Contact us today to discuss your project!

ANTRICA
VIDEO OVER IP SOLUTIONS

sales@antrica.com | +44 (0)1628 626 098
www.antrica.com

ANTRICA
VIDEO OVER IP SOLUTIONS

MARKETS & APPLICATIONS

Video Over IP Encoders & Decoders

- Live Events
- Broadcast
- Worship
- CCTV Litigation
- IPTV & STB
- Medical
- Betting
- Sports
- UAV & Robotics
- Control Room
- Digital Signage
- CCTV Viewing

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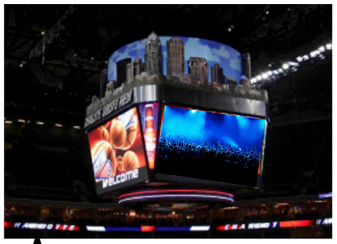
Live Events

Application: Remote displays of live events requiring low latency links to avoid echo and lag.



Remote Viewing Live Events

HDMI DVI

ANT-6000D Low Latency Decoder

ANT-6000D Low Latency Decoder

ANT-6000E Low Latency Encoder

Live Event

IP Camera

3G HD-SDI Link

Broadcast

Application: Remote Displays for broadcast cameras. HD-SDI to HD-SDI over IP with Low Latency

Broadcast Links Camera to Monitor Low Latency

HDMI or 3G HD-SDI

HDMI or 3G HD-SDI

ANT-6000D Low Latency Decoder

ANT-6000D Low Latency Decoder

3G HD-SDI Link

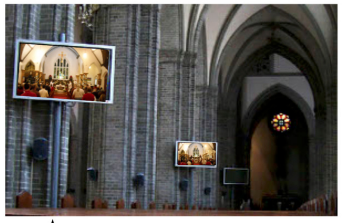
ANT-6000E Low Latency Encoder

Description: Live events where the original view and sound can be seen and heard. In this situation any remote display needs to be connected via a low latency link. The ANT-6000 series provides a one to one or one to many connection over any 10/100/1000 LAN in around 100mS. Streaming to a dedicated decoder or broadcast to YouTube via RTMP streaming using the ANT-35000A encoder (not shown) or a dedicated IP camera with RTMP streaming as shown. HDMI or HD-SDI is supported up to 1080P60

Description: In Broadcast the traditional HD-SDI cable run is 100m typically. Extending this over IP normally adds latencies unacceptable in the broadcast world. The ANT-6000E and 6000D exist on any 10/100/1000 LAN and stream near perfect quality at around 20MB/s with 100mS latency. Transatlantic links can be made using this over IP technology

Worship

Application: Remote viewing of religious events where one preacher needs to reach multiple remote communities.



Remote Viewing Religious Events

HDMI DVI

ANT-6000D Low Latency Decoder

ANT-6000D Low Latency Decoder

ANT-6000E Low Latency Encoder

3G HD-SDI Link

IP Camera

Description: Live religious events can be streamed over the internet to dedicated decoders located in remote communities (ANT-6000D) . Video from cameras is encoded and streamed directly to individual places of worship. Alternatively streams can be uploaded directly to a YOUTUBE TV channel for wider audience viewing at home or on mobiles tablets etc.

CCTV : Litigation & Recording

Application: Monitoring and recording of computer screens or other LCD screens using an ONVIF encoder. Combining PC images with IP camera images in an ONVIF VMS e.g Milestone or other ONVIF compliant VMS.

ONVIF PC Based Video Management Software (VMS) e.g Milestone

ANT-36000 Hardware Decoder

ONVIF Streams

ANT-35000A ONVIF Encoder

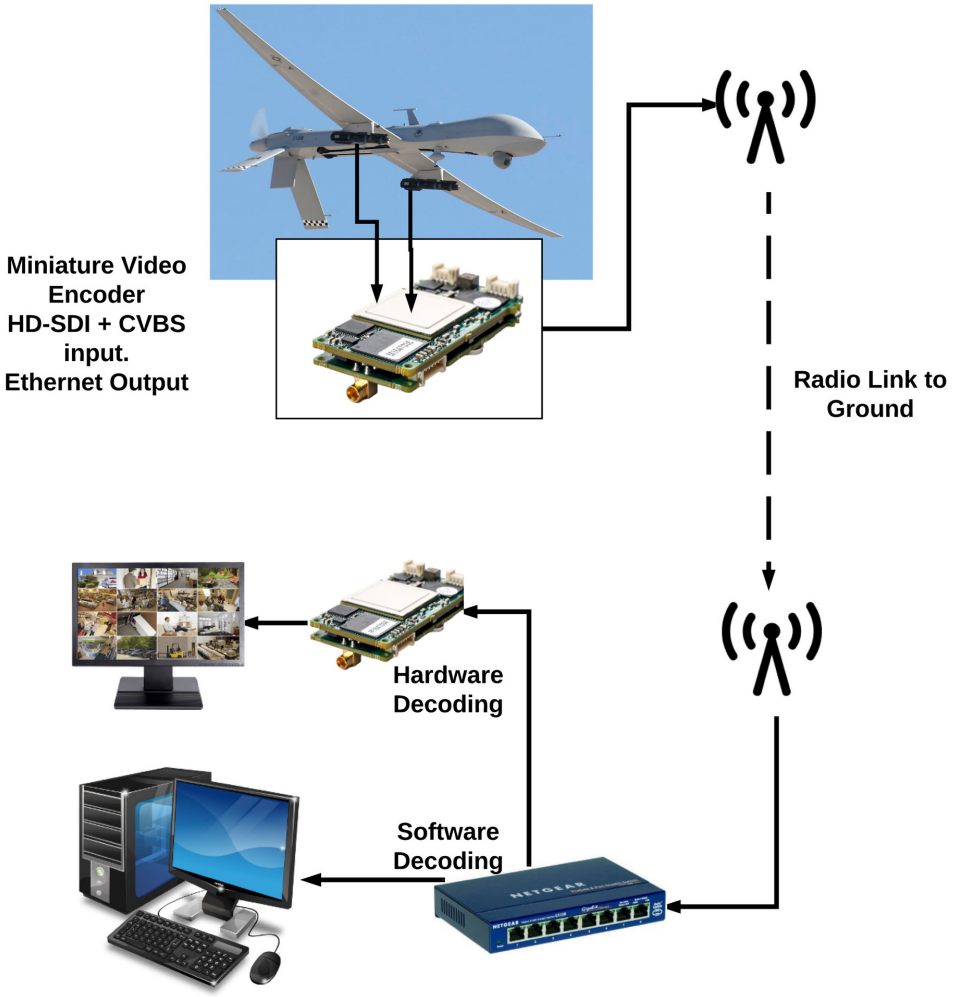
HDMI DVI Passthrough

IP Camera ONVIF

Description: CCTV systems using IP cameras use a central VMS (video management software) suite to record and display IP camera images. By adding an ANT-35000A encoder any HDMI DVI HD-SDI signal can be encoded to an RTSP ONVIF stream for recording and viewing just like an IP camera. The ANT-35000A has a passthrough function so the PC output can be connected to the 35000A and then the passthrough connected to the LCD PC Monitor avoiding splitters.

UAV & Robotic

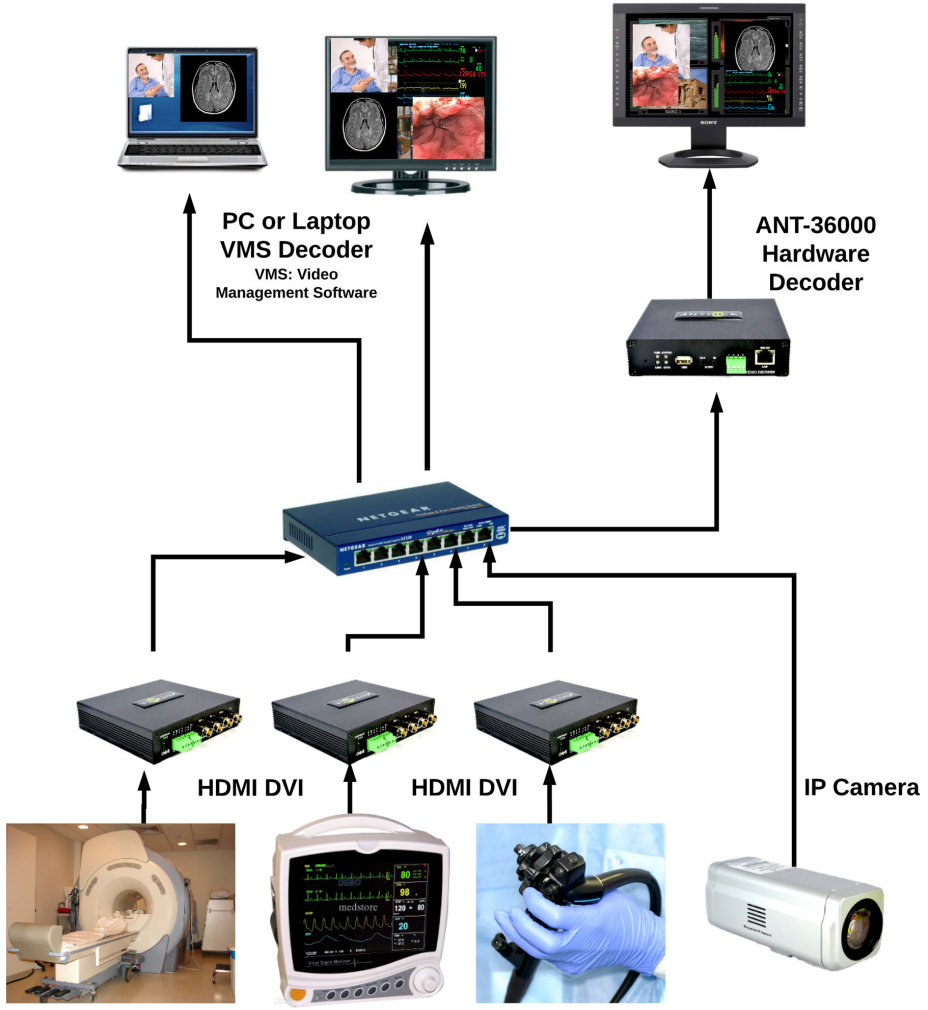
Application: Cameras (HD + SD) stream simultaneously from a UAV Drone via ethernet/RF link to a ground station for decoding and display.



Description: UAV modules (ANT-1771/1772/1773) encode one or more video inputs in HD and SD formats. HD-SDI and Composite video or HDMI are supported. These video inputs are simultaneously encoded and streamed via ethernet over RF to the ground for decosing and display. A hardware decoder can be used or software decoder using VLC player or our own Loe Latency decoder software (Neptune player)

Medical

Application: Remote training rooms , distance consultation , recording for litigation evidence , two way audio + video



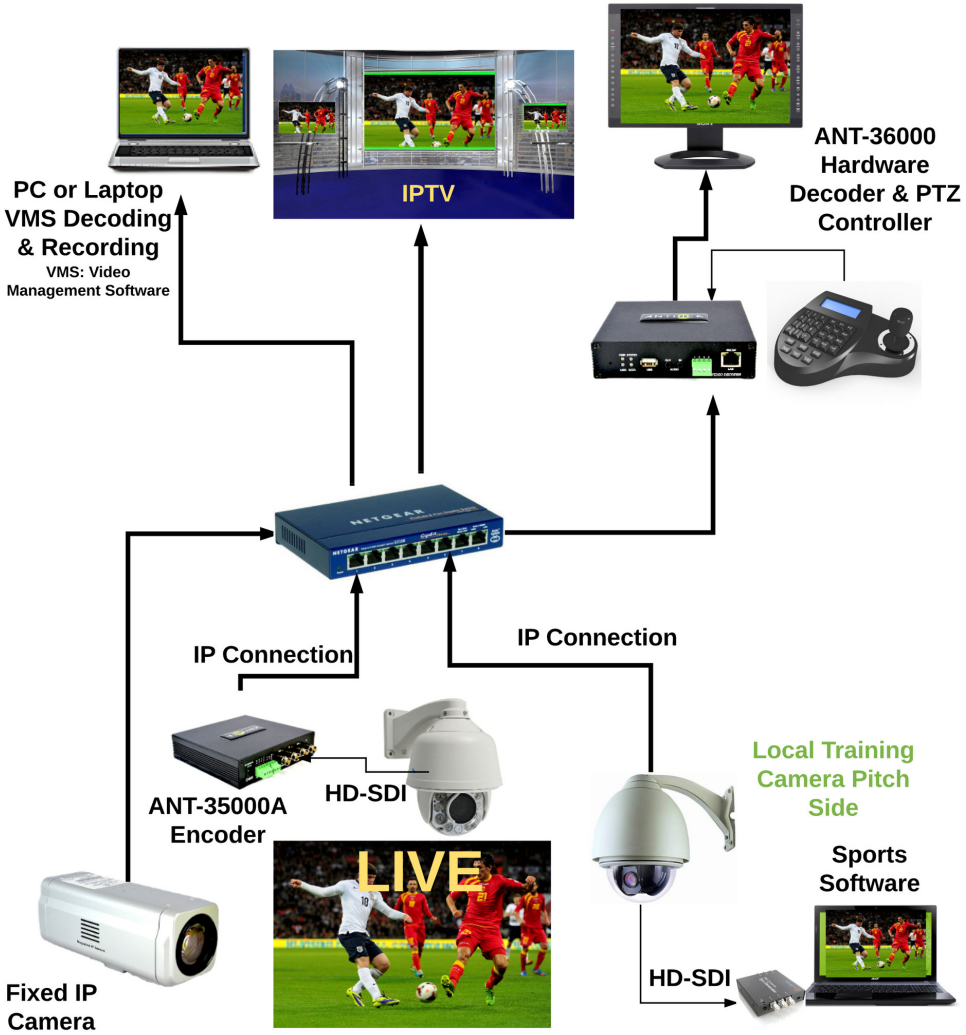
Description: MRI CT scannner , Endoscopy machines DVI output is connected to an ANT-35000A encoder. The encoder streams the images seen by the local surgeon on the PC Monitor screen and is displayed remotely and recorded. An Ip camera is used to stream imgaes from within the room and these are recorded and siplayed in exacly the same way as the encoder streamed images. Streamed images can be decoded on a computer or laptop or using a hardware decoder (ANT-36000) . The 360000 can be used to control a PTZ camera if required

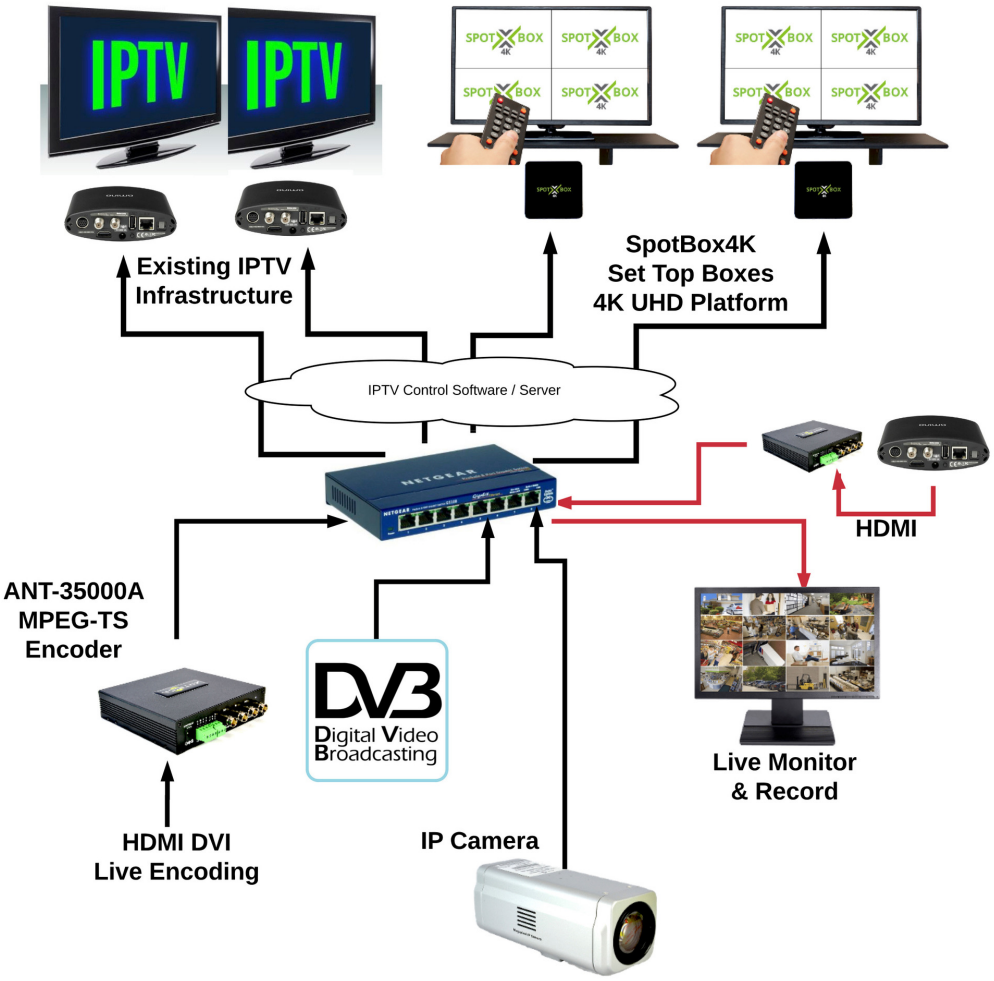
Sports Video

Application: Training ground recording for sports analysis. Remote control of PTZ cameras and live streaming to IPTV.

IPTV & STB

Application: Live streaming to IPTV set top boxes. Encoding of Set Top Box output for monitoring centraly and recording.





Description: Numerous applications are shown here. Firstly 3 types of camera: IP only (eg Axis) IP plus HD-SDI and HD-SDI only. The big challenge in sports is to follow and record the player. HD-SDI is near instant video with no delay hence is ideal for viewing and tracking a player. Sports software at pitchside (eg Sportscode or other) can record the HD-SDI using an HD-SDI to USB converter plugged into the laptop (bottom right of diagram). Antrica sports cameras also have dual outputs do the IP feed can be streamed to remote locations at the same time for viewing or recording. The ANT-36000 decoder can be used to view the cameras but also control the PTZ camera or any ONVIF camera remotely. HD-SDI only cameras can be converted to IP cameras using the ANT-35000A encoder. Streams can be sent to an existing IPTV system as MPEG-TS streams

Description: The ANT-35000A or ANT-2000 encoder can be used to stream a real time live MPEG-TS stream to an IPTV system like any DVB broadcast. Any HDMI source can be encoded and streamed in MPEG-TS or RTSP format. Alternatively the content being displayed by an IPTV box can be re encoded and streamed to a central 'Video Management Software' suite to record what each IPTV box is displaying.

Control Room

Application: Monitoring and recording of computer screens or other LCD screens using an ONVIF encoder. Combining PC images with IP camera images in a control room environment

Control Room Decoding and Display of streams

ANT-36000 Hardware Decoder

ONVIF Streams

ANT-35000A ONVIF Encoder

HDMI DVI Passthrough

IP Camera ONVIF

Description: Control Rooms use blade PC based decoders to decode multiple live streams and display them in various ways on a large video wall. By adding an ANT-35000A encoder any HDMI DVI HD-SDI signal can be encoded to an RTSP ONFIF stream for recording and viewing just like an IP camera. The ANT-35000A has a passthrough function so the PC output can be connected to the 35000A and then the passthrough connected to the LCD PC Monitor avoiding splitters.

Betting

Application: Remote screens showing racing with low delay, recording and Live camera views

Remote Screens

PC or Laptop VMS Decoder

VMS: Video Management Software

HDMI DVI

ANT-4000D Low Latency Decoder

ANT-36000 Hardware Decoder

HDMI DVI

HDMI DVI

Existing Screens

HDMI DVI

IP Camera LIVE View

Description: Existing feeds from Cameras TVs or Set Top Boxes can be encoded using Antrica encoders via their HDMI or DVI output. These streams are sent to remote locations where they can be viewed on a PC tablet or remote screen in super low latency. Racing images can be recorded for reviewing at a later stage using low cost CCTV 'Video Management Software' or USB memory.

Digital Signage

Application: Live streaming to a signage player and remote viewing of signage player content (Building Lift)

HDMI

Signage Player

HDMI

MPEG TS Stream

ANT-35000A Streaming Live Broadcast

MPEG TS Streams

ANT-35000A Streaming Live Camera Feed

Description: Digital signage players player pre recorded content onto screens either from local hard disk or sent to them by a server. Adding the ANT-35000A encoder allows two functions, remorte viewing of the signage player and streaming live content TO the signage player. 1) Remote Viewing: The output of the signage player (HDMI) can be encoded by the ANT-35000A and streamed to another location such as a building Lift. Here the live stream is decoded and displayed using a simple decoder box (ANT-36000 or SpotBox4K) 2) Live streams from cameras or set top boxes can be encoded and streamed live to the signage player (eg News feed or CCTV cameras or other camera broadcasts)

SpotBox4K: View IP Cameras

Application: Monitor up to 16 x ONVIF cameras in single 4K view mode or Quad 1080P mode (4 x 1080P) - Petrol stations, retail etc

4K

3840 x2160 Monitor 4K / UHD

SPOTBOX4K

Description: ANT-37000 Spotbox 4K is connected anywhere on the network, simply programmed to recieve 16 ONVIF or other IP camera streams. These streams can be viewed individually with a simple remote control or Automatically in a sequence of quad views. The Spotbox4K is an add on product to an existing IP CCTV system to add viewing stations without the need for a PC or VMS

Comparison Chart

Using the chart below find the correct encoder or decoder that you need. Please feel free to contact us if you require further assistance.
E: sales@antrica.com | T: +44 (0) 1628 626 098

Comparison Chart

For further product information please visit www.antrica.com , where there is access to the full technical specifications for each product.

Product	Encoder	Decoder	ONVIF Compliant	Hardware to Hardware Latency mS	Hardware to Software Latency mS	Max Resolution	Max Frame Rate Frame/sec	Max Data Rate Mbits/s	Unicast / Multicast	RTSP	MPEG-TS	RTMP	HTTP Streming	Browser Video Stream Viewing	VLC Video Stream Viewing	Dedicated Viewing Software	HDMI	DVI-D using HDMI to DVI Cable	HD-SDI	Component via VGA Dongle	Composite PAL NTSC	Independent Video Channels	Streams	Audio Format	Two Way Audio	Embedded Audio Support	Analogue Audio Support	SD or USB Local Recording	RS232	RS485	PoE or USB	Power Supply DC Volts	Main Features
Encoders / Decoders(Dual Use or pairs)																																	
ANT-3300	✓	✓	✓	250	350	720x576	30	8	✓	✓	✓	×	×	✓	✓	✓	×	×	×	×	✓	1	2	AAC G711	✓	×	✓	✓	✓	✓	P	12	SD Encoder Decoder with Inputs and outputs for monitoring
ANT-32000A	✓	✓	✓	350	450	1920x1080	30	8	✓	✓	✓	×	×	✓	✓	✓	✓	✓	×	×	✓	1	2	AAC G711	✓	×	✓	✓	✓	✓	P	12	HD and SD Encoder Decoder with HDMI and Composite In/Out
ANT-32000AS	✓	✓	✓	350	450	1920x1080	30	8	✓	✓	✓	×	×	✓	✓	✓	✓	✓	✓	×	✓	1	2	AAC G711	✓	×	✓	✓	✓	✓	P	12	HD and SD Encoder Decoder with HD-SDI HDMI and Composite
ANT-4000E	✓	×	×	<100	200	1920x1080	60	12	✓	✓	✓	×	×	×	✓	×	✓	✓	×	✓	✓	1	1	44.1/ 48kHz	×	✓	✓	×	×	×	×	12	Low Latency HDMI DVI over IP encoder
ANT-4000D	×	✓	×	<100	200	1920x1080	60	12	✓	✓	✓	×	×	×	✓	×	✓	✓	×	✓	✓	1	1	44.1/ 48kHz	×	✓	✓	×	×	×	×	12	Low latency HDMI DVI VGA Decoder when used with ANT-4000E
ANT-6000E	✓	×	×	<100	200	1920x1080	60	25	✓	✓	✓	×	×	×	✓	×	✓	✓	✓	✓	×	1	1	44.1/ 48kHz	✓	✓	✓	×	✓	✓	P	12	Low Latency 3G HD-SDI encoder with HDMI VGA
ANT-6000D	×	✓	×	<100	200	1920x1080	60	25	✓	✓	✓	×	×	×	✓	×	✓	✓	✓	✓	×	1	1	44.1/ 48kHz	✓	✓	✓	×	✓	✓	P	12	Low Latency Decoder when used with ANT-6000E
ANT-1771	✓	✓	×	<100	100	1920x1080	30	25	✓	✓	✓	×	×	×	✓	×	×	×	✓	×	✓	4	4	44.1/ 48kHz	×	×	✓	✓	✓	✓	×	12	Ultra small multi channel Encoder Decoder for UAV applications
ANT-1772	✓	✓	×	<100	100	1920x1080	30	25	✓	✓	✓	×	×	×	✓	✓	✓	×	✓	×	✓	P	✓	44.1/ 48kHz	×	×	✓	✓	✓	✓	×	12	Ultra small multi channel Encoder Decoder for UAV applications
ANT-1773	✓	✓	×	<100	100	1920x1080	30	25	✓	✓	✓	×	×	×	✓	✓	✓	×	✓	×	✓	P	✓	44.1/ 48kHz	×	×	✓	✓	✓	✓	×	12	Ultra small multi channel Encoder Decoder for UAV applications
ANT-45000	✓	✓	✓	350	450	1920x1080	60	16	✓	✓	✓	✓	×	✓	✓	✓	✓	✓	✓	×	✓	1	4	AAC G711	✓	✓	✓	✓	✓	✓	✓	12	HD Encoder or Decoderwith 3G-HD-SDI HDMI Inputs or Outputs
Encoders Only																																	
ANT-3410	✓	×	✓	250	350	720x576	30	8	✓	✓	✓	×	×	✓	✓	✓	×	×	×	×	✓	4	8	AAC G711	✓	×	✓	✓	✓	✓	P	12	4 Ch SD encoder with Quad view output via Composite
ANT-35000	✓	×	✓	350	450	1920x1080	60	16	✓	✓	✓	✓	×	✓	✓	✓	✓	✓	✓	×	✓	1	4	AAC G711	✓	✓	✓	✓	✓	✓	P	12	HD and SD Encoder only with 3G HD-SDI HDMI and Composite In/Out
ANT-38000	✓	×	✓	350	450	4096x2160 3840x2160	24 30	16	✓	✓	✓	×	×	✓	✓	✓	✓	✓	✓	×	✓	1	4	AAC G711	✓	✓	✓	✓	✓	✓	✓	12	4K HD and SD Encoder only with 3G HD-SDI HDMI
ANT-2000	✓	×	✓	350	450	1920x1080	60	20	✓	✓	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	1	2	MP3 G711	×	✓	✓	×	×	×	×	12	HD Encoder 1CH with HDMI input HDCP
ANT-2004	✓	×	✓	350	450	1920x1080	60	20	✓	✓	✓	✓	✓	✓	✓	×	✓	✓	×	×	×	1	2	MP3 G711	×	✓	✓	×	×	×	×	12	HD Encoder 4CH with HDMI input HDCP
ANT-7300	✓	×	×	×	150	1920x1080	60	40	✓	✓	×	×	×	×	✓	×	✓	✓	×	×	×	1	1	44.1/ 48kHz	×	✓	×	×	×	×	U	12	Keyboard Video and mouse over IP at 1080P60 at less than 30 Mbits/s
Decoders Only																																	
ANT-36000	×	✓	✓	450	NA	1920x1080	60	16	✓	✓	✓	×	×	✓	✓	✓	✓		✓	×	✓	1	100	AAC G711	✓	✓	✓	✓	✓	✓	✓	12	HD and SD Decoder with HD-SDI HDMI and Composite outputs
Spotbox4k ANT-37000	×	✓	✓	350	450	3840 x 2160	30	12	✓	✓	✓	×	✓	✓	✓	×	✓	✓	×	×	×	1	16	N/A	×	×	×	✓	×	×	×	5	16 Channel Decoder with 4K display Quad/Single plus Remote control