

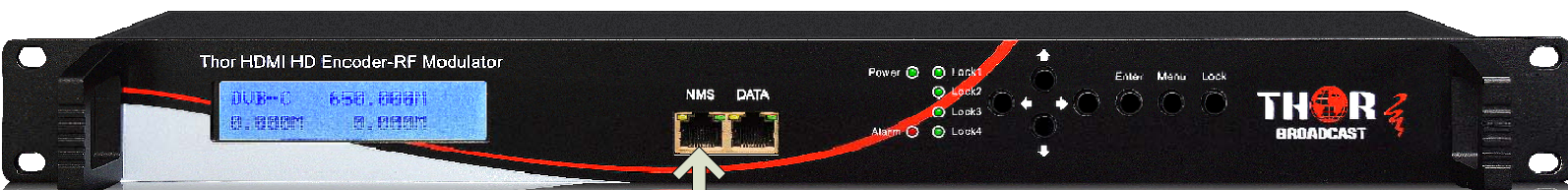
H-1HD-EMH

Quick Setup Guide

This guide also applies to model: H-2HD-EMH

Step 1: CONNECT AND LOGIN

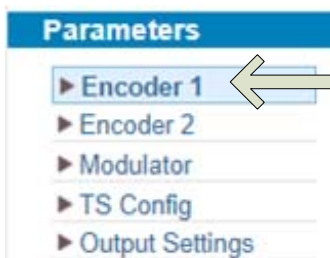
Connect Power Supply



NMS

- 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



Select "Encoder 1" from the main menu

Input Lock:



Bitrate:

18.669 Mbps

Green light indicates proper input connection

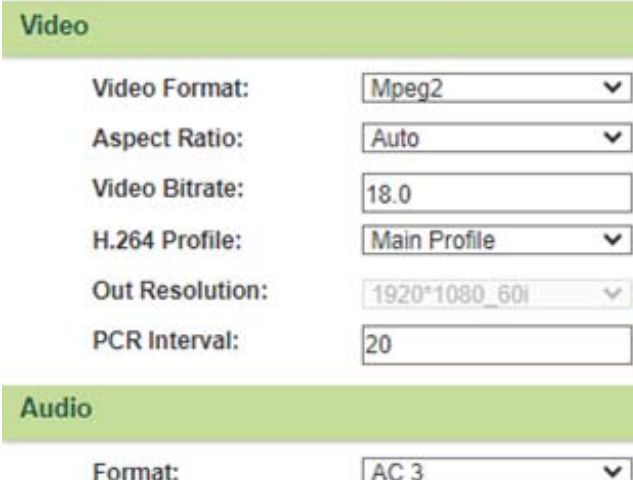
Recommended Settings:

- Video Format: MPEG2
- Video Bitrate: 18.0
- Audio Format: AC3

Apply

Click "Apply" to save changes

Repeat these steps as needed for Encoder 2



Step 3: Modulator Settings

Parameters

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

Select "Modulator" from the main menu

Select top Pencil icon to edit all

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

Status lights must be green

Select Pencil icon on the same line to edit individually

Quickly Config. [close]

Standard: J.83B

Level(CH Carriers): 0.0 (-20 ~ +3 dBm)

Check box to enable channel → Channel Enable: ☒

Start Frequency: 57 CH 2

Constellation: 256 QAM

Symbol Rate: 5361 (3000 ~ 9000 Ksps)

Select desired frequency and channel

Click "Apply" to save changes → **Apply** **Close**

Frequency Mode: Manual

OPTIONAL:
Choose your own frequencies by setting frequency mode to "Manual"

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

Step 4: TS Config

► Modulator
► **TS Config**
► Output Settings

Select "TS Config"
from the main menu

Click "Parse program".
Detected programs will
appear in the left pane.

Parse program

Select Output (1-4)

Output TS 1 ▼ Stream Select General

⇒ Not Locked ⇒ Locked

⇒ 1: Encoder 1 (prog: 1/1) [0.0/0.0M]

⇒ 1: ☒ [101] TV-101

⇒ 2: Encoder 2 (prog: 0/1) [0.0/0.0M]

☒ CA Filter

☒ PID Remap

Refresh Input

Refresh Output

⇒

Check the box to
select program

Click "→" to assign
selected program to
Output

⇒ Normal ⇒ Overflow

⇒ Output (prog: 1)

⇒ 1: ☐ TV-101 ≤=CH1_Encoder 1 [101]

Programs assigned to output
will appear in right pane

Step 5: OUTPUT SETTINGS

► TS Config
► **Output Settings**

Select "Output Settings"
from the main menu

Select top Pencil
icon to edit all,
Select Pencil icon
on the same line to
edit individually

#	IP Address	Port	Protocol	Pkt Length	Filter	Program	Status	Bit(Act/Max)	
MPTS 1	224.2.2.2	2001	UDP	7	☐		●	29.3/38.8 M	
MPTS 2	224.2.2.2	2002	UDP	7	☐		●	0.0/38.8 M	
MPTS 3	224.2.2.2	2003	UDP	7	☐		●	0.0/38.8 M	
MPTS 4	224.2.2.2	2004	UDP	7	☐		●	0.0/38.8 M	
SPTS 1	224.2.2.2	2005	UDP	7	☐	TV-101(MPTS1)	●	14.7/20.0 M	
SPTS 2	224.2.2.2	2006	UDP	7	☐	TV-201(MPTS1)	●	14.7/20.0 M	

Enable:



Check box
to enable
channel

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)

IMPORTANT:

Streams are accessed via the DATA port.

Connect to the stream using the
appropriate IP address and port number:

FOR EXAMPLE:

udp://@224.2.2.2:2005

IMPORTANT:

YOU MUST SAVE CONFIGURATION OR ALL CHANGES WILL BE LOST AFTER RESTART!

System

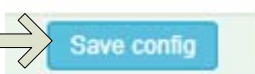
- ▶ Network
- ▶ Password
- ▶ **Configuration**
- ▶ Firmware
- ▶ Date | Time
- ▶ Log

Click "Configuration"
on the Main Menu

Click the "Save" tab



Press "Save config" button



saving configuration, please wait...

Confirmation message will appear
briefly until saving is complete.

Scan for more info:



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		