

Puts You A **Generation** Ahead Of The Competition

DEFENDER Dual-Pol Radar

With Dramatically Superior Images And Lower Maintenance Costs

Defender's twin radar beams examine the atmosphere along the horizontal and vertical axes at the same time, providing better information and images to show the size and type of precipitation in each storm. This patented, proven technology provides the most accurate radar data you can get. Offering both C-Band and S-Band options, Defender Dual-Pol Radar is the biggest advance in radar technology in a generation.

Your audience will immediately see a clear, dramatic and confidence-inspiring difference in the accuracy of your data over competitive radar systems. Defender is a major upgrade to current radar, and one that will keep your station on the leading edge for years to come. Advances in the design, mechanics and reliability of Defender will reduce your total cost of ownership compared to other radar systems.

More importantly, when this technology is coupled with the Max Ecosystem, you can bring dazzling, informative weather news to your audience immediately across every screen and digital platform as it happens.

New NWS Dual-Pol Radar Makes Viewers Better Informed, But Makes Many Station Radar Systems Obsolete



Today's news audience demands the most accurate weather information available, and the new Dual-Polarization Radar Network of the National Weather Service rises to the challenge. Unfortunately, this radar network has made many local broadcasters' current radar obsolete, even putting some sponsorships in jeopardy. The FCC has recently authorized the use of high frequency S-band spectrum for commercial use, allowing stations to upgrade their radars and provide their audience with the most accurate radar information.

Engineered To Improve Performance, Lower Costs And Increase Audience Engagement On Every Screen

Patented "Above the Azimuth" Design

The receiver is located on the antenna where radar data is digitized before being transmitted to the radar server via high-efficiency fiber networking. This design saves at least 3db in signal loss versus competitive solutions that need to send an analog signal down a waveguide to a receiver on the ground.

Radar's Most Accurate Antenna

Our unique Servo design allows us to locate it on the antenna. This short servo loop provides tighter control of antenna motion, reducing "drifting" during volume and sector scanning operations that can lead to inaccurate placement of radar data. In addition, for C-Band radars, we developed an exclusive stealth radome design that reduces the signal distortion caused by seams in traditional radomes, which can dramatically effect dual pol data measurements.

Lower Maintenance

Both S-Band and C-Band Defender radars include an auto-lubrication feature for the pedestal that reduces expensive trips to the radar site by station technicians.

Most Experienced S-Band Radar Vendor

EEC is the only US-based radar manufacturer with experience building and delivering sophisticated S-Band radars. EEC has built and delivered over 250 S-Band radars worldwide. The FCC has authorized a higher frequency spectrum for commercial use, EEC has the knowledge and expertise to make the dual-pol algorithmic changes and signal processor modifications necessary to deliver accurate data.

Multi-Platform Solution

Our solution includes delivering Defender data as a live, sweeping radar layer to your Max Web and Max Mobile platforms driving page views on your digital assets, while generating more revenue with cross platform sponsorship.