

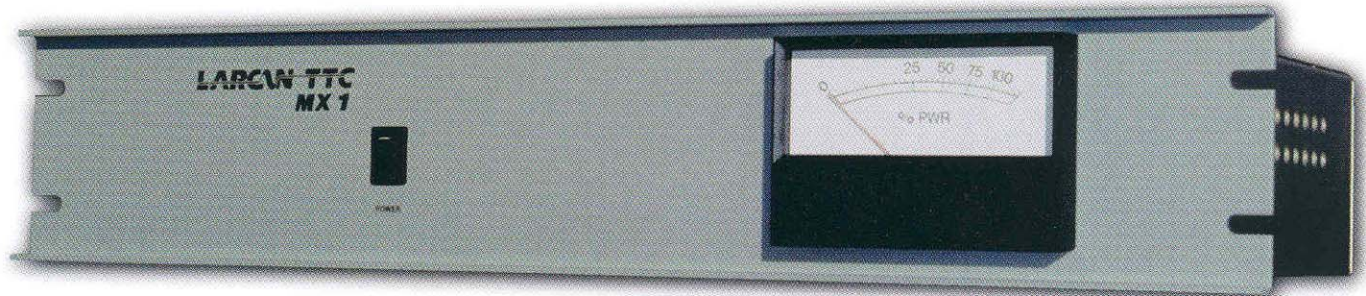
MX SERIES

the evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-1U

1 Watt UHF Translator/Exciter
DTV COMPATIBLE



FREQUENCY AGILE
INPUT AND OUTPUT

ADJACENT CHANNEL
OUTPUT OPTION AVAILABLE

AMPLIFIER FIELD TESTED
FOR DIGITAL SERVICE

LINEAR POWER SUPPLY
PROVEN RELIABILITY

BROADBAND,
CLASS A AMPLIFIER

FIELD TUNABLE
OUTPUT FILTERS

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

1390 OVERLOOK DRIVE • LAFAYETTE, CO 80026
PHONE: 303.665.8000 • FAX: 303.673.9900 • WWW.LARCAN.COM

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MX-1U SPECIFICATIONS

THE **MX Series** IS THE NEW STANDARD IN BROADCAST TRANSLATORS AND 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. 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.

	EXCITER	TRANSLATOR
OUTPUT	Power: 1 Watt, peak visual 10% Aural	1 Watt, peak visual 10% Aural
	Frequency: Channels 14 – 69 (470 – 806 MHz)	Channels 14 – 69 (470 – 806 MHz)
	Output Connector: 50 ohm, BNC	50 ohm, BNC
INPUT	Input Frequency: baseband, comp. NTSC video	All VHF and UHF Channels
	Input Level: 0.5 to 1.5 Vp-p	1mV -10 to +30 (< 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: ± 1.0kHz over temperature range	± 1.0kHz over temperature range
	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: 85VA at 107 to 110VAC 50/60Hz	85VA at 107 to 110VAC 50/60Hz
	Dimensions: 5-1/4" x 19" x 17-1/8" (H x W x D) (133mm x 483mm x 435mm)	5-1/4" x 19" x 17-1/8" (133mm 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

DUE TO CONTINUOUS PRODUCT IMPROVEMENTS, SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. STANDARD LARCAN-TTC 2-YEAR WARRANTY APPLIES.

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