

ANT-35000 encoder default setup after reset.

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Overview

This document is how to:

- 1. reset the encoder and set it up, with minimal changes to the settings
- 2. view video the RTSP video using VLC.
- 3. create ONVIF profiles and view them with the ONIVF Device Manager tool

For further help and advice please contact Antrica on: Email: <u>support@antrica.com</u> Phone: +44 1628 626098 ext 3

Document info

Version	date	author	Comments
0.1	17-Dec-20	David M	Initial release – True Manager v2.0.1.11
0.2	18-Dec-20	David M	Added ONVIF profiles and ODM 2.2.250 usage
0.3	10-Sep-21	David M	Correct Dropbox links



1. Setup – from reset

1.1. Reset

Navigated to the Upgrade&Reboot web page and click the "Factory Reset" button, as indicated in Figure 1, below. Accept the pop-up message to allow the encoder to be reset.

Figure 1 : System -> Upgrade&Reboot page

			Live
5 Video&Audio	+	Firmware	
📑 Image	+	Version V3.012B01_T913	
Setwork	+	Upgrade Browse	Firmware Upgrade
Event	+		
Record	+	Config Backup&Restore	
🔜 Device	+	Backup	Config Backup
📩 PTZ	+	Restore Browse	Config Restore
& User	+		Coning Restore
🍖 System	-	Reboot	
 Information 			Reboot
Upgrade&Reboot			
- Time		Factory Reset	
• OSD		Exclusions Item Network Preset User List	Factory Reset

1.2. Set IP address

The IP address needs changing to match your network. You can either access the default IP address of 192.168.10.100 or use True Manager to change the IP address to match you network settings.

1.2.1. Using True Manager

Download True Manager – a Windows based Application to discover and alter IP addresses of the ANT-35000 encoder and ANT-36000 decoders, on the network, even across subnets.

Direct link <u>https://www.dropbox.com/sh/z0s020soy9sel5n/AACbohnEDugCg8poSBU3cZhTa?dl=0</u>

Via website : <u>https://antrica.com/</u> -> Downloads -> Software -> Under "Encoders" either

ANT-35000H HDMI Input ONVIF 1080P60 H.264 HD Video Encoder

ANT-35000A HDMI, HD-SDI & CVBS Input ONVIF 1080P60 H.264 HD Video Encoder

Dropbox window opens -> TrueManager_v2.0.1.11 -> download "TrueManager_v2.0.1.11.exe"

Run the executable file, and accept any security messages to allow the program to run.

Select language – English

Then the program opens. From the top menu selected "server" -> "IP discovery" as shown in Figure 2, below.



Figure 2 : True Manager

🔞 True Mana	ger-unlimited (ver 2.0.1.11)			-	\times
File Group	Server Tools View Help				
Group	IP discovery	Settings			
True Mana	Add device Add multiple devices	Name	IP/Domain name	Mac address	Mode
	Remove device				
	Remove all devices				
	Modify device information				
	Web setup page of device				
	Web viewer of device				-
	Popup viewer of device				
	Setup device				
	Send http api				
	Change mac address				
	IVS license				
	IVS license (Hisilicon)				
	PTZ firmware				
	Change password of device(s)				>
	Change name of device				

A new window opens, as shown in Figure 3, below, and the network is scanned for certain Antrica products. These products are then listed.

Figure 3 : True Manager – after IP discovery

6 L					-			Filter		
Select all							Mac Search	Mode		None
address	Mac address	Base port	Http port	IP mode	Model	Firmware	Mac collision	IP address		
127.0.0.1	79:D0:E0:BC:70:FB	2222	80	Fixed IP	RESPTEST		A STATE OF A STATE OF	Mask		192 . 168 . 10 . 0
192, 168, 0, 130	00:1C:63:82:11:08	2222	80	Fixed IP	TN-B230LSLX	V3.706R01 T100				
192, 168, 0, 131	00:1C:63:B3:4D:20	2222	80	Fixed IP	ANT-35000H1	V3.012B01 T913				
192, 168.0, 133	00:1C:63:BE:0D:19	2222	80	Fixed IP	ANT-36000	V4.912B03 T913		Range	From	192 . 168 . 10 . 1
192, 168, 0, 137	00:1C:63:8F:00:89	2222	80	Fixed IP	ANT-38500	V11.011B04 T913				
192, 168, 0, 44	00:1C:63:8E:06:92	2222	80	Fixed IP	ANT-36000	V4.012B03 T913			To	192 . 168 . 10 . 255
192, 168, 0, 99	00:1C:63:B3:4B:6E	2222	80	Fixed IP	ANT-35000	V3.907R01 T913				2
192, 168, 10, 100	00:1C:63:B3:0E:DB	2222	80	Fixed IP	ANT-35000	V3.012B01 T913		Mac address		
102.100.101.100	00110100100100100	LLLL		T INCLU IN		101012001_1010		Obtanle		00.10.02.8.8.8
								U Midsk		00.10.00
								Range	From	00:1C:63:00:00:00
									То	00:1C:63:FF:FF:FF
								Option		
								Sorting option		
								TD address		
								IF duuless		~
								Handling dupli	cate ma	ac address
										_
								O Notify Al	ways	Notify once
								O Don't not	ifv	
								Oborreno	ur y	
										Discovery
										Add device
										Hud devide
										Ip change



Select your encoder and the click "Ip change" and a small popup windows opens, as shown in Figure 4, below.

Figure 4 : 1	True Manager	- Change Il	P address
--------------	--------------	-------------	-----------

								Filter	
Select all							Mac Search	Mode	None
IP address	Mac address	Base port	Http port	IP mode	Model	Firmware	Mac collision	IP address	
127.0.0.1	79:D0:E0:BC:70:FB	2222	80	Fixed IP	RESPTEST			Mask	192 . 168 .
192.168.0.130	00:1C:63:B2:11:0B	2222	80	Fixed IP	TN-B230LSLX	V3.706R01 T1	00		
192.168.0.131	00:1C:63:B3:4D:20	2222	80	Fixed IP	ANT-35000H1	V3.012B01_T9	13		
192.168.0.133	00:1C:63:BE:0D:19	2222	80	Fixed IP	ANT-36000	V4.912B03_T9	13	Range From	192 . 168 .
192.168.0.137	00:1C:63:BF:00:89	2222	80	Fixed IP	ANT-38500	V11.011B04_T	913		
192.168.0.44	00:1C:63:BE:06:92	2222	80	Fixed IP	ANT-36000	V4.012B03_T9	13	To	192 , 168 ,
192.168.0.99	00:1C:63:B3:4B:6E	2222	80	Fixed IP	ANT-35000	V3.907R01_T9	13	Mac address	
192.168.10.100	00:1C:63:B3:0E:DB	2222	80	Fixed IP	ANT-35000	V3.012B01_T9	13	Mac audi ess	
~								Mask	00:10:63:
			Ip cha	nge		×		() Phone	
				IP mode	Eived TP	~		ORange From	00:1C:63:00
				I HIOUC				-	
				-	192 168 10	100		10	00:1C:63:FF
				IP address	102 1 100 1 10	. 100			
					255 255 255	0		Option	
				Subnet mask	235 . 235 . 235			Sorting option	
								IP address	
				Gateway	192 . 168 . 10	. 1			
								Handling duplicate	mac address
				Base port	2222			ON-RE. Always	(a) Notifician
			_						Noury on
				Http port	80			O Don't notify	
				ID	admin	-			
					[Discourse
				Password	••••				Discovery
				Char	nge Close				Add device
				-		-			
									In change
									the change

Change the IP detail to your requirement then click "Change". Ideally only change the IP address and Gateway. The encoders IP address has now been set as required. You can now close the "IP discovery" window and exit "True Manager".

Figure 5 : True Manager - set new IP address

Fixed IP ~
192 . 168 . 0 . 132
255 . 255 . 255 . 0
192 . 168 . þ . 1
2222
80
admin
••••



1.3. Setup ANT-35000

From the ANT-35000's web page, navigate to the setup -> Video&Audio -> Video, as shown in Figure 6, below.



Video&Audio	_ View
 Information 	
• Video	HEAL
- Audio	Constant -
- Output	
Image	
Network	
Event	
Record	
Device	
PTZ	
User	+
System	+
	Performance Usage Rate 10%
	Performance Usage Rate 10% Video
	Video Input Format Composite NTSC *
	Video Input Format Composite NTSC * Deinterface Off *
	Video Video Input Format Composite NTSC
	Video Input Format Composite NTSC Deinterface Off Video Input Auto Detect Orf Input Auto Detect
	Video Input Format Composite NTSC Deinterface Off Video Input Auto Detect Orf Video Input Auto Detect Orf Primary Secondary#1 Secondary#3
	Video Input Format Composite NTSC Deinterface Off Video Input Auto Delect Orf Video Input Auto Delect Orf Primary Secondary#1 Secondary#3 Resolution 720x480
	Video Input Format Composite NTSC: * Deinterface Off Video Input Auto Detect Off Video Input Auto Detect Off Primary Secondary#1 Secondary#1 Secondary#3 Resolution 720x400 Framerate 30
	Video Video Input Formal Composite NTSC Deinterface Off Video Input Auto Detect Off Video Input Auto Detect Off Primary Secondary#1 Secondary#2 Secondary#3 Resolution 720x400 Framerate S0 Preference CBR V
	Video Video Input Format Composite NTSC Deinterlace Off Video Primary Secondary#1 Secondary#2 Secondary#3 Primary Resolution 720x480 Framerate S0 Video Vi
	Video Video Input Format Composite NTSC Deinterlace Off Video Input Auto Delect Off Video Input Auto Delect Off Video Primary Secondary#1 Secondary#2 Secondary#3 Resolution 720x400 Framerate S0 Preference CBR Cuality Economy Bitrate 4000 kbps (32 - 18384)
	Video Video Input Format Composite NTSC Deinterface Of Video Input Auto Detect Tr Video Input Auto Detect Primary Secondary#1 Secondary#2 Secondary#3 Resolution 720x480 Framerate S0 Preference CBR Cuality Economy Bitrate 4000 kbps (32 - 18384) I-Frame Interval 30
	Video Video Input Format Composite NTSC Deinterlace Of Video Primery Secondary#1 Secondary#2 Secondary#3 Resolution 720x480 Framerale 30 Preference CBR Cuality Economy Bitrate 4000 kbps (32 - 18384) I-Frame Interval 1284 Profile High Profile

Click the "Input Auto Detect", as indicated in Figure 6, above. New pop-up window will appear, as show Figure 7 and Figure 8, below. Figure 7 is for a ANT-35000H / H1 and Figure 8 is or a ANT-35000A / A1 with all its input's connected. In Figure 9, below, some of the input are not connected and the "unplugged" message is seen. Selected the required input, and this window will close.

If "Unplugged" is shown then the input has not been detected.

Investigation will need to be done by **you** to find the issue. It is likely to be an issue with the source, but in rare circumstances it has been an issue with the HDMI input chip. In these cases, the customer has damaged the HDMI input chip.

Figure 7 : ANT-35000H - input auto detect

nput Auto Detect			
HDMI	HDMI 1080p60		
		Refresh	Cancel



Figure 8 : ANT-35000A - input auto detect

Input Auto Detect			×
Composite	Composite PAL		
HDMI	HDMI 1080p60		
SDI	HD-SDI 1080i50		
		Refresh	Cancel

Figure 9 : ANT-35000H - input auto detect – with missing inputs

put Auto Detect			
Composite	Unplugged		
HDMI	HDMI 1080p60		
SDI	Unplugged		
		Pofrash	Cancol

Form this example the HDMI was selected, as shown in Figure 10, below. From the "Resolution" setting a list of available resolutions is shown. In this example the maximum 1920x1080 will be selected, and then Apply clicked. **No other** setting should be changed, as the encoder is being setup with most parameters at their default values.

Figure 10 : ANT-35000 - available video resolution

Video			
Input Format HDI	MI 1080p60	w	
Video Input Auto Detect Off	320x240 352x240	w	
	352x288 352x480		Input Auto Detect
	352x576 640x360		
Primary Secondary#1 Sec	720x240	ndary#3	
Resolution	720x288 720x480		
Framerate	720x576 768x432		
Preference	960x540		
Quality	1024x768 1152X864 1280×720		
Bitrate	1280x768	kbps (32 ~ 16384)	
I-Frame Interval	1280x360 1280x1024 1360x768	30	
H.264 Profile	1440x900 1440x1080		
	1600×900 1680×1050		
	1920×1080		Apply
			Арріу



2. To view the Video

2.1. Web interface

If you are using Internet explorer to view the web interface and have accepted the ActiveX plug, the video should be seen, as shown in Figure 11, below.

Figure 11 : ANT-35000 – HDMI video seen in web page

Comparison (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	mi • C Search	□ × ₽- ि☆⊕
🥙 Video Surveillance 🛛 🗙 📑		
<u>Eile Edit View Favourites Tools H</u> elp		
Elle Edit View Favourites Tools Help	<page-header><page-header><page-header><page-header><page-header><page-header></page-header></page-header></page-header></page-header></page-header></page-header>	
	Performance Usage Rate 50%	
	· · · · · · · · · · · · · · · · · · ·	
	Video	
	Input Format HDMI 1080p60 v	~

2.2. Software decoder - VLC

To view the RTSP video, a software decoder like VLC can be used. Ensure the PC is on the same network as the ANT-35000 and can access the ANT-35000's web interface.

Open VLC -> Media -> "Open Network Stream" -> in the "Please enter a network URL:" box add

rtsp://admin:1234@192.168.0.132:554/video1

as show in Figure 12, below. The same URL can be added to most decoders to enable the stream to be viewed.



Figure 12 : VLC - RTSP URL

🛓 Open Media	_		\times
File So Disc Hetwork Capture Device			
Network Protocol			
Please enter a network URL:			
rtsp://admin:1234@192.168.0.132:554/video1			\sim
http://www.example.com/stream.avi rtp://@:1234 mms://mms.examples.com/stream.asx rtsp://server.example.org:8080/test.sdp http://www.yourtube.com/watch?v=gg64x			
Show more options			
	Play -	Can	cel

2.2.1. VLC - information about video

When the video is playing, to see information about the stream, from VLC top menu -> Tools -> "Codec Information" and popup windows will appear, as show in Figure 13, below.

The window contains the encoding algorithm (in the case h.264), resolution, frame rate and access URL. From the "Statistics" tab, the bitrate of the current video can be seen, as indicated in Figure 14, below

Figure 13: VLC - Current Media Information - Codec Information





Figure 14 : VLC – Current Media Information - Statistics

📥 Current	Media Inform	nation		-		>
General	Metadata	Codec	Statistics			
Current m	edia / stream s	tatistics				
✓ Audio	c					
D	ecoded				0 block	S
P	layed				0 buffe	rs
L	ost				0 buffe	rs
✓ Video)					
D	ecoded			88	327 block	S
D	isplayed			44	10 frame	es
L L	ost				10 frame	es
✓ Input	/Read					
N	1edia data siz	e			0 KiB	
> Ir	nput bitrate				0 kb/s	
D	emuxed data	a size		530)26 KiB	
C	ontent bitrat	e		28	396 kb/s	J
D	iscarded (co	rupted)			1	
D	ropped (disc	ontinued)			2	

3. ONVIF profiles

ONVIF is always enabled within the ANT-35000 series encoders. To confirm all the ONVIF profiles are valid, each profile would have to checked to confirm the details are mentioned in "3.3 ONVIF Profile information" below.

3.1. Encoder setup

The encoder can be setup with up to 4 streams. In this example the stream details are shown in Table 1, below, however, your encoder configuration can be used. Each one of these streams will appear as an ONVIF profile. If only 3 streams are enabled then only 3 ONVIF profiles will be available. The caveat is that the ANT-35000 encoders will produce 2 profiles for each stream, one with audio and one without audio. The setup settings for these 4 streams are can be found on the web pages, shown in Figure 6 and Figure 10, above.

Table 1 : ANT-35000 setup for 4 streams

Video	Resolution	Framerate	Bitrate (kbps)	RTSP URL
Primary	1920x1080	30	1500	rtsp://admin:1234@192.168.0.132/video1
Secondary#1	1280x720	30	666	rtsp://admin:1234@192.168.0.132/video1s1
Secondary#2	720x576	25	300	rtsp://admin:1234@192.168.0.132/video1s2
Secondary#3	640x480	25	222	rtsp://admin:1234@192.168.0.132/video1s3

3.2. View ONVIF profiles of a device

To view the ONVIF profiles there is a free to downland and use tool called "ONVIF Device Manager v2.2.250", sometime abbreviated to ODM, available from https://sourceforge.net/projects/onvifdm/

When the program is run, it will scan the network for device which may have ONVIF profiles, shown in Figure 15, below.



Add the username and password of the device you are going interrogate, and then click "Log in". For the ANT-35000 the default values are admin and 1234.

To find the device you can scroll down the list or start typing it's IP address in the IP address search field.

Once the encoder has been found, click on the "panel" to access the device. Once access there are multiple options, as shown in Figure 16, below.







Figure 16 : ODM with encoder accessed



To view the ONVIF profiles, click on "Profiles" and all the ONVIF profiles will be listed, as shown in Figure 17, below.

Figure 17 : ODM - ONVIF profiles

ONVIF Device Manager v2.2.250				
You logged in as admin Log out				
Device list 《	тсам		Profiles	
192.168.0.132 Cancel TCAM Firmware V3.012B01_T913 Address 192.168.0.132 Location		Identification Time settings Maintenance Network settings User management Certificates Relays Web page Events	0_PROFILE_WITH_AUDIO 1_PROFILE_WITH_AUDIO 2_PROFILE 3_PROFILE 4_PROFILE_WITH_AUDIO 5_PROFILE_WITH_AUDIO 6_PROFILE 7_PROFILE	Details : Start view expanded name: 0_PROFILE_WITH_AUDIO token: 0_PROFILE_WITH_AUDIO fixed: True Video Source Configuration: 0_VIDEO_SOURCE_CONFIG Audio Source Configuration: 0_AUDIO_SOURCE_CONFIG Video Encoder Configuration: 0_PRIMARY_VIDEO_ENCODER_CONFIG
O_VIDEO_SOURCE: 0_PROFILE_WITH_AUDIX Live video Video strea Imaging se Metadata PTZ contro Profiles		Live video Video streaming Imaging settings Metadata PTZ control Profiles	Create Delete Edit	Audio Encoder Configuration: 0_AUDIO_ENCODER_CONFIG_PRIMARY PTZ Configuration: PTZConfigurationToken1 Metadata Configuration: 0_METADATA_CONFIG Select

3.3. ONVIF Profile information

To examine a profile, select the profile name and then expand "Video Encoder Configuration", as indicated in Figure 18, below. From the example this image the code is h.264, resolution is 720x576, frame rate is 25 and bitrate is 300 kbps. These are same as those in Table 1, above.



Figure 18 : ODM - Profile video detail

ONVIF Device Manager v2.2.250				
You logged in as admin Log out				
Device list 《	тсам		Profiles	
192.168.0.132 Cancel TCAM Firmware V3.012801_T913 Address 192.168.0.132 Location Description		Identification Time settings Maintenance Network settings User management Certificates Relay Web page Events Refresh Live video Video streaming Imaging settings Metadata PTZ control Profiles	O_PROFILE_WITH_AUDIO 1_PROFILE_WITH_AUDIO 2_PROFILE 4_PROFILE 4_PROFILE_WITH_AUDIO 5_PROFILE_WITH_AUDIO 6_PROFILE 7_PROFILE 3 Create Delete Edit	Details : Start view expanded name: 6_PROFILE token: 6_PROFILE fixed: True ✓ Video Source Configuration: 0_VIDEO_SOURCE_CONFIG name: 2_SECONDARY2_VIDEO_ENCODER_CONFIG token: 2_SECONDARY2_VIDEO_ENCODER_CONFIG use count: 2 encoding: h264 resolution: 720x576 session timeout: PT1M quality: 2 frame rate: 25 bitrate: 300 encoding intervat: 0 ✓ PTZ Configuration: PTZConfigurationToken1 ✓ Metadata Configuration: 0_METADATA_CONFIG Select

3.4. View video through ONVIF

To view this stream in ODM, click "Select", as indicated in Figure 18, above. The click "Live video", as indicated in Figure 19, below. The live video can be seen and the URL for that stream is displayed at the bottom of the page, as indication. In this example it is:

rtsp://192.168.0.132/video1s2.

The username, password and RTSP port of 554 are already setup and so are not displayed.



Figure 19 : ODM - Live video and RTSP URL



For all the uses of the ONVIF Device Manager tool please refer to on-line documentation, available from <u>https://wiki.synesis.ru/display/ODMDOC</u> (link is correct as of 17-Dec-20)