SRT, HTTP, HTTP-HLS, RTMP, RTSP	
Output standard	UDP-Multicast, UDP-Unicast	UDP-Multicast, UDP-Unicast, SRT	
Backup channels	25	100	200
Bypass	Supports one network bypass set		Only GbE, supports 2 network interface bypass sets
Operating temperature	5 ~ 45 °c		
Storage temperature	-10 ~ 65 °c		
Dimension	1U (483x261x44mm)	1U (483x505x44mm)	1U (483x670x44mm)
Weight	3.5kg	8.5kg	10kg
Power supply	Redondant AC 100V ~ 240V, Max 60W	Redondant AC100~240V, 50~60Hz Max 600W	

Remarque : * expandable - Multiple network card specifications available (single choice)

DIH-1000X
SRT Gateway

The DIH-1000X, based on a server architecture, can efficiently convert SD/HD TS protocols for remote transmission. The TS protocol can be converted between UDP and TCP or from RTP/HTTP/HTTP-HLS/RTSP/RTMP to UDP while preserving image quality. A well-designed graphical interface makes configuration and operation easy.

Key Features

- Up to 100 UDP/SRT conversion channels
- Supports real-time monitoring of input streams and three-level error detection based on TR101290, including PSI/SI information verification
- Supports analysis of inputs such as encoding format, aspect ratio, resolution, etc
- Web remote control

Typical Applications

Technical Specifications

	 DIH-1000X	 DIH-1000X Lite
Network	RJ45 1000Mbps x 8 RJ45 1000Mbps x 4 (expandable*) SFP 1000Mbps x 4 (expandable*) SFP 10Gbps x 4 (expandable*)	RJ45 1000Mbps x 6
Input protocol	UDP-Multicast, UDP-Unicast, RTP, TCP, HTTP, HTTP-HLS, RTMP	UDP-Multicast, UDP-Unicast, RTP, TCP, HTTP, HTTP-HLS, RTMP
Output protocol	UDP-Multicast, UDP-Unicast, RTP, TCP	UDP-Multicast, UDP-Unicast, RTP, TCP
Program quantity *	100 channels	50 channels
Control and monitoring	RJ45 × 1, 1000M / 100MFull Duplex (shared with data port)	RJ45 × 1, 1000M / 100MFull Duplex (shared with data port)
Dimension	1U, 483 mm × 505 mm × 44 mm	1U, 483 mm × 244 mm × 44 mm
Weight	8.5kg	3.5kg
Power consumption	AC 110V~240V, 50 ~ 60Hz, Max.600W	AC 110V~240V, Max.60W
Operating temperature	5 ~ 45 ºC	
Storage temperature	-10 ~ 65 ºC	

* The bitrate is below 4 Mbps.