

MX SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-1000U **1 kW 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

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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 EQUIPMENT OF CHOICE FOR THE FUTURE.

NTSC

TRANSMITTER

TRANSLATOR

OUTPUT

Power: 1000 Watts, peak visual
10% Aural

1000 Watts, peak visual
10% Aural

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

Channels 14 - 69
(470 - 806 MHz)

Output Connector: 50 ohm, 7/8" EIA

50 ohm, 7/8" 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: ± 1.0 dB between carriers

± 1.0 dB between carriers

Frequency Stability: ± 1.0 kHz over temperature range

± 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: ≥ -50 dBc

≥ -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: ± 1.0 dB, 50Hz to 15kHz

± 1.0 dB, 50Hz to 15kHz

GENERAL

Power Requirement 5400W at 200 to 240VAC,
50/60Hz

5400W at 200 to 240VAC,
50/60Hz

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

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

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.

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