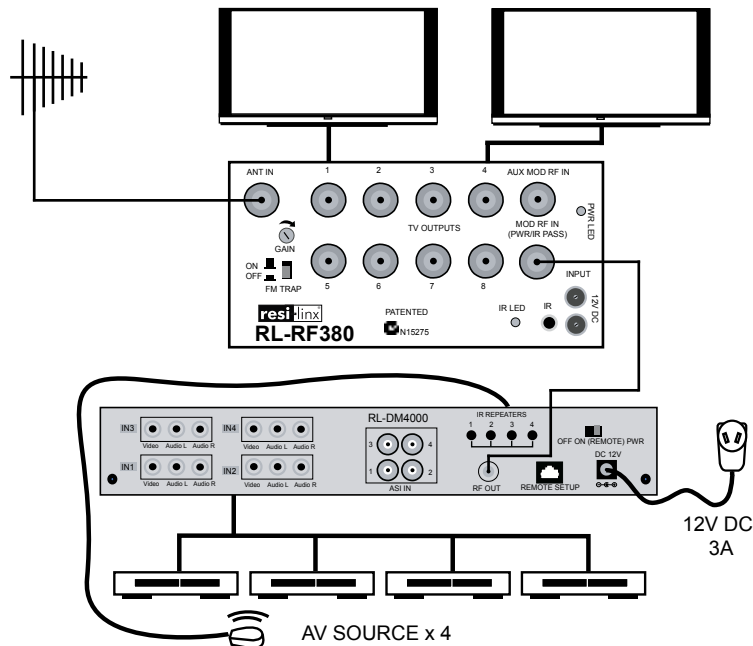
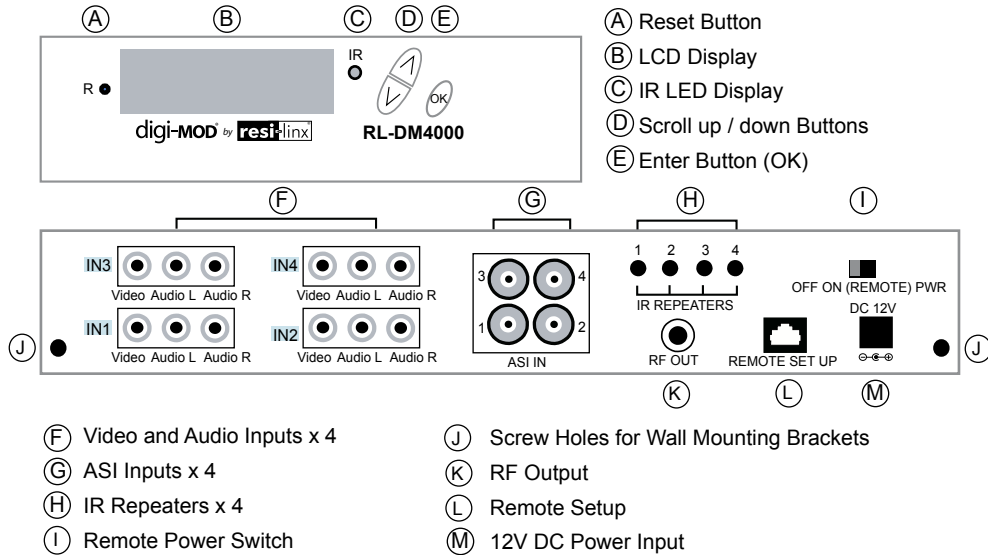


# Radio Frequency Range

## digimod RL-DM4000 Quad Input SD Digital DVB-T Modulator



### Technical Specifications

SETTINGS	DEFAULT SETTINGS	OPTIONAL SETTINGS
Channel Output	21 UHF	6 - 69 / E2 - E69
FEC (Forward Error Correction)	3/4	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/16	1/2, 1/4, 1/8, 1/16, 1/32
Constellation	64 QAM	16 QAM
OFDM Mode	8K	2K
RF Output	Normal	Inverted, C.W.
Video Input	PAL	NTSC
Brightness	128	0 - 256
Contrast	128	0 - 256
Saturation	128	0 - 256
Sharpness	64	0 - 128
Hue	128	0 - 256
Cell ID	0	Adjustable
Stream ID	1000	Adjustable
Network ID	100	Adjustable
ORG Net ID	10	Adjustable
Network Name	rl-network	Adjustable
Program Number	1000 / 2000 / 3000 / 4000	Adjustable
Channel Name	CHANNEL-1 / 2 / 3 / 4	Adjustable

INPUT		OUTPUT	
Video Input	CVBS / ASI	Output Level	105 dB V
Video Input Level	0.7 - 1.4 V (pp)	Output Impedance	75 Ohms
Video Mode	PAL / NTSC	Channel bandwidth	7 MHz / 8 MHz
Audio Input	Stereo	Output Level Adjustment	20 dB typ.
Audio Input Level	0.4 - 4.8 V (pp)	MER	>30 dB typ.
Input Connectors	Video (RCA) - Audio (RCA)	Connector Type	"F" female
Input Impedance	75 Ohms		
MODULATION		GENERAL	
Video Resolution	PAL 720 x 576 @ 25fps	Power Supply	12 Volts DC 3 Amps
Video Compression	MPEG2 MP@ML	Consumption	1.7 Amps
Audi Compression	MEPG1 Layer 2	Dimensions	300 x 200 x 47 (mm)
		Weight	1.86 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.

## 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, 103 and 104) to a different channel number (e.g. 4, 5, 6, 8) 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 Modulator.**

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

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

### OUTPUT CHANNEL

### STREAM ID

### CHANNEL NAME

### LCN

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

## Safety Precautions

- **Do not** apply power to the DVB-T Digital IR 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 IR 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.
- This modulator is powered with a voltage of 12 VDC. The power supply voltage must not exceed this, otherwise this modulator could suffer irreparable damage and subsequent invalidation of the warranty.

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 on top or underneath a PVR Device, as this could cause overheating.

## Hardware Connection

1. Connect the RCA cable from the video source (eg: Cable TV, Pay TV, DVD, VCR, Camera) to the yellow RCA Video Input (F) (Video) on the rear of the RL-DM4000 Modulator.
2. Connect the RCA cable from the audio source to the red/white Audio Inputs (E) (Audio L & R) on the rear of the RL-DM4000 Modulator.
3. Connect the RF Output (K) from the RL-DM4000 to the Modulator Input on the RF Distribution Module RL-RF380. Alternatively connect the RF Output (K) to an existing distribution system or directly to a television set.
4. Connect the supplied 12V DC Switch Mode Power Supply to the Power Input (M).
5. For ASI connect the cable from the source to the ASI Inputs (G) on the rear of the RL-DM4000 Modulator.
6. Repeat steps 1 - 3 for connection of other sources to AV Inputs IN2 - IN4.
7. Slide the Remote Power Switch (I) to “ON” if connecting the Modulator to a RL-RF380 Video Hub.
8. Connect IR emitters RL-IR700/800 to the outputs (H) on the rear of the RL-DM4000 Modulator. Place the other end within 25mm of the IR receiver on the AV source (depending on environmental conditions).

## Initial Startup

1. Power Up the digi-MOD
2. Enter Password “0000” and press “OK”
3. Wait until digi-MOD reads “Running” then enter the menu by selecting the “OK” button
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 output channel to suit your installation (40, 50, 60 etc.) Once you have scrolled and selected a channel number, Select “OK” to lock in the change
6. Change any other settings via the “MENU” as required (refer to **Technical Specifications**)
7. Once finished programming use the “UP” scroll button until the LCD display reads “ADVANCED MENU EXIT”, select “OK”
8. The LCD will now read “EXIT, EXIT MENU”. Select “OK”. The LCD display will now show “Running”
9. Auto Scan for Channels on the TV set with the digi-MOD connected and powered.
10. Sources for selected digi-MOD Channel selection, (e.g channel 40), are found on TV channels 101 (adjustable - refer to **Programming LCN**)

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

## **IMPORTANT NOTE:**

For remote programming instructions, please download from RL-DM4000 product page at [www.resi-linx.com](http://www.resi-linx.com)