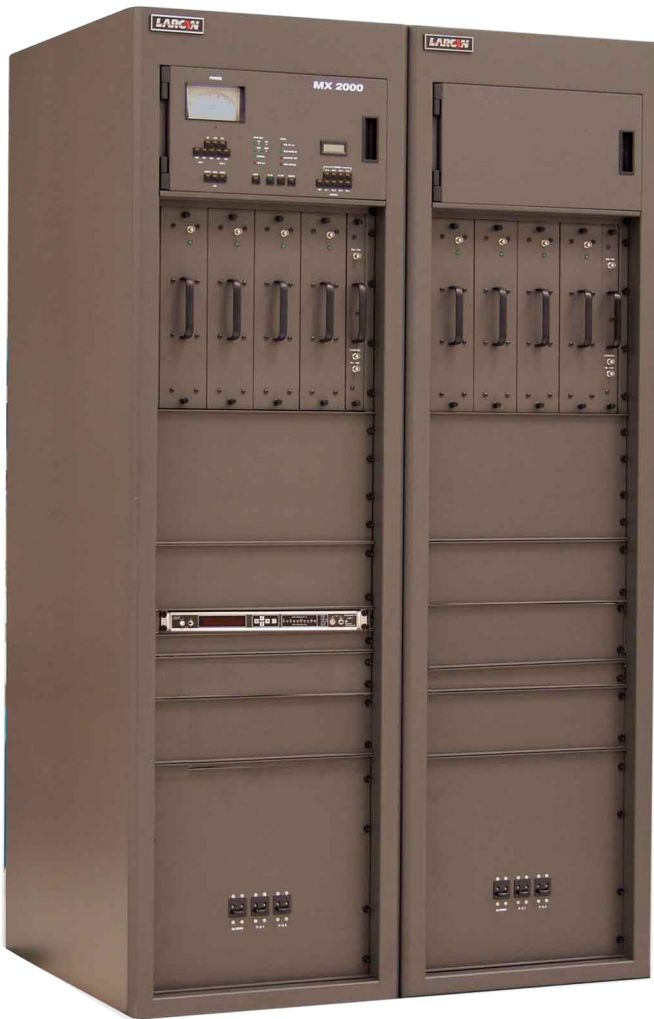


# **MX SERIES**

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## **MX-2000U** **UHF Transmitter / Translator**



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

***DTV COMPATIBLE***

***FREQUENCY AGILE  
INPUT AND OUTPUT***

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

***BROADBAND,  
CLASS AB AMPLIFIER***

***ADJACENT CHANNEL  
OPERATION CAPABLE***

***FERRORESONANT  
POWER SUPPLY  
PROVEN RELIABILITY***

***FIELD TUNABLE  
OUTPUT FILTERS***

**LARCAN**

# MX SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## MX-2000U 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 LARGAN FIELD-TESTED GENERATION OF DTV TRANSMITTERS, WHICH MAKES THE **MX Series** THE EQUIPMENT OF CHOICE FOR THE FUTURE.

### NTSC

### TRANSMITTER

### TRANSLATOR

#### OUTPUT

**Power:** 2000 Watts, peak visual  
10% Aural

2000 Watts, peak visual  
10% Aural

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

Channels 14 - 69  
(470 - 806 MHz)

**Output Connector:** 50 ohm, 1 5/8" EIA

50 ohm, 1 5/8" EIA

**Input Frequency:** baseband, comp. NTSC video

All VHF and UHF channels

#### INPUT

**Input Level:** 0.5 to 1.5 Vp-p

1 mV, -10 to +30dB  
(<1dB output change for 40dB  
input change)

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

75 ohm, type "F"

#### PERFORMANCE

**Response:**  $\pm 1.0$ dB between carriers

$\pm 1.0$ dB between carriers

**Frequency Stability:**  $\pm 1.0$ kHz over temperature range

$\pm 1.0$ kHz over temperature range

**Harmonic Radiation:** -60dBc

-60dBc

**Spurious Products:** -60dBc

-60dBc

**Three Tone IMD:** > -50dBc

> -50dBc

#### VIDEO

**Differential Phase:**  $\leq 3^\circ$

$\leq 3^\circ$

**Differential Gain:**  $\leq 5\%$

$\leq 5\%$

**2T K-factor:**  $\leq 2\%$

$\leq 2\%$

**Group Delay:** Per FCC specification

Per FCC specification

**ICPM:**  $\leq 2^\circ$

$\leq 2^\circ$

**AM Noise:**  $\geq -50$ dBc

$\geq -50$ dBc

#### 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:**  $\pm 1.0$ dB, 50Hz to 15kHz

$\pm 1.0$ dB, 50Hz to 15kHz

#### GENERAL

**Power Requirement** 11kW at 185 to 250VAC,  
50/60Hz

11kW at 185 to 250VAC,  
50/60Hz

**Dimensions:** 78" x 46 1/4" x 32"  
(H x W x D) (1981mm x 1174mm x 813mm)

78" x 46 1/4" x 32"  
(1981mm x 1174mm x 813mm)

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

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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