

MX SERIES

the evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-30V

30 Watt VHF Translator/Transmitter
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 TTC

A MEMBER OF THE  **LeBLANC GROUP**

1390 OVERLOOK DRIVE • LAFAYETTE, CO 80026

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

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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, (WITHIN HIGH OR LOW BANDS 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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	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	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
	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 107 to 110VAC 50/60Hz	330VA at 107 to 110VAC 50/60Hz
	Dimensions: 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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