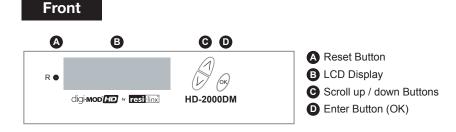
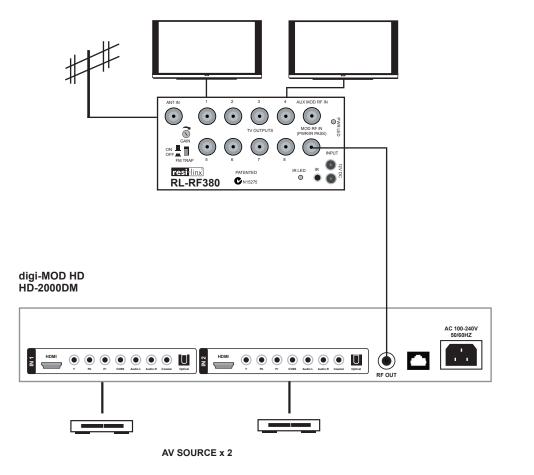




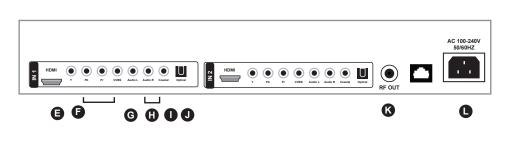
www.resi-linx.com

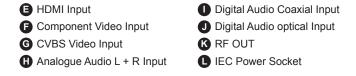
# Single & Dual Input HD Digital DVB-T Modulators





Rear





Installation Diagram

#### **Hardware Connection**

- 2. Connect the relevant Audio Output cable from the audio source to the relevant Audio Input 🕒 **(**) (if required) on the rear of the HD-1000DM / HD-2000DM Modulator.
- 3. Connect the RF Output () from the HD-1000DM / HD-2000DM to the Modulator Input on the RF Distribution Module RL-RF380. Alternatively connect the RF Output () to an existing distribution system or directly to a television set.
- 4. Connect the supplied IEC Power Cable to the Power Socket.
- 5. Repeat steps 1-2 for connection of other sources to AV Input IN2 for HD-2000DM

NOTE: If using HDMI, there is no need to connect an additional Audio Cable.

#### **Initial Startup**

- 1. Power Up the digi-MOD HD
- 2. Wait until digi-MOD HD reads "Running" then enter the menu by selecting the "OK" button
- 3. Enter Password "0000" and press "OK"
- 4. The LCD screen will now display "ADVANCED MENU OUTPUT CHANNEL" select the "OK" button
- 5. The LCD screen will now display "OUTPUT CHANNEL 21" with the frequency in MHz. In some TV sets Channel 21 is not available, so it is recommended to change this to appropriate available channel to suit your installation (40, 50, 60 etc.) Once you have selected a channel number, Select "OK" to lock in the change.
- 6. Once Output Channel has been changed, wait up to 20 seconds for picture to appear.
- 7. Change any other settings via the "MENU" as required (refer to Technical Specifications)
- Once finished programming use the "UP" scroll button until the LCD display reads "ADVANCED MENU EXIT", select "OK"
- 9. The LCD will now read "EXIT, EXIT MENU". Select "OK". The LCD display will now show "Running"
- 10. Auto Scan for Channels on the TV set with the digi-MOD HD connected and powered.
- Sources for selected digi-MOD HD Channel selection, (e.g channel 40), are found on TV channels 101 (adjustable - refer to <u>Programming LCN</u>)

## Programming

**CHANNEL NAME** can be changed by using the Scroll "UP" key until you reach "CHANNEL NAME". Use the UP/DOWN scroll keys to change each letter. Click "OK" to confirm channel name change.

**LCN** (Logic Channel Number) can be moved from its default position (101, 102) to a different channel number (e.g. 4, 5) by scrolling UP/DOWN in the LCN option for each channel. Once selected, press the "OK" button to lock your channel change.

#### NOTE: Repeat this process for each Input of your digi-MOD HD Modulator.

**Video Output** – digi-MOD HD can distribute either MPEG-2 or AVC (MPEG-4) signals to suit your installation requirement. Via the "VIDEO OUTPUT" option in the menu, simply select the Video Output per input to either MPEG-2 or AVC (MPEG-4) and press OK (allow 10 seconds for change to apply).

**Video Input** – allows you to select which VIDEO INPUT on the HD1000DM / HD2000DM you wish to modulate (HDMI, COMPONENT, COMPOSITE). There is also an "AUTO" (default) option in the setting that will automatically display the highest resolution available.

**Audio Input** – allows you to select which audio input on the HD1000DM / HD2000DM you wish to modulate (OPTICAL, COAXIAL, ANALOG).

Audio Output - allows you to select which audio format on the HD1000DM / HD2000DM you wish to modulate into your system (AC3, AAC, MP2).

#### IMPORTANT NOTE:

- You must re-scan the TV once setting has been changed or the TV may not display the picture and sound correctly.
- Once programming complete it is recommended that the system be reset by pressing the reset button (A) on the face of the module.

#### Installing multiple digi-MOD HD's in an installation

Please ensure each digi-MOD HD has different settings in the categories below if you are installing 2 or more in an installation.

OUTPUT CHANNEL

STREAM ID

**CHANNEL NAME** 

LCN

IMPORTANT NOTE: Failure to change the above settings will result in conflict and will not install all channels correctly.

NOTE: If the digi-MOD HD is powered down, there is no need to reconfigure. All settings will remain unless a factory default is done.

## **Advanced Programming**

**FEC – Forward Error Correction** - Using FEC codes enables communications to achieve the same level of transmission reliability, quantified by the BER, at lower output power levels.

**Guard Interval** - Guard intervals are used to ensure that distinct transmissions do not interfere with one another. The purpose of the guard interval is to introduce immunity to propagation delays, echoes and reflections, to which digital data is normally very sensitive. Example: By changing the FEC from <sup>3</sup>/<sub>4</sub> to <sup>7</sup>/<sub>8</sub> you are increasing the bandwidth available within the channel allowing more data available for transmission.

**Constellation** - Countries around the world use different constellations for transmission of digital TV signals. The setting are either 16QAM, 32QAM or QPSK and are pre-set as per region within in the HD1000DM / HD2000DM.

**Bandwidth** – countries around the world use different bandwidth for transmission of digital TV signals. The setting are either 6, 7 or 8 MHz and are pre-set as region specific within in the HD1000DM / HD2000DM.

LCN Mode – allows change of the LCN mode (EACEM, APN, ITC, NorDIG) for different regions.

Aspect Ratio – allows change of size of the picture being displayed on the TV. Default is set on wide screen 16:9 but can be changed to 4:3 if required.

**RF Output Level** – dB level of output of HD1000DM / HD2000DM launched at 95 dB and adjustable via "ATTENUATION" mode in the Settings menu.

#### **IMPORTANT NOTE:**

- You must re-scan the TV once setting has been changed or the TV may not display the picture and sound correctly.
- Once programming complete it is recommended that the system be reset by pressing the reset button (a) on the face of the module.

#### **Safety Precautions**

- Do not apply power to the DVB-T Digital Modulator until all components have been installed and all wiring
  has been properly terminated. Failure to do so may result in damage to the product and void manufacturer's
  warranty
- Do not attempt to terminate, change or un-install any wiring without first unplugging Power Adapter from the DVB-T Digital Modulator
- **Do not** expose any component to moisture. Doing so can create electrical hazards or render the component unusable. Exposure to moisture will also void the warranty on the system.
- Note:
  - Do not replace the power supply with a voltage greater than 12 VDC.
  - Do not connect the modulator to the power if the power cord is damaged.

Do not plug the modulator into the mains supply until all cables have been connected correctly.
 Do not cut the cord.

- · Avoid placing the modulator next to central heating components and in areas of high humidity.
- Do not cover any modulator elements that could obstruct the ventilation slots and cause overheating.
- If the modulator has been kept in cold conditions for a long time, keep it in a warm room no less than 2 hours before plugging it into the mains.
- Do not place digi-MOD HD on top or underneath a PVR Device, as this could cause overheating.

## **Setting Options**

Channel Output         21         21         6 /12 VHF - 21 - 69 UHF           Attenuator         0         0         020dB           Constellation         64QAM         64QAM         256QAM           Channel Type         STD         STD         HRC , IRC           RF Output         Normal         Inverted, C.W.         Brightness         128         0-255           Contrast         128         128         0-255         0         0         255           Staruation         128         128         0-255         0         0         255           Sharpness         64         64         0-127         0         0         255           Device Address         0         0         Adjustable         0         255           Device Address         0         0         Adjustable         0         255           Stream ID         1000         100         Adjustable         0         0         4djustable           Network ID         10         10         Adjustable         0         0         Adjustable           LCN Mode         APN         APN         EACEM, ITC, NorDig         Video Input         AUTO         Adjustable		DEF	AULT SETTINGS	
Channel Output         21         21         6 /12 VHF - 21 - 69 UHF           Attenuator         0         0         020dB           Constellation         64QAM         64QAM         256QAM           Channel Type         STD         STD         HRC , IRC           RF Output         Normal         Inverted, C.W.         Brightness         128         0-255           Contrast         128         128         0-255         0         0         -2055           Sturation         128         128         0-255         0         0         -255           Starpness         64         64         0-127         0         0         -255           Device Address         0         0         Adjustable         0         -255           Device Address         0         0         Adjustable         0         -255           Device Address         0         0         Adjustable         0         -255           Device Address         0         1000         1000         Adjustable         0           Network ID         100         100         Adjustable         0         0         -255         0           Video Input <t< th=""><th></th><th>RL-HD1000DM</th><th>RL-HD2000DM</th><th>OPTIONAL SETTING</th></t<>		RL-HD1000DM	RL-HD2000DM	OPTIONAL SETTING
Attenuator00000Constellation64QAM64QAM256QAMChannel TypeSTDSTDHRC, IRCRF OutputNormalNormalInverted, C.W.Brightness1281280Contrast1281280Sturation1281280Sharpness64640Hue1281280Device Address00AdjustableStream ID10001000AdjustableNetwork ID100100AdjustableORG Network ID1010AdjustableChannel NameRL - NETWORKRL - NETWORKAdjustableVideo InputAUTO100AdjustableChannel NameCHANNEL-1CHANNEL-1/CHANNEL-2AdjustableChannel NameCHANNEL-	No Inputs	1	2	
Constellation64QAM64QAM256QAMChannel TypeSTDSTDSTDHRC , IRCRF OutputNormalNormalInverted, C.W.Brightness1281280~255Contrast1281280~255Saturation1281280~255Sharpness64640~127Hue1281280~255Device Address00AdjustableStream ID10001000AdjustableNetwork ID100100AdjustableNetwork ID1010AdjustableCont NameRL - NETWORKRL - NETWORKAdjustableLCN ModeAPNAPNEACEM, ITC, NorDigVideo Input100100AdjustableChannel NameCHANNEL-1CHANNEL-1 / CHANNEL-2AdjustableLCN101101/102AdjustableChannel NameCHANNEL-1CHANNEL-1 / CHANNEL-2AdjustableLCN16:916:94:3Video OutputMPEG 2MPEG 2AVC (MPEG 4)HDCPEnableEnableDisableAudio InputAnalogAnalogCoaxial / Optical	Channel Output	21	21	6 /12 VHF - 21 - 69 UHF
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Hue1281280~255Device Address00AdjustableStream ID10001000AdjustableNetwork ID100100AdjustableORG Network ID1010AdjustableNetwork NameRL - NETWORKRL - NETWORKAdjustableLCN ModeAPNAPNEACEM, ITC, NorDigVideo InputAUTOAUTOHDMI / COMPONENT / COMPOSITEProgram Number100100AdjustableChannel NameCHANNEL-1CHANNEL-1 / CHANNEL-2AdjustableChannel NameCHANNEL-1CHANNEL-1 / CHANNEL-2AdjustableAutio OutputMPEG 2MPEG 2AVC (MPEG 4 )HDCPEnableEnableDisableAudio InputAnalogAnalogCoaxial / Optical	Saturation	128	128	0~255
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Channel Name     CHANNEL-1     CHANNEL-1/CHANNEL-2     Adjustable       LCN     101     101/102     Adjustable       Channel Name     CHANNEL-1     CHANNEL-1/CHANNEL-2     Adjustable       Channel Name     CHANNEL-1     CHANNEL-1/CHANNEL-2     Adjustable       Aspect Ratio     16:9     16:9     4:3       Video Output     MPEG 2     MPEG 2     AVC (MPEG 4)       HDCP     Enable     Enable     Disable       Audio Input     Analog     Analog     Coaxial / Optical	Video Input	AUTO	AUTO	
LCN101101 / 102AdjustableChannel NameCHANNEL-1CHANNEL-1 / CHANNEL-2AdjustableAspect Ratio16:916:94:3Video OutputMPEG 2MPEG 2AVC (MPEG 4 )HDCPEnableEnableDisableAudio InputAnalogAnalogCoaxial / Optical	Program Number	100	100	Adjustable
Channel Name     CHANNEL-1     CHANNEL-1 / CHANNEL-2     Adjustable       Aspect Ratio     16:9     16:9     4:3       Video Output     MPEG 2     MPEG 2     AVC ( MPEG 4 )       HDCP     Enable     Enable     Disable       Audio Input     Analog     Analog     Coaxial / Optical	Channel Name	CHANNEL-1	CHANNEL-1 / CHANNEL-2	Adjustable
Aspect Ratio     16:9     16:9     4:3       Video Output     MPEG 2     MPEG 2     AVC (MPEG 4)       HDCP     Enable     Enable     Disable       Audio Input     Analog     Analog     Coaxial / Optical	LCN	101	101 / 102	Adjustable
Video Output     MPEG 2     MPEG 2     AVC (MPEG 4 )       HDCP     Enable     Enable     Disable       Audio Input     Analog     Analog     Coaxial / Optical	Channel Name	CHANNEL-1	CHANNEL-1 / CHANNEL-2	Adjustable
HDCP         Enable         Enable         Disable           Audio Input         Analog         Analog         Coaxial / Optical	Aspect Ratio	16:9	16:9	4:3
Audio Input         Analog         Analog         Coaxia / Optical	Video Output	MPEG 2	MPEG 2	AVC (MPEG 4)
	HDCP	Enable	Enable	Disable
Audio Output         MP 2         MP 2         ACC / AC 3	Audio Input	Analog	Analog	Coaxial / Optical
	Audio Output	MP 2	MP 2	ACC / AC 3

## **Technical Specifications**

INPUT	RL-HD1000DM	RL-HD2000DM	
	HDMI Input (Video + Audio)	HDMI Input (Video + Audio)	
	Y,Pb, Pr Component Input (Video)	Y, Pb, Pr Component Input (Video)	
	Composite Input (Video)	Composite Input (Video)	
Input Connectors	L / R Channel Audio Input (Audio)	L / R Channel Audio Input (Audio)	
	Coaxial SPDIF Input (Digital Audio)	Coaxial SPDIF Input (Digital Audio)	
	Optical SPDIF Input (Digital Audio)	Optical SPDIF Input (Digital Audio)	
Video Input level	0.7-1.4V (Peak-to Peak)	0.7- 1.4V (Peak- to Peak)	
Audio Input	Stereo / Digital	Stereo / Digital	
Audio Input Level	0.4 - 4.8V (Peak-to Peak)	0.4 - 4.8V (Peak-to Peak)	
Input Impedance	75 Ω	75 Ώ	
OUTPUT			
Frequency Range	Local country available	Local country available	
Output Level	95 dBuV	95 dBuV	
Output Impedance	75 Ω	75 Ώ	
Channel Bandwidth	6, 7, 8 MHz	6, 7, 8 MHz	
Channel Level Adjustment	20 dB typ.	20 dB typ.	
MER	36 dB typ.	36 dB typ.	
MODULATION			
Video Resolution	MPEG 2: 1080i / 720p / 576i / 480p / 480i AVC (MPEG 4): as above PLUS 1080p	MPEG 2: 1080i / 720p / 576i / 480p / 480i AVC (MPEG 4): as above PLUS 1080p	
Video Compression	H.264 AVC / MPEG2 MP@ML	H.264 AVC / MPEG2 MP @ML	
Audio Compression	MPEG1 Layer II / LPCM / AC-3 Pass through	MPEG1 Layer II / LPCM / AC-3 Pass through	
LCN	Yes	Yes	
Carrier (OFDM Mode)	2K / 8K	2K / 8K	
Guard Intervals	1/4,1/8, 1/16, 1/32	1/4, 1/8, 1/16, 1/32	
Code Rate (FEC)	1/2, 2/3, 3/4, 5/6, 7/8	1/2, 2/3, 3/4, 5/6, 7/8	
Constellations	64 QAM / 256 QAM	64 QAM / 256 QAM	
GENERAL			
Power Supply	12 VDC 3 Amp	12 VDC 3 Amp	
Consumption	1250 mA	1650 mA	
Languages	English	English	
Dimentions	482.7mm x 240mm x 44.4mm (19" x9.45" x 1.75")	482.7mm x 240mm x 44.4mm (19" x 9.45" x 1.75")	
Weight	3.55 kg	3.75 kg	





#### WARRANTY

Vcomm Pty Ltd states that the warrant that the customer can rely on is that provided by the manufacturer. In the event of any warranty claim please contact us and we will forward it to the manufacturer. The manufacturer will then determine the extent of their liability. This expressly negates, to the extent possible by Australian law, any warranty reliance on Vcomm Pty Ltd.

