

ANT-37500D User guide

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Please note some of the images used in this guide show the ANT-37500D firmware as 3.5.12. The latest version (as of 7-May-24) is 3.5.14.

Any later versions can be found in the website folder <u>https://downloads.antrica.com/Decoders/ANT-37500D/Firmware/Current-Firmware/</u>

For further help and advice please contact Antrica on: Email: <u>support@antrica.com</u>

Document info

Phone: +44 1628 626098, during UK office hours, and ask for technical support

Version	date	author	Comments
0.1	24-Apr-24	David M	Initial draft
0.2	7-May-24	David M	Initial release – firmware is 3.5.14 but images have not been updated



1. Setup out of Box

The ANT-37500D decoder currently has firmware 3.5.12 or higher installed. The latest version an be found in the folder <u>https://downloads.antrica.com/Decoders/ANT-37500D/Firmware/Current-Firmware/</u>

The default network setting is DHCP.

If there is no DHCP server on the network to assign an IP address then ANT-37500D will selfassign an IP address starting 169.xxx.xxx. The "Dante Controller" application will only discover the ANT-37500D only if the ANT-37500D is one the same network as the "Dante Controller" PC. If The ANT-37500D is using its own self assigned IP address then it may not be discovered "Dante Controller".

Referring to Figure 1, connect:

- 1. the Ethernet to a network switch
- 2. the HDMI to a monitor
- 3. Finally connect power
- 4. Once fully booted the Dante AV-H[™] screen will be seen, as shown in Figure 2.

Figure 1 : ANT-37500 "back" of unit



Figure 2 : ANT-375000D with Dante AV-H[™] screen at start up





The IP address, and other information, for the ANT-37500D is displayed at the bottom of the screen for $10 \sim 15$ seconds. This information is shown in Figure 3. This information can be shown at time by pressing the "menu" button the remote control.

Figure 3 : ANT-37500 information shown in HDMI monitor

15:08:30 - spotbox 3.5.12 - 8c:1f:64:a1:bf:ff - eth0:192.168.0.201

This information is

- A. The current time within the ANT-37500D 15:08:30
- B. The version of firmware installed 3.5.12
- C. The MAC address of the ANT-37500D 8c:1f:64:a1:bf:ff
- D. The IP address currently be used by the ANT-37500D 192.168.0.201



2. Using Dante Controller

In this example version the Dante Controller used is shown in Figure 4

Figure 4 : Dante Controller version



When Dante Controller is started it will discovery and display all Dante enabled devices. An example is shown in Figure 5. The "Device Info" tab, see Figure 6, will show the model, versions and IP address.

NOTE: the last 6 digits and the devices "name" show in the "Routing" view are the last 6 digits of the MAC address. This could be used to determine the ANT-37500D by the MAC address information that is displayed on the monitor at power up.

Figure 5 : Dante Controller – "Routing" View

🧟 Dante Controller - Network View							<u>100</u>		×
File Devices View Help									
	٥	0	Pri	imary Leader Cloc	k: ANT-AV-H-a1bfff				0
Routing Device Info Clock Status Network S	tatus	Events							
Filter Transmitters	UV430E-a9c03d+	UV430E-a9cad0 🗄							
+ ANT-AV-H-808802	Ŧ	(H)							
+ ANT-AV-H-a1b076	Ŧ	Ŧ							
+ ANT-AV-H-a1bfff	+	E							
🛨 UV430E-a9c03d	+	(±							
± UV430E-a9cad0	±	Ŧ							
P: 🔜 S: 🛄			5 devices	Multicast A	udio Bandwidth: Obps	Event Log:	Clock Sta	itus Monito	or: 🔲



Figure 6 : Dante Controller - "Device Info"

T	- Network view								-
le Devices View	Help								
] 🔗 🖿 🖌		603]		Primary Leader Cloc	k: ANT-AV-H-a1bfff			
outing Device Info	Clock Status Network	Status Events							
Device Name	Model Name	Product Version	Dante Version	Device Lock	Primary Address	Primary Link Speed	Secondary Address	Seconda Link Spe	ed
ANT-AV-H-808802	ANT37500 AV-H	3.5.12	1.1.0.1		192.168.0.208	100Mbps	N/A	N/A	
NT-AV-H-a 1b076	ANT37500 AV-H	3.5.12	1.1.0.1		192.168.0.7	100Mbps	N/A	N/A	
NT-AV-H-a1bfff	ANT37500 AV-H	3.5.12	1.1.0.1		192.168.0.6	1Gbps	N/A	N/A	
N4205 -0-024	UV430E	3.0.1	1.1.0.1		192.168.0.196	1Gbps	N/A	N/A	
UV430E-a9C030		201	1101		192 168 0 195	1Ghns	N/A	N/A	

To configure the ANT-37500Dthere needs to be "transmitters" device(s) on the network and the ANT-37500 is a "Receivers" device.

In the Routing view click the "+" symbol to expand all the devices, as shown in Figure 7.

Figuro	7 ·	Danta	Controllar	_	Poutina	VIDIN	with	devices	ovnando	Ы
riyure	/ .	Dante	Controller	-	коисту	VIEW	VVILII	uevices	схрание	u





In the example in Figure 8, the video and 2 audio channels from UV430E-a9cad0 (which is a camera) will be sent to the ANT-37500D ANT-AV-H-a1bfff. To do this the click the boxes where the relevant signals cross, as shown by the green ticks. An overview is shown in Table 1.

If the ANT-37500D "HOME" webpage is accessed a preview of the video as seen by the monitor, is shown in Figure 9. If the "source" has been selected fo the ANT-37500 the HOME webpage look like that shown in Figure 12 on page 9.

Table 1 : Camera to dec	coaer connection
-------------------------	------------------

	Source	receiver
A/V	UV430E-a9cad0	ANT-AV-H-a1bfff
Video	01	01
Audio	01	01
Audio	02	02

Figure 8 : Dante Controller ANT-37500 displaying video and audio





Figure 9 : ANT-37500D HOME webpage with preview video

🖌 🎱 номе		× +					- 6	ı x
$\leftarrow \ \ \rightarrow \ \ G$	🕅 🛆 Not secu	re 192.168.0	0.14/home			∞ ☆	Ð :	
Spotbo	Х						- ê	
HOME	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGO	UT
Grid Mode								
View mode	DANTE AV-F	H RX	1					
V tag	Label	Url		Profile		Resolutic Peri	Dur Status	- 1
Default Grid Mo Default mode APPLY	de DANTE AV-H	H RX	<					
Preview			SMAL	L ~				



3. ANT-37500D Additional settings

There is no need to access the ANT-37500D web page if you are happy to use the default settings.

If you wish to change the Network settings, the display setting or update the ANT-37500D, then this is done via the webpage interface.

3.1. Access and login to webpage

From the IP address information displayed on the monitor, as shown in Figure 2 and Figure 3, use this IP address and type into in the address bar of the web browser, see Figure 10. In this example 192.168.0.222 is used.

Figure 10 : add IP address to Browser search bar

~	🗑 New Tab	× +
÷	\rightarrow C M (192.168.0.222

This shows the Login page. The password is **admin**

Figure 11 : Log into ANT-37500D's webpage

← → C	ĥ	A Not secure	192.168.0.201/	logout							
🔭 Home MAC Ver	ndo	🕂 MathEmbed	ded Bu 🔇 Ado	obe Acrobat							
Spotbo	X										
			НОМЕ	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT	
Login											
User		admin									
Password											
LOGIN											



Once logged in you will see the HOME page, as shown in Figure 12

Figure 12 : ANT-37500D HOME webpage

 ← → C ∩ △ Not secure 192.168.0.14/home Cameras VIEWS SEQUENCE DISPLAY NETWORK SYSTEM LOGOUT Grid Mode 	:
Spotbox HOME CAMERAS VIEWS SEQUENCE DISPLAY NETWORK SYSTEM LOGOUT Grid Mode	
HOME CAMERAS VIEWS SEQUENCE DISPLAY NETWORK SYSTEM LOGOUT	
Grid Mode	
View mode DANTE AV-H RX V	
V tag Label Url Profile Resolutic Peri Dur Status	
Default Grid Mode Default mode DANTE AV-H RX APPLY	
Preview MALL V CANTRICA Dante AV-H" decoder	



3.2. Network setting

Access the webpage, as shown in section "3.1 Access and login to webpage", and then click the NETWORK tab, and the network setting are shown. Change the setting as required. You may need to power cycle or reboot the ANT-37500D for the settings to take effect.

Figure 13 : Network settings

🖌 🎱 номе	×	+				-		×
\leftrightarrow \rightarrow C	A Not secure 192.	168.0.24/network			∞ ☆	Ð	1 3	:
Spotb	OX						Ő	
номе	CAMERAS VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM		LOGOUT	
Interface: eth)							
IPv4	DHCP STATIC							
Address	192.168.0.24							
Gateway	192.168.0.1							
Netmask	255.255.255.0							
DNS	192.168.0.1							
NTP	192.168.0.1							
MAC	8C:1F:64:A1:BF:FF							
APPLY								



3.3. Display

The resolution of the connected monitor can be changed from the DISPLAY webpage. When the "v" in the "Display Mode" is click a drop list of available resolution and scan / frame rate is listed. These are taken from the connected monitor.

NOTE: You can display a 4k (3840x2160) video signal when the monitor connection is 1280x720p60. The decoded video will be scaled to the monitor resolution.

Figure 14 : webpage Display

Spotbo	СХ						۲
НОМЕ	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT
Font size							
GRID 1x1	SMALL	~					
GRID 2x2	SMALL	~					
GRID 3x3	SMALL	~					
GRID 4x4	SMALL	~					
FULLSCREEN	SMALL	~					
APPLY					1024x7 1152x8	68@70 64@75	•
Display Mode					1280x1	024@75 00@60	
					1280x0	20@60	
MODE	1920x108	0@60	· • ·		1280x1	024@60	
					1280x7	20@50	
APPLI					1440x9	00@60	
					1600x9	00@60	
Audio Ouput					1680x1	050@60	_
					1920x1	080@60	
audio	HDMI		~		1920X1	080@24	
APPLY					1920x1 1920v1	080@50 080@50	
					2560x1	440@60	
RTSP SERVEP					3840x2	160@60	
NIGI SERVER					3840x2	160@24	
Enable					3840x2	160@25	
Enable					3840x2	160@50	
APPLY					3840x2	160@30	•



3.4. Reboot

From the SYSTEM webpage click the "REBOOT"

Figure 15 : webpage Reboot

✓ ♦ HOME	× 🏐 но	VE >	S 39k 0.136	× +
← → C ⋒	▲ Not secure 192.168.0.2	01/system		
凄 Home MAC Vendo	👎 MathEmbedded Bu 📀	Adobe Acrobat		
Spotbo	κ			
HOME	CAMERAS VIEWS	SEQUENCE DISPI	AY NETWORK	SYSTEM
Update password				
User	admin			
Password (repeat)				
System update				
Choose File N	o file chosen			
LOAD UPDATE				
System config				
Choose File No	o file chosen			
LOAD CONFIG	SAVE CONFIG			
Camera config				
Choose File N	o file chosen			
LOAD CAMERAS	SAVE CAMERAS			
System restart				
REBOOT FACT	ORY RESET			
НТТР				

3.5. Full Reset

From the SYSTEM webpage click the "FACTORY RESET"

Figure 16 : Webpage "Factory Reset"

✓ ♦ HOME	×	🐌 номе	× C	39k 0.136	×	+
← → C ⋒	▲ Not secure 192.1	68.0.201/system				
凄 Home MAC Vendo	🕂 MathEmbedded Bu.	. 🔇 Adobe Acrobat				
Spotbox						
НОМЕ	CAMERAS VIE	NS SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT
Update password						
User	admin					
(repeat)						
UPDATE						
System undate						
system update						
Choose File No	file chosen					
LOAD UPDATE						
System config						
Choose File No	file chosen					
LOAD CONFIG	SAVE CONFIG					
Camera config						
Choose File No	file chosen					
LOAD CAMERAS	SAVE CAMERAS					
System restart						
REBOOT FACTO	RY RESET					
НТТР						

The monitor will be then show several different images, including these shown in Figure 17 and Figure 18.

Once fully booted the monitor will show an image like that in Figure 2







Figure 18 : ANT-37500 when reset is complete





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Update firmware 3.6.

Once logged in you will see the HOME page, click on SYSTEM

Figure 19 : Home webpage

Spotbo	x									
		HOME	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT	
Grid Mode										
View mode	DANTE AV-H RX	∨ Label	Url			Р	rofile		Resolution	Period Duratic Status
Default Grid Mod Default mode APPLY	e DANTE AV-H RX	~								
Preview					SMALI	×				
۲	ANT	RI	CA							

The SYSTEM webpage will look like that shown in Figure 20. Click "Choose File"

Figure 20 : System webpage

Spotb	х									
		HOME	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT	
Update passwo	rd									
User Password (repeat) UPDATE	admin									
System update Choose File LOAD UPDATE	Ne file chosen									
System config										
Choose File	No file chosen									
Camera config										

A popup window will appear, find and click on the update file, and then click "Open"

Figure 21 : popup window file locator

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🔇 Open							×
← → • ↑	m > ANT-37500-Spo	tbox_3 > firmware_3.5.x > firmware_3.5.12_ > _3.5.12	_firmwareFiles	5 ~	Search _3.5.12_firmware	eFiles 🌙	p
Organise *	New folder				•		2
✓ 0 > 0 > 0	ANT-37500-Spotbox_3 ^ firmware_3.0.x firmware_3.1.x firmware_3.2.x	Name _other_3.5.12_updateFiles spotbox-install-3.5.12-sw.img spotbox-install-3.5.12-sw.img_INFO.bxt	Size 227,323 KB 1 KB	Type File folder Disc Image F Text Docume	Date modified 15/04/2024 15:13 15/04/2024 15:12 15/04/2024 15:41		
>	firmware_3.5.x firmware_3.5.z firmware_3.5.2_ firmware_3.5.4_ firmware_3.5.5_ firmware_3.5.6_ firmware_3.5.7_ firmware_3.5.8_ firmware_3.5.9_DO_NOT_USE firmware_3.5.10_ firmware_3.5.11_ firmware_3.5.12_ firmwareFiles						
	File name: spotbox-install-3.5.12	-sw.img			All Files (*.*) Open	~ Cancel	

The "Choose File" will now have the update file shown, click "LOAD UPDATE"

Figure 22 : webpage system – load update

Spotbo	ХХ								
	1	HOME	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT
Update passwor	d								
User	admin								
(repeat)									
UPDATE									
System update		a the lot with the							
LOAD UPDATE	spotbox-install-3.5.1	2-sw.img							
System config									
Choose File	No file chosen								
LOAD CONFIG	SAVE CONFIG								
Camera config									

A pop-up window will appear, click "OK"

Figure 23 : pop up update firmware - OK

← → C Home MAC Ver	ndo 👎 MathEm	ure 192.168.0.201 nbedded Bu 🔇 A	l/system dobe Acrobat	192.168.0.20	1 says				
Spotbo	х			Update firmwa	e?		Сапсе		
		НОМЕ	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT
Update passwor	d								
User	admin								
Password									
(repeat)									
UPDATE									
System update									
Choose File	enothou install	0 E 10 ou ima							

The webpage will show a moving circle in the middle

Figure 24 : ANT-37500 webpage while update in in progress

Spotbox										
		НОМЕ	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT	
Update password										
User Password (repeat) UPDATE						>				
System update Choose File spo LOAD UPDATE										
System config Choose File No LOAD CONFIG S	file chosen SAVE CONFIG									



The HDMI monitor will show an image as shown in Figure 25 Figure 25 : Monitor output while update in progress



A popup windows will appear saying the system will reboot, click "OK"

Figure 26 : popup message for reboot during update

\leftrightarrow \rightarrow C \textcircled{a}	A Not secure	192.168.0.201	/system							◎ ☆ Ď
🔚 Home MAC Vendo.	👎 MathEmbedd	ed Bu 🔇 A	dobe Acrobat	192.168.0.20	1 says					
Spotbox	(System will reb	oot for firmware up	date	ОК			
		HOME	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT	
Update password										
UPDATE					C)				
System update										



Once fully booted, the Monitor will show the new firmware version at the bottom *Figure 27 : Monitor output after update and reboot*



A larger image of the bottom of the monitor screen showing the firmware version. *Figure 28 : information shown at bottom of monitor*

15:08:30 - spotbox 3.5.12 - 8c:1f:64:a1:bf:ff - eth0:192.168.0.222

When the webpage returns, scroll to the bottom of SYSTEM, the version will Spotbox 3.5.12 *Figure 29 : system webpage showing installed firmware version*

← → C G	lo 🕂 MathEmb	e 192.168.0.201/ edded Bu 🔇 Ad	system obe Acrobat						
Spotbo	x								
		НОМЕ	CAMERAS	VIEWS	SEQUENCE	DISPLAY	NETWORK	SYSTEM	LOGOUT
System restart									
REBOOT FAC	TORY RESET								
нттр									
Enable https	-								
SSL									
SSL KEY	Choose File	No file chosen							
SSL CERT	Choose File	No file chosen							
LOAD SSL RE	SET SSL								
System version									
spotbox 3.5.12 - s	potbox ANT37500) - Fri 12 Apr 18:04	:11 BST 2024 - W	ed Apr 17 15:	08:39 2024 -				



The last date and time will be the date and time within the ANT-37500D. This version is 3.5.12 *Figure 30 : version info from bottom of system webpage*

spotbox 3.5.12 - spotbox ANT37500 - Fri 12 Apr 18:04:11 BST 2024 - Wed Apr 17 15:08:39 2024 -