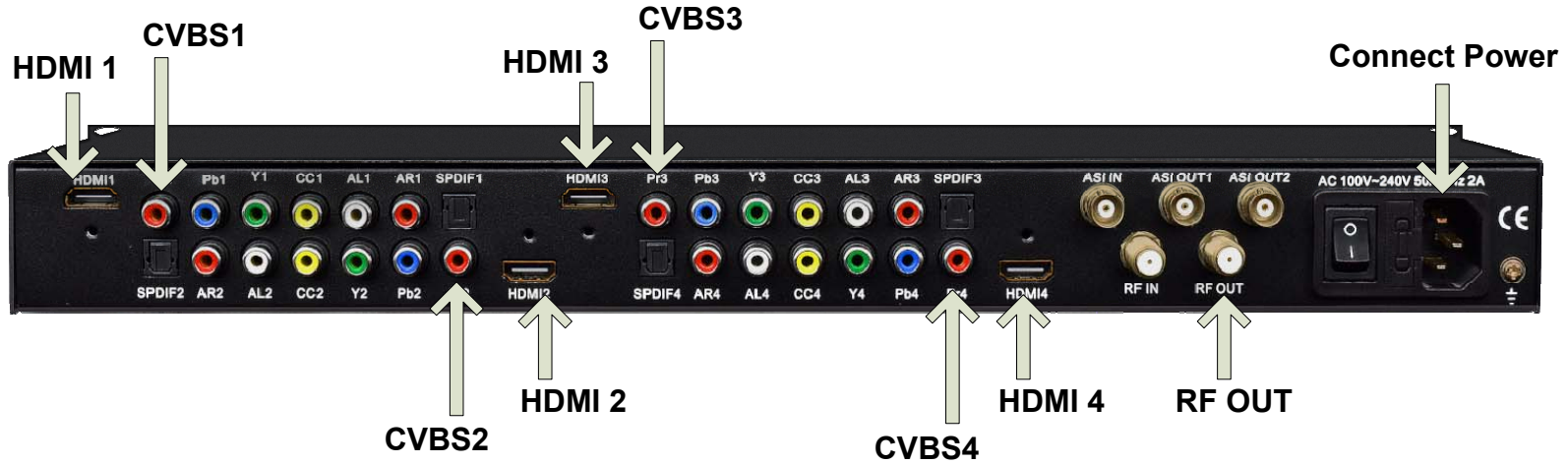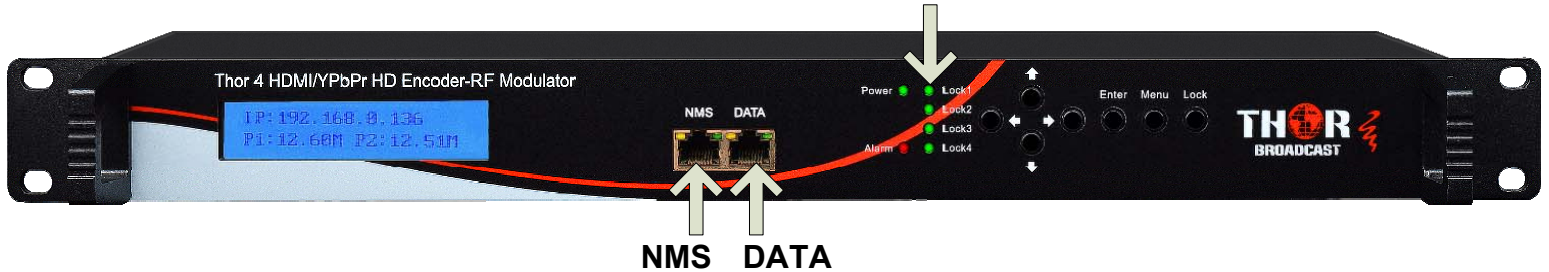## H-4ADHD-QAM-IP-LL   Quick Setup Guide

Step 1: Connections

Lock lights indicate the inputs are properly connected

NMS   DATA

- **Connect the NMS port to your PC using an ethernet cable**
- **Open web browser and go to http://192.168.0.136**
- **Login/Password: admin/admin**

Step 2: Encoders

1). Select "Encoder 1" from the main menu

2). Select Channel

3). Select Input

Recommended Settings:

4). Click "Apply"

Repeat these steps as neccesary for CH1/CH2 and "Encoder 2"

Step 3: Modulator Settings

Parameters
- ▶ Encoder 1
- ▶ Encoder 2
- ▶ **Modulator** ← Select "Modulator" from the main menu
- ▶ TS Config
- ▶ Output Settings

IMPORTANT:

Encoder 1/CH1 = #1

Encoder 1/CH2 = #2

Encoder 2/CH1 = #3

Encoder 2/CH2 = #4

Select top pencil icon to edit all

#	Frequency	Constellation	Symbol Rate	Status	Bit(Act/Max)	✎
1	57 CH 2	256 QAM	5361 Ksps	🟢	18.7/38.8 M	✎
2	63 CH 3	256 QAM	5361 Ksps	🟢	18.7/38.8 M	✎
3	69 CH 4	256 QAM	5361 Ksps	🟢	18.8/38.8 M	✎
4	79 CH 5	256 QAM	5361 Ksps	🟢	18.7/38.8 M	✎

Default frequencies for viewing on TV channels 2, 3, 4 & 5

Status lights must be green

Select pencil icon on the same line to edit individually

OPTIONAL: Select "Manual" to enter custom frequencies

Frequency Mode: Manual

#	Frequency
1	57.000 MHz
2	63.000 MHz
3	69.000 MHz
4	79.000 MHz

Standard: J.83B

Level(CH Carriers): -9.0   (-20 ~ -3 dBm)

Channel Enable: ☑ ← **Check box to Enable Channel**

Start Frequency: 57 CH 2

Frequency Step: 6.000 MHz

Constellation: 256 QAM

Symbol Rate: 5361   (3000 ~ 9000 Ksps)

Click "Apply" → Apply   Close

Step 4: IP Streaming

Parameters
- ▶ Encoder 1
- ▶ Encoder 2
- ▶ Modulator
- ▶ TS Config
- ▶ **Output Settings**

Select "Output Settings" from the main menu

IMPORTANT:
TO ACCESS STREAMS, CONNECT DEVICES TO THE DATA PORT USING AN ETHERNET CABLE

Select top pencil icon to edit all

#	IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Program	Status	Bit(Act/Max)	✏
MPTS 1	224.2.2.2	2001	UDP	7	☐		●	18.8/38.8 M	✏
MPTS 2	224.2.2.2	2002	UDP	7	☐		●	18.8/38.8 M	✏
MPTS 3	224.2.2.2	2003	UDP	7	☐		●	18.7/38.8 M	✏
MPTS 4	224.2.2.2	2004	UDP	7	☐		●	18.7/38.8 M	✏
SPTS 1	224.2.2.2	2005	UDP	7	☐	TV-101(MPTS1)	🟢	18.8/20.0 M	✏
SPTS 2	224.2.2.2	2006	UDP	7	☐	TV-102(MPTS2)	🟢	18.8/20.0 M	✏
SPTS 3	224.2.2.2	2007	UDP	7	☐	TV-201(MPTS3)	🟢	18.8/20.0 M	✏
SPTS 4	224.2.2.2	2008	UDP	7	☐	TV-202(MPTS4)	🟢	18.7/20.0 M	✏

Status lights must be green

Select pencil icon on the same line to edit individually

Check box to Enable Channel

Enable:	☑
Output Bitrate:	20.000 Mbps
IP Address:	224.2.2.2
Port:	2005
Protocol:	UDP
Pkt Length:	7
Null PKT Filter:	☐
Program:	TV-101(MPTS1)

Select Channel to output

Connect to the stream using the appropriate IP and Port Number

Example:
udp://@224.2.2.2:2005
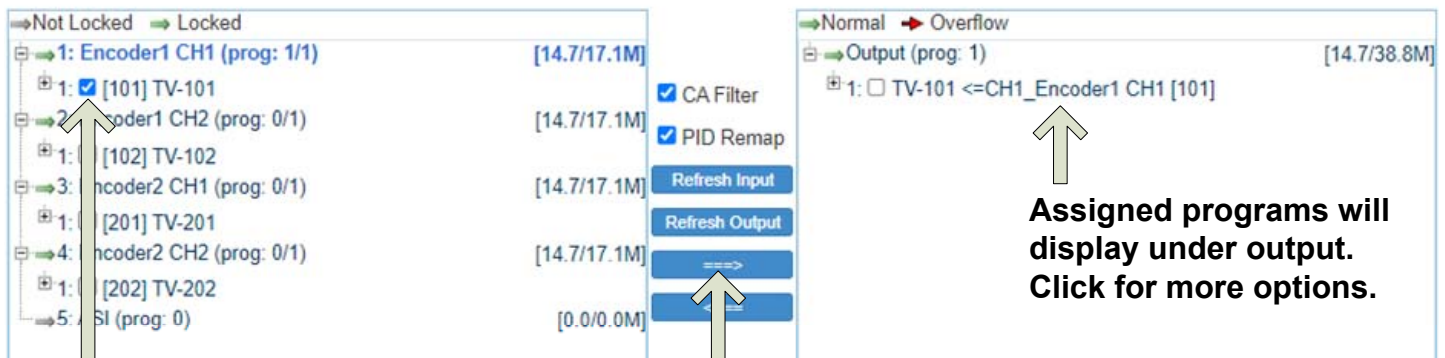
Step 5: TS CONFIG

Parameters
- ▶ Encoder 1
- ▶ Encoder 2
- ▶ Modulator
- ▶ TS Config
- ▶ Output Settings

Select "TS Config" from the main menu

IMPORTANT:
Output TS 1 = Encoder 1/CH1 = TV-101
Output TS 2 = Encoder 1/CH2 = TV-102
Output TS 3 = Encoder 2/CH1 = TV-201
Output TS 4 = Encoder 2/CH2 = TV-202

Select Output TS (1-4)

| Output TS 1 ▾ | Stream Select | General |

➡Not Locked ➡ Locked
- ⊟ ➡1: Encoder1 CH1 (prog: 1/1)   [14.7/17.1M]
  - ⊞ 1: ☑ [101] TV-101
- ⊟ ➡2: Encoder1 CH2 (prog: 0/1)   [14.7/17.1M]
  - ⊞ 1: ☐ [102] TV-102
- ⊟ ➡3: Encoder2 CH1 (prog: 0/1)   [14.7/17.1M]
  - ⊞ 1: ☐ [201] TV-201
- ⊟ ➡4: Encoder2 CH2 (prog: 0/1)   [14.7/17.1M]
  - ⊞ 1: ☐ [202] TV-202
- ➡5: SI (prog: 0)   [0.0/0.0M]

☑ CA Filter
☑ PID Remap
Refresh Input
Refresh Output
===>

➡Normal ➡ Overflow
- ⊟ ➡Output (prog: 1)   [14.7/38.8M]
  - ⊞ 1: ☐ TV-101 <=CH1_Encoder1 CH1 [101]

Assigned programs will display under output. Click for more options.

Check the box selecting the source program

Press "➡" Button to assign the selected program to output

Program Information   [close]

Program From Input:	CH1_Encoder1 CH1 [101]
Service Name:	TV-101
SUB-CHANNEL NUMBER:	1001
Major Channel Number:	1
Minor Channel Number:	1
Source Id:	1
Short Name:	prog1
Logic Channel Number:	1
Service Type:	0x01
Service Provider:	Encoder 1
PMT PID:	0x0020
PCR PID:	0x0021
MPEG-2 Video PID:	0x0022
MPEG-1 Audio PID:	0x0023

Apply **Close**

Major/Minor Channel numbers may be changed to preference

Click "Apply"

IMPORTANT:

YOU MUST SAVE CONFIGURATION OR CHANGES WILL BE LOST AFTER RESTARTING THE UNIT

System

▶ Network
▶ Password
▶ **Configuration**   ⬅ **Select "Configuration" from the main menu**
▶ Firmware
▶ Date | Time
▶ Log

Save	Restore	Factory Set	Backup	Load

When you change the parameter,you shoud save configuration ,otherwise the new configuration will lost after reboot.

Click "Save config" ➡ Save config

saving configuration,please wait...   ⬅ **Confirmation message will appear briefly until saving is complete.**

H-4ADHD-QAM-IP-LL   Quick Setup Guide

THOR BROADCAST   https://thorbroadcast.com   800-521-8467   sales@thorfiber.com

CATV QAM Channel Center Frequency – 54 MHz to 860 MHz (J.83B)

QAM 256 / Symbol Rate 5.361Msps , QAM 64 / Symbol Rate 5.057Msps

EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency	EIA CH.	MHz Center Frequency
2	57	42	333	87	603
3	63	43	339	88	609
4	69	44	345	89	615
5	79	45	351	90	621
6	85	46	357	91	627
95	93	47	363	92	633
96	99	48	369	93	639
97	105	49	375	94	645
98	111	50	381	100	651
99	117	51	387	101	657
14	123	52	393	102	663
15	129	53	399	103	669
16	135	54	405	104	675
17	141	55	411	105	681
18	147	56	417	106	687
19	153	57	423	107	693
20	159	58	429	108	699
21	165	59	435	109	705
22	171	60	441	110	711
7	177	61	447	111	717
8	183	62	453	112	723
9	189	63	459	113	729
10	195	64	465	114	735
11	201	65	471	115	741
12	207	66	477	116	747
13	213	67	483	117	753
23	219	68	489	118	759
24	225	69	495	119	765
25	231	70	501	120	771
26	237	71	507	121	777
27	243	72	513	122	783
28	249	73	519	123	789
29	255	74	525	124	795
30	261	75	531	125	801
31	267	76	537	126	807
32	273	77	543	127	813
33	279	78	549	128	819
34	285	79	555	129	825
35	291	80	561	130	831
36	297	81	567	131	837
37	303	82	573	132	843
38	309	83	579	133	849
39	315	84	585	134	855
40	321	85	591	135	861
41	327	86	597		