

## MX-10V 10 Watt VHF Transmitter | Translator



# A Digital Transmitter with Analog Front End DTV CDMPATIBLE

FREQUENCY AGILE
INPUT AND DUTPUT

AMPLIFIER FIELD TESTED
FOR DIGITAL SERVICE

BROADBAND, CLASS AB AMPLIFIER ADJACENT CHANNEL

OPERATION CAPABLE

LINEAR POWER SUPPLY
PROVEN RELIABILITY

FIELD TUNABLE

OUTPUT FILTERS



SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

#### 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.

### **MX-** 10 V SPECIFICATIONS

10 Watts, peak visual **OUTPUT** Power: 10 Watts, peak visual 10% Aural

10% Aural Low Band VHF;

Channels 2-6 (54-88MHz) Channels 2-6 (54-88MHz)

High Band VHF Channels 7-13 (174-216MHz) Channels 7-13 (174-216MHz)

50 ohm, type 'N' 75 ohm, type 'F' available

All VHF and UHF channels **INPUT** Input Frequency: baseband, comp. NTSC video

> 1 mV +/-20dB (<1dB output change for 40dB

input change)

75 ohm, type "F" Input Connector: 75 ohm, type "F"

+ 1.5dB between carriers Response: ± 1.5dB between carriers

± 0.02% over temperature range

High stability option available High stability option available

- 60dBc - 60dBc **Spurious Products:** - 50dBc - 50dBc

> - 52dBc Three Tone IMD: > - 52dBc

**VIDEO** Differential Phase: ≤ 3° < 3°

> ≤ 5% Differential Gain: ≤ 5%

> > ≤ 2.5% **2T K-factor:** < 2.5%

Group Delay: Per FCC specification + 30ns maximum

ICPM: < 2° < 2°

> - 50dBc AM Noise: ≥ - 50dBc

**AUDIO Distortion:**  $\leq 1\%$  (0.2% typ.) 50Hz to 15kHz  $\leq$  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** 275VA at 95 to 130VAC, Power Requirement 275VA at 95 to 130VAC, 50/60Hz

50/60Hz

7" x 19" x 17-1/8" Dimensions: 7" x 19" x 17-1/8"

(178mm x 483mm x 435mm) (H x W x D) (178mm x 483mm x 435mm)

Temperature Range: 0 to 45° C, recommended. 0 to 45° C, recommended.

Tested at -30° to +50° C. Tested at -30° to +50° C.

CCIR Channels and IF Frequencies. Channel 3 or 4 IF for USA Options:

Applications. 4.5MHz Aural Subcarrier Input, Dual Input Automatic Switching.

Frequency: Low Band VHF; High Band VHF Output Connector: 50 ohm, type 'N' Input Level: 0.5 to 1.5 Vp-p **PERFORMANCE** Frequency Stability: ± 0.02% over temperature range Harmonic Radiation:

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

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