

DMH-542



INSTALLATION MANUAL

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1. GUIDE

1.1 IMPORTANT SAFETY INSTRUCTIONS

Thank you for choosing our product. Before installation, we would like to remind you some notes, which is very important for operating safely and properly, as follows:

- Be sure to read this user manual before starting your operation.
- When the unit is suddenly moved to a hot area from a cold area, it may cause some problems. In that case, turn off the power, and turn on again after 1-2 hours.
- Keep modulator placed in clean space with sufficient ventilation.
- Do not cover the modulator with or place it on a unit that emits heat.
- Clean the case by a soft cloth with a little washing liquid.
- Do not remove the cover.
- Do not let the unit exposed to extreme heat, cold or humid conditions.
- No liquids or any other materials to come inside of the unit.

1.2 GENERAL DESCRIPTION

This is a composite video input standard definition DVB-T/ DVB-C/ISDB-T(Optional) HD modulator which provides COFDM RF signal in range of 50-860MHz.

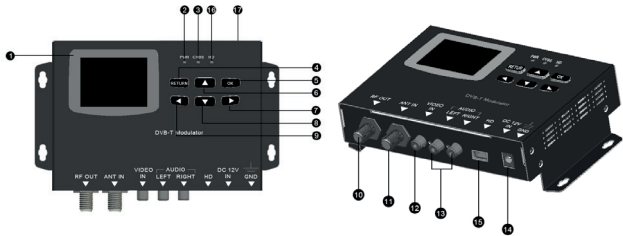
It is designed to achieve AV/HD input, and it only supports standard H.264 encoding.

It is an excellent choice to transport AV/HD signals from TV satellite receivers, surveillance camera or video/media players

to a LCD TV or set-top-box.

It can be used in series with other modulator so the number of channels in the coaxial cable no the SMATV system can be increased as desired.

1.3 PRODUCT OVERVIEW & ILLUSTRATION



No	Description	Function
1	LCD Screen	Menu display
2	PWR	Power indicator light
3	CVBS	CVBS indicator light
4	RETURN	Return submenu and save settings
5	OK	Confirm the current operation
6	▲	Change the frequency point or cursor up
7	▶	Switch settings in menu or cursor right
8	▼	Change the frequency point or cursor down
9	◀	Switch settings in menu or cursor left
10	RF OUT	Rf output port
11	ANT IN	External digital signal input port

No	Description	Function
12	VIDEO IN	Video signal input port
13	AUDIO IN	Audio signal input port
14	DC 12V IN	Connect to Adaptor Input
15	HD IN	HD signal input port
16	HD	HD indicator light
17	PC	Software upgrade port

2. FEATURES

- High level of integration, high-performance, Full-featured, integrated design
- Single input modulator that converts AV/HD source to a DVB-T/DVB-C/ISDB-T channel
- Standard COFDM modulation and H.264 encoding
- Multiple video format compatibility including 576i(PAL) / 480i(NTSC) / 720p / 1080p
- Frequency range: 50~860MHz
- Continuously adjustable RF attenuation range from 0dB to 30dB, step 1dB
- 2.4-inch color LCD display
- Small size and light weight
- User friendly setup and control
- Compact and wall mountable

3. THE MENU OSD INSTRUCTION

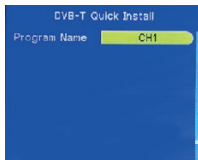
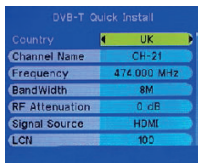
The HD Modulator will initialize to the main interface after power on, and press **OK** into the main menu.

- Quick Install
- DVB Settings
- TS Settings
- System Setup
- About

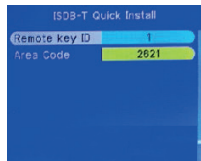


3.1 QUICK INSTALL

- **Country:** press **◀▶** key to enter country list, and use **▲▼** key to select a country, then press **OK** to confirm.
- **Channel Name:** press **◀▶** key to change the channel number.
- **Frequency:** frequency setting in range of 50~860MHz, press **◀▶** key to move cursor and press **▲▼** key to change numbers.
- **Bandwidth:** 6M/7M/8M optional, press **◀▶** key to switch bandwidth only in DVB-T mode.
- **RF Attenuation:** RF attenuation setting, press **◀▶** key to change value in range of 0~30dB, step 1 dB.
- **Signal Source:** press **◀▶** key to select HD or CVBS.
- **LCN:** use **▲▼◀▶** key to edit logical channel number.



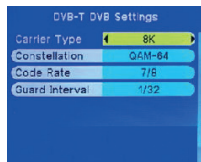
- **Program Name:** use ▲▼◀▶ key to edit the program name.
- **Remote Key ID:** use ▲▼◀▶ key to edit the ID number for TV program sorting only in ISDB-T mode.
- **Area Code:** use ▲▼◀▶ key to edit the area code only in ISDB-T mode.



3.2 DVB SETTINGS

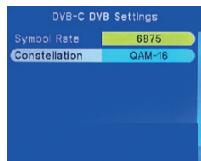
DVB-T Mode:

- **Carrier Type:** 2K/8K optional.
- **Constellation:** QPSK/QAM-16/QAM-64 optional.
- **Code Rate:** 1/2, 2/3, 3/4, 5/6, 7/8 optional.
- **Guard Interval:** 1/4, 1/8, 1/16, 1/32 optional.



DVB-C Mode:

- **Symbol Rate:** default is 6875kbps.
- **Constellation:** QAM-16/QAM-32/QAM-64/QAM-128/QAM-256 optional.

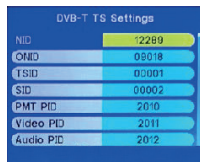


ISDB-T Mode:

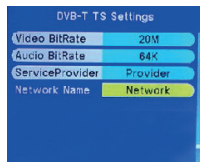
- **Carrier Type:** 2K/4K/8K optional.
- **Constellation:** QPSK/QAM-16/QAM-64 optional.
- **Code Rate:** 1/2, 2/3, 3/4, 5/6, 7/8 optional.
- **Guard Interval:** 1/4, 1/8, 1/16, 1/32 optional.

3.3 TS SETTINGS

- **NID:** Network ID can be modified by ▲▼◀▶ key (Max 65535).
- **ONID:** Original Network ID can be modified by ▲▼◀▶ key (Max 65535).
- **TSID:** Transport Stream ID can be modified by ▲▼◀▶ key (Max 65535).
- **SID:** Service ID can be modified by ▲▼◀▶ key (Max 65535).
- **PMT PID:** PMT PID can be modified by ▲▼◀▶ key (Max 8191).
- **Video PID:** video PID can be modified by ▲▼◀▶ key (Max 8191).
- **Audio PID:** audio PID can be modified by ▲▼◀▶ key (Max 8191).
- **Video Bitrate:** default is Auto mode, or 1M~20M optional.
- **Audio Bitrate:** 64K/128K/192K/256K/320K optional.
- **Service Provider:** use ▲▼◀▶ key to edit service provider.
- **Network Name:** use ▲▼◀▶ key to edit the network name.



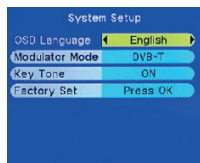
DVB-T TS Settings	
NID	12289
ONID	00018
TSID	00001
SID	00002
PMT PID	2010
Video PID	2011
Audio PID	2012



DVB-T TS Settings	
Video BitRate	20M
Audio BitRate	64K
Service Provider	Provider
Network Name	Network

3.4 SYSTEM SETUP

- **OSD Language:** press ◀▶ key to change language, default is English.
- **Modulator Mode:** DVB-T/DVB-C/ISDB-T optional according to customer requirements.
- **Key Tone:** press ◀▶ key to ON/OFF key tone.
- **Factory Set:** press **OK** to confirm factory reset.



System Setup	
OSD Language	English
Modulator Mode	DVB-T
Key Tone	ON
Factory Set	Press OK

3.5 ABOUT

Display some information about software and hardware version.



Note: The different modulator mode cost different price, please contact sales for details.

4. TECHNICAL SPECIFICATION

DVB-T Mode	
Bandwidth	6M/7M/8M
Carrier	2K/8K
Constellation	QPSK/QAM-16/QAM-64
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
MER	>32dB
Frequency Range	50 ~ 860MHz
Attenuator	0 ~ 30dB
Output Impedance	75Ω
DVB-C Mode	
Bandwidth	8M
Symbol Rate	6875kbps, editable
Constellation	QAM-16/QAM-32/QAM-64/ QAM-128/QAM-256
MER	>32dB
Frequency Range	50 ~ 860 MHz
Attenuator	0 ~ 30dB
Output Impedance	75Ω
ISDB-T Mode	
Bandwidth	6M
Carrier	2K/4K/8K
Constellation	QPSK/QAM-16/QAM-64
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8

Guard Interval	1/4, 1/8, 1/16, 1/32
MER	>32dB
Frequency Range	50 ~ 860MHz
Attenuator	0 ~ 30dB
Output Impedance	75Ω
HD Input	
Compression	H.264 - bitrate 1-20 Mb/s
Video Resolution	1920*1080_60P, 1920*1080_50P; 1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P
Connector	HD
Video Output	
Video Resolution	1920*1080_30P, 1920*1080_25P; 1920*1080_30i, 1920*1080_25i; 1280*720_30p, 1280*720_25P
General	
Power Source	DC 12V / 1.5A
Operating Temperature	0 ~ +45°C
Dimensions	155mm(L) × 114mm(W) × 33mm(H)
Weight	0.34Kg



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