

ANT-1773 encode 4 composite sources

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Versions tested

Device	version	comments
Neptune Guard	2.4.7	-
Neptune Player	1.6.9	
ANT-1773	2.3.8.6	Requires SD upgrade to when upgrading from 2.3.7.x or lower

Document info

Version	date	author	Comments
0.1	12-Dec-18	David M	4 CVBS setup – first draft
0.2	18-Dec-18	David M	Additional contact details
0.3	13-Jan-20	David M	Re-formatted and Added comment about tvp5158 (4ch) & tw9910 (1ch)
1.0	16-Dec-20	David M	Using SD1, Sd5 -> SD7



1. Encoder connectivity

The image shows connections on the Ant-1773 for the Video feeds, ethernet connector and power. **NOTE**: the power connector is centre positive \bigcirc and is in the range 4.5-16V DC.

For the Quad input cable the connections are shown in Table 1.

Table 1 : Quad connector cable colour vs channel ID

Camera Name	Cable Colour	Cable Label	Comments
CSI-2 CH-0	green	Video 1	-
CSI-2 CH-1	yellow	Video 2	-
CSI-2 CH-2	blue	Video 3	-
CSI-2 CH-3	red	Video 4	-

It is advisable to have 4 sources, ideally mainboard and 1 thru' 3 of quad input.

Figure 1 : ANT-1773	Mezzanine board side
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Figure 2 : ANT-1773 Main board side



The URLs to use with VLC are:

rtsp://192.168.0.30:554/mux1.sdp rtsp://192.168.0.30:554/mux2.sdp rtsp://192.168.0.30:554/mux3.sdp rtsp://192.168.0.30:554/mux4.sdp

The IP address, in the above URLs, is that of the ANT-1773, so if the control address of the ANT-1773 is changed the decoder URLs will need to change.



2. Encoder setup

2.1. Camera selection

Ensure suitable feed to connected to the ANT-1773

On the web GUI







and this shows the camera details,

note the Camera "Name", with the newer 2.3.8.6 code, the name style CSI-1 CH-0 and not SD1 or HD1.

<u>Camera</u>				
Name	S tatus	resolution	Interlaced	FPS
CSI-1 CH-0	Lock	PAL	Interlaced	25
CSI-2 CH-0	Lock	PAL	Interlaced	25
CSI-2 CH-1	Lock	PAL	Interlaced	25
CSI-2 CH-2	Lock	PAL	Interlaced	25

Note SD 8 / CSI CH-3 / red cable on connector is not used.



2.2. Streaming control





2.3. Optional

2.3.1. Alter bitrate of encoded video

Home \rightarrow Setting \rightarrow Mux Setup



Select the Mux required, in this example Mux1 and Mux2 are being used

Mux: Mux1 Mux1 Mux2 Mux3 Mux4	From the "mux:" drop-down select the require Mux to alter parameters. In this example Mux1
Record	
Frame Rate	
Encoding	Click the Encoding to open the additional dialogue
Encode Mode: CBR GOP: 30 QL Value: 23 Bitrate: 5000 IQ: Auto IQ Value: Auto	In the bitrate input numbers like 2000 for composite. If better quality is required higher number can be used. Again, click save when all is done.

2.3.2. Manually start streaming

Home \rightarrow Streaming \rightarrow Click the green "play" button



In the above case Mux1 will be prepared for any RTSP connection, sometimes this is required for a VLC connection

Once clicked the play button changes to the "red square" / stop button



3. Display stream

3.1. Neptune Player

Neptune Player has a very low latency viewer.

Start Neptune player, from start menu; look for "Neptune" folder -> "Neptune Player 1.6.9", or use the Desktop Icon Currently the lastes version is 1.6.9.

	Neptune Player 1.6.9				Neptu Media	Tools	Help
From the Nept	une Player select I	Media -> Net	twork Stream		Dafi Swit	work Stree	am y
From the "Net	work stream" wind	low					
Stream mode: Transport RTP Split RTSP				Select RTSF	for St	ream	mode:
Network:				- IP address c	of ANT-	1773	
URL(IP)	192.168.0.30			_ mux1.sdp f mux2.sdp (for Mux etc.	1, for	Mux2 use
Serial Port	554			554 the RS ⁻ selection	TP port	used	Camera
O TCP Sync Delay (MS):	0			UDP or TCP	, defau	lt is U	DP
Record							
☑ Trick Mode							
C:/Users/Work PC/Des	ktop/recordings/NeptunePlayer		Directory				
		Play	Cancel	- Play to star	t		

Once started Neptune player will cause the Streaming "play" button to turn from a green triangle to a red square.



3.1.1. Neptune player install and activation

Neptune Player has a very low latency. It is bundled with the "neptune_install_x.x.x-x.rar" which is available from https://antrica.com/ go to the ANT-1773 product web page -> Product Info & Downloads -> Downloads -> Software-> Neptune Guard_player, then select and download neptune_install_x.x.x-x.rar.

Extract and run the "neptune_install_x.x.x.exe"

Open "Neptune Player x.x.x"

Accept / "Allow access" to any Windows Firewall messages

Neptune player need activating before it can used;

Neptune Player -> Help -> Activate



A new window then appears. The "Provider number" and corresponding "Activation number" will change every time the window is closed and opened.

Contact <u>Antrica</u> to get the "Activation number", once the 4-digit number has been typed in click OK

O Activation Setup
Send the provider number to get the activation number.
Provider number: 1955 Activation number:
OK Cancle

Neptune Player is now ready to use

To Contact <u>Antrica:</u> Email: <u>support@antrica.com</u> Telephone: +44 (0)1628 626 098 option 3 for technical support



3.2. VLC

VLC is a free and open source media player available from <u>https://www.videolan.org/</u>. It supports multiple Operating systems.

Once installed open VLC media player select Media -> Open Network Stream

