1190 Series
FM Panel Antenna Systems

ERI’s 1190 Series FM Panel Antenna Systems are designed to combine the benefits of wideband performance and versatility with low weight and wind load, giving broadcasters a competitive edge in coverage performance in an antenna that can be deployed economically. Available power handling up to 150 kW makes the 1190 an excellent choice for single station applications, for large faced towers or challenging directional antenna patterns.

The 1190 is ruggedly built, from galvanized and stainless steel, and is designed to withstand many years of service in a harsh environment. The design incorporates ERI’s field-proven cross dipole elements for circularly polarized operation. The 1190 element features an integrated hybrid power divider that feeds the left and right slant dipoles, in proper phase, from a single input – this simplifies the antenna feed system and improves reliability. Antenna system components are custom-selected to optimize azimuth and elevation pattern performance while minimizing weight and wind load for each specific requirement. Excellent circularity can be achieved in the azimuth pattern for omnidirectional antenna systems, and directional patterns are also available to optimize coverage for stations licensed for directional operation.

Icing protection is achieved with the use of a fiberglass balun cover. The small surface area of this cover is largely responsible for the low wind load of this antenna.

ERI’s engineers work to design each 1190 Series FM Panel Antenna System to address the specific circumstances of its application, including both electrical and structural aspects. Our goal is to provide you with high performance, design flexibility, reliability, and affordability and, at ERI, we have the experience and expertise to satisfy your most challenging requirements.

Benefits
• Designed for coverage – excellent azimuth and elevation pattern performance
• Rugged galvanized steel construction
• Minimal weight and wind load
• Single station or multiple station operation
• Power handling provides ample options for flexible utilization
• Omnidirectional or directional patterns available
Around the World, Across the Spectrum, 
Your Single Source For Broadcast Solutions

About Electronics Research, Inc.

Founded in 1943, Electronics Research, Inc. delivers high quality, innovative, integrated solutions to broadcasters across the U.S. and around the world. Our dedicated staff of engineers, designers, fabricators, and project managers take pride in contributing to your success by providing AM, FM, VHF, UHF, BRS-EBS, and Mobile Media broadcast systems including the industry’s best antenna, transmission line, filter/combiner, and tower and structural support systems. In addition to manufacturing the full range of broadcast system components and installation accessories, ERI offers a suite of engineering and field services needed to plan, install, optimize, and maintain your broadcast facility. We are your single source for broadcast solutions.

Broadcast Antenna Systems

- ROTOTILLER® FM Antenna
- LYNX™ Dual Input Antenna for FM-IBOC
- 1105 Circularly Polarized FM Antenna
- 100A Series Low Power Circularly Polarized FM Antenna
- FM Low Power Horizontally Polarized Educational FM Antenna
- P300/P350 Series Vertically Polarized FM Antenna
- 1180 and 1090 Series Broadband Panel FM Radio Antenna
- SLIMWING™ Batwing VHF Television Antenna
- CRUCIS™ Crossed Dipole VHF Television Antenna
- STINGRAY™ Broadband Television Panel Antenna
- TRASAR® High Power Traveling Wave Television Antenna
- AGW Quick-Deploy Emergency UHF Television Antenna
- ALP Low and Medium Power UHF Television Antenna
- AL PLUS Low and Medium Power UHF Television Antenna
- AL Series Low Power UHF Television Antenna
- HMD BRS-EBS Antenna
- SHADOWMASTER® Shadow-Filling BRS-EBS Antenna

Transmission Line Systems

- MACXLine® Rigid Transmission Line with Bellows
- HELIAX® Air- and Foam-dielectric Coaxial Cable
- HELIAX® Standard Elliptical Waveguide
- GUIDELine® Circular Waveguide
- Standard Rectangular Waveguide
- Dehydrators and Pressurization Equipment

Filter and Combining Systems

- FM Radio Filter and Combining Systems
- UHF and VHF Television Filter and Combining Systems
- DAB Filter and Combining Systems
- Mobile Media Filter and Combining Systems
- RF Components
- System Monitoring and Protection Components

Structural Support Systems

- Guyed Towers
- Self-Supporting Towers
- Roof-top Antenna Support Structures
- Specialty Structures and Custom Antenna Supports

RF and Structural System Services

- RF Field and Engineering Services
- Installation and Structural Engineering Services

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