PRODUCTS



C-BAND
DWSR-2501C, DWSR-2501C/K,
DWSR-3501C, DWSR-5001C, DWSR-10001C

The global choice for protection

For geographic areas with diverse and dynamic weather conditions, nothing offers greater value for the money than EEC's line-up of popular C-Band weather radars. The choice of weather services, national governments, broadcasters, and businesses around the world, EEC can custom configure a C-Band solution for almost every need.



S-BAND
DWSR-8501S, DWSR-8501S/K

The power to predict

With the ultimate long-range view, the EEC S-Band radar gives you the ability to plan, predict, and protect – before severe weather strikes. This massive power makes our S-Band systems ideal for covering huge expanses of land and water, analyzing multiple fronts of heavy precipitation.



X-BAND
DWSR-2001X

The perfect, practical, precise solution

EEC's DWSR-2001X X-Band weather radar system is ideal for short and medium applications that require any combination of accuracy, mobility, and of course, reliability.



RANGER™
X1 & X5 MODELS

This is the future of X-Band

The new era of X-Band is here! EEC's new Ranger weather radar systems feature dual-polarity accuracy, solid-state transmitters, low power consumption - everything you want in an X-Band in one affordable and portable unit.

PROTECTING PEOPLE AND ASSETS™

EEC C-Band radar-the benchmark standard around the world

For most areas of the world, nothing offers a better value than the proven line-up of C-Band radar systems from EEC. Even in challenging environments, our C-Band systems provide powerful and accurate information. Perhaps most importantly, the specifications of our C-Band radars can be customized to meet a wide range of demands and uses.

C-BAND SYSTEM ADVANTAGES

- Systems are available in magnetron, klystron and solid-state transmitter configurations
- Algorithms developed and specifically tuned for performance at C-Band
- Designed for high-resolution medium to long range weather detection
- Innovative architecture provides the highest receiver sensitivity
- Advanced radar motion control system provides better spatial resolution resulting in more accurate data
- Industry leading clutter suppression technology
- Patented fiber-optic technology provides noise free, ultra-high speed data throughput
- Adaptive spectrum-based clutter mitigation algorithms
- Improved data quality achieved through advanced continuous calibration techniques
- Advanced Polarimetric rainfall estimation and attenuation correction techniques

Big weather needs a big radar

Monsoons. Hurricanes. Cyclones. Blizzards. To make the best long-range predictions of the biggest weather makers, you need to have the biggest radar with the lowest attenuation. Both the Magnetron-powered DWSR-8501S and the Klystron- powered DWSR-8501S/K are designed and engineered with an output of 850kW - more radiated power than any other commercially available S-Band weather radar!

S-BAND SYSTEM ADVANTAGES

- Systems are available in magnetron, klystron and solid-state transmitter configurations
- Algorithms developed and specifically tuned for performance at S-Band
- Superior performance designed for long range weather detection
- Innovative architecture provides highest receiver sensitivity
- Advanced radar motion control system provides better spatial resolution resulting in more accurate data
- Industry leading clutter suppression technology
- Patented fiber-optic technology provides noise free, ultra-high speed data throughput
- Adaptive spectrum-based clutter mitigation algorithms
- Improved data quality achieved through advanced continuous calibration techniques
- Advanced Polarimetric rainfall estimation and attenuation correction techniques

For short to mid-range accuracy, X marks the spot

EEC's shorter wavelength X-Band weather radar can detect even tiny particles such as high altitude water droplets or light snow. The compact size of this complete X-Band system makes it the perfect choice for portable applications and "filling-in" geographical areas that S-Band and C-Band skip over. Dual-polarity capabilities are standard features for this system.

X-BAND SYSTEM ADVANTAGES

- Algorithms developed and specifically tuned for performance at X-Band
- Designed for fixed-site and transportable configurations
- High resolution data optimized for short and medium range weather detection
- Innovative architecture provides the highest receiver sensitivity
- Advanced radar motion control system provides better spatial resolution resulting in more accurate data
- Industry leading clutter suppression technology
- Patented fiber-optic technology provides noise free, ultra-high speed data throughput
- Adaptive spectrum-based clutter mitigation algorithms
- Improved data quality achieved through advanced continuous calibration techniques
- Advanced Polarimetric rainfall estimation and attenuation correction techniques
- Super-high resolution IQ2 16-bit digital signal-processor

Put the accuracy of dual-polarity to work anywhere

This is what X-Band should be! Developed by EEC in collaboration with the prestigious Atmospheric Radar Research Center at the University of Oklahoma, the affordable Ranger is a compact system weighing less than 400 lbs/180kg yet featuring a 100 watt or 500 watt dual-polarity, advanced solid-state transmitter and very low power consumption.

RANGER SYSTEM ADVANTAGES

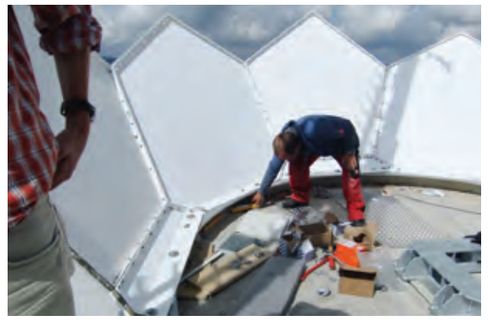
- Algorithms developed and specifically tuned for performance at X-Band
- Advanced technologies in a compact and light-weight design
- Ultra high resolution data for short and medium range weather detection
- Designed for fixed installations or rapid mobile deployment
- Dual transmitter design:
  - Allows for simultaneous or alternating dual-polarization modes
  - High availability
- Low maintenance and Life-cycle costs
  - Simplified design removes complex wave guide and switches
  - Decreased system power consumption
  - Patent-pending revolutionary sealed bearing design
- The most efficient pulse compression techniques available
- Innovative architecture provides the highest receiver sensitivity
- Patented fiber-optic technology provides noise free, ultra-high speed data throughput

RADAR ANALYSIS SOFTWARE

Our software puts you in control

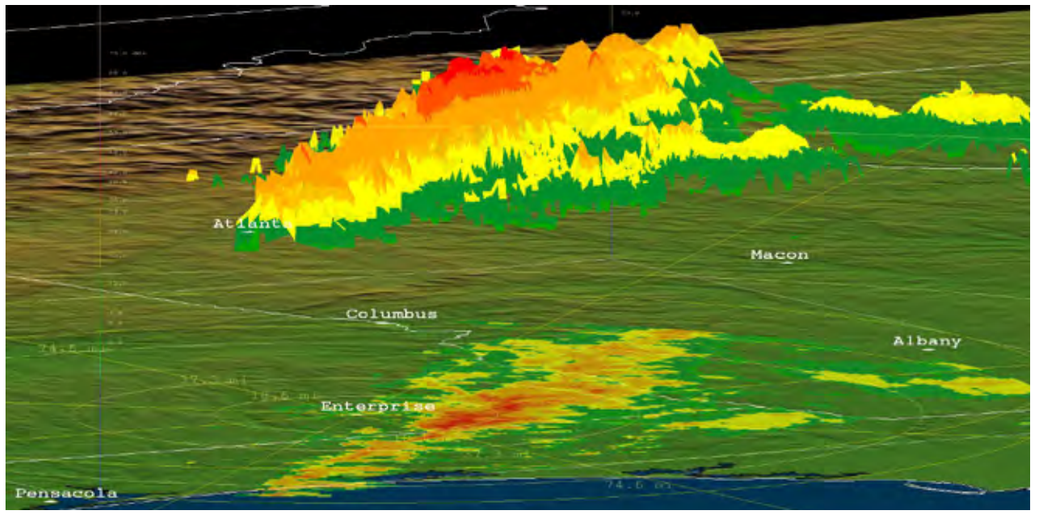
Making it easy to extract, display, and interpret useful weather information in ways that you never thought possible - that's the whole idea behind our powerful suite of weather radar control and data display software.





Powerful tools give you new ways to look at the weather

When you take control of EEC's display software, you have the power to easily do what you have always wanted to do: observe and interpret phenomena previously hidden within the data. Set alerts to automatically warn when certain conditions are detected. Animate and manipulate data to compare different "what if" scenarios. Organize and retrieve all of your information through a built-in database management system. Plus many more sophisticated meteorological products. Our software is both powerful and easy to use because, like all of our other products, it is designed and created by EEC's own engineers. Since it interfaces seamlessly with our processors and displays, our engineers can build in the most powerful and comprehensive set of features for weather analysis possible – even include custom algorithms tuned for each radar band we manufacture. With unmatched flexibility and ease of use, an entire suite of specialized products, and seamless integration into all EEC systems, our display software puts you in control.





An EEC weather radar system is a powerful and precise instrument. To achieve its maximum potential, it needs to be sited and installed correctly and staffed with well-trained personnel. EEC will guide you through the process, providing comprehensive site surveys and full installation services anywhere in the world. We will also train your key personnel to make the most of your system's capabilities with customized training either on-site or at our facility. EEC will be with you throughout the entire process

IMPLEMENTATION & TRAINING

Site for Success

Somewhere in Brazil's immense Amazon Rain Forest, an EEC S-Band radar scans the horizon for signs of threatening weatherheading toward the cities. On a mountaintop in Bavaria, the data from an EEC C-Band radar system is merged with the data from Germany's 17 other EEC radars to create a complete picture of that country's current weather. At a regional airport in the USA's western Rocky Mountains, an EEC X-Band radar monitors a developing storm that could interfere with air traffic over three states. All around the world, wherever there are people and assets that need warning and protection from weather, there is an EEC radar on the job scanning the skies. How do you achieve that level of protection? It begins with selecting the correct EEC weather radar system – S-Band, C-Band, or X-Band – to fit the terrain, climate, and your individual specifications. Then, based on our 40-plus years of experience installing over 1000 radar systems, we will help you determine the best site for maximum coverage and performance.

Installation

When we execute a detailed site survey, the final location is based on where the radar will get the best results – no matter how remote and inaccessible it may be. Then it's up to us to get the entire system to that site and properly installed. And that includes supplying power to the site, connecting all the equipment together, and testing everything to make sure it all operates up to specification.

Training

Every new EEC weather radar system contains the technology to generate very sophisticated information. Taking full advantage of that potential requires a commitment to learning how the system works, how to interpret its output, and how to keep it properly maintained.. But to be truly effective, it must all be learned in the context of your geography, climate, and specific weather challenges. To help you unlock the potential of your EEC system, our meteorologists will train your personnel either at our facility in Alabama or on-site. All of the training plans will be customized for your system, your weather, and the knowledge level of your personnel - anything from the basics up to very advanced, multi-week courses offered in partnership with the University of Oklahoma. With EEC's customized training, you will be able to maximize the value of your system, and protect your people and assets.