

ANT-35000 encoder default setup after reset.

Contents

ANT-35000 encoder default setup after reset	1
Overview	1
Document info	
1. Setup – from reset	2
1.1. Reset	2
1.2. Set IP address	2
1.2.1. Using True Manager	2
1.3. Setup ANT-35000	
2. To view the Video	7
2.1. Web interface	7
2.2. Software decoder - VLC	7
2.2.1. VLC - information about video	8
3. ONVIF profiles	9
3.1. Encoder setup	9
3.2. View ONVIF profiles of a device	9
3.3. ONVIF Profile information	
3.4. View video through ONVIF	. 12

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
😼 Video&Audio	+	Firmware	
📑 Image	+	Version V3.012B01_T913	
👯 Network	+	Upgrade Browse	Firmware Upgrade
Event	+		
Record	+	Config Backup&Restore	
🔙 Device	+	Backup	Config Backup
📩 PTZ	+	Restore Browse	Config Restore
& User	+		comg restore
💮 System	-	Reboot	
 Information 			Reboot
Upgrade&Reboo	x		
- Time		Factory Reset	
+ OSD		Exclusions litem 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 Manaj	ger-unlimited (ver 2.0.1.11)			-		×
File Group	Server Tools View Help					
Group	IP discovery	Settings				
		Name	IP/Domain name	Mac address	E.	Mod
	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

discovery								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:E0:8C:70:F8	2222	80	Pixed 1P	RESPTEST		C.V151: 0 - C - O - C	Mask	192 .	168 . 10 . 0
192.168.0.130	00:10:63:82:11:08	2222	50	Poxed IP	TN-8230LSLX	V3.706R01_T100				
192.168.0.131	00:10:63:83:40:20	2222	80	Fixed 3P	ANT-35000H1	V3.012801_T913			11	
192.168.0.133	00:1C:63:BE:0D:19	2222	80	Fixed IP	ANT-36000	V4.912803_T913		Citizoge Prom	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	V4.012803_T913		To	192	168 . 10 . 255
192.168.0.99	00:10:63:83:48:68	2222	80	Fixed IP	ANT-35000	V3.907R01_T913		Mac address		
192.168.10.100	00:1C:63:83:0E:08	2222	80	Fixed IP	ANT-35000	V3.012B01_T913		Par, address		
								C Maile	-00	110163171717
								C. C. COMPL.	5.09	
							_	CRange From	00:	10:63:00:00:00
							_	To	.00:	1C:63:FP:FP:FF
								Option Sorting option		
								IP address		
								Handling duplicate	nac address	
								O Notify Always	(6)	lotify once
								100000000000000000000000000000000000000	s (1983	0.11.0.07
								○ Den't notify		
								-	Discover	
									Discover	
									Add devic	ż
									Ip chang	
								Reset passwo	. 11	Close



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

Figure 4 : True Manager - Change IP address

							Constant and the set of the	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:E0:8C:70:F8	2222	80	Pixed IP	RESPIEST			C Mask	192 . 160 .
192.168.0.130	00:10:63:82:11:08	2222	80	Fixed IP	TN-B230LSLX	V3.706R01_T100	2		
192.168.0.131	00:10:63:83:40:20	2222	80	Fixed 3P	ANT-35000H1	V3.012801_T913	-		1000
192.168.0.133	00:1C:63:8E:00:19	2222	80	Fixed IP	ANT-36000	V4.912803_7913	\$	Range From	1 192 . 168 .
192.168.0.137	00:1C:63:8F:00:89	2222	80	Fixed IP	ANT-38500	V11.011804_T91	13		
192, 168.0.44	00:1C:63(8E:06:92	2222	80	Fixed IP	ANT-36000	V4.012803_T912	1	To	192 . 168 .
192.168.0.99	00:1C:63:83:48:6E	2222	80	Fixed IP	ANT-35000	V3.907R01_T91	3	Mac address	
2 192.168.10.100	00:1C:63:B3:0E:D8	2222	80	Fixed IP	ANT-35000	V3.012B01_T913	8	rick think the	
\wedge			Ip ch	ange	La rissie	×		OMedi	00:30:63
1				1	10			CRange From	00:30:63:00
				IP mode	Fixed IP	×			
				IP address	192 . 168 . 10	. 100		To	00: 10:63/FF
				S donet mask	255 , 255 , 255	. 0		Option	
				Souther man				Sorting option	
				Gateway	192 . 168 . 10	. 1		IP address	
			-	Base port	2222		-	Hending duplicate	mac address
				unse por c				O Notify Always	Notify on
				Http port	80			O Don't natify	
				10	admin				
						_	_		-
				Password					Discovery
				Cha	nge Close	1			Add device
			-		1				Ip 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".

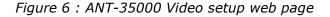
Figure 5 : True Manager - set new IP address

IP mode	Found IP U
IP address	192 . 168 . 0 . 132
Subnet mask	255 . 255 . 255 . 0
Gateway	192 , 168 , þ , 1
Base port	2222
Http port	80
ID	admin
Password	



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.



WeekAudio	- Vew
 Montalize 	and a
- Wileo	New York
- Antir	we all
- Output	
lever .	
and the second	
East	
Read	
Devius	
PTR .	
the .	
- System	
	Performance Calumenton Performance Diago Raty 17% Video
	Performance Usage Rate 19% Voleo Figul Promal Composite N1700 * Definition Color of the Promal Composite N1700 * Definition Color of the Promat Auto Defect Figure Promaty Secondary#1 Secondary#2 Secondary#1
	Performance Usage Rate 19% Voleo Performad Performad Performad Performad Performad Performance Performance Perform
	Performance Usage Rate 19% Voleo Pepd Formel Composite N100 * Definition: Col: * Voleo Inpud AutoCalled Col: *
	Performance Usage Rule 19% Weles Expl. Fromael Composite N100 * Definitions Coll * Votes input AutoDalace Coll * Votes input AutoDalace Coll * Permany Secondary#1 Secondary#0 Secondary#0 Permany Coll * Performany Coll * Performany Coll * Performany Coll * Performany Coll *
	Pertormance Usage Ruty 12% Weles Sept Formed Composite N100 * Definitions Of * Voteo Input AutoDated Or * Voteo Input AutoDated Or * Voteo Input AutoDated Or * Voteo Input AutoDated Or * Promany Secondary#1 Secondary#0 Secondary#0 Promany Secondary#1 Secondary#0 Protection T20x50 * Protection T20x50 * Protection T20x50 * Protection Q35 * Cut () Promany 0
	Pertormance Usage Ruty 19% Weles Sept Fromed Composite N100 * Definitions Coll * Voteo Input AutoDated Coll * Voteo Input AutoDated Coll * Voteo Input AutoDated Coll * Permany Secondary#1 Secondary#0 Secondary#1 Permany Secondary#1 Secondary#0 * Permany Coll * Permany Coll * Permany Coll * Coll *
	Pertormance Usage Rate 19% Weles Expl. Fromal Composite N100 * Derivatures 06 * Voteo Input AutoDated for * Voteo Input AutoDated for * Voteo Input AutoDated for * Voteo Input AutoDated for * Permany Secondary#1 Secondary#0 Secondary#0 Permany Secondary#1 Secondary#0 * Permany 03 * Pertures 03 * Pertures 03 *

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

Input Auto Detect			ж
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

Input Auto Detect			3
Composite	Vinplugged		
HDMI	HDMI 1080p60	N	
SDI			
		Refresh	Cancel

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 HDMI	1080p60	Ŧ	
	20x240 52x240	T	
35	52x288 52x480		Input Auto Detect
64	52x576 40x360		
72	20x240	ndary#3	
Resolution 72	20x288 20x480		
Framerate 76	20x576 68x432		
Preference 96	00x600 60x540 024x768		
Quality 11	152X864 280x720		
Bitrate 12		kbps (32 ~ 16384)	
I-Frame Interval	280x1024 360x768	30	
H.264 Profile	440x900 440x1080		
16	600x900 680x1050		
	920×1080		Apply



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

St Yew	Fguourites Jools Help			Live
1	😼 Video&Audio	-	View :	
	 Information 		A Constant and A Cons	Terrar
	• Video		A Contraction of the second se	
	 Audio 		7. IP.7 / 7/	
	- Output			
	🖹 Image	+		
	😟 Network	+		
	Event	+		
	Record	+		100
	💂 Device	+		
	📥 РТД	+	A N N	k
	😫 User	+		(14)
	🔄 System	+		
			P I Determined the second termined to the second termined termined to the second termined termi	
			Performance Calculation	
			Performance Usage Rate 50%	
			Video	

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		5.75	
🗈 File 🛛 😒 Disc 🦞 Network	Capture Device		
Network Protocol			
Please enter a network URL:			
rtsp://admin:1234@192.168.0.132:5	54/video1		\sim
imms://mmis.examples.com/stream.asx ifsp://isever.example.cog/8080/best.sdp http://www.yourtube.com/watch?v=306	4x		
Show more options			

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

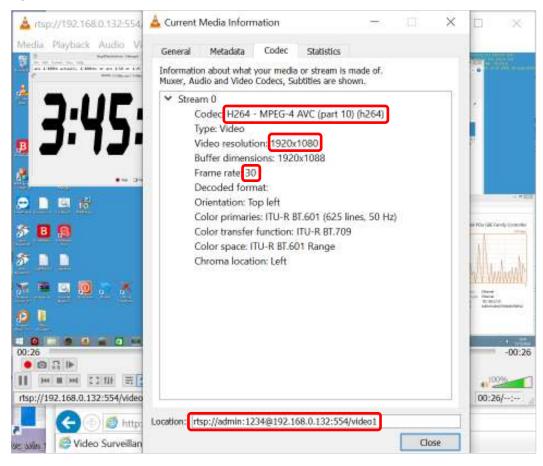




Figure 14 : VLC – Current Media Information - Statistics

General Metadata Codec Statistics			
Current media / stream statistics			
✓ Audio			
Decoded		0 block	ks
Played		0 buffe	ers
Lost		0 buffe	ers
✓ Video			
Decoded	8	827 block	ks
Displayed	4	410 fram	es
Lost		10 fram	ies
➤ Input/Read			
Media data size		0 KiB	
Input bitrate		0 kb/s	
Demuxed data size	53	026 KiB	
Content bitrate	2	896 kb/s	
Discarded (corrupted)	_	1	
Dropped (discontinued)		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.



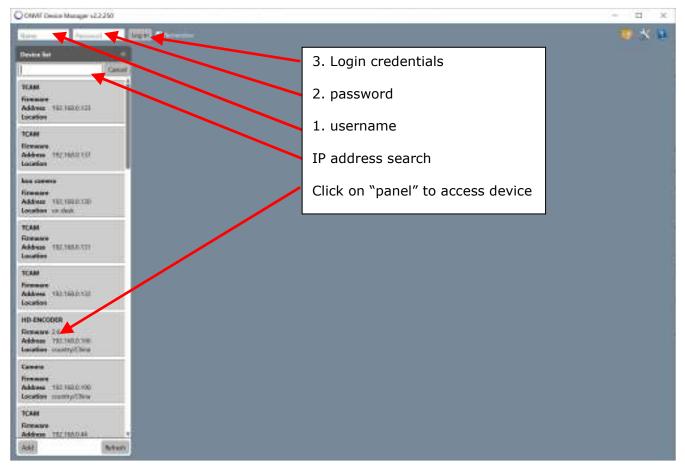
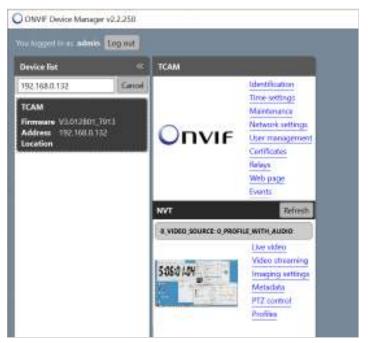




Figure 16 : ODM with encoder accessed



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

Orvice list	C TCAM		Pullio		
192.168.0.132 Gain	-	/IF User management Corritories Rainya Walt page Events	O PROFILE WITH AUDIO	Ortain	
TCAM			1 PROFILE WITH AUDIO 2 PROFILE 3 PROFILE 4 PROFILE WITH AUDIO 5 PROFILE WITH AUDIO 6 PROFILE 7 PROFILE	Start view expanded	
Firmware V1.012801,7913 Address 192,108.0,132 Location				Name: @/ROFILE_WITH_AUDIO token: @/ROFILE_WITH_AUDIO fixet: True	
				C Webes Source Configuration: R_WDEO_SOURCE_CONFIG	
				C Audia Source Configuration: 0,44000,SOURCE,CONPG	
	NVT	Refresh		Wideo Encoder Configuration: 0_PRIMARY_VIDEO_ENCODER_CONFIG	
	a video source o pro	I VIDED SOURCE O PROFILE WITH AUDIO		S Audio Encoder Configuration: 0,40000 ENCODER, CONFIG. PRIMARY	
		Live video Video streaming Imaging settings		PIZ Configuration: #12ConfigurationTicken1	
	5050109			Metadata Configuration: II METADATA CONFIG	

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 TCAM Firmware V3.012801_7913 Address 192.168.0.132 Location		Identification Time settings Maintonance Network settings User management Certificates Relay 2 Web page Events Relay 2 Web page Events Relay 2 Video streaming Imaging settings Metaclata PEZ control PEC fortis	0_PROFILE_WITH_AUDIO 1_PROFILE_WITH_AUDIO 2_PROFILE 3_PROFILE 4_PROFILE_WITH_AUDIO 5_PROFILE_WITH_AUDIO 6_PROFILE 7_PROFILE 3	Ontails : Start view expanded name: 6_PROFILE token: 6_PROFILE tead: True Image: 6_PROFILE Image: 6_PROFILE tead: for training: 0_PROFILE Image: 6_PROFILE tead: for training: 0_PROFILE tead: for training: 0_PROFILE tead: for training: 0_PROFILE Image: 0_PROFILE tead: for training: 0_PROFILE </td

3.4. View video through ONVIF

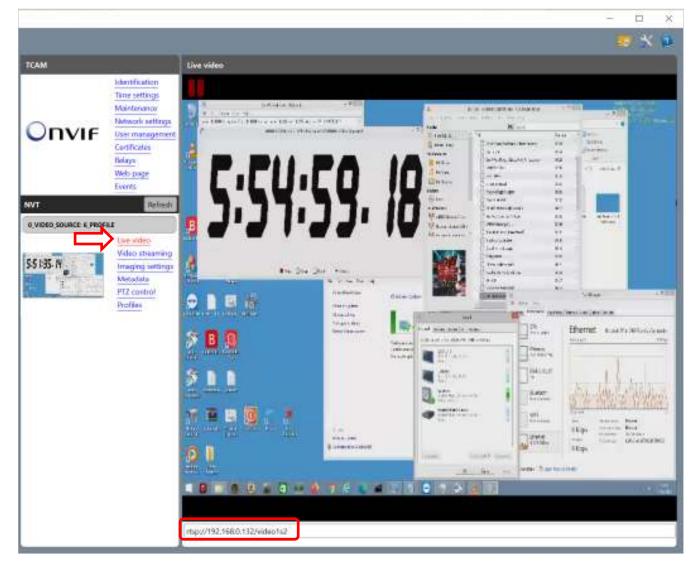
To view this stream in ODM, click "Select", as indicated in Figure 18, above. The click "Live video", as indicated in Figure 19, below. The live video can be seen and the URL for that stream is displayed at the bottom of the page, as indication. In this example it is:

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)