

ANT-1770H Quick setup guide

Contents

ANT-1770H Quick setup guide	1
Document info.....	1
1. ANT-1770H.....	2
2. Webpage access.....	3
3. Video Input source.....	4
4. Audio Input Source.....	5
5. Streaming setup.....	5
5.1. RTSP streaming.....	5
5.1.1. RTSP Access URLs	8
6. View video.....	9
6.1. VLC	9
6.2. ONVIF – using ONVIF device manager.....	9

This guide contains the basic setup required to get the ANT-1770H streaming. Not all settings will be explained in this guide.

The ANT-1770H is HD P60 H.265 (HEVC) / H.264 (MPEG-4 AVC) encoder with 2 independently configurable streams. For the complete specification please see <https://www.antrica.com/product/ant-1770h-low-cost-mini-hdmi-encoder/>

Please note all setup is done from the reset / default condition.

For further help and advice please contact Antrica on:
 Email: support@antrica.com
 Phone: +44 1628 626098, during UK office hours, and ask for technical support

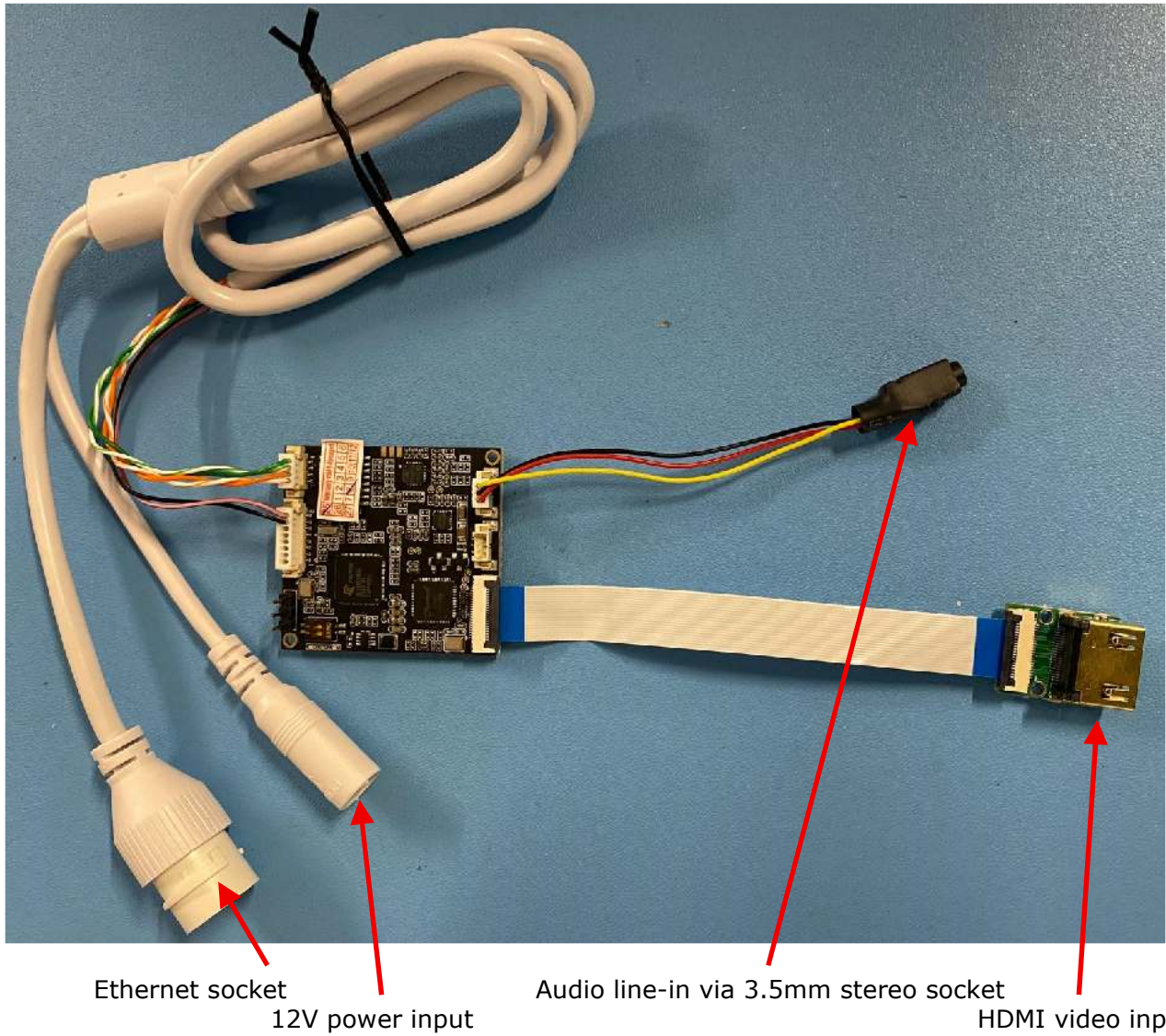
Document info

Version	date	author	Comments
0.1	14-Nov-25	David M	Initial draft

1. ANT-1770H

Shown in Figure 1 are main connections of the ANT-1770H with the supplied cables.

Figure 1 : ANT-1770H board

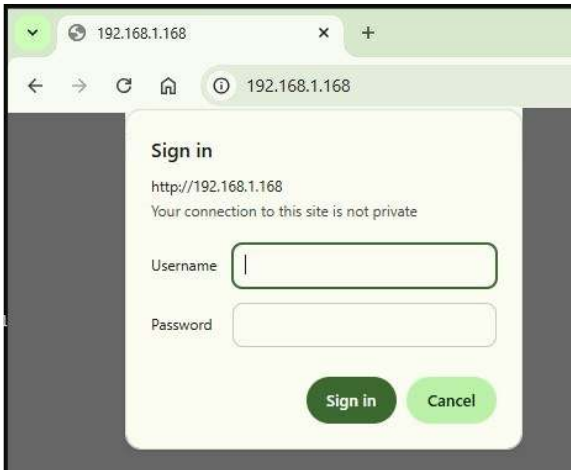


2. Webpage access

To access the ANT-1770H's web page the IP address in the browser address bar (192.168.1.168 is the default value). A pop-up will appear, Figure 2, the default

username is admin
and the
password is 1234.

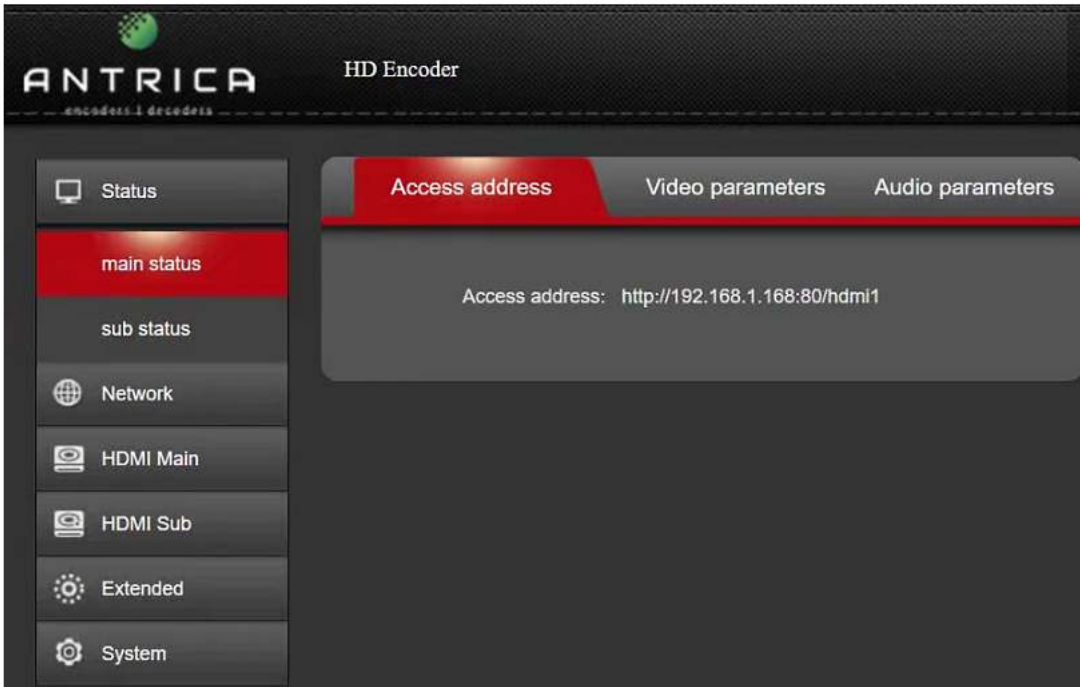
Figure 2 : webpage login screen



As shown in Figure 3, the default URL for the main channel is

http://192.168.1.168:80/hdmi1

Figure 3 : "home" webpage



3. Video Input source

The input is auto detecting. The currently detected input is displayed in the "Video Parameter" tab. There is currently an issue and so when there no input or a 1920x1080 signal is present the same message is shown, this is seen in Figure 4. If the input is a different resolution, then this is reported, as shown in Figure 5 when there is a 1280x720p60 signal. When no video is detected, a blue video will streamed, as shown in Figure 6.

Figure 4 : no input or 1920x1080 detected



Figure 5 : 1280x720p60 detected

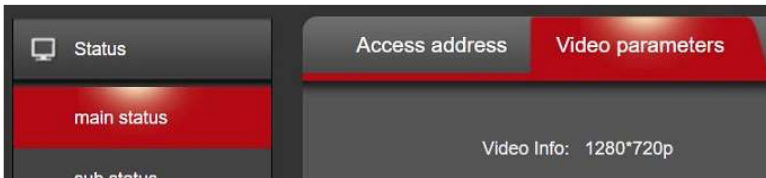


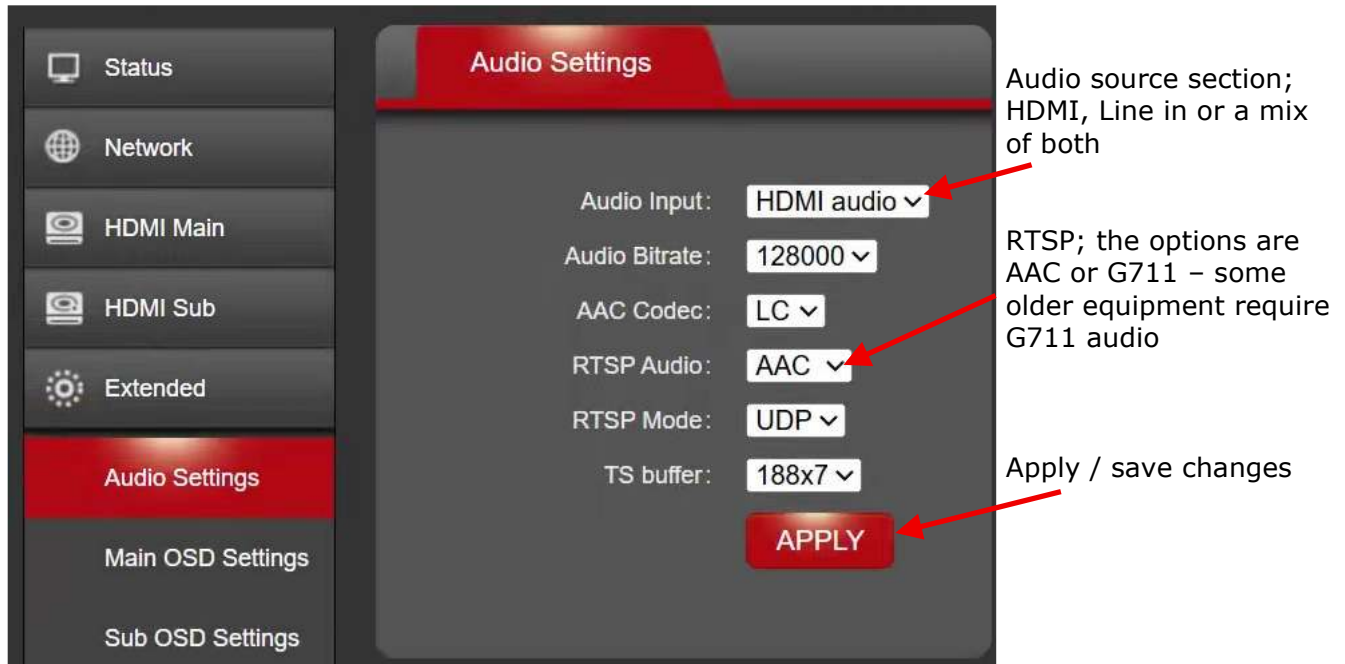
Figure 6 : Streamed video when there is no valid HDMI signal detected



4. Audio Input Source

By default, the Audio is from the HDMI and is AAC, as shown in Figure 7.

Figure 7 : Audio settings



5. Streaming setup

5.1. RTSP streaming

The most popular streaming mode is RTSP.

1. To enable this streaming mode on both the primary (HDMI Main) and secondary (HDMI 2nd) channels,
 - 1.1. for the primary channel go to "HDMI Main", as shown in Figure 8.
 - 1.2. for the secondary channel go to "HDMI Sub", as shown in Figure 9.
2. For most application only the RTSP streaming option needs to be enabled.

NOTES:

Only 1 streaming mode can be selected for each channel. However, each can be configured independently so each channel can have different streaming mode setup.

When used with ONVIF, RTSP streaming is required.

Some ONVIF decoding equipment require H.264 video.

Figure 8 : HDMI Main – encoding settings

Main Stream Settings

Encoding Type: **H264** ↓ Codec – H.264 or H.265

Chan Name: encode-1

Bitrate control: cbr

Key interval: 30 [30-180,multiple of 30]

Encoded siz: **1920x1080** ↓ Encoding resolution

Bitrate(K): **3200** ↓ Encoding bitrate [160-12000]

H.264 Profile: main-profile

Encoding frame rate: **60** ↓ Encoding frame rate [5-60]

TS Null Packet: OFF

PMT ID: 260 [1-65535]

Transport ID: 264 [1-3840]

Stream ID: 280 [1-3840]

Program ID: 1

SDT name: Service 1

HTTP: /hdmi1 **ON** ↓ Format such as:/sdi(Start with "r")

RTSP: /hdmi1 **OFF** ↓ RTSP mode
Format such as:/sdi(Start with "r")

RTSP Authentication: OFF

RTSP Mode: video+audio

Unicast IP: **200.0.0.1** **OFF** ↓ MPEG-TS unicast

Unicast Port: 1234 [1-65535]

Multicast IP: **238.0.0.1** **OFF** ↓ MPEG-TS multicast

Multicast Port: 1234 [1-65535]

RTP Server: **192.168.1.123** **OFF** ↓ RTP mode

RTP Port: 6666 [1-65535]

RTMP: OFF

RTMP Mode: video+audio

RTMP URL: rtmp://

SRT: Listener **OFF**

Encrypto: OFF

Listen Port: 9000

latency: 0 [unit:ms]

APPLY ↓ Apply / save changes

Figure 9 : HDMI sub – encoding settings

Sub Stream Settings

Encoding Type: **H264** ← Codec – H.264 or H.265

Chan Name: **encode-2**

Bitrate control: **cbr**

Key interval: **30** [30-180, Multiple of 30] ← Encoding resolution

Encoded siz: **1280x720** ← Encoding bitrate

Bitrate(K): **3200** [160-12000] ← Encoding frame rate

H.264 Profile: **main-profile**

Encoding frame rate: **60** [5-60]

TS Null Packet: **OFF**

PMT ID: **262** [1-65535]

Transport ID: **266** [1-3840]

Stream ID: **282** [1-3840]

Program ID: **2**

SDT name: **Service 2**

HTTP: **/hdmi2** **ON** Format such as /sdi(Start with "/) ← RTSP mode

RTSP: **/hdmi2** **OFF** Format such as /sdi(Start with "/)

RTSP Authentication: **OFF**

RTSP Mode: **video+audio** ← MPEG-TS unicast

Unicast IP: **200.0.0.1** **OFF**

Unicast Port: **1235** [1-65535] ← MPEG-TS multicast

Multicast IP: **238.0.0.1** **OFF**

Multicast Port: **1235** [1-65535]

RTP Server: **192.168.1.123** **OFF** ← RTP mode

RTP Port: **6676** [1-65535]

RTMP: **OFF**

RTMP Mode: **video+audio**

RTMP URL: **rtmp://**

SRT: **Listener** **OFF**

Encrypto: **OFF**

Listen Port: **9010**

latency: **0** [units]

APPLY ← Apply / save changes

5.1.1. RTSP Access URLs

Once enabled, the 2 RTSP URLs can be seen in the webpage, see Figure 10 and Figure 11. These URLs are :

`rtsp://192.168.1.168:554/hdmi1`

and

`rtsp://192.168.1.168:554/hdmi2`

Figure 10 : Primary RTSP URL

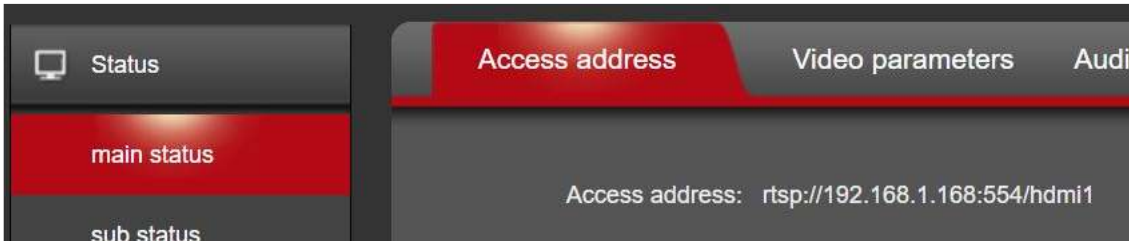
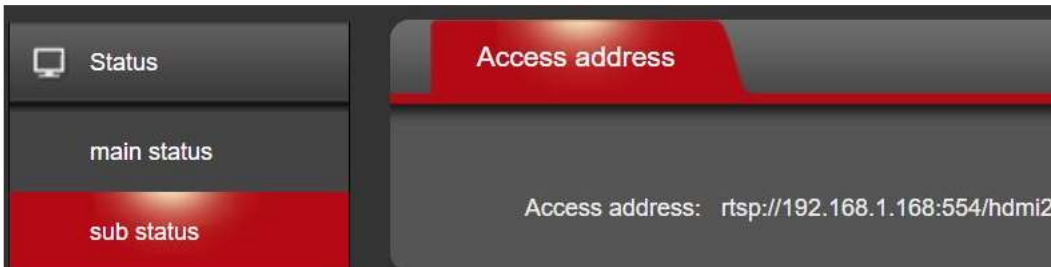


Figure 11 : Secondary RTSP URL



6. View video

6.1. VLC

The video can be viewed using VLC, open the “network Stream” and add the URL, as shown in Figure 12 and Figure 13.

Figure 12 : VLC – open Network Stream

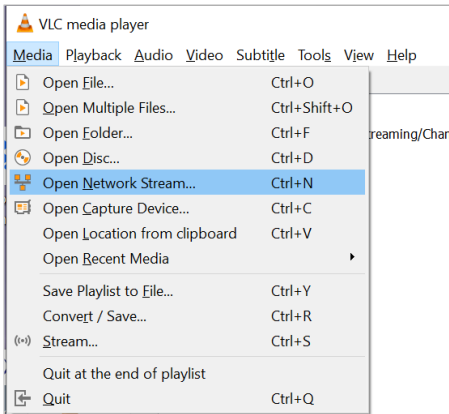
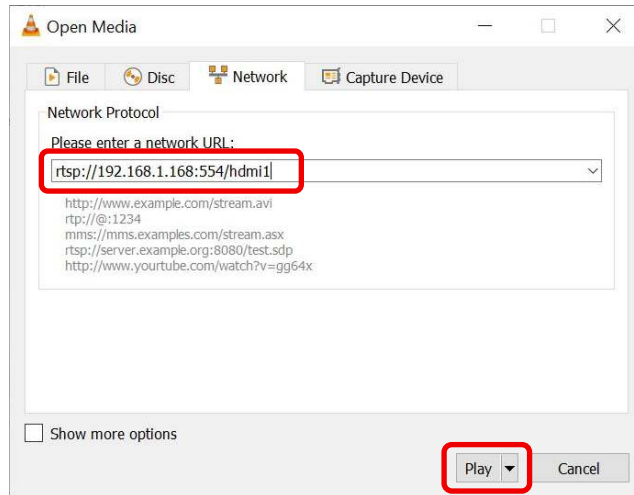


Figure 13 : VLC – add URL



Additional information about VLC can be found in the guide “HowTo_UseVLCtoViewVideoAndGetStreamDetails.pdf”

6.2. ONVIF

The ONVIF port for the ANT-1770H is 7070, compared to the “normal” ONVIF port value of 80. To access the ONVIF profiles / service the access URL could be of the format:

IP address 192.168.1.168 port 7070

ONVIF://192.168.1.168:7070

http://192.168.1.168:7070/onvif/device_service

For a further explain on using ONVIF profiles with ONVIF Device Manager – sometimes abbreviated to ODM, please see “HowTo_ConfirmONVIFprofileIsPresent.pdf”