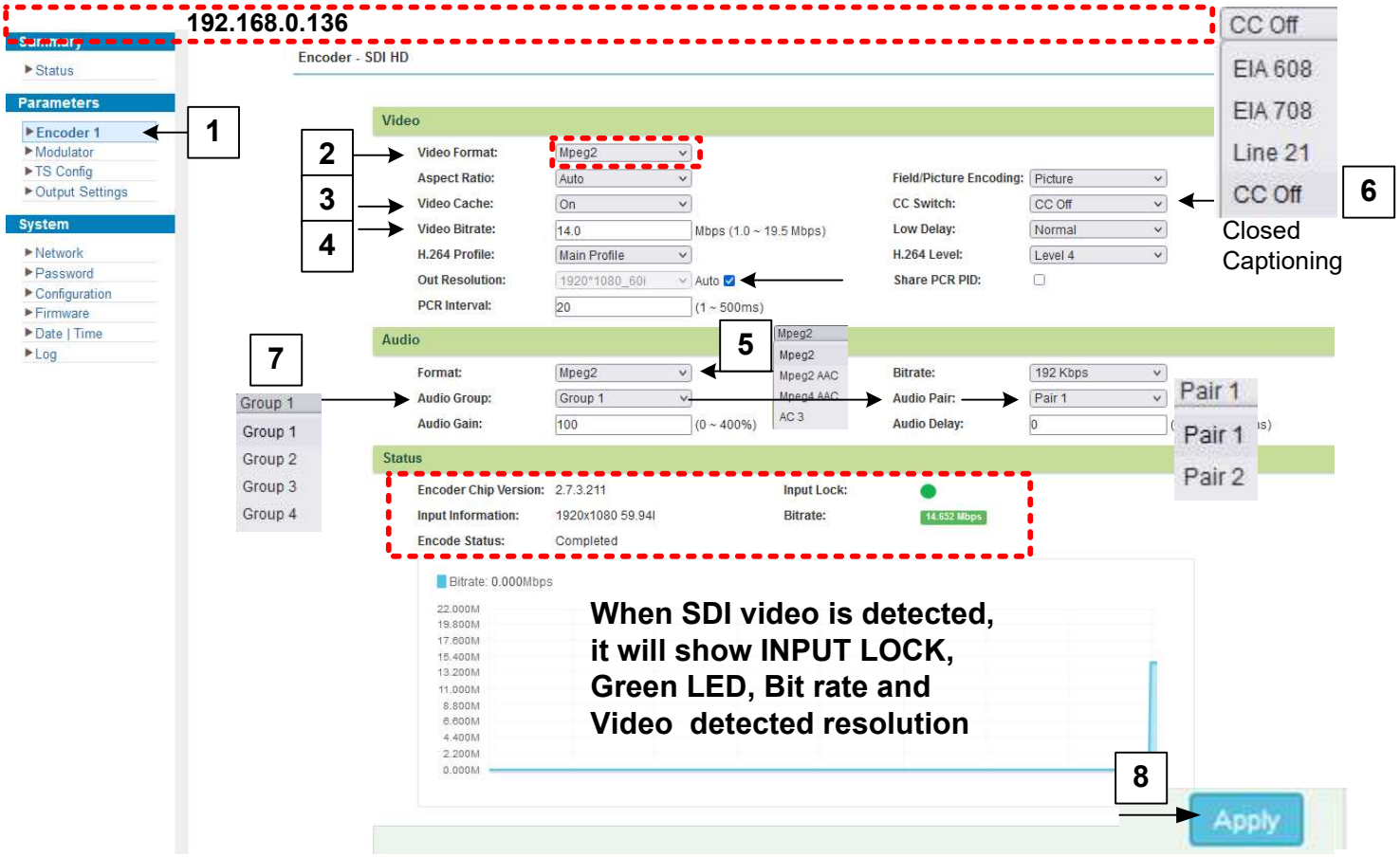
Quick configuration Guide for H-4ADHD-QAM-IPLL

Login instructions:

In order to log in to the Modulator NMS port, please set your PC's NIC Ethernet card to the following IP address: 192.168.0.100.

Access Modulator GUI by typing derail IP address 192.168.0.136 in to the browser
Login /password – admin/admin



1 Select ENCODER1 (H-4ADHD unit has also ENCODER2 for CH # 2)
2 Video encoding MPEG2 or H.264 (MPEG2 is a US, Canada, Mexico standard)
3 Video Cache - is a Video buffer ON/OFF, The default is OFF, it need to be set ON if SDI input resolution is fluctuation
4 Video Encoding bitrates up to 18Mbps
5 Audio encoding format AC3,AC3 Pass,AAC,MPEG2 (The AC3 is a US, Canada, Mexico standard)
6 Closes captioning Setting, (if CC is enabled, the Video Cache need to be OFF)
7 The Unit support 2 Audios, The Audio tracks can be selected from SDI group 1-4 each pair 1 or 2
6 Once configured click apply

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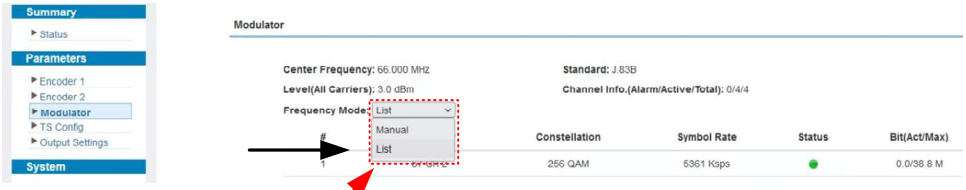
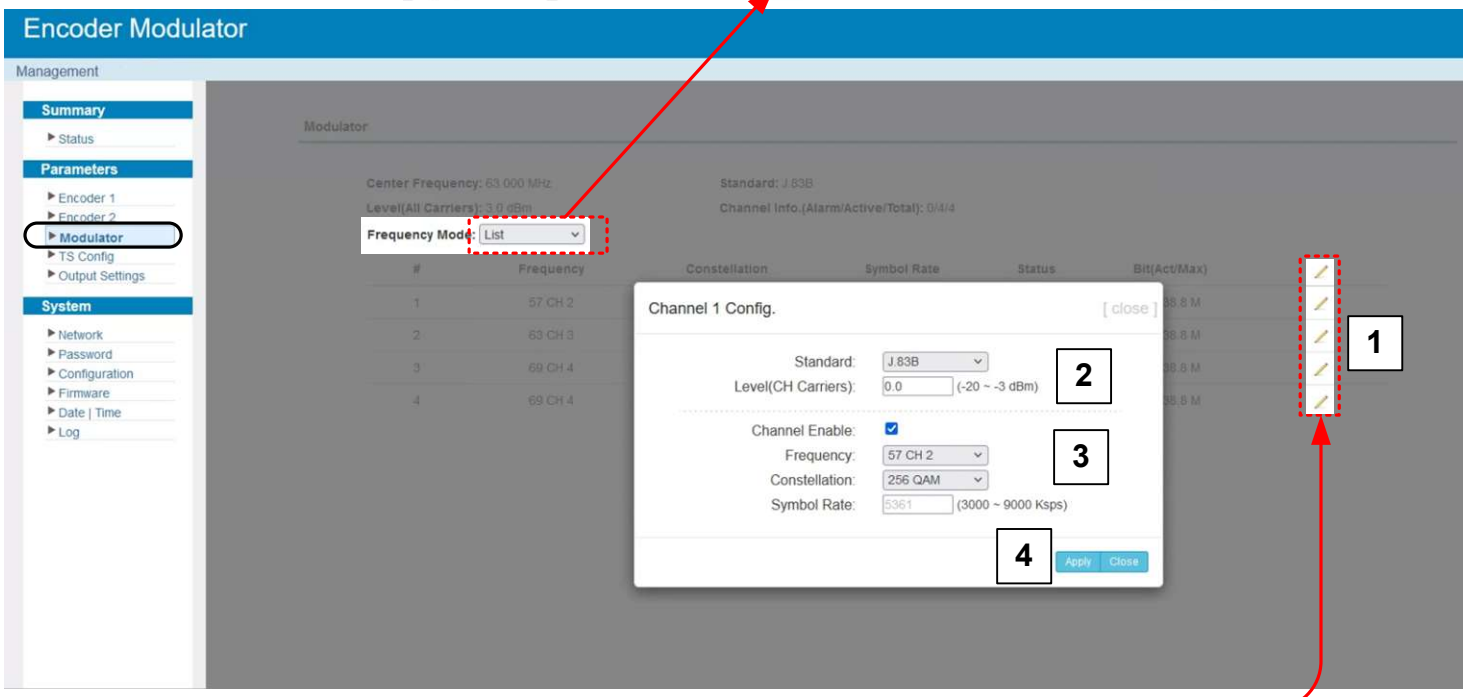
Modulator Setup

The modulator setup allows you to set the CATV channel constellation and control the RF power.

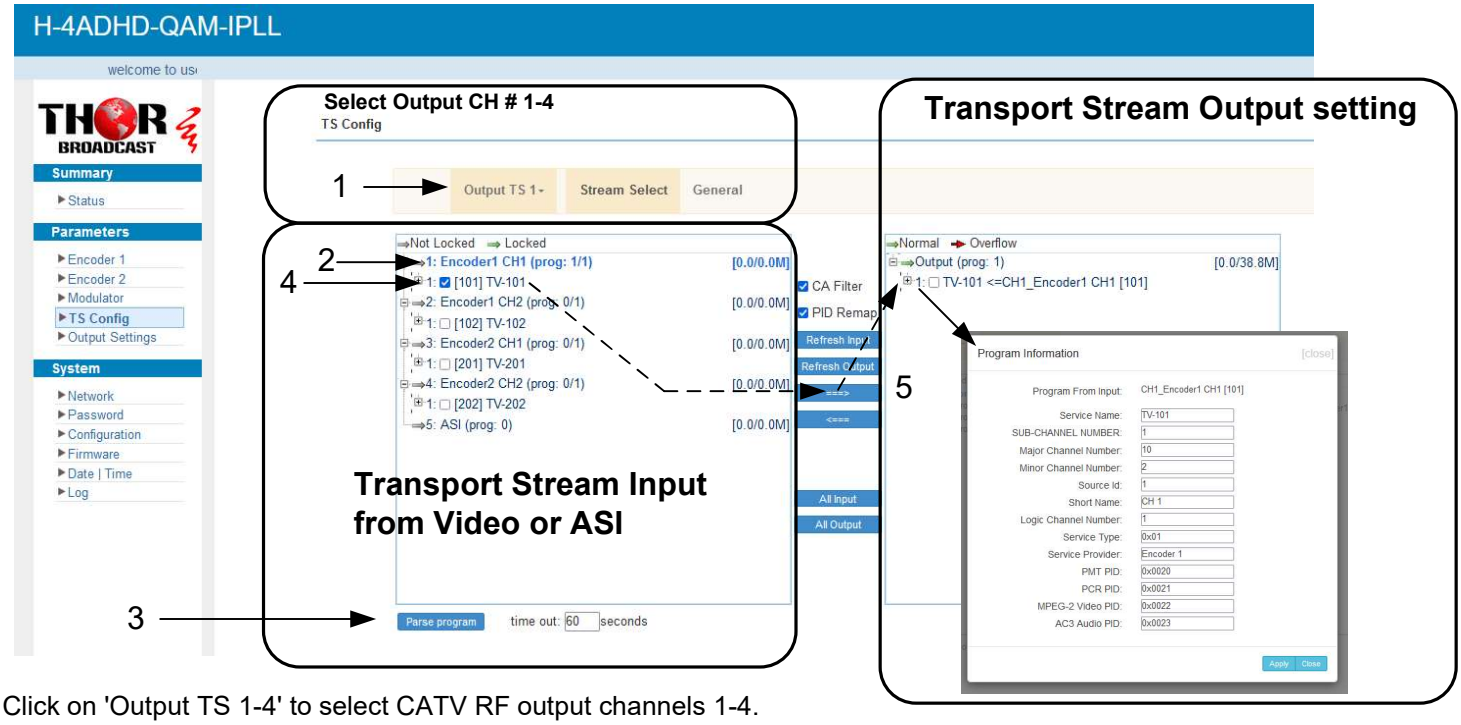
H-4ADHD-QAM-IPLL – DVB-C annex A/B QAM 64 /QAM 256
H-4ADHD-ATSC-IPLL – ATSC modulation
H-4ADHD-ISDBT-IPLL – ISDB-T modulation
H-4ADHD-DVBT-IPLL – DVB-T modulation





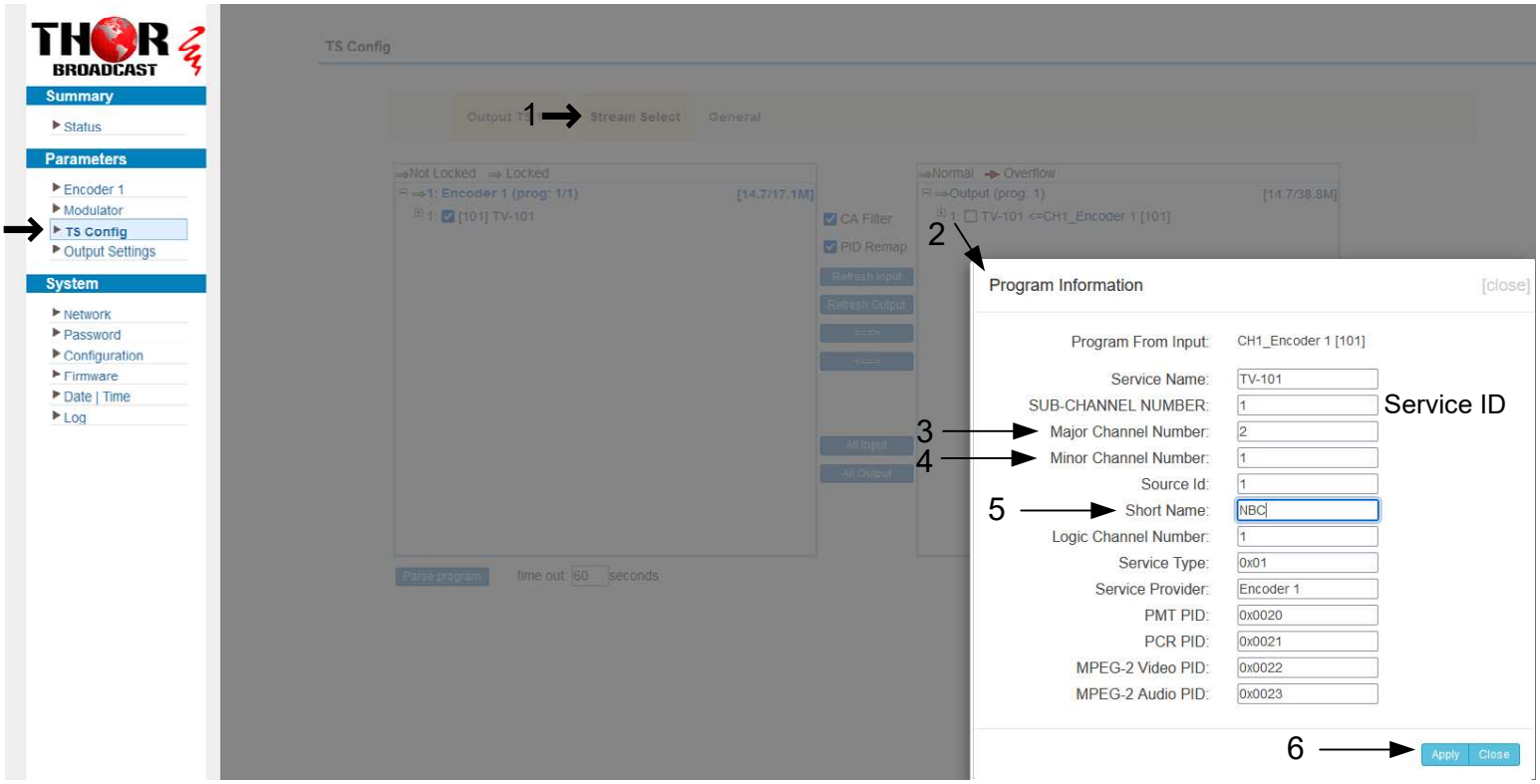
1. Press the pencil icon to bring up edit window
2. Standard should be J.83B (US Standard) J.83A(Europe Standard) H-1/2HDMI-ATSC-IPLL has ATSC modulation frequency table listed
3. Frequency should be 57 for CH 2
4. Press apply

TS Config (Encoded Transport Stream from the Video Audio Input selection for the CATV RF/ASI/IP Output)

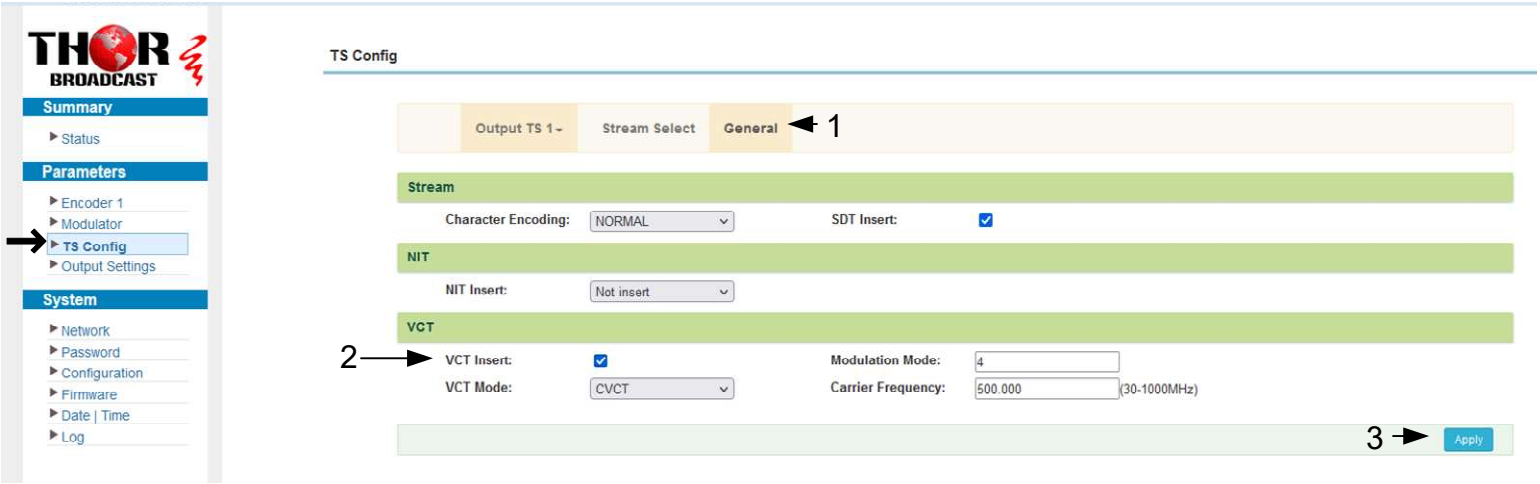


1. Click on 'Output TS 1-4' to select CATV RF output channels 1-4.
2. Highlight 'Encoder CH 1'.
3. Parse the program (scanning function) and click the plus sign to expand encoder channel options.
4. Check the box next to the desired source.
5. Press the '==>' button to move the encoded video to the output channel. Multiple videos can be multiplexed on a single RF channel, up to a total bit rate of 38Mbps, as sub-channels like 2.1, 2.3, 2.4, etc."

TS Config **Virtual Channel Tables Set Up**



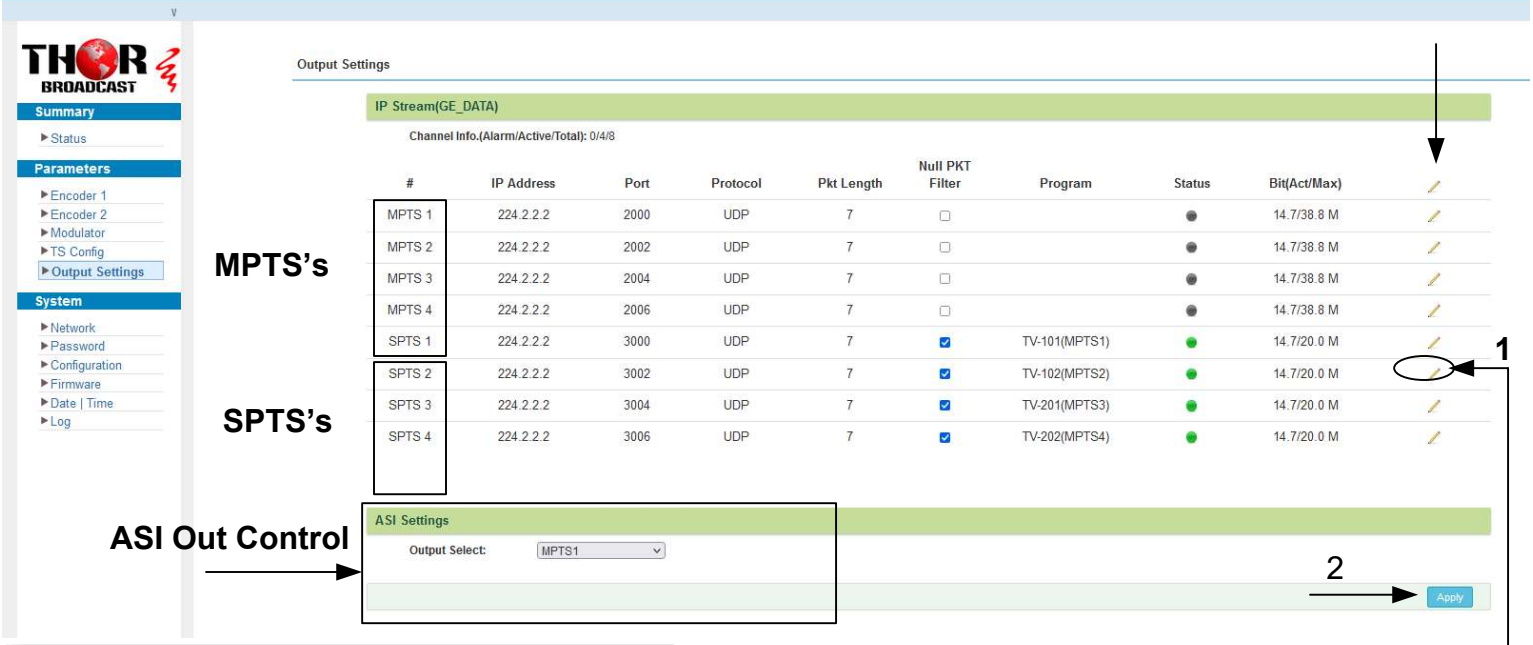
1. Click Steam Select tab to go back to the previous screen
2. Click the number “1” - Drop box will open – program information
3. Set major channel number to your preference
4. Set minor channel number to your preference
5 Set Short Name (will display on the TV)
6. Click apply

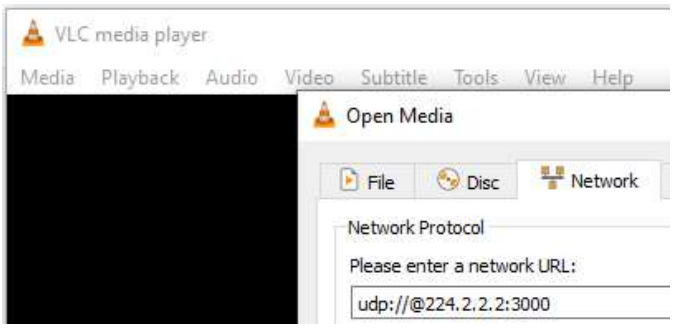


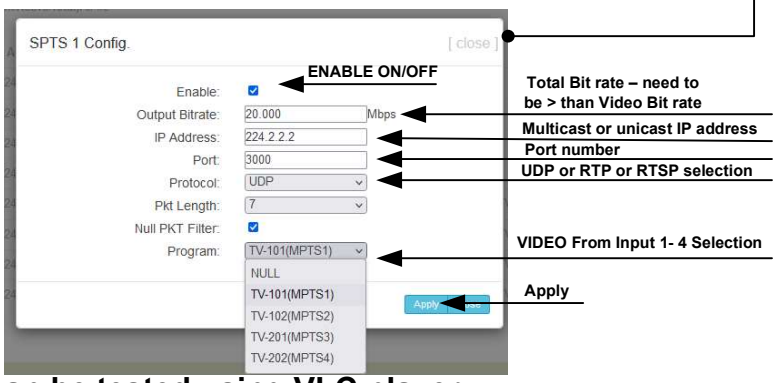
1. Click the general tab
2. Check the VCT insert check box
3. Press apply

If VCT Insert is not apply the TV will scan and show physical channel number as a Major channel and Service ID (Sub-Channel number) as Minor, for example 2.1

IP Output Settings





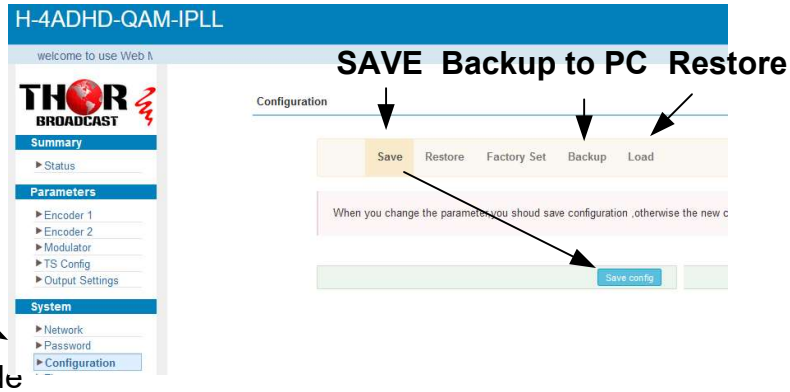


IPTV streaming is sent out from the data port and can be tested using VLC player.

UDP syntax example is udp://@224.2.2.2:3000
RTP syntax example is rtp://@224.2.2.2:3000
RTSP syntax example is rtsp://(DATA IP ADRESS):5000/1-4

1. Click the pencil icon for MPTS's or SPTS's section. Drop box will open to configure channel 1
2. Enable and edit your IP preferences
3. Press apply

Configuration Saving / Backup / Restore



1. Click the configuration tab on the left hand side
2. Click the save tab
3. Press save config –

<u>YOU MUST SAVE OR ALL CHANGES WILL BE LOST AFTER RESTART!</u>

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