

MX SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

MX-2000U **UHF Transmitter**



* MX2000U SHOWN WITH
DUAL EXCITER OPTION

***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-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 LARCAN FIELD-TESTED GENERATION OF DTV TRANSMITTERS, WHICH MAKES THE **MX Series** THE DIGITAL EQUIPMENT OF CHOICE FOR THE FUTURE.

NTSC

OUTPUT

Power: 2000 Watts, peak visual power
200 Watt Aural

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

Output Connector: 50 ohm, 1-5/8" 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: 11kW at 185 to 250VAC,
50/60Hz

Dimensions: 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.

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

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