

# **MX SERIES**

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## **MX-1000U** **1 kW UHF Transmitter**



***A Digital Transmitter  
with Analog Front End***

***DTV COMPATIBLE***

***AMPLIFIER FIELD TESTED  
FOR DIGITAL SERVICE***

***BROADBAND,  
CLASS AB AMPLIFIER***

***ADJACENT CHANNEL  
OPERATION CAPABLE***

***FERRORESONANT  
POWER SUPPLY  
PROVEN RELIABILITY***

***FIELD TUNABLE  
OUTPUT FILTERS***

**LARCAN**

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## MX-1000U 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, AND A FREQUENCY AGILE FRONT END, CHANNEL CHANGES COULDN'T BE EASIER. MINOR FIELD TUNING OF THE OUTPUT FILTER IS ALL THAT IS REQUIRED.

### FERRORESONANT 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 DIGITAL EQUIPMENT OF CHOICE FOR THE FUTURE.

### NTSC

#### OUTPUT

**Power:** 1000 Watts, peak visual power  
100 Watt Aural

**Frequency:** Channels 14 - 69  
(470 - 806 MHz)

**Output Connector:** 50 ohm, 7/8" EIA

#### INPUT

**Input Impedance:** 75 ohm (unbalanced)

**Input Level:** 0.5 to 2.0 Volts p-p

#### PERFORMANCE

**Response:** -3.58..... -42dB  
-1.25 and lower..... -20dB□

Carrier to -0.5 MHz: ..... +/- 0.5 dB□

Carrier to +200 MHz: ..... 0 dB Ref□

Carrier to +4.0MHz: ..... +/- 0.5 dB□

4.0 MHz to 4.18 MHz: ..... +0.5 - 1.0 dB□

4.7 MHz to 7.75 MHz: ..... - 40 dB

**Frequency Stability:** ± 200 Hz

**Harmonic Radiation:** - 80dBc

**Three Tone IMD:** > - 53dB

#### VIDEO

**Differential Phase:** ≤ 1°

**Differential Gain:** ≤ 3%

**2T K-factor:** ≤ 1% baseline disturbance

**ICPM:** ≤ 2°

**Video Noise:** - 55 dB□

**FM Noise:** - 58 dB□

#### AUDIO

**AM Noise:** - 60dBc

**Distortion:** ≤ 0.5%, 50Hz to 15kHz

**Response:** ± 0.5dB, 50Hz to 15kHz

#### GENERAL

**Power Requirements:** 5400W at 185 to 250VAC,  
50/60Hz

**Dimensions:** 78" x 23-1/8" x 32"  
(1981mm x 587mm x 813mm)

**Temperature Range:** 0 to 45° C, recommended.  
Tested at -30° to +50° C

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

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