



CONEXER

DIGITAL MODULATOR DMHD01E
HD ENCODER DVB-T MODULATOR HDMI LOOP

USER MANUAL

Congratulations on your purchase of the DMHD01E

This 'state of the art' product is a HD encoder with data taken from Video, Audio or HDMI input. The HDMI input signal is passed to the HDMI output connector.

After compressing the Video into H264 and Audio in AAC or MPEG1-L2, the output is available as a DVB-T signal.

Standalone configuration is made easy through three tactile switches and ergonomic menus. To make the configurations of the DMHD01E is very simple as special **DMHDiFace** software is available for you to download off our website: www.antiference.co.uk

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1 SAFETY CONSIDERATIONS

1.1 Connecting to the mains supply This product has to be connected to the mains supply. If there is the slightest doubt concerning the type of connection available on the installation, please contact your supplier of electricity. Before carrying out maintenance operation or modification of the installation, the modulator has to be disconnected.
N.B. Only use the supplied power adaptor.

1.2 Overvoltage

An overvoltage on the mains supply can cause short circuits or fire. Never overload the power lines.

1.3 Liquids

This module should be protected from splashes. Please ensure that no containers containing liquids are placed on this module. Be aware of other persons splashing liquids on the module.

1.4 Cleaning

Disconnect the module before cleaning. Use only a damp cloth and do not use solvents.

1.5 Ventilation

In order to assure an adequate air circulation and to prevent overheating, the ventilation holes should not be obstructed. The module may not be installed in a hermetically sealed environment. Other electronic products or heat producing items may not be placed upon or near the module.

1.6 Accessories

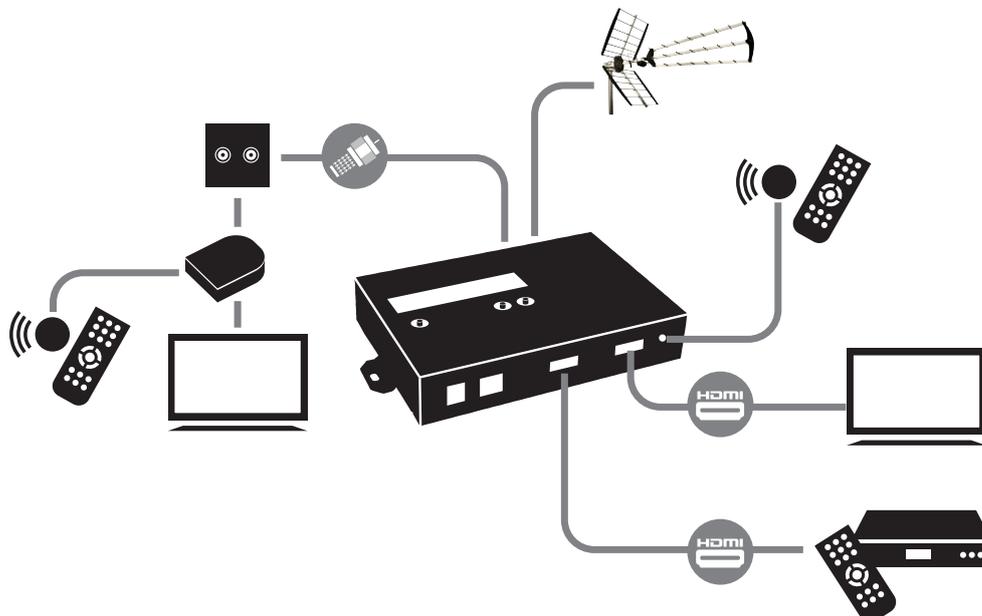
The use of accessories not manufactured by the manufacturer can cause damage to the module.

1.7 Installation of the module

The module must be installed in a place well protected from direct sunlight. All measures have to be taken to avoid installation in humid or sunny places. Do not install near heating elements or other devices producing heat. Ensure that the module is placed at least 10 cm from other equipment which is susceptible to electromagnetic radiation. Do not install the module on unstable items, a fall can cause physical or material damage.

2 - Installation

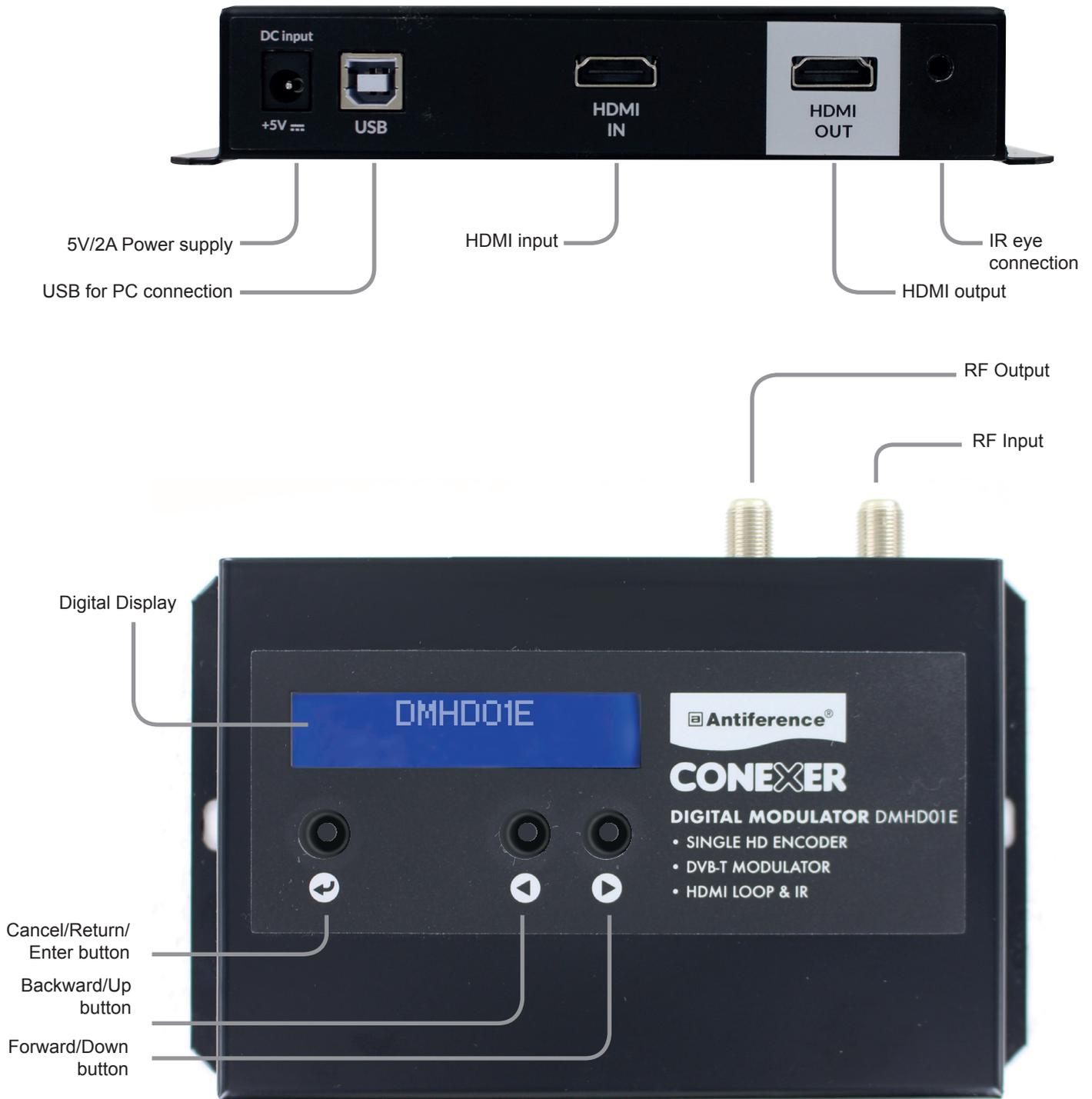
Please find a typical connection and installation layout for the DMHD01E.



IR Control

The IR function enables the user to control the source device from a remote location over the coax cable network. This is achieved with a by-pass distribution amplifier such as Antiference Remotelink or 75 Series Amps and Antiference Magic Eyes (ME200).

3 - Description of the different elements



4. Setting up the DMHD01E

The DMHD01E has a quick menu to allow for quick basic settings. For more detailed settings an advance menu is also available

4.1 - The Quick menu

To enter the quick menu please press the following sequence of buttons: 

When entered successfully, the quick menu becomes available, use the  buttons to move between the different menu options. Press and hold the  to select that option and use  to change the value to that option. Changes are automatically saved.

			Change the output channel
			Change the output level
			Change the output country
			Change the L.C.N. number
			Change the output TS ID
			Change the output language
			Change the factory settings
			Leave the menu

4.2 - The Advanced menu

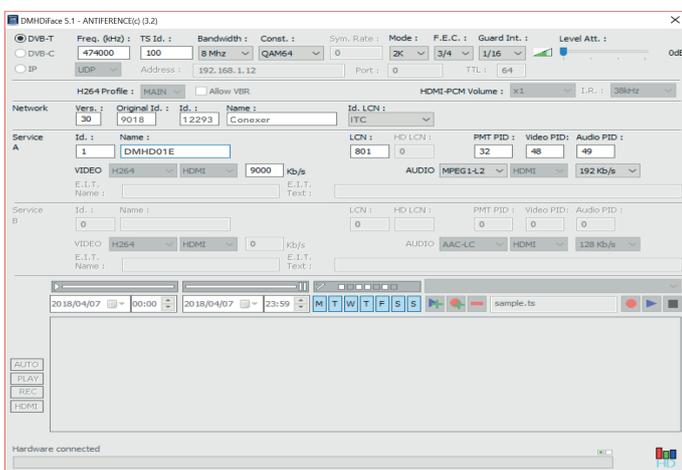
To enter the advanced menu please press the following sequence of button: ◀ ▶ ▶ ▶

When entered successfully, the advanced menu becomes available, use the ◀ ▶ buttons to move between the different menu options. Press and hold the ◀ to select that option and use ◀ ▶ to change the value to that option. Changes are automatically saved.

<p>DMHDO1E DVB SETTINGS</p>	◀	DMHDO1E FREQUENCY	◀	DMHDO1E 474000 kHz	Set the output frequency
		DMHDO1E BANDWIDTH	◀	DMHDO1E (8 MHz)	Select the bandwidth 6, 7 or 8MHz
		DMHDO1E CONSTELLATION	◀	DMHDO1E (QAM64)	Select the constellation QPSK, QAM16 or QAM64
		DMHDO1E F.E.C.	◀	DMHDO1E (7/8)	Select the F.E.C. 1/2, 3/4, 5/6, or 7/8
		DMHDO1E GUARD INTERVAL	◀	DMHDO1E (1/32)	Select the Guard Interval 1/2, 1/4, 1/8, 1/16 or 1/32
		DMHDO1E MODE	◀	DMHDO1E (2K)	Select the mode 2K or 8K
		DMHDO1E EXIT	◀	DMHDO1E (YES)	Leave the menu
<p>DMHDO1E A/V SETTINGS</p>	◀	DMHDO1E VIDEO RATE	◀	DMHDO1E 9000	Set the video rate
		DMHDO1E AUDIO RATE	◀	DMHDO1E (192 Kb/s)	Set the audio rate
		DMHDO1E AUD. COMPRESSION	◀	DMHDO1E (MPEG1-L2)	Set the audio compression
		DMHDO1E EXIT	◀	DMHDO1E (YES)	Leave the menu

	DMHD01E NIT RELEASE	DMHD01E 30	Set the NIT version
	DMHD01E NET ID	DMHD01E 12293	Set the Network ID
	DMHD01E ORIG. NET ID.	DMHD01E 9018	Set the original network ID for your country
	DMHD01E LCN ID.	DMHD01E (ITC)	Set the LCN system, EACEM ITC, Nordig or Austral
	DMHD01E NETWORK NAME	DMHD01E Conexer	Set the network name
	DMHD01E SERVICE NAME	DMHD01E Channel A	Set the service name
	DMHD01E PROGRAM ID	DMHD01E 1	Set the Program ID
	DMHD01E PMT PID	DMHD01E 32	Set the PMT PID
	DMHD01E VIDEO PID	DMHD01E 48	Set the Video PID
	DMHD01E AUDIO PID	DMHD01E 49	Set the Audio PID
DMHD01E EXIT	DMHD01E (YES)	Leave the menu	

5 - Programming using a PC



The settings of the DMHD01E can also be changed using a PC. First, please install the software **DMHDiFace** on your PC. You can download this software from our internet site www.antiference.co.uk. After installing the software, connect the DMHD01E using a USB cable (not included) to your computer. Then launch the program **DMHDiFace**. On the display of the DMHD01E the message <USB> appears, indicating that programming is now performed through your PC. The following window appears on your screen. All the functions can now be edited and modified using **DMHDiFace**.

6 - Technical Specifications

Video input	Input	HDMI
	Resolution modes	480p - 576p - 720p - 1080i - 1080P
	Compression	H.264 – bitrate 5-15 Mb/s
Audio input	Input	HDMI
	Sample Rate	HDMI (32kHz / 44.1 kHz / 48 kHz)
	Compression	AAC-LC / MPEG1 - L2 – bitrate 128-320 Kb/s
DVB Processing	Table insertion	PAT, PMT, SDT, NIT
	Configuration	Channel/network name, SID, LCN, TSID, ONID, NID, versions, audio, video PIDs.
DVB-T output	Output frequency / level	170-230 MHz + 470-862 MHz / > 85 dB μ V
	Constellation - FEC	QPSK/16QAM/64QAM - 1/2, 2/3, 3/4, 5/6, 7/8
	Guard interval	1/4, 1/8, 1/16, 1/32
	Mode - MER	2K/8K - 33 dB
Power	DC 2.1 mm connector	+5V
	Consumption	10 Watts
Dimensions	LxWxH	150x130x35mm
	Weight	0.9kg

7 - Declaration of Conformity:



We, ANTIFERENCE LIMITED herewith declare that the modulator CONEXER DMHD01E complies with all essential requirements and any other applicable conditions set forth on directive 2014/30/EU.



According to the WEEE (Waste Electrical and Electronic Equipment) EU Directive, do not dispose of this product as household waste or commercial waste. Waste Electrical and Electronic Equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

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