

 **Antiference®**



CONEXER

DIGITAL MODULATOR DMHD02

TWIN HD ENCODER • DVB-T MODULATOR • USB REC/PLAY

USER MANUAL

Congratulations on your purchase of the DMHD02

The DMHD02 digital modulator features an HD encoder. The video and audio can be taken from HDMI inputs and compressed into H.264 video and AAC or MPEG1-L2 audio. The output is configured as DVB-T/C transport stream.

Configuration is simple and can be programmed on the front panel via a tactile joystick and ergonomic menus. Alternatively, configuration is possible via the DMHDiFace, a Windows-based software which is available on our website and can be downloaded for free on the following link:

www.antiference.co.uk/product/conexer-twin-hdmi-modulator/

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1. SAFETY CONSIDERATIONS

1.1. Connecting to the mains supply

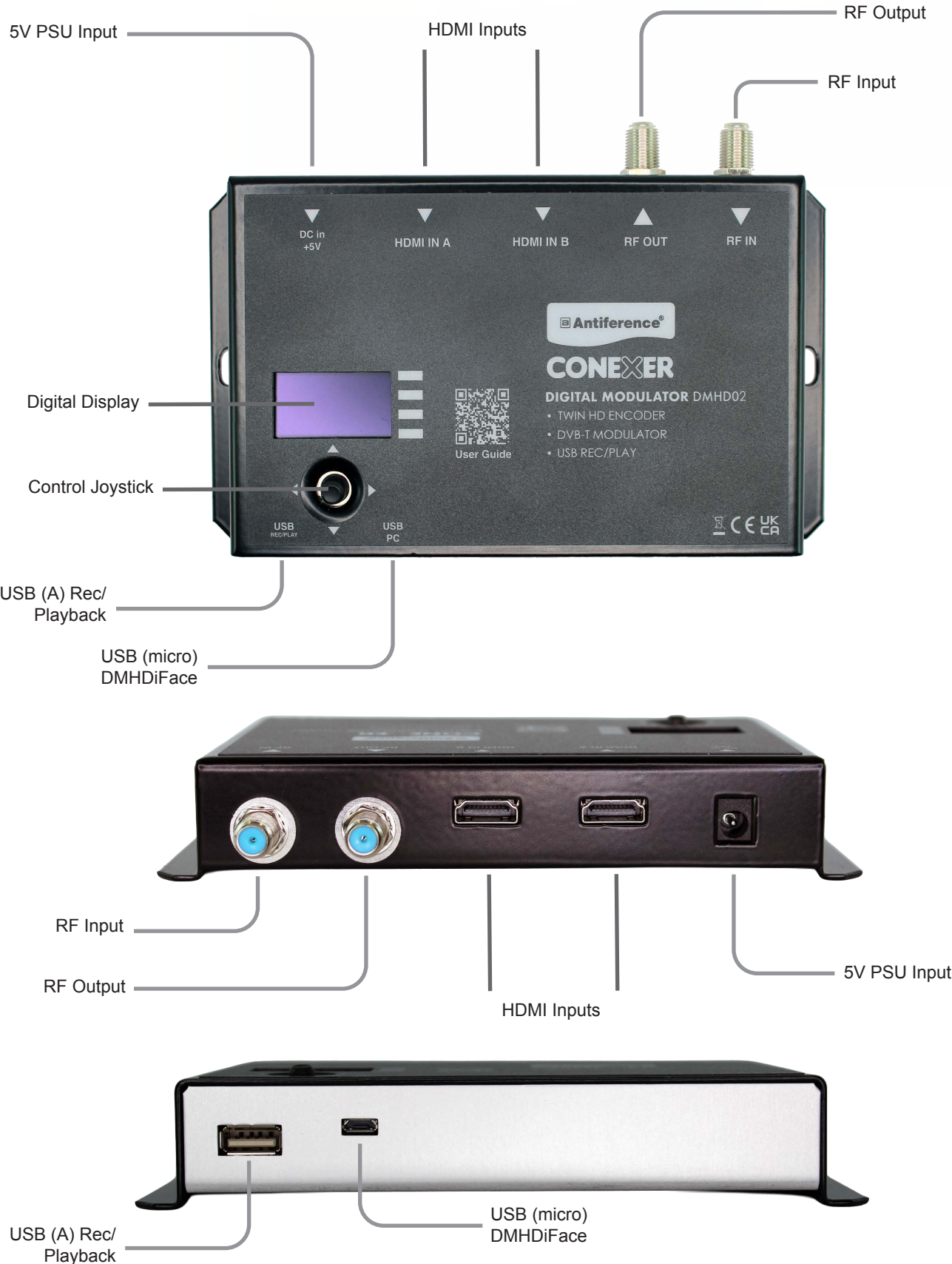
This product has to be connected to the mains supply. If there is the slightest doubt concerning the type of connection available on the installation, please contact your supplier of electricity. Before carrying out maintenance operation or modification of the installation, the modulator has to be disconnected.

N.B. Only use the supplied power adaptor.

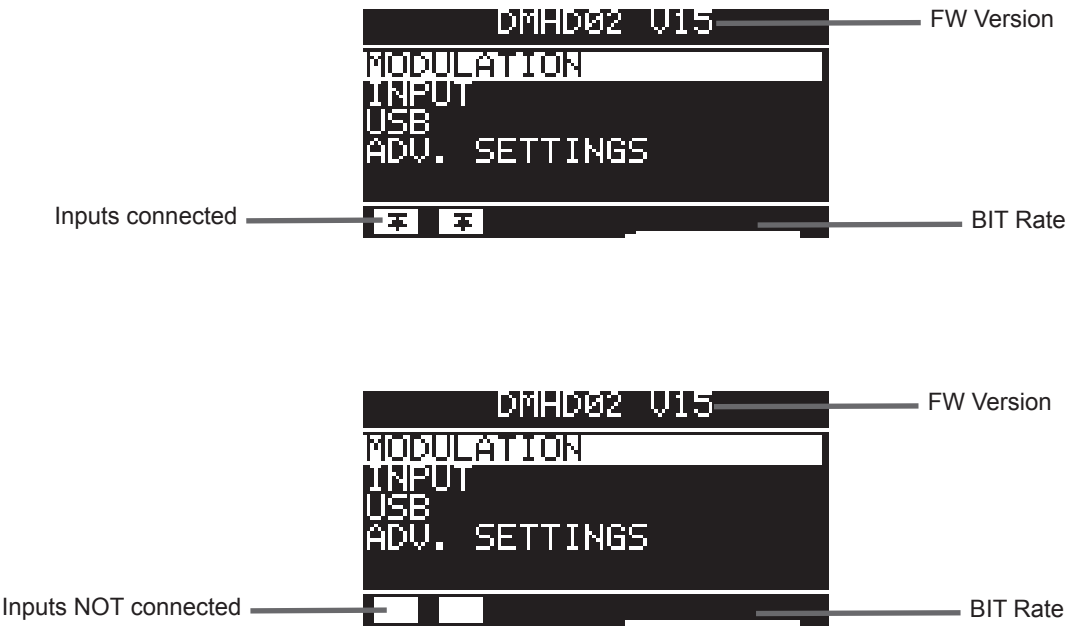
1.2 Overvoltage

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

3. Description of the different elements



4. Description of the MAIN MENU



5. Setting up the DMHD02

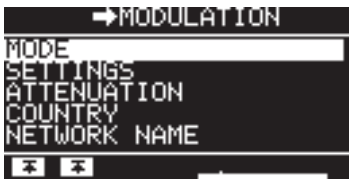
The DMHD02 has 4 main menus for configuration.

MODULATION/INPUT/USB/ADVANCED menu options.

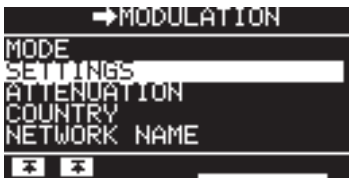
5.1. The MODULATION Menu

The MODULATION menu has several submenus: MODE/SETTINGS/ATTENUATION/COUNTRY/NETWORK NAME/NIT RELEASE/TS ID

Use the joystick to navigate between the different menu options and press the joystick to confirm your selection.



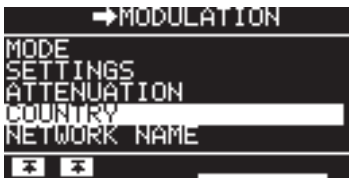
Switch between DVBT & DVBC



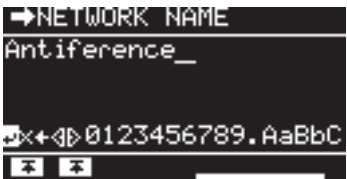
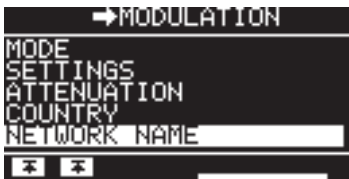
Change the output channel



Edit the output attenuation



Select country of location



Change network name



Edit NIT release



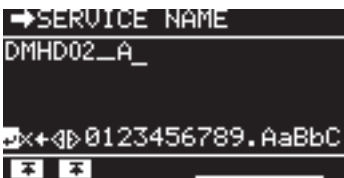
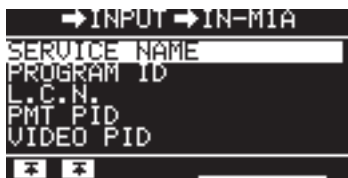
Change transport stream ID

5.2. The INPUT Menu

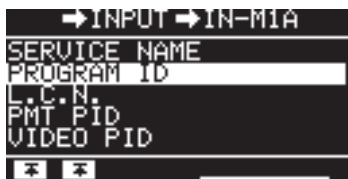
The INPUT menu has 2 identical sections for inputs A & B. It has the following submenus: SERVICE NAME/PROGRAM ID/L.C.N./PMT PID/VIDEO PID/AUDIO PID/VIDEO RATE/AUDIO RATE. Use the joystick to navigate between the different menu options and press the joystick to confirm your selection.



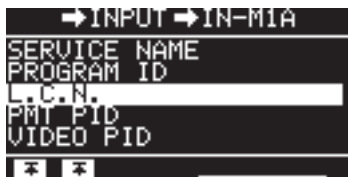
Select the INPUT to program



Change the SERVICE NAME



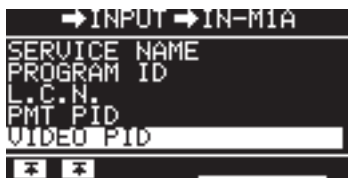
Change the PROGRAM ID



Set the L.C.N number



Change the PMT PID

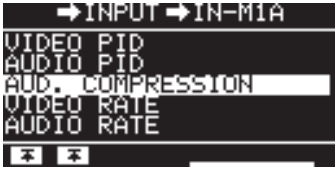


Change VIDEO PID



Change AUDIO PID

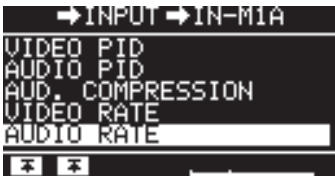
5.2. The INPUT Menu (Cont)



Change the AUDIO
COMPRESSION



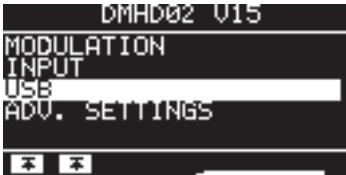
Change the VIDEO RATE



Change AUDIO RATE

5.3. The USB Menu

The USB menu allows configuration of files to be streamed via USB. The DMHD02 can stream .ts files over the coaxial network and is ideal for digital signage solutions over RF. While in play mode, the source connected to input A is suspended and priority is given to the USB input source. Files can be played on demand through this menu system. The DMHD02 can also schedule playback from USB via the DMHDiFace software. The USB menu has the following submenus: PLAY/REC/STOP/CLOCK Use the joystick to move between the different options and press the joystick to confirm your selection.



Select the file you want to play and press enter to start playback



Choose file name for recording to be made from input source A



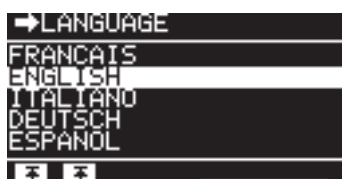
Set the time and date on the DMHD02

5.4. The ADVANCED SETTINGS Menu

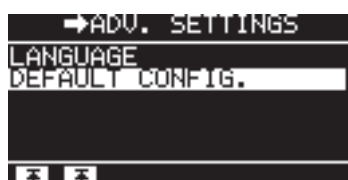
Set the language for the DMHD02 or return settings to default values.



Select Advanced settings menu



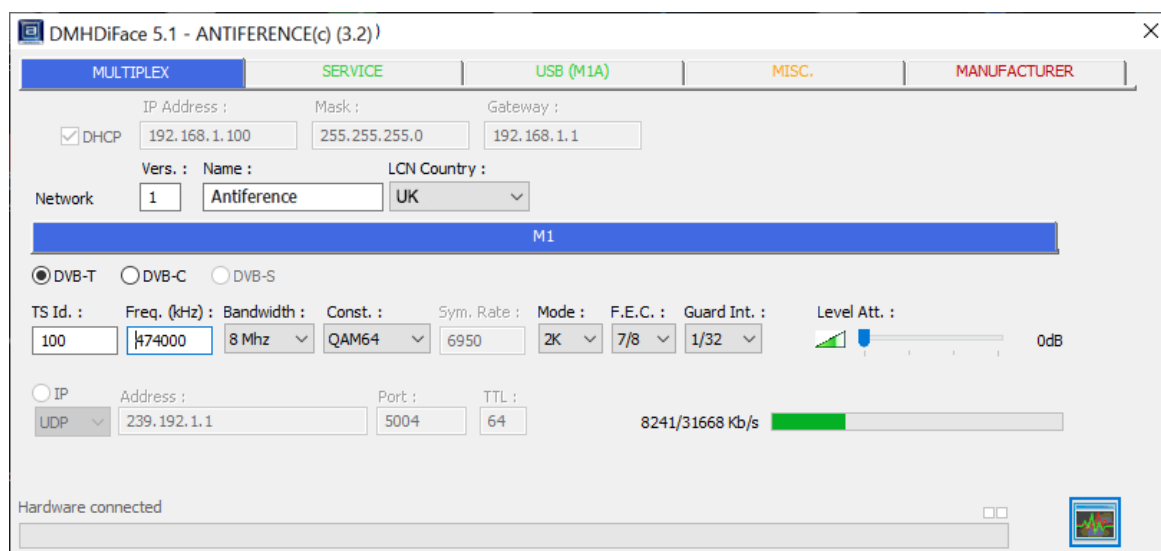
Select language option



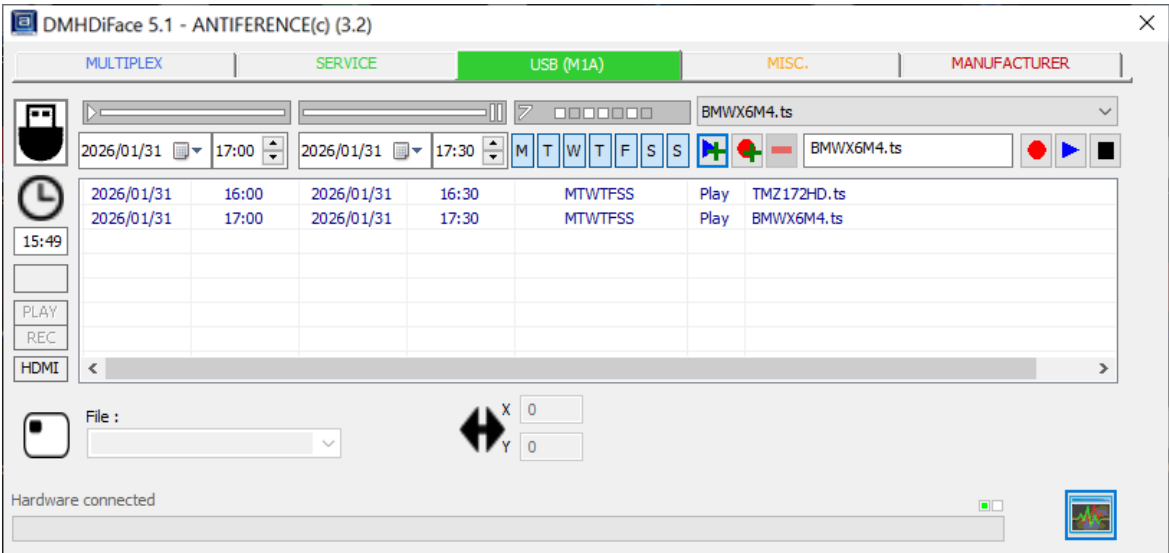
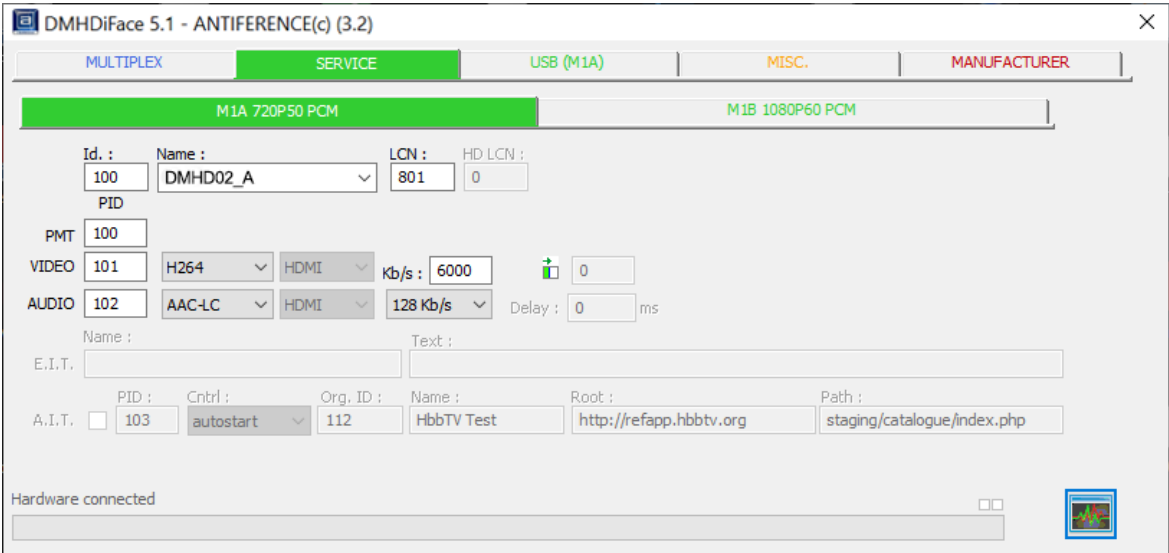
To reset all settings, select
DEFAULT CONFIG.

6. The DMHDiFace

For complete control of the DMHD02, the DMHDiFace is available to download. Supported by Windows, visit www.antiference.co.uk/product/conexer-twin-hdmi-modulator/ and click the 'downloads' tab.



6. The DMHDiFace (Cont)



7. Technical Specifications

Video input (x2)	Input	HDMI 1.4
	HDMI input resolutions	480p - 576p - 720p - 1080i - 1080P
	DVBT/C output resolution	480p - 576p - 720p - 1080i - 1080P
	Compression	H264 - 1 - 15 Mbit/s
Audio input (x2)	Input	HDMI
	Sampling rate	HDMI (32kHz / 44.1 kHz / 48 kHz)
	Compression	AAC-LC / MPEG1-L2 - bitrate 128-384 Kb/s
DVB treatment	Table insertion	PAT, PMT, SDT, NIT
	Configuration	Channel/network name, SID, LCN, TSID, ONID, NID, versions, audio, video PIDs...
DVBT output	Output frequency level	170-230 MHz + 470-862 MHz / > 86 dBμV
	Constellation - FEC	QPSK/16QAM/64QAM - 1/2, 2/3, 3/4, 5/6, 7/8
	BW - Guard interval	BW : 6/7/8 MHz GI 1/4, 1/8, 1/16, 1/32
	MER	2K/8K - 35dB
DVBC output	Frequency	47-862 MHz / > 86 dBμV
	Constellation - MER	QAM16,32,64,128,256 / MER > 40 dB
	Symbol rate	2000 - 7000
Power	DC connector - 2.1mm	+5V
	Power consumption	6 Watts
Dimensions	LxWxH	170x110x30mm
	Weight	0.5 kg (power supply included)
EAN code	TMZ2HD	5420037690046

8. DECLARATION OF CONFORMITY



We, ANTIFERENCE LIMITED herewith declare that the modulator CONEXER DMHD02 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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www.antiference.co.uk

