ANT-35000 QUICK START GUIDE

Applicable to ANT-35000H/H1 / ANT-35000A/A1

CCTV & Security

Broadcast

Medical
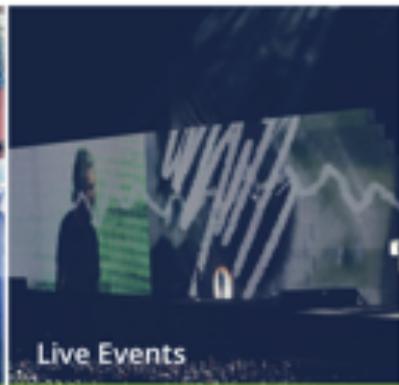
Live Events
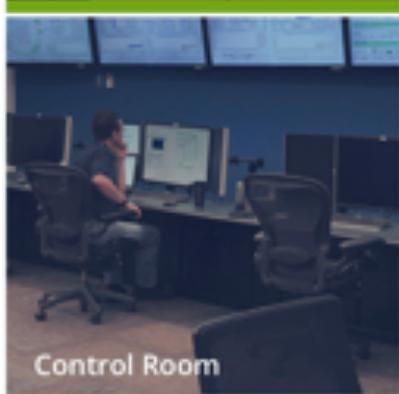
Control Room

Sport Video
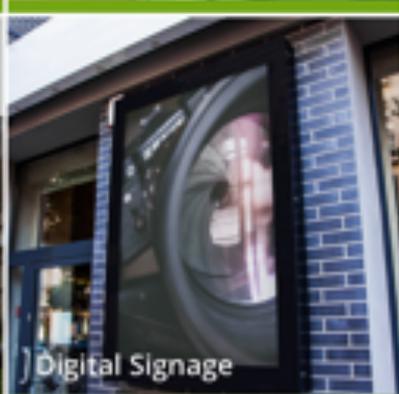
Digital Signage
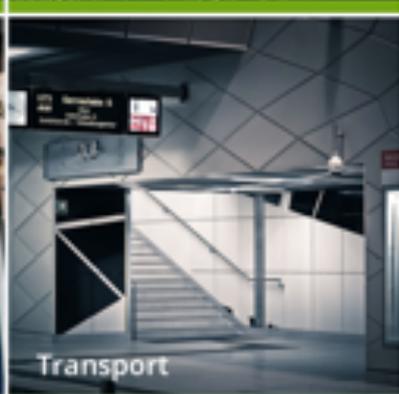
Transport
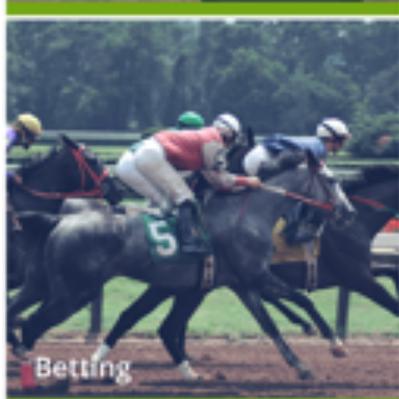
Betting

Worship

IPTV

Military & UAV

Contents

ANT-35000A/A1 (3G HD-SDI HDMI & Composite)

ANT-35000H/H1 (HDMI) HDMI only

Both models are identical except for the inputs they support

Latest Firmware is identical for these models except older Firmware may not be compatible with A1 H1 models. support@antrica.com for details

1.What's in the Box

The ANT-35000 box contains

> \- ANT-35000 encoder
>
> -12 Volt Power converter (requires an IEC AC mains lead)
>
> -UK/EU/USA or China IEC 110/240v AC Lead (depending on your location)
>
> -Fixing brackets

2. Setting up the ANT-35000

Connect the ANT-35000 to a laptop or PC via an Ethernet switch using standard ethernet cables.

Connect the input Video source using an HDMI, HD-SDI or composite video cable (depending on model you have chosen, HDMI only for the H version).

Connect the 12 volt power input (or use PoE)and switch on.

The ANT-35000 will take approximately 2 minutes to boot up. You will see 4 LEDs. On powering the Red power LED is ON, after boot up the Green Status LED will flash. **The status of these LEDs is described in the table at the end of this guide** You are now ready to setup the ANT-35000 Encoder

3. Configuring the ANT-35000

The ANT-35000 default IP address is **192.168.10.100** . Please set the laptop/PC Ethernet IP address to be in the same sub-domain e.g 1**92.168.10.XXX**

Open Internet Explorer or Chrome (this will allow video to be viewed) or other browser to just view settings and browse to **192.168.10.100**

You will be asked to LOGIN: **User : admin , password: 1234**

Please Note! There is a SETUP button top right in the first web page :Click

3.1 Video Information
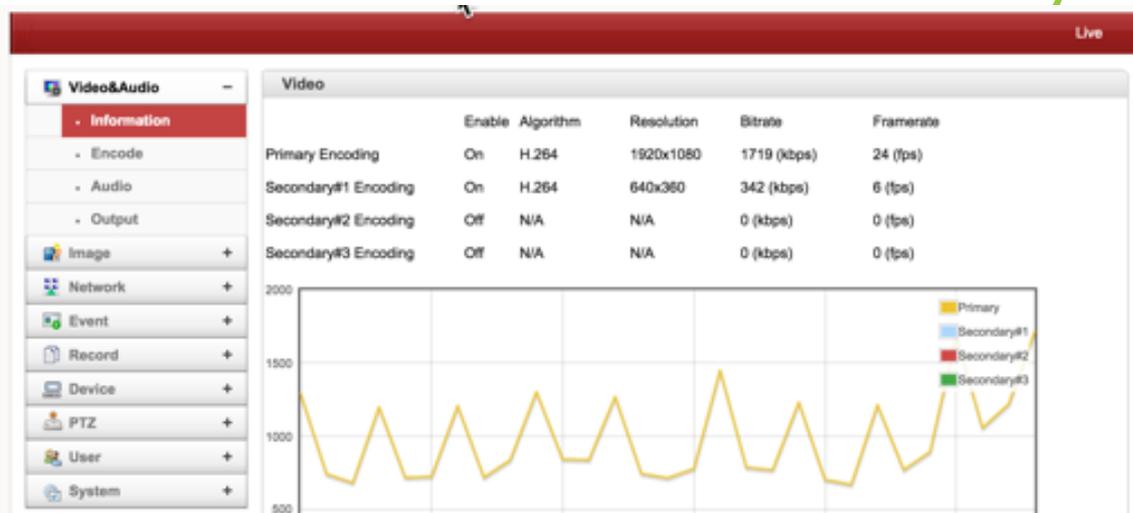
The Video Information page shows if a valid video signal is connected and gives information about the stream settings. Note: To view Video in a Browser, Google Chrome requires a plugin and the old internet explorer uses an Active X plug in. These will only load if the browser can access the internet.

3.2 Video Encode:Settings

Input format HDMI only for ANT-35000

Input format Detected in Auto Mode

Primary Stream settings 3 other tabs for stream 2-4

3.3 Network- IP & Port:

This section allows you set the encoder IP address and other network items
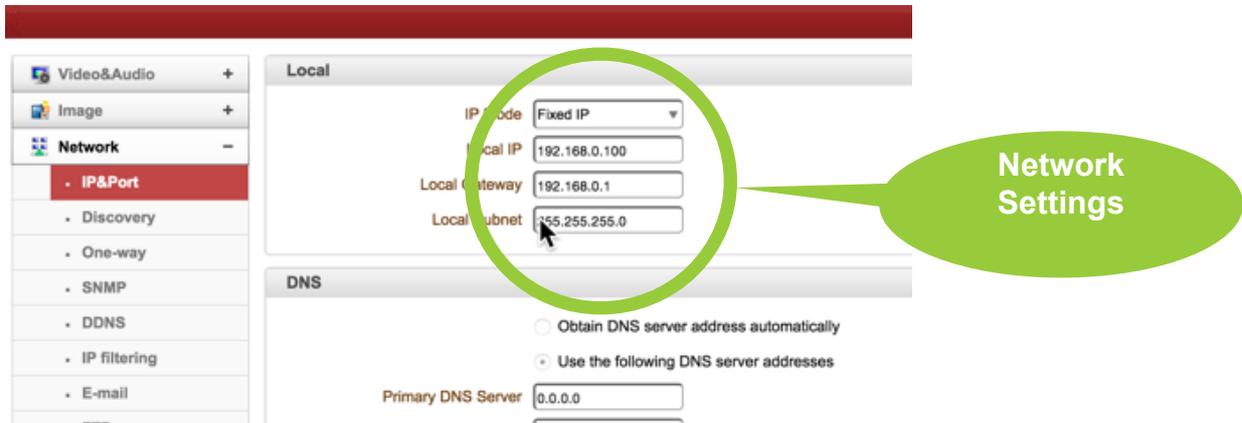
4.Streaming :

This section explains how to stream the following formats to VLC player as an example player. Settings may vary with other players

4.1 RTSP over TCP to VLC player:

RTSP streaming only requires one setting to be changed in the ANT-35000. This is the RTSP port which can be found under Network-IP&Port. By default this Port 554
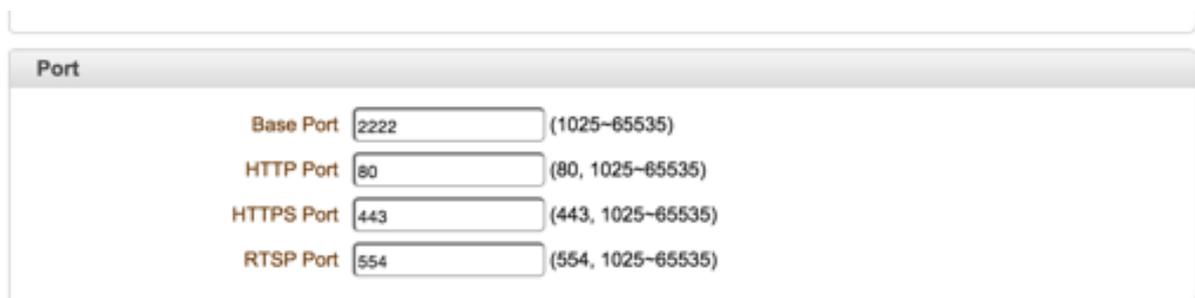
 The ANT-35000 RTSP URL is as follows:

rtsp://<IP ADDRESS>:<PORT>/video1 (video only streaming of primary stream)

rtsp://<IP ADDRESS>:<PORT>/video1s (video only streaming of 2nd stream)

rtsp://<IP ADDRESS>:<PORT>/video1s1 (video only streaming of 3rd stream)

rtsp://<IP ADDRESS>:<PORT>/video1s2 (video only streaming of 4th stream)

Port is 554 in this case

If audio is required the URL adds **+audio1** (audio1s or audio1s1 or audio1s2)

e.g rtsp://user:password@<IP ADDRESS>:<PORT>/video1s1+audio1s1 (video + audio streaming of third stream) the audio URL extension always follows the video URL . User:password@ use if authenticated (remove if not authenticated)

Primary 2nd, 3rd and 4th steams are setup in the Video Encode section.

4.1.1 How to Configure VLC Player

Open VLC player and select FILE / OPEN NETWORK . Note the input windows in VLC may vary depending on which operating system you are running VLC on.

This example is the MAC OS X Version of VLC player.

Type in the RTSP URL with Port number as shown in this example:

rtsp://192.168.10.100:554/video1+audio1

Click OPEN…you should see the video stream displayed

If a user name and password box pops up the RTSP is Authenticated and needs user and password. To add user name and user password in the RTSP URL please enter this URL in VLC player : rtsp://username:password@<IP address>:<port>/ video1

NOTE! In advanced settings you will find VLC has a default buffer setting of 1000mS this can be lowered to reduce latency to around 100-200mS

4.2 MPEG Transport Stream over UDP

To stream MPEG TS first we need to setup ONE WAY STREAMING in the ANT-35000 which can be found under NETWORK-One way streaming.

Select MPEG TS and click Apply . Here you can select and Enable any or all of the 4 streams. There are two settings:

IP Address: This is either the destination Unicast IP address of the computer on which VLC is running or the multicast IP address you wish to use.

Port: This is the port you wish to use for streaming
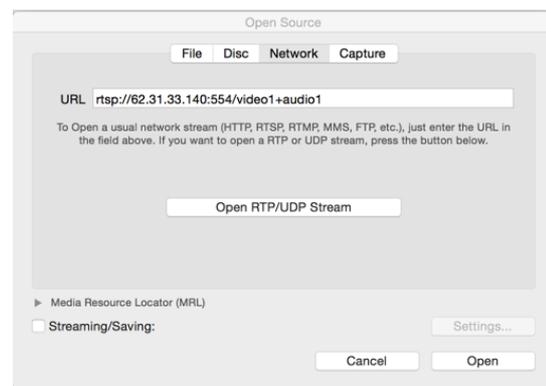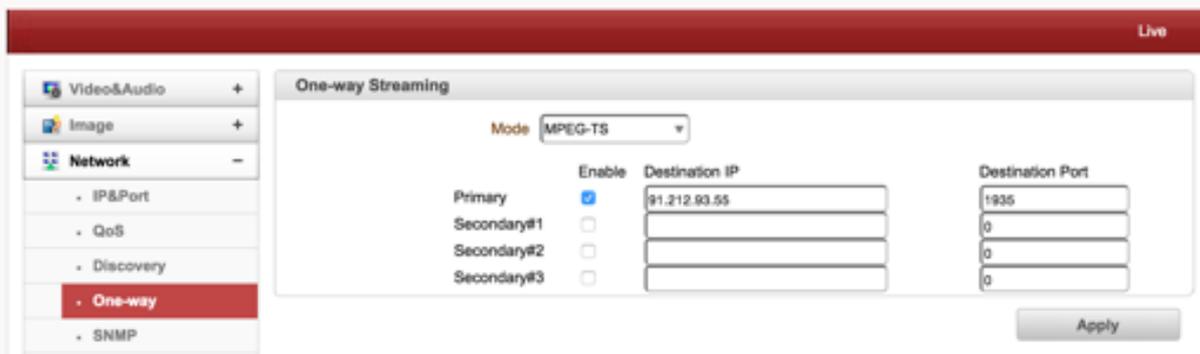
Note! If you want to stream MPEG-TS over the internet you must use the single Public IP address of the building in which the computer, running VLC, is located. The Router in this building will need to PORT FORWARD this stream(port number chosen above) to the internal IP address of the computer. Further data on Port Forwarding and Router setup contact support@antrica.com . Multicast is not supported over the Internet.

4.2.1 Open an MPEG-TS stream in VLC

Open VLC and open File/Network Please note the unicast URL has no IP in it.
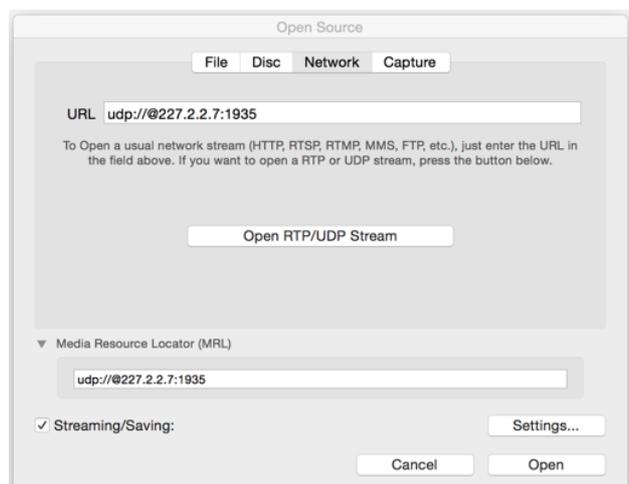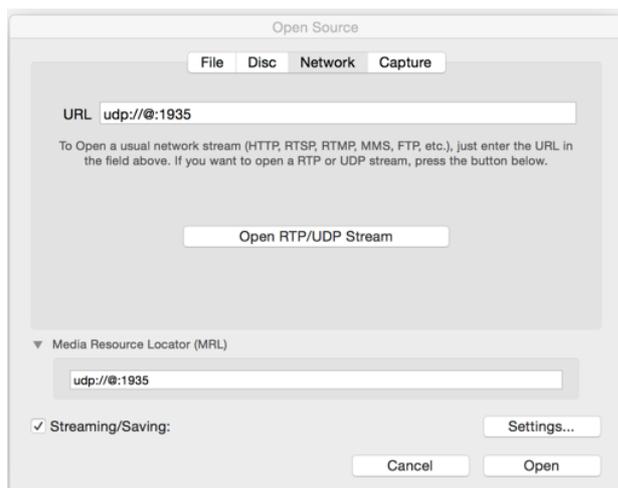
Example URL for MPEG Transport Stream

udp://@:1234 (unicast)

udp://@227.2.2.7:1234 (Multicast)

4.3 Open an RTMP stream

To stream RTMP you will need to know two pieces of information:

RTMP URL : example rtmp://wowza.antrica.com:1935/live/

Stream Name: streamdemo

Complete URL would then be

rtmp://wowza.antrica.com:1935/live/streamdemo

Examples of players will be WOWZA media server or Youtube live streaming . Both of these players can be setup to generate the full URL

Full URL= [Primary server URL:Port]/[Stream name]

5.0 Help and Further Support

5.1 ONVIF Support

The ANT-35000 series supports ONVIF profile S+G and uses port 80 as standard and login user name and password (admin: 1234). Profiles are as defined in the 4 stream settings in section 3.2 of this Quick Start Guide.

5.2 Other Information

Please visit our website www.antrica.com and browse to the product page (e.g ANT-35000) where you can find a DOWNLOADS SECTION :

- application notes
- Full User manuals
- FAQs
- Firmware
- Other useful information
- More help Open up a Technical Support Ticket from the support page.

Contact:

support@antrica.com

Call : +44 1628 626098 x3

LED Status Indicators

LED	State	Description
PWR	Off	Power off
	Red	Power on
STATUS	Green blinking	Normally operating
	Red	System failure: Needs diagnostics
	Constant change of colors between Red and Green	NTSC/PAL setting does not match with input video signal
	Red blinking	Failed to obtain IP address in DHCP mode
	Constant change of colors between Green blinking 2 times and Red blinking once	Failed to register on DDNS server
	Green blinking, Red blinks once every 5 seconds	Video loss in Encoder system
	Constant change of colors : Green, Orange, Red color in turn	Formatting USB storage device
LINK	Off	No connection to remote system
	Green	Connected to a remote system
	Red blinking	Decoder only: trying to connect to an Encoder
	Orange	Illegal connection (unsupported combination of system modes)
DATA	Green	Data transmission in progress
	Red	Data loss
	Off	No data transmission