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DTM-8HD/C-19S

Digital modulator HDMI → QAM

User Manual



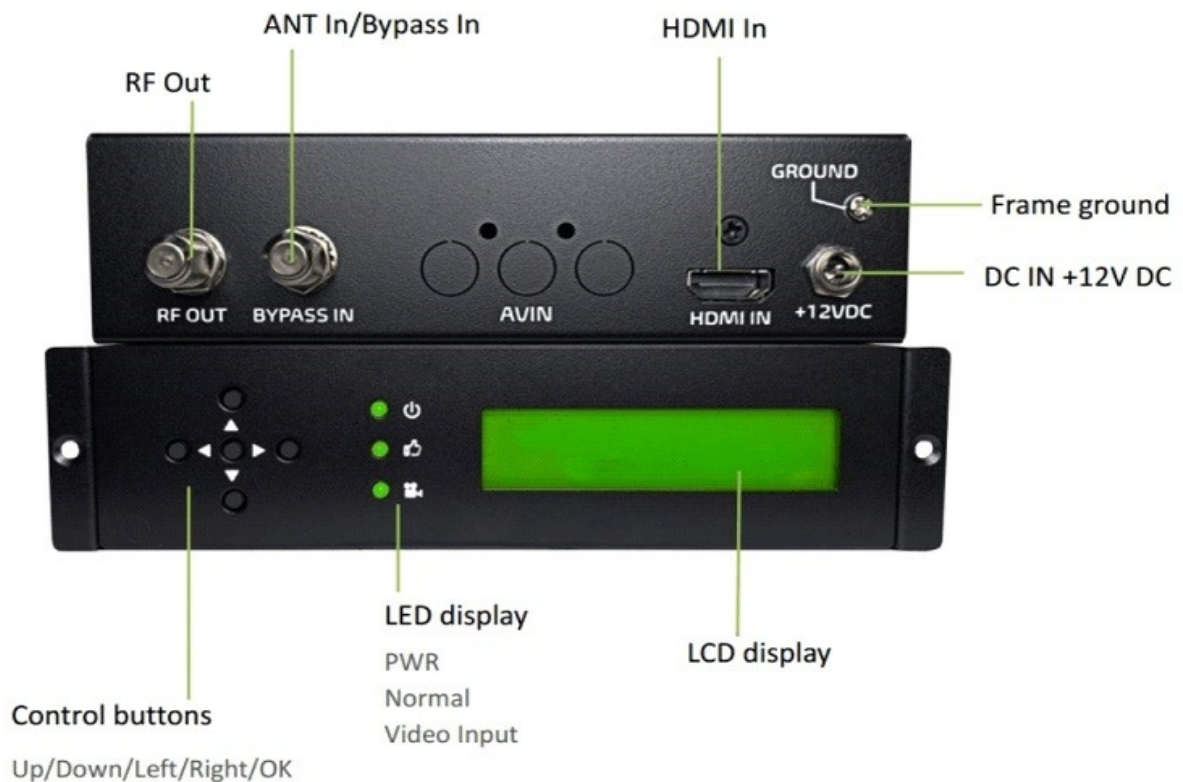
1. Purpose of use

DTM-8HD is a Full-HD encoder to modulate high quality audio and video into QAM (DVB-C) multiplex.

DTM-8HD support up to 1920*1080p resolution but it is recommendate to use max. 1920*1080i resolution as most of TV sets does not support 1920*1080p resolution.

2. Installation

The connections and indications are shown in Fig 1.



DTM-8HD can be mounted directly on the wall with 4 screws.
Do not cover the air passage holes.

12 VDC power supply is connected to DC IN connector.

HD audio/video signal is connected to HDMI IN connector.

RF OUT is connected to cable network.

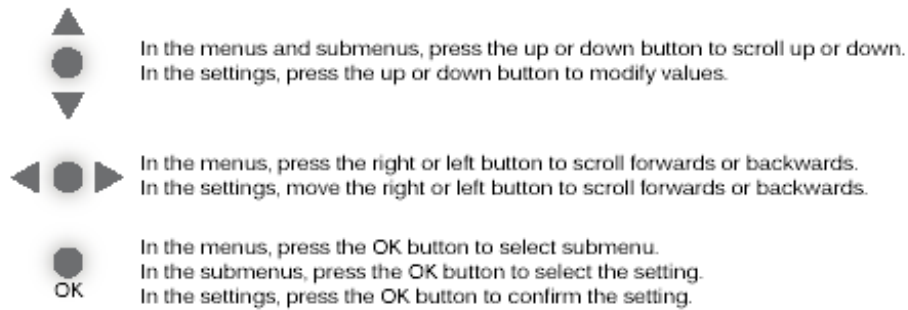
ANT IN is for loop-through.

LED DISPLAY is showing the status of power (PW), transport stream (ST) and video (VI).

3. Programming

The modulator is simple to program with the control buttons UP, DOWN, LEFT, RIGHT and OK.

Below is described how to operate DTM-8HD with the control buttons.



QUICK MENU GUIDE

System Booting	
Please wait...	
DTM-8HD/C	
474.000 MHz	
RF Out	Set RF Output
	Rtrv Status
	Advanced
Video	Rtrv Status
Audio	Encoder Rate
Stream	Set Service ID
	Set Service Name
	Set LCN
	Set PID
	Set NIT
	Set PDS
	Set TS ID
	Rtrv Status
System	Rtrv Inventory
	Reset System
	Set Language

OPERATING ADJUSTMENT VIA LCD & BUTTONS

For 'Menu & Submenu' settings, press the OK button to access the adjustment mode.

In this mode ' * ' will be displayed in the upper right corner. Use the UP or DOWN buttons to select parameter values, then press OK button to confirm the setting.

RF OUTPUT

·Setup RF Output

RF Output Setup RF Output	Following the main Submenu flow charts enter the 'Setup RF Output' mode.
Country: Europe	Press the OK button to enter the next page for country selection.
Country: * Europe	Press the OK button to access the adjustment mode. The LCD display will show an asterisk ' * ' in the upper right corner. You can now press the UP or Down buttons to select the country you require. Press OK button to save. (Europe,Taiwan, OC NTSC, OC PAL, Australia, New Zealand.)

Use the same steps above to adjust the following items.

Area: France	France, Italy, Nordic, UK, Belgium, Others
Frequency: E11(219.5MHz)	E05(177.5MHz)~E69(858MHz) ※
Output Level: 80dBuV	75~90dBuV
Symbol rate: 6.875000	Up to 6.910M Symbol/s
Constellation: QAM64	QAM16, QAM32,QAM64, QAM128,QAM256
Are you sure? y	When all the item in 'Setup RF Output' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

·Retrieve Status

Following the main Submenu flow charts enter the 'Retrieve Status' mode, you can check the parameters of your previous setting in 'Setup RF Output'.



·Advanced

RF Output Advanced	Following the main Submenu flow charts enter the 'RF Output Advanced' mode.
Freq Offset: No Offset	Frequency Offset : -500 ~ +500K, No Offset
RF Output: Enable	Enable, Disable
Single Tone: Disable	Enable, Disable
Are you sure? y	When all the item in 'RF Output Advanced' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

VIDEO

·Retrieve Status

The HDM-1C will detect and analyze the input video signal automatically then you can check the parameters or the status in the 'Video Retrieve Status' mode.

Video Rtrv Status	Following the main Submenu flow charts enter the 'Retrieve Status' mode.
Video Source: HDMI	Automatically detect and analyze.
In Resolution: 1920×1080/50I	Automatically detect and analyze.
Encoder Rate: 11.0Mbps	Automatically detect and analyze.
Encoder Status: Running	Automatically detect and analyze.

AUDIO

Audio Rtrv Status	Following the main Submenu flow charts enter the 'Audio Rtrv Status'. Press the OK button to enter the Submenu.
Encoder Rate: 192K	Fixed value. 192K.

STREAM

·Set Service ID

Video Set Service ID	Following the main Submenu flow charts enter the 'Set Service ID'. Press the OK button to enter the Submenu.
Service ID: 256	Press the OK button to enter service ID mode. Press the OK button to access edit mode. Now press the UP or Down buttons to set ID. Press the Right button to advance to the next character and the Up or Down buttons to set. Press the OK button to save. (1-65535)
Are you sure? y	When all the items in 'Stream Service ID' are done, there will be a confirmation on the display. Press UP or Down button to select YES



	or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.
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•Set Service Name

Stream Set Service Name	Following the main Submenu flow charts enter the 'Set Service Name'. Press the OK button to enter the Submenu.
Service Name: HDMPEG4 MOD	Edit the service name by preference. 0~9 ; A~Z ; "-" ; "" 15 characters.
Are you sure? y	When all the item in 'Stream Service Name' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

•Set LCN

Stream Set LCN	Following the main Submenu flow charts enter the 'Set LCN'. Press the OK button to enter the Submenu.
LCN: 1	Edit the logical channel number by preference. 1~1023
Are you sure? y	When all the item in 'Stream set LCN' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

•Set PID

PMT: 129	32~8190, excluding 71
PCR: 308	32~8190, excluding 71
Video: 2064	32~8190, excluding 71
Audio: 2068	32~8190, excluding 71
Are you sure? y	When all the item in 'Stream set PID' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

•Set NIT

OrgNetwork ID: 1	According to different area to setup the parameter values. 1~65535
Network ID: 1	1~65535
Network Name: NETWORK	A-Z, 0-9, 7 Characters
Are you sure? y	When all the item in 'Stream set NIT' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

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•Set PDS

Private Data: 00000028	8 Hex
Are you sure? y	When all the item in 'Stream set PDS' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

•Set TS ID

TS ID: 201	1~65535
Are you sure? y	When all the item in 'Stream set TS ID' are done, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

J. Retrieve Status

Following the main Submenu flow charts enter the 'Stream' mode. In 'Retrieve Status' mode, press the OK button to check the parameters of your previous settings in 'Stream'.

SYSTEM

A. Retrieve Inventory

System Rtrv Inventory	Following the main Submenu flow charts enter the ' System Retrieve Inventory'. Press the OK button ro enter the Submenu.
System Info HW:1.00 SW: 1.00	Press the OK button to enter the next page, you can check both hard-ware and software version.
System Info Dec 16 2015	Press the RIGHT button to access the next page for more information.Press the OK button to exit.

•Reset System

System Reset System	Following the main Submenu flow charts enter the ' System Reset System'.Press the OK button ro enter the Submenu.
Reset Mode: Hard Reset	Hare Reset, Soft Reset, Reset to default
Are you sure? y	When the system reset is selected, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.

•Set Language

System Set Language	Following the main Submenu flow charts enter the 'System Set Language'. Press the OK button to enter the Submenu.
Language: English	Only support English in this version.
Are you sure? y	When the system reset is selected, there will be a confirmation on the display. Press UP or Down button to select YES or NO. Select 'y' for YES, all the settings above will be stored in memory. Select 'n' for NO to cancel.



4. Technical specifications

VIDEO ENCODER		MPEG-4 H.264 AVC
Output resolution		Up to 1080p/30Hz
Input resolution		576p, 720p, 1080p/25Hz, 1080p/50Hz, 1080p/30Hz, 1080p/60Hz
Max. bitrate		18 Mbit/s
AUDIO ENCODER		MPEG-2 audio layer ½
		Compliant to ISO/IEC11172-3
Fixed bitrate		192 kbps
COFDM OUTPUT		
Modulation		QAM32, QAM64, QAM128, QAM256
Output frequency range		100 MHz - 858 MHz
Output level		Max. 90 dBuV
Input connectors		HDMI typeA
Output connector		F-male 75 ohm
Power consumption		12VDC/0,7A
Dimensions	W*H*D	175mm*165mm*37mm



This symbol on the product or on its packing means that within the European Union the product must be taken to separate collection at the product-end-of life.

Do not dispose of these products as unsorted municipal waste.

Fore more information about where you can drop off your waste equipment for recycling, please contact your local city office, your house disposal service or the shop where you purchased the product.