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1. Rear Panel.



1. RF OUT: RF output terminal.
2. USB: USB 2.0, connect to USB for software upgrade or configuration data upgrade and backup.
3. HD IN: For HDMI signal input.
4. DC 12V/1A: For connection of an external 12V adapter.

2. Connection.

1. Connect an HDMI Cable from HDMI source device to the HD IN.
2. Connect an RF Cable from RF OUT to the RF network.
3. Connect the power supply to the DC 12V.

3. Front panel



1. Left button: Backward selection.
2. Right button: Forward selection.
3. Up button: List up selection.
4. Down button: List down selection.
5. MENU/OK: One time press: "MENU" button, two times press: "Confirm" button.
6. LOCK: 1. Locks the use of the buttons. "LOCK" led lights up when pressed one time for locking. To release lock state, press again.

4. Operating Instructions.

4.1 Output channel setup

Press "OK" button, and the LED display "CHXX". Press "UP" or "DOWN" button to select the desired output channel, press "OK" button and on the display appears "YES", press "OK" button again to confirm, if you don't want save, you can press "RIGHT" or "LEFT" button to select "NO".

Because the display is only 4 LED, cannot do more settings on modulator, for the other parameters, you can back up the configuration files (jedi_config.txt) to USB and edit it on PC, please refer to 4.5 in this document.

4.2 RF level setup

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “rF” option. Press “UP” or “DOWN” button to select RF level, press “OK” button and on the display appears “YES”, press “OK” button again to confirm, if you don’t want save, you can press “RIGHT” or “LEFT” button to select “NO”.

4.3 Turn off LED display

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “OFF” option. Press “UP” button to turn off the led display. Press “OK” button again to activate the led display again.

4.4 Reset to Factory default values

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “rSEt” option. Press “UP” button to start reset to factory default values. The display will appear “SUCC” when the procedure is completed.

4.5 Save configuration to USB

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “CFG” option. Press “UP” button to start saving process and then the display will appear “SUCC” when the procedure is completed.

4.6 Software Version

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “VEr” option. Press “UP” button to display the software version.

4.7 How to upgrade software or configuration file

- 1: Copy the “jedi.img” or “jedi_config.txt” file to the USB device.
- 2: POWER OFF the modulator.
- 3: Plug the USB device into USB port on the back of the device.
- 4: POWER ON the modulator.
- 5: When on the LED display appears “UP00”(means software) or “UP01”(means config file), press “OK” button to start upgrade process.

Upgrade procedure will finish after 10 seconds approximately.

WARNING! DO NOT power off the modulator while upgrading!! Damage to the device may occur!

If you do not want to upgrade software or configuration file, press “UP” or “DOWN” button to select “NO” and press “OK” button to end upgrade submenu.

5. Specification of Hardware.

Class	Sub class	Designation	Expected Features
Encoder	Processor	Processor frequency	Host CPU: 200MHZ 32Bits RISC Security Processor: 200Mhz 32Bits Audio Processor: 200MHZ 32Bits
	Memory	RAM	DDRII 16bit 512Mbits x1 (Embedded)
		Flash	NOR Flash 32Mbit x1
	Video	Video encoder	ISO/IEC 11172-2 MPEG1 ISO/IEC 13818-2 MPEG2 MP@HL ISO/IEC 14496 MPEG4 Compliant Support SP@L3 to ASP@L5 ISO/IEC 14496-10 AVC, HP@level4.1 , MP@level4.1 H.264 profile 0 JPEG base-line, progressive
		Aspect Ratio	16:9 wide screen, 4:3 letter box, 4:3 pan scan, support AFD(DTG, Ming DTG)
		Resolution	1080i, up to 1080p@30FPS
	Audio	Audio encoder	MPEGI layer1/2, MPEGII Layer II AAC LC, HE-AAC v1/v2 (2-CH)
Modulation		Output frequency range	174~233MHZ(VHFIII), 470~858MHZ(UHF)
		Output impedance	50Ω
		Output impedance(Loop to Output)	50Ω
		Forward Error Correction	1/2, 2/3, 3/4, 5/6, 7/8

		(FEC)	
		Guard Interval	1/4, 1/8, 1/16, 1/32
		Constellations	QPSK, 16QAM, 64QAM
		RF Output Level	Default: 90dBuV Adjustable: 0 to -14dB 0 to +6dB
		Band Wide	7MHZ(VHF), 8MHZ(UHF)
		FFT	2K, 8K
		Reed Solomon	202, 188, T=8
		Symbol rate range	Up to 31.668 MBPS
		MER	More than 35dB at Maximum RF Level output
		RF Output	Impedance: 50 Ohm Output type: F-type female
		USB Connector (software upgrade)	Number: 1 Type: Host 2.0
		HDMI Input	Number:1 High Definition Media Interface HDMI V 1.4a
		Power DC Input Connector	DC 12V, 1A
Front Panel	Display	Display	LED Display
	LED	Power & Work state LED	POWER/LOCKED/SIGNAL Indicator
	Buttons	Tact switch x6 (UP/ DOWN/ LEFT/ RIGHT, MENU/ OK, LOCK)	Set Output channel/ LED OFF/ Factory Reset etc.
Power Supply		Power supply unit type	Adapter Input: 100~240V AC Output: DC 5V 2.0A
		Power consumption in normal working mode	<10W
Mechanical Design	Demension	164(W)x104(D)x41(H) MM	
	Material	Metal cabinet	With enough heat radiation holes on cabinet

Specifications are subject to change without further notice.

The manufacturer does not assume any responsibility regarding any errors or mistakes in printing.

Please note that a new software may change the features of the receiver.

The manufacturer holds the rights of changes without any further notice.