



User Manual



H-PCKT-MOD

Encoder Modulator

2018

A Note from Thor Broadcast about this Manual

Intended Audience

This user manual has been written to help people who have to use, integrate and to install the product. Some chapters require some prerequisite knowledge in electronics and especially in broadcast technologies and standards.

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HDMI-Modulator J.83B/ATSC/DVB-T/ISDB-T Button Layout

①	HDMI	HDMI Signal input
②	CVBS/ CC	CVBS or Signal input
③	DC	Power Supply 12V DC 1A
④	Ethernet	RJ45 connector for service
⑤	Micro USB	PC connector for service & update
⑥	RF Out	RF Signal output
⑦	RF In	RF Signal loop-through input
⑧	Power LED	Lit when device is powered on
⑨	HDMI LED	Lit when HDMI is in operation
⑩	CVBS LED	Lit when CVBS is in operation
⑪		Control buttons for menu functions
⑫	OK/Return	Enter & Escape buttons for menu



Safety Instructions

- Please make sure the DC adaptor is securely plugged in before operation of the unit, if there are any tears or obstructions to the power supply, do not turn on PCKT-MOD
- Install in a dust-free, dry environment, vapors, water or moisture present. Protect the unit from direct sunlight so it doesn't overheat. Do not install near any heat sources or at ambient temperatures $>50^{\circ}\text{C}$. Make sure the unit is in a well ventilated and the ventilation slots are not obstructed!
- To avoid any short circuits that are excluded from Thor's warranty are: damage caused by improper handling, external influences, liquids, incorrect connection or incorrect operation as well as damage due to blunt force and overvoltage.
- Follow any relevant standards, regulations and guidelines for installation and always use proper care when handling the units to ensure its life expectancy

Primary Use

This Thor Broadcast H-PCKT-MOD handheld pocket modulator is used to feed audio-video signals through the HDMI or AV connector to inject into an existing coaxial cable network.

Signals from surveillance cameras, media-players, satellite receivers or computers are fed through the input then output via RF-modulation and available to any number of receivers (TV, cable set-top-box) over long distances of coax or hybrid fiber/coax infrastructures.

Navigation in the menu

1. In the menus, you can use the ◀▶ keys to select between preset values.
2. To enter numeric values, move the cursor to the line, then press OK. Then use ◀▶ buttons to move the cursor to the digit you want to change and change it by pressing ▼▲ buttons.
3. To enter alphanumeric values, press OK and an overview of the character set opens. Use the ◀▶▼▲ keys to move the cursor. Press OK to accept the desired number/letter. You can correct your entries if needed. Place the cursor on <- or -> and press OK, you will move to the next letter.

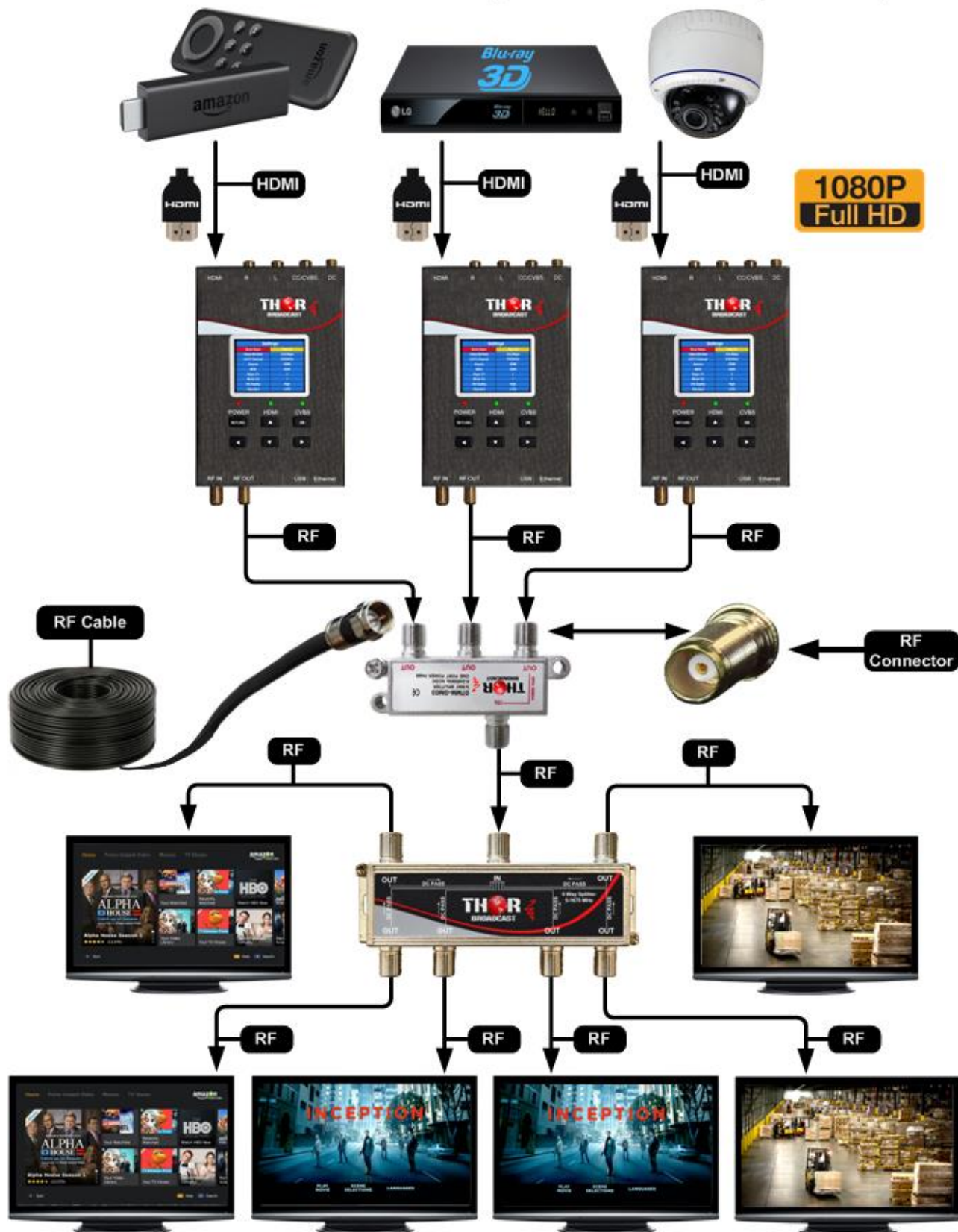
To delete, move the cursor to “Del”. Exit the input window by pressing RETURN.

If you have changed any values, these are only applied and saved after your confirmation.

Make sure you save your work; leave the main menu by pressing RETURN, A dialogue box will appear. To confirm, select “yes” at the question “Save Changes”. If you select “No”, your entries will not be saved.

Application Drawing

HDMI Video To Coax 1080P Dolby HD Modulator Super Compact



J.83B Menu

Frequency (MHz)	Output Frequency
Short Name	Press OK to edit
Major Ch	Press OK to edit
Minor Ch	Press OK to edit
Modulation	Select 64 or 256QAM
RF Attenuation	attenuation of the output (0-30dB attenuation>output level 100-70 dBuV)
More	If necessary, you can set further values here
Version	Check the device SW version

J.83B – Advanced Settings

Service ID	Alphanumeric
TS ID	[0000-65535]
Min BR	Minimum bitrate,2000 kbps
Max BR	Maximum bitrate 24000 kbps
Audio Encoder	MPEG1 / AC3 / AAC
PMT PID	[32-8190]
Video PID	[32-8190]
Audio PID	[32-8190]
PCR PID	[32-8190]
Network	Check and set the IP
Factory Default	Reset to factory settings

ATSC Menu

Frequency (MHz)	Output Frequency
Short Name	Press OK to edit
Major Ch	Press OK to edit
Minor Ch	Press OK to edit
RF Attenuation	attenuation of the output (0-30dB attenuation>output level 100-70 dBuV)
More	If necessary, you can set further values here
Version	Check the device SW version

ATSC – Advanced Settings

Service ID	Alphanumeric
TS ID	[0000-65535]
Min BR	Minimum bitrate,2000 kbps
Max BR	Maximum bitrate 24000 kbps
Audio Encoder	MPEG1 / AC3 / AAC
PMT PID	[32-8190]
Video PID	[32-8190]
Audio PID	[32-8190]
PCR PID	[32-8190]
Network	Check and set the IP
Factory Default	Reset to factory settings

DVB-T Menu

Frequency (MHz)	Output Frequency
Bandwidth	Bandwidth 6M / 7M / 8M, typical value:8MHz at 474-786 MHz or 7 MHz at 177.5-226.5 MHz
Service Name	Press ENTER to change the service name. Under this name, the output signal appears in a channel list, enter up to 15 alphanumeric characters
LCN	With LCN (Logical Channel Numbering), compatible TVs sort the modulated signal during the search according to the number in the channel list entered here
RF Attenuation	Attenuation of the output (0-30dB attenuation>output level 100-70 dBuV)
More	If necessary, you can set further values here
Version	Check the device SW version

DVB-T – Advanced Settings

Service Provider	alphanumeric
Network ID	[0000-65535]
ONID	[0000-65535]
TS ID	[0000-65535]
Service ID	[0000-65535]
Min BR	Minimum bitrate,2000 kbps
Max BR	Maximum bitrate 24000 kbps
Modulation	QPSK / QAM16 / QAM64
FFT	Fast Fourier Transform Mode 2K / 8K
Guard Interval	1/4 / 1/8 / 1/16 / 1/32
Code Rate	1/2 / 2/3 / 3/4 / 5/6 / 7/8
PMT PID	[32-8190]
Video PID	[32-8190]
Audio PID	[32-8190]
PCR PID	[32-8190]
Network	Check and set the IP
Factory Default	Reset to factory settings

ISDB-T Menu

Frequency (MHz)	Output Frequency
Service Name	Press ENTER to change the service name. Under this name, the output signal appears in a channel list, enter up to 15 alphanumeric characters
Key ID	Compatible TVs sort the modulated signal during the search according to the number in the channel list entered here
RF Attenuation	Attenuation of the output (0-30dB attenuation>output level 100-70 dBuV)
More	If necessary, you can set further values here
Version	Check the device SW version

**ISDB-T – Advanced Settings**

Service Provider	alphanumeric
Network ID	[0000-65535]
ONID	[0000-65535]
TS ID	[0000-65535]
Service ID	[0000-65535]
Min BR	Minimum bitrate,2000 kbps
Max BR	Maximum bitrate 24000 kbps
Modulation	QPSK / QAM16 / QAM64
FFT	Fast Fourier Transform Mode 2K / 8K
Guard Interval	1/4 / 1/8 / 1/16 / 1/32
Code Rate	1/2 / 2/3 / 3/4 / 5/6 / 7/8
PMT PID	[32-8190]
Video PID	[32-8190]
Audio PID	[32-8190]
PCR PID	[32-8190]
Network	Check and set the IP
Factory Default	Reset to factory settings

Packing List

Thor Broadcast H-PCKT-MOD	1 PC
User's Manual	1 PC
HDMI Cables	1 PCS
Power Cord	1 PC

For Further Tech Support

1-800-521-Thor(8467)

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