

MX SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-30V **30 Watt VHF Transmitter / Translator**



***A Digital Transmitter
with Analog Front End***

DTV COMPATIBLE

***FREQUENCY AGILE
INPUT AND OUTPUT***

***AMPLIFIER FIELD TESTED
FOR DIGITAL SERVICE***

***BROADBAND,
CLASS AB AMPLIFIER***

***ADJACENT CHANNEL
OPERATION CAPABLE***

***LINEAR POWER SUPPLY
PROVEN RELIABILITY***

***FIELD TUNABLE
OUTPUT FILTERS***

LARCAN

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MX-30V SPECIFICATIONS

THE **MX Series** IS THE NEW STANDARD IN BROADCAST TRANSMITTERS. DESIGNED UPON THE PRINCIPLES OF

- SIMPLICITY
- RELIABILITY
- MODULARITY
- SERVICEABILITY

THEY ARE BUILT TO LAST. PERIOD.

BROADBAND DESIGN

WITH STATE-OF-THE-ART BROADBAND AMPLIFIERS, AND A FREQUENCY AGILE FRONT END, CHANNEL CHANGES COULDN'T BE EASIER. MINOR FIELD TUNING OF THE OUTPUT FILTER IS ALL THAT IS REQUIRED.

LINEAR POWER SUPPLY

RESPONSIBLE FOR PROVIDING DEPENDABLE, UNINTERRUPTED SERVICE WITH MINIMAL MAINTENANCE REQUIREMENTS AND MAXIMUM SURGE PROTECTION - TO KEEP YOU ON THE AIR.

FIELD TESTED FOR DIGITAL

THE AMPLIFIERS COME FROM THE LARCAN FIELD-TESTED GENERATION OF DTV TRANSMITTERS, WHICH MAKES THE **MX Series** THE EQUIPMENT OF CHOICE FOR THE FUTURE.

Due to continuous product improvements, specifications subject to change without notice.

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	NTSC	TRANSMITTER	TRANSLATOR
OUTPUT		Power: 30 Watts, peak visual 10% Aural	30 Watts, peak visual 10% Aural
		Frequency: Low Band VHF; Channels 2-6 (54-88MHz) High Band VHF Channels 7-13 (174-216MHz)	Low Band VHF; Channels 2-6 (54-88MHz) High Band VHF Channels 7-13 (174-216MHz)
		Output Connector: 50 ohm, type 'N'	50 ohm, type 'N' 75 ohm, type 'F' available
INPUT		Input Frequency: baseband, comp. NTSC video	All VHF and UHF channels
		Input Level: 0.5 to 1.5 Vp-p	1 mV, +/-20dB (<1dB output change for 40dB input change)
		Input Connector: 75 ohm, type "F"	75 ohm, type "F"
PERFORMANCE		Response: ± 1.5dB between carriers	± 1.5dB between carriers
		Frequency Stability: ± 0.02% over temperature range High stability option available	± 0.02% over temperature range High stability option available
		Harmonic Radiation: - 60dBc	- 60dBc
		Spurious Products: - 50dBc	- 50dBc
		Three Tone IMD: > - 52dBc	> - 52dBc
VIDEO		Differential Phase: ≤ 3°	≤ 3°
		Differential Gain: ≤ 5%	≤ 5%
		2T K-factor: ≤ 2.5%	≤ 2.5%
		Group Delay: Per FCC specification	± 30ns maximum
		ICPM: ≤ 2°	≤ 2°
		AM Noise: ≥ - 50dBc	≥ - 50dBc
AUDIO		Distortion: ≤ 1% (0.2% typ.) 50Hz to 15kHz	≤ 1% (0.2% typ.) 50Hz to 15kHz
		Hum and Noise: 55dB below 25kHz deviation	55dB below 25kHz deviation
		Response: ± 1.0dB, 50Hz to 15kHz	± 1.0dB, 50Hz to 15kHz
GENERAL		Power Requirement 330VA at 95 to 130VAC, 50/60Hz	330VA at 95 to 130VAC, 50/60Hz
		Dimensions: 7" x 19" x 17-1/8" (H x W x D) (178mm x 483mm x 435mm)	7" x 19" x 17-1/8" (178mm x 483mm x 435mm)
		Temperature Range: 0 to 45° C, recommended. Tested at -30° to +50° C.	0 to 45° C, recommended. Tested at -30° to +50° C.
		Options: CCIR Channels and IF Frequencies. Channel 3 or 4 IF for USA Applications. 4.5MHz Aural Subcarrier Input, Dual Input Automatic Switching.	