

# M SERIES

Analog Solid State VHF Transmitter  
250watts to 80kW and beyond



M SERIES 30KW MODEL SHOWN

## M Series: The Evolution of Absolute Performance

Trusted, tested and true - LARCAN's M Series combines technological innovation with our renowned expertise and experience in broadcast solutions worldwide.

M Series is the original in state-of-the-art high power broadcast technology. Its reputation for delivering the absolute in performance is the result of our commitment to providing you with optimized solutions.

Performance-driven to ensure you a solid broadcast signal - M Series is the ultimate in design simplicity and dependability.

M Series: Design Simplicity and Performance Innovation Defined.

*Experience Analog at its Best.*

Choose 250watts to 80kW and beyond!

- Accepted World Standard
- The Ultimate in Design Simplicity
- Highly Linear Solid State Broadband PA Modules
- High Power Stripline Combining Techniques
- Rugged Linear Power Supplies
- Reliable with Proven Dependability
- Modular for Ease of Service
- Extensive Monitoring & Diagnostics
- Versatile 'Pull-thru' cooling system design simplifies installation
- Custom Solutions and configurations to fit your needs

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Analog Solid State VHF Transmitter

## LOOK TO LARCAN FOR TRULY MADE TO MEASURE SOLUTIONS

LARCAN's M Series is 'customer-fit' engineered to produce a superior analog signal - Loud and Clear, every time. M Series is the definitive in solid state design - the evolution of absolute performance.

M Series includes a full range of high performance TV broadcast transmitters -using LARCAN's own proven Solid State and broadband technologies.

M Series integrates our simple and innovative approach to solid state design to deliver customized solutions fit to your specific needs. Field proven worldwide, our M Series is a rugged and renowned choice for broadcasters - everywhere.

A high performance solution for your broadcast needs - M Series delivers uncompromised quality, reliability, and serviceability. Field proven for digital broadcasting, we provide optimum strength for your analog signal - making your future transition to digital a smooth and successful one.

Looking for a Better Fit?  
*We hear you. Loud and clear.*



**LARCAN**  
Leaders in Stripline  
Technology

**LARCAN**  
We hear you. Loud and clear.

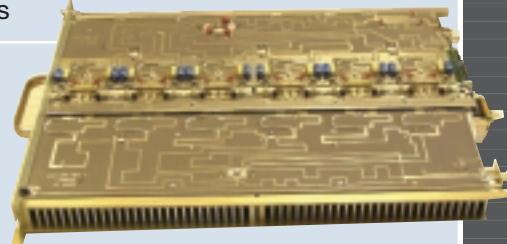
### M Series 60kW Specifications

#### NTSC Transmitter

|             |   |  |
|-------------|---|--|
| Output      | Power<br>Frequency<br>Output Connector  | 60kW Visual / 6.0kW Aural<br>54-88 MHz / 174-216 MHz<br>4 1/16" EIA Unflanged                              |
| Input       | Input Impedance<br>Input Level  | 75 ohms, unbalanced<br>0.5 to 2.0 V p-p  |
| Performance | -3.58 MHz<br>-1.25 MHz and lower<br>Carrier to -0.5 MHz<br>Carrier to +200 kHz<br>Carrier to +4.0 MHz<br>4.0 MHz to 4.18 MHz<br>4.75 MHz to 7.75 MHz<br>Frequency Stability<br>Harmonic Radiation | -42 dB<br>-24 dB<br>+0.5 dB<br>0 dB (ref)<br>$\pm 0.5$ dB<br>0.5-1.0 dB<br>-40 B<br>$\pm 200$ Hz<br>-80 dB |
| Video       | Differential Phase<br>Differential Gain<br>Variation with Brightness<br>2T Pulse Response<br>ICPM<br>Video Noise  | $\pm 1^\circ$<br>3%<br>$\pm 0.5$ dB<br>1%<br>$\pm 2^\circ$<br>-55 dB                                       |
| Audio       | FM Noise<br>AM Noise<br>Distortion<br>Response  | -62 dB<br>-60 dB<br>0.5%<br>$\pm 0.5$ dB   |
| General     | Power Requirements<br>Voltage<br>Temp Range   | 136kW Black Picture<br>200 to 242 VAC 3 Phase 4 wire<br>0 to +45° C  |
| Dimensions  | Height<br>Width<br>Depth  | 78.75 inches<br>192.25 inches<br>44 inches   |

Each of our Analog VHF transmitters are designed with LARCAN's world-renowned broadband solid state technology, FET-based amplifiers and unique broadband stripline combining techniques.

The result is innovation - unprecedented levels of power density and superior linearity.



**LARCAN Broadband  
Solid State Technology**

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