

# **MX SERIES**

the evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## **MX-10V**

**10 Watt VHF Translator/Transmitter**

**DTV COMPATIBLE**



**FREQUENCY AGILE**  
INPUT AND OUTPUT

**ADJACENT CHANNEL**  
OPERATION CAPABLE

**AMPLIFIER FIELD TESTED**  
FOR DIGITAL SERVICE

**LINEAR POWER SUPPLY**  
PROVEN RELIABILITY

**BROADBAND,**  
CLASS AB AMPLIFIER

**FIELD TUNABLE**  
OUTPUT FILTERS

**LARCAN TTC**  
A MEMBER OF THE  **LeBLANC** GROUP

1390 OVERLOOK DRIVE #2 • LAFAYETTE, CO 80026

PHONE: 303.665.8000 • FAX: 303.673.9900 • E-MAIL: SALES@LARCAN.COM

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## MX-10V 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 (WITHIN HIGH OR LOW BAND VHF), AND A FREQUENCY AGILE FRONT END, CHANNEL CHANGES COULDN'T BE EASIER. MINOR FIELD TUNING OF THE OUTPUT FILTER IS ALL THAT IS REQUIRED. WITH SAW FILTER SIGNAL PROCESSING, A CLEAN SIGNAL IS ENSURED.

### LINEAR, REGULATED 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. STANDARD LARCAN-TTC 2-YEAR WARRANTY APPLIES.  
©1999 LARCAN-TTC

		TRANSMITTER	TRANSLATOR
OUTPUT	Power:	10 Watts, peak visual 10% Aural	10 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	1mV ± 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
VIDEO	Spurious Products:	-50dBc	-50dBc
	Three Tone IMD:	-52dBc	-52dBc
	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°
AUDIO	AM Noise:	≥ -50dBc	≥ -50dBc
	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:	275VA at 107 to 110VAC 50/60Hz	275VA at 107 to 110VAC 50/60Hz
	Dimensions: (H x W x D)	7" x 19" x 17-1/8" (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 -30° to +50° C	0 to 45° C, recommended tested -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.	

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