

RMR-II

HD Upgradable Rack-Mount Receiver

FEATURES:

- High-quality 2.0 and 5.8 GHz Central Receive solution
- Single RF input (Type "N" connector)
- Ultra-sensitive reception to -92dBm (threshold)
- Auto-detects all encoded MPEG2 parameters
- Local and remote-controllable (via external 3rd party interface)
- Intuitive menu structure and navigation
- Unit outputs composite, component, SDI and ASI video formats
- Available analog, AES digital and embedded audio outputs
- External power supply

OPTIONS:

- 2.0 and 5.8 GHz bands (other bands upon request)
- Standard definition "out-of-the-box"
- Standard definition/high definition upgradable (additional charge)



The RMR-II, a MPEG2 COFDM central receive solution, is designed to meet the needs of today's fast-paced RF environment in ENG and fixed link applications.

The RMR-II can be locally controlled through the keypad or thumbwheel on the front panel, or is remote-controllable via serial data (RS-232) to 3rd party master control interfaces (such as NSI).

The standard RMR-II model delivers Standard Definition "out-of-the-box", but can be software upgraded to High Definition capability by our factory technicians for an additional charge. Once enabled, the unit provides seamless coverage when switched between SD and HD RF sources.

The unit can automatically detect the MPEG2 parameters modulated by a COFDM transmitter using 6, 7, or 8 MHz bandwidth. An LCD display provides full status indication of COFDM ensemble detected along with alarm and status indications.

Signal strength and CSI levels are graphically displayed by the backlit LCD alphanumeric display. The focus is on excellent sensitivity, strong adjacent channel rejection combined in a solid and robust package.

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Specifications:

Frequency Band	2.0 GHz and 5.8 GHz (other bands available)
Tuning Range / Frequency Selection	To accommodate FCC channel plans; up to 10 pre-set channels, tuning in 0.25 MHz steps, selectable via control panel
IF Frequencies:	1st IF In the range 600-1500 MHz (630 MHz Standard) 2nd IF 70 MHz (monitor port provided)
Receiver Noise Factor:	4dB (nom.)
Demodulation:	COFDM DVB-T (2k carrier)
Demodulation Modes:	QPSK, 16QAM, 64QAM (Auto) FEC: 1/2 2/3 3/4 5/6 7/8 (Auto)
Guard interval:	1/4 1/8 1/16 1/32 (Auto)
Data Rate:	4.98 to 31.7 Mbit/s (Auto Select)
Bandwidth:	8 MHz, 7 MHz, and 6 MHz (Auto or Manual)
Decoding Options:	MPEG2 (ISO/IEC 13818-2): 4:2:0/4:2:2 DVB-T
Latency:	Low or Standard Delay
Video Output:	
Digital:	HD-SDI SMPTE 292M (with HD Upgrade) SD-SDI SMPTE 259M ASI
Analog:	Composite NTSC/PAL Y/C component Standard (Rear Panel Port)
Genlock:	
Audio Output:	
Digital:	2x AES-3 SDI Embedded (SD, HD)
Analog:	2x stereo pairs
ASI Output:	ASI Transport Stream, 188/204/byte
Control and Monitoring:	Menu selectable via front control panel; COFDM demodulator/MPEG- 2 decoder parameters; CSI; Summary front panel alarm / comprehensive internal lock alarm
Power Supply:	11-18 VDC, 30 Watts
Physical:	
Size:	Rackmount, 3.5" H x 19" W x 14" D (8.9 x 48.3 x 35.6 cm)
Weight:	15.4 lbs. (7 kg)
Environmental:	Temperature: -20 to +50°C
Altitude:	14,500 ft (4,420 m)
Humidity:	95% long term



IMT reserves the right to make changes to specifications of products described in this datasheet at any time without notice and without obligation to notify any person of such changes.
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