

# **MX SERIES**

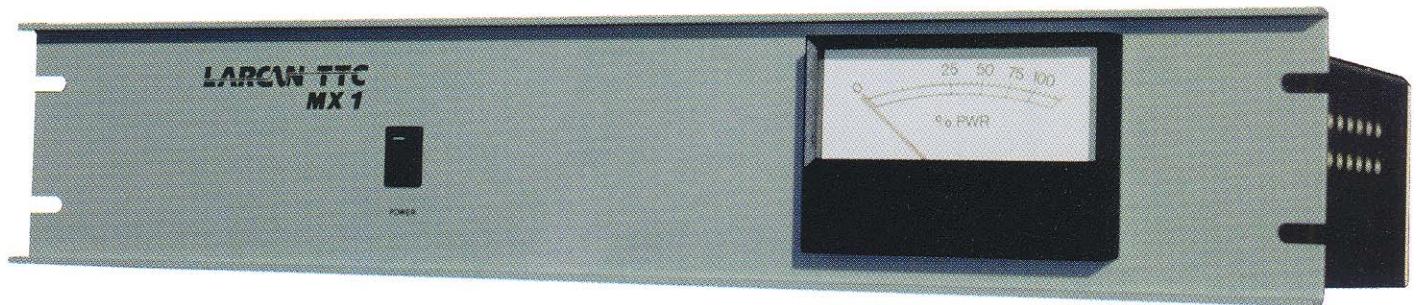
the evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## **MX-1 V**

**1 Watt VHF Translator/Exciter**

**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



# MX SERIES

the evolution of 40+ years of experience

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## MX-1 V 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.  
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	<b>EXCITER</b>	<b>TRANSLATOR</b>
<b>OUTPUT</b>	<b>Power:</b> 1 Watt, peak visual 10% Aural	1 Watt, peak visual 10% Aural
	<b>Frequency:</b> 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)
	<b>Output Connector:</b> BNC	BNC 75 ohm, type "F"
<b>INPUT</b>	<b>Input Frequency:</b> baseband, comp. NTSC video	All VHF and UHF Channels
	<b>Input Level:</b> 0.5 to 1.5 Vp-p	1mV ± 20dB (< 1dB output change for 40dB input change)
	<b>Input Connector:</b> 75 ohm, type "F"	75 ohm, type "F"
<b>PERFORMANCE</b>	<b>Response:</b> ± 1.5dB between carriers	± 1.5dB between carriers
	<b>Frequency Stability:</b> ± 0.02% over temperature range High stability option available.	± 0.02% over temperature range High stability option available.
	<b>Harmonic Radiation:</b> -60dBc	-60dBc
	<b>Spurious Products:</b> -50dBc	-50dBc
	<b>Three Tone IMD:</b> -52dBc	-52dBc
<b>VIDEO</b>	<b>Differential Phase:</b> ≤ 3°	≤ 3°
	<b>Differential Gain:</b> ≤ 5%	≤ 5%
	<b>2T K-factor:</b> ≤ 2.5%	≤ 2.5%
	<b>Group Delay:</b> Per FCC specification.	± 30ns maximum
	<b>ICPM:</b> ≤ 2°	≤ 2°
	<b>AM Noise:</b> ≥ -50dBc	≥ -50dBc
<b>AUDIO</b>	<b>Distortion:</b> ≤ 1% (0.2% typ.) 50Hz to 15kHz	≤ 1% (0.2% typ.) 50Hz to 15kHz
	<b>Hum and Noise:</b> 55dB below 25kHz deviation	55dB below 25kHz deviation
	<b>Response:</b> ± 1.0dB, 50Hz to 15kHz	± 1.0dB, 50Hz to 15kHz
<b>GENERAL</b>	<b>Power Requirement:</b> 95VA at 107 to 110VAC 50/60Hz	95VA at 107 to 110VAC 50/60Hz
	<b>Dimensions:</b> 5-1/4" x 19" x 10-1/2" (133mm x 483mm x 267mm)	5-1/4" x 19" x 10-1/2" (133mm x 483mm x 267mm)
	<b>Temperature Range:</b> 0 to 45° C, recommended tested -30° to +50° C	0 to 45° C, recommended tested -30° to +50° C
	<b>Options:</b> 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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