

ANTRICA

MICRO SIZED ENCODERS & DECODERS VIDEO OVER IP ENCODE & DECODE MODULES



**LOW LATENCY VIDEO LINKS
TO GROUND CONTROL**



**MANUFACTURED
IN THE U.K.**



**SITUATIONAL AWARENESS
QUAD VIDEO STREAM ENCODE**



**UAV VIDEO LINKS WITH
MULTIPLE CAMERA INPUTS**

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ANT-1771

MINI VIDEO ENCODER



W:50mm
L:80mm
Weight: 65g

1920 X 1080 @ 30FPS

1X HDSDI + 2X CVBS

SD CARD RECORDING

2 WAY SERIAL DATA

MULTIPLE STREAMS

ENCODER & DECODER

THE ANT-1771 IS A SMALL LOW WEIGHT MODULE VIDEO ENCODER OR DECODER FOR UAV DRONE / UNMANNED VEHICLE INTEGRATION.

FEATURING TWO INDEPENDENT HD-SDI INPUTS/OUTPUTS PLUS 4 ADDITIONAL SD COMPOSITE INPUTS/OUTPUTS THE ANT-1771 CAN SIMULTANEOUSLY STREAM MULTIPLE CAMERA INPUTS.

WEIGHING LESS THAN 65 GRAMS THE ANT-1771 SUPPORTS VIDEO AND AUDIO WITH LOW LATENCY OF 100MS USING EITHER HARDWARE DECODING OR A SPECIAL SOFTWARE PLAYER SUPPLIED .

THE SOFTWARE PLAYER CAN BE INTEGRATED OR USED STAND ALONE TO ACHIEVE 100MS LATENCY.

UDP RTP AND RTSP SUPPORT ALLOWS FOR UNICAST OR MULTICAST STREAMING OVER ETHERNET (RTSP OR MPEG-TS).

TRANSPORT STREAM AND STANAG 4609 INC METADATA GENERATION AND EXTRACTION PLUS 2 WAY SERIAL RS232 LOCAL DATA RECORDING AND PLAYBACK SUPPORTED VIA FLASH OR SD CARD.

WEB BROWSER SETUP OR SDK

NOTE: 2X HD @1080P15 OR 1X HD @ 1080P30 PLUS 2XSD (PAL OR NTSC)

ANT-1772

MICRO VIDEO ENCODER



W:45mm
L:45mm
Weight: 37g

1920 X 1080 @ 30FPS

1X HSDI + 1X CVBS

SD CARD RECORDING

2 WAY SERIAL DATA

MULTIPLE STREAMS

ENCODER & DECODER

THE ANT-1772 IS AN ULTRA SMALL LOW WEIGHT MODULE VIDEO ENCODER OR DECODER FOR UAV DRONE INTEGRATION.

FEATURING AN HD-SDI INPUT/OUTPUT PLUS ADDITIONAL DUAL SD COMPOSITE • INPUTS/OUTPUTS.

THE ANT-1772 CAN STREAM TWO OF THE THREE CAMERA INPUTS SIMULTANEOUSLY. WEIGHING LESS THAN 37 GRAMS THE ANT-1772 SUPPORTS VIDEO AND AUDIO WITH LOW LATENCY OF 100MS USING EITHER HARDWARE DECODING OR A SPECIAL SOFTWARE PLAYER SUPPLIED .

THIS SOFTWARE PLAYER CAN BE INTEGRATED OR USED STAND ALONE TO ACHIEVE 100MS LATENCY.

UDP RTP RTSP + MPEG TS SUPPORT ALLOWS FOR UNICAST OR MULTICAST STREAMING OVER ETHERNET.

TRANSPORT STREAM AND STANAG 4609 INC METADATA GENERATION AND EXTRACTION + 2 WAY SERIAL DATA.

LOCAL DATA RECORDING AND PLAYBACK SUPPORTED VIA ONBOARD SD CARD SOCKET OR USB OTG.WEB BROWSER INTERFACE FOR SETUP OR UTILITY SOFTWARE / SDK PROVIDED

ANT-1773

NANO VIDEO ENCODER RANGE



1920 X 1080 @ 30FPS

1X HDSDI + 1X CVBS

SD CARD RECORDING

HDMI OR QUAD SD

QUAD X DI STREAMS

ENCODER & DECODER

THE ANT-1773 NANO IS ULTRA MINIATURE LOW WEIGHT MODULE VIDEO ENCODER OR DECODER FOR UAV DRONE INTEGRATION OR UNMANNED SYSTEMS. SUPPORTING HD-SDI , HDMI OR QUAD SD VARIANTS.

FEATURING AN HD-SDI (HDMI OR 4X SD) INPUT PLUS COMPOSITE INPUT/OUTPUT. SUPPORTS MULTIPLE ENCODING FORMATS RTSP MPEG-TS RTP.

WEIGHING LESS THAN 22 GRAMS THE ANT-1773 SUPPORTS VIDEO & AUDIO WITH LOW LATENCY OF 100MS USING EITHER HARDWARE DECODING OR A SPECIAL SOFTWARE PLAYER SUPPLIED .

UDP RTP AND RTSP SUPPORT ALLOWS UNICAST OR MULTICAST STREAMING OVER ETHERNET.

TRANSPORT STREAM & STANAG 4609 INC METADATA GENERATION & EXTRACTION PLUS 2 WAY SERIAL DATA.

LOCAL DATA RECORDING & PLAYBACK SUPPORTED VIA ONBOARD SD CARD SOCKET OR USB OTG. WEB BROWSER INTERFACE FOR SETUP OR UTILITY SOFTWARE / SDK PROVIDED PLAYER SUPPLIED FOR LOW LATENCY OR VLC PLAYER.

API BASED CONTROL APPLICATIONS OVER NETWORK OR SERIAL.

ANT-35000H

HDMI VIDEO ENCODER



W:25.4mm
L:50mm
Weight: 22g

1920 X 1080 @ 60FPS

HDMI LOOPED INPUT

ONVIF PROFILE S

2048 X 2048 P30

ENCODE RADAR SCREEN

COMMAND ROOMS

THE ANT-35000H IS A HIGH DEFINITION 1080P60 H.264 VIDEO AND AUDIO ENCODER.

THE ENCODER CAN BE CONNECTED VIA HDMI & USED TO STREAM A COMPUTER OR SCANNER IMAGE/S REAL TIME TO A VIDEO MANAGEMENT SYSTEM (VMS)

BEING FULLY ONVIF PROFILE S COMPLIANT THE ANT-35000H CAN BE INTEGRATED WITH ANY COMPLIANT VMS LIKE MILESTONE AND OTHERS.

(ANT-35000A IS A VARIANT SUPPORTING 3G-HD-SDI PLUS COMPOSITE)

THE ANT-35000H SUPPORTS EMBEDDED HDMI VIDEO AND AUDIO OR ANALOGUE AUDIO AND HAS A BYPASS HDMI OUTPUT

ADDITIONAL SERIAL AND SENSOR/ALARM INPUTS AND OUTPUTS ARE PROVIDED SUCH AS RS485/232 TO ALLOW CONTROL OF EXTERNAL EQUIPMENT.

POWER IS SUPPLIED VIA A 12V INPUT OR INTERNAL ETHERNET POE.

APPLICATIONS INCLUDE ANY HDMI SOURCE AND STREAMING VIA RTSP (ONVIF) RTMP (YOUTUBE) MPEG-TS (SET TOP BOX) AND RTP. RECORDING VIA AN ONBOARD USB PORT IS ALSO POSSIBLE.

ANT-36000

HDMI , HD - SDI & CVBS DECODER



W:25.4mm
L:50mm
Weight: 22g

1920 X 1080 @ 60FPS

HDMI , HD-SDI & CVBS

ONVIF PROFILE S

PTZ CONTROL

DECODE WITHOUT PC

DECODE LIVE VIDEO

THE ANT-36000 IS A NEW 1-100 CHANNEL FULL HD 1080P60 ONVIF DECODER.

DESIGNED TO DECODE ANY ONVIF CAMERA OR ENCODER IP STREAM AND OUTPUT 3G HD-SDI + HDMI + COMPOSITE VIDEO.

AN APPLE AND ANDROID APP IS AVAILABLE FOR REMOTE CONTROL OF 100 CHANNELS.

THE HDMI AND 3G HD-SDI OUTPUTS CAN BE USED TO DISPLAY THE IP STREAM OR RECORD IT TO AN HD-SDI RECORDER.

THE COMPOSITE VIDEO OUTPUT IS DESIGNED FOR RECORDING THE STREAM TO OLDER ANALOGUE VIDEO RECORDERS WITH COMPOSITE PAL OR NTSC INPUTS. THIS OUTPUT IS SCALED DOWN FROM THE ORIGINAL INPUT RESOLUTION FORMAT TO PAL/NTSC.

ONVIF RS485 INPUTS ALLOW CONTROL OF A REMOTE ONVIF PTZ CAMERA WITHOUT THE NEED FOR A VMS OR NVR.

POE , RS232/485 COMMUNICATION, 2 WAY AUDIO , ALARM OUTPUTS.

VIDEO BIT RATES FROM 32KBPS TO 16 MBPS ARE SUPPORTED AS WELL AS NUMEROUS PROTOCOLS LIKE MULTICASTING UDP HTTP SMTP FTP DHCP DNS DDNS RTP RTSP SNMP

ANT-NEPTUNE

LOW LATENCY SOFTWARE DECODER



THE ANT-NEPTUNE LOW LATENCY PLAYER CAN ACHIEVE A LATENCY OF 100MS WHEN COMBINED WITH THE ANTRICA ANT-177X RANGE OF HARDWARE.

THIS SOFTWARE PLAYER CAN BE INTEGRATED OR USED STAND ALONE TO ACHIEVE 100MS LATENCY.

DECODING OF MPEG-TS OR RTSP STREAMS

THE PLAYER SUPPORTS RECORDING, PLAYBACK AND ANALYTICS

MULTI SCREEN VERSIONS ARE IN BETA FORM

AVAILABLE AT NO COST TO USERS OF THE ANT-177X RANGE OF MODULES

SIGNIFICANTLY FASTER THAN VLC PLAYER AND STABLE

1920 X 1080 @ 60FPS

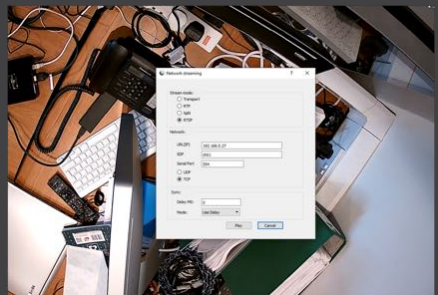
HDMI , HD-SDI & CVBS

ONVIF PROFILE S

USB RECORDING

DECODE WITHOUT PC

ENCODE LIVE VIDEO



SITUATIONAL AWARENESS VIDEO



The ANT-177X series of encoders can simultaneously encode and stream 2, 4 or 8* multiple camera inputs .

Cameras are independently encoded into Low Latency streams which can be combined for 360 degree views.

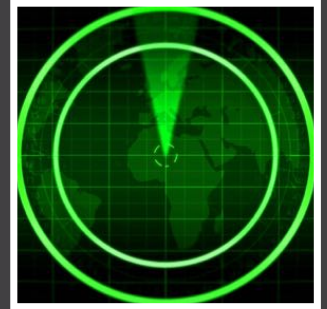
UAV , Ground or Sub Sea unmanned vehicles benefit from situation awareness over IP streaming in ultra small form factors.

Combined with a low latency Decoder Player called Neptune Player video is viewed, streamed and recorded near real time.

* using a special version called pro

RADAR SCREEN VIDEO ENCODING

The ANT-35000A/H encoders allow 2048x2048 Radar information to be encoded real time , recorded and streamed to a remote viewing and recording platform or VMS. Live Radar information can be streamed and displayed in a central location regardless of Radar screen location



LOW LATENCY VIDEO LINKS

Where Live video is key for control and command purposes minimal delay is critical. Antrica offer a range of solutions for achieving near 100ms end to end latency over standard IP LAN and radio links.



UAV DRONE VIDEO TRANSMISSION

The ANT-177X series of Encoders and Decoders offer sub miniature Multi Camera video to IP streaming. Where performance, size and weight is critical Antrica offer encoding of HDMI, HD-SDI or Composite video in a single miniature encoder. Recording on board and two way serial control data and embedded meta data are just some of the features aimed at the AUV market.

CONTROL & COMMAND ROOM ENCODING

Antrica offer a range of Encoders developed to encode the output of an LCD display connected to a PC or other machine. The Full LCD screen is encoded and streamed to a central control room for display . HDMI DVI and HD-SDI inputs can be encoded at full resolution and frame rate of the display screen



UNMANNED AIR, SUB SEA & LAND VEHICLE ENCODERS

Antrica supply encoders into any unmanned vehicle application requiring small size , multiple camera encoding , recording and two way data. A range of video inputs and two way data formats are supported together with audio and embedded meta dat such as GPS



ANT-177X TECHNICAL SPECIFICATIONS

Specifications	ANT-1771 UAV Mini	ANT-1772 UAV Micro	ANT-1773 UAV Nano
Processor	FreescalerMX6 SOC 4 x Cortex-A5 @800MHz Neon SIMD Co-processor	FreescalerMX6 SOC 4 x Cortex-A5 @800MHz Neon SIMD Co-processor	FreescalerMX6 SOC 4 x Cortex-A5 @800MHz Neon SIMD Co-processor
System Memory	Up to 4GB MB LPDDR2 Up to 8GB NAND Flash	Up to 4GB MB LPDDR2 Up to 8GB NAND Flash	Up to 1GB LPDDR2 Up to 1GB NAND Flash
Video In	2 x HDSDI 4 x Composite LVDS / Camera Link Option	1 x HDSDI 2 x Composite	1 x HD-SDI / HDMI 1 x Composite 4 x Composite
Video Out	2 x HDSDI 4 x Composite	1 x HDMI 1 x HD-SDI 1 x Composite	1 x Composite
Audio	Stereo Line Input Microphone & Speaker I/O	Stereo Line Input Microphone & Speaker I/O	Microphone Input
CODEC-Encoder Multiple Formats	1 x 1080p30 + 2 x D1 2 x 1080p15 2 x 720p30 2 x D1	1 x 1080p30+ 1 x D1 1 x 1080p30+ 1 x D1 2 x D1	1 x 1080p30+ 1 x D1 1 x 1080p30+ 1 x D1 4 x D1
CODEC-Encoder Single Formats	1 x 1080p30 1 x 720p60 VBR & CBR H264 Up to 25Mbps/sec RSTP RTP UDP MPEG-TS	1 x 720p30 1 x 720p60 1 x 1080p30 VBR and CBR H264 Up to 25Mbps/sec RSTP RTP UDP MPEG-TS	1 x 1080p30 1 x 720p60 1 x 720p30 1 x D1 VBR and CBR H264 Up to 23Mbps/sec RSTP RTP UDP MPEG-TS
Decoder	1x D1 2 x 720p60 2 x 1080p30 1 x 1080p60	1 x D1 1 x 1080P30 1 x 1080P30 + 1 x SD	1 x D1
Network	Ethernet 10/100	Ethernet 10/100	Ethernet 10/100
Video Storage Memory	SD Card SDIO / NAND Flash 2GB	SD Card SDIO / NAND Flash 2GB / USB OTG	SD Card SDIO / NAND Flash 1GB / USB OTG
Serial	RS232/422 Stnanag 4609 8x GPIO	RS232/422 Stnanag 4609 8x GPIO	RS232/422 Stnanag 4609 8x GPIO
Dimensions	Main board: 80 x 50 x 10mm Add on board: 80 x 50 x 13mm	Main board: 45 x 45 x 10mm	Main board: 25.4 x 50.8 x 15mm
Weight	65g	37g	22g
Supply	3.3v DC (5-30v DC option PCB)	3.3v DC or 5-30v DC	4.5-16v DC
Power Consumption	5.4w Typical	3w Typical	3.48w Typical
Temp	-40 - +85	-40 - +85	-40 - +85

ACCESSORIES & CONNECTIONS



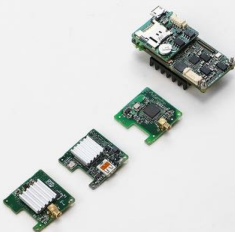
ANT-1771 Module

- HD-SDI module
- LVDS Module
- Camera Link Module
- Power Cable+ Regulator
- RS232 & Ethernet Cable
- HD-SDI BNC Video Cables
- Analogue Video Cables
- SD Card Cable+module



ANT-1772 Module

- Power Cable
- Ethernet Cable
- SD/HD BNC Video Cables
- RS232 module and cable
- optional SD card extender



ANT-1773 Module

- HDMI or HDSDI module or
- Quad SD video module
- Power Cable PSU
- Ethernet Cable
- SD BNC Video Cable
- SD Video Cable x4
- SD Card Recording Module
- RS232 Cable