

FMX-100LCD

CD Quality

100 Watt FM Exciter



Armstrong FMX-100LCD is a state-of-the art, totally transparent FM exciter. In comparative hearing tests between a CD player and a FM signal heard through the FMX-100LCD exciter, listeners found no discernible difference.

Features

- 90 dB signal to noise ratio, 60 dB stereo separation
- 1-110 watts of output
- VSWR foldback
- Automatic Power Control at any power level
- Modular Design for easy servicing
- Broadband output amplifier, requires no tuning
- Field programmable to any frequency on the FM band
- Standard with mono, composite and 2 SCA inputs
- Remote controllable
- Ultra linear VCO and low noise VCO for transparent audio
- External reference input for phase locking ins synchronous operation
- External AGC input for controlling output of external amplifier



ARMSTRONG
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FMX-100LCD

TECHNICAL CHARACTERISTICS			
Electrical Characteristics		Mechanical and Environmental Characteristics	
RF Power Output	5-110 Watts	Dimensions	19.00" (483 mm) Wide 13.40" (340 mm) Deep 3.50" (88 mm) High
RF Power Impedance	50 Ohms	Weight	44 lbs (20 kg)
RF Output Connector	Type N Female	Shipping Weight	50 lbs (23 kg)
RF Frequency Range	88-108 Mhz	Cooling	Forced Air
RF Harmonic and Superious suppression	Meets or exceeds all FCC requirements	Operating Temprature	-10°C to 50°C
Frequency Resolution	10 Khz Steps	Humidity	95% maximum, non-condensing
Frequency Stability	+/- 400 Hz	Altitude	7500' (2300 m) max. above sea level
Modulation Type	Direct FM	Composite Operation	
Asynchronous AM S/N Ratio	>70 dB, 0.05%	MPX Input Connector	BNC Female
Synchronous AM S/N Ratio	>60 dB, 0.1%	MPX Input Impedance	10K Ohms
Transient Intermodulation	<0.1 % (0.05% typical)	MPX Input Level	3.6 dBm (1.3 V RMS, 3.5 V P-P)
AC Power Consumption	300 Watts	Composite FM S/N Ratio	>87 dB (90 dB typical)
AC Power Requirements	100-130 V, 50-60 Hz 198-250 V, 50-60 Hz	Composite FM Response	+/- 0.2 dB, 30 Hz to 100 Khz
Monaural Operation		Composite total Harmonic Distortion	<0.05 dB
Audio Input Connector	BNC Female/ Terminal Strip	Stereo Seperation	>60 dB
Audio Input Impedance	600 Ohm Unbalanced	Crosstalk	>65 dB (70 dB typical)
Audio Input Level	0 dBm (0.8 V RMS, 2.2 V P-P)	SCA Input Connectors	2 BNC Female
FM S/N Ratio	>87 dB (90 dB typical)	SCA Input Impedance	10K Ohms
Audio Frequency Response	+/- 0.5 dB, 30 Hz to 15 Khz	SCA Input Levels	3.6 dBm (1.3 V RMS, 3.5 V P-P)
Total Harmonic Distortion	<0.02%	SCA Amplitude Response	+/- 0.2 dB, 40 Khz to 100 Khz
Intermodulation Distortion	<0.02%	Crosstalk	67 Khz to main>65 dB 92 Khz to main>70 dB



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