RADIO







Available in 50W (1RU), 300W (2RU), 500W (2RU) and 1kW (2RU) with extremely simplified wiring

Repeatability of the performances, guaranteed by the completely mechanized assembling

High Signal/Noise ratio

Analogic telemetry signals available on Db9

RS232 (or RS485) connection for remote control unit

Automatic output power level control

All the final stages with MOSFET technology

Internal Standard Stereo Coder fitted Internal RDS Coder card option available

sales@n-com.com.au www.n-com.com.au The **MIZAR** FM Stereo Radio Transmitter is a leader in the global market of FM Transmitters.

MOTE 0

The display on the front panel can indicate the frequency and frequency changes, frequency step, forward and reflected power, amplifier temperature, modulation level, alarms, emphasis and remote control status.

The rear panel contains XLR balanced inputs each with input level controls, BNC for MPX output from internal stereo coder (optional), BNC for MPX input and 2 BNC for SCA operation. There is also a DB9 for wired external control and a DB9 for serial RS232 or RS485 (selectable) remote control.

As far as audio performances are concerned, only one world is needed: "transparent". With a signal-to-noise ratio of 80dB, the whole dynamics of modern digital audio are reproduced with high fidelity.

With a crosstalk of 60dB (with stereo option) there is excellent channel clarity.

The mains power input is via an EMI filtered connection.

The power amplifier is based on a modern MOSFET device.

An engineered air tunnel through the transmitter keeps cool air running right through the heat sink.

The amplifier is protected from damage by temperature controlled systems and antenna fault (SWR) monitoring. The switching type power supply automatically adapts itself to any input voltage from 80 to 260V.

Mizar

Technical characteristics

		RF SECTION	
NODELS:		Frequency Range, Frequency Step	87.5 - 108MHz, 10/50/100 kHz (from front panel)
OW (Mizar 50)			87.0 - 108MHz China, other bands on request
00W (Mizar 300)		Reference Stability	± 2.5ppm (0°C - 50°C)
· · ·		Nominal Output Power	50W / 300W / 500W / 1000W
• 500W (Mizar 500)		Power Level	0-100% (from front panel)
1000W (Mizar 1000)		Output Impedance / Connector	50 Ohms/N Female
		RF Monitor Level / Connector	-30dBc/BNC
		Off Lock Attenuation	> 60dB > 65dB
		Asynchronous AM S/N Ratio	
STEREO MODELS:		Synchronous AM S/N Ratio Spurious and Harmonic Suppression	> 60dB Meets or Exceeds all FCC and CCIR requirements
• 50W (Mizar 50S)		Modulation Capability	Meets or Exceeds all FCC and CCIR requirements
 300W (Mizar 300S) 			
• 500W (Mizar 500S)		AUDIO SECTION	
• 1000W (Mizar 1000S)		Audio Input Impedance	Balanced 600 Ohms/10k Ohms (jumper)
		Audio Input Connector	XLR
		Audio Input Level	2Vpp Nominal (±6dB adjustable from rear panel)
		Frequency Amplitude Response	± 0.5 dB 30Hz-15 kHz
Power Consumption	AirFlow	Harmonic Distortion	< 0.05% 30Hz-15 kHz
ZAR50 115VA		Pre-emphasis	Flat, 50ms, 75ms (ON/OFF from display, 50/75 from jumper
		S/N Ratio with CCIR Unweighted Filter	> 73 dB
AR300 600VA	120m³/h	S/N Ratio with CCIR Weighted Filter	> 73 dB
AR500 1kVA	120m³/h	Audio Input Impedance	
R1000 2kVA	250m³/h	Audio Input Connector	Balanced 600 Ohms/10k Ohms
		Audio Input Level	XLR
		MPX Output Connector / Impedance	2Vpp Nominal (±6dB adjustable from rear panel)
		MPX Output Level	BNC / 50 Ohms
		Frequency Amplitude Response	5.6Vpp ± 0.5dB 30Hz-15 kHz
		Harmonic Distortion	< 0.05% 30Hz-15 kHz
		Pre-emphasis	Flat, 50ms, 75ms (ON/OFF from display, 50/75 from jumper
		Stereo Separation	> 50dB (typ. 60dB) 30-15kHz
		S/N Ratio with CCIR Unweighted Filter	> 70 dB
		S/N Ratio with CCIR Weighted Filter	> 70 dB
		SCA Input Impedance	
		SCA Input Connector	10k Ohms
		Input Level	BNC 2Vpp Nominal for \pm 7.5 kHz deviation
		Frequency Amplitude Response	\pm 0.2dB 40-100 kHz
		Serial Interface	RS232/RS485 (internally selectable)
		Telemetry	Forward, Reflected, Alarm and On/Off control
			GENERAL
		AC Power Requirements	80 - 260V _{ac} 50/60Hz
		Dimensions / Weight	Rack 19" 1RU-6kg (50W) 2RU-9.5kg (300W)
			2RU-9kg (500W) 2RU-14kg (1000W)
		Ambient Temperature Range	-5°C to +45°C
N-con		Specifications and characteristics are subject to change without notice Rev.6/6.16p	

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