Intelligent Weather Solutions
From weather radar and visualization to data processing and systems integration services, Baron provides its customers with sophisticated tools for critical weather intelligence.

Our Huntsville, Ala.-based company has accrued over 30 patents for weather detection, display and alerting. We are a leader in meteorological solutions for broadcast television, and are continuously building new partnerships, and expanding into other markets. To discuss more, please contact Mark Vaughn at govsales@baronweather.com

Federal and Defense Experience
Baron is an aggressive innovator, with a heritage of developmental know-how that allows us to efficiently build solutions, allowing our partners to reduce further development costs. Some of our accomplishments include:

• Partnered with L-3 STRATIS to upgrade 171 NEXRAD systems for the U.S. Department of Defense, Federal Aviation Administration and National Weather Service to dual-polarization, changing the way operational meteorologists and the public see weather.

• With Boeing, we developed a hybrid weather/air surveillance radar for the SBX (Sea-Based X-Band Radar) floating platform—a major component of the U.S. Defense Department Ballistic Missile Defense System.

• We teamed with Lockheed Martin and Harris Corporation to provide a modernized weather infrastructure to Romania, along with advanced hydrological forecast monitoring and modeling.

• We are currently working on two radar systems for the Department of Energy’s Pacific Northwest National Laboratory (PNNL).

• We’ve also supplied Doppler weather radar systems, including dual-pol, to organizations in Taiwan, Paraguay, Saudi Arabia, Brunei and Morocco.
Weather Visualization + Tracking

With Baron weather displays, meteorologists can:

- Overlay radar and value-added weather data, in 2D and 3D configurations, over detailed, localized mapping
- Pinpoint storm threats and determine arrival times in local communities and over assets
- View current/forecast weather conditions anywhere in the world, including real-time camera feeds
- Visualize forecast models and other data inputs for comprehensive weather awareness

Weather Data

In addition to standard NEXRAD and real-time radar data such as Reflectivity, Velocity and dual-polarimetric products, Baron enables a suite of value-added data products that highlight areas of weather concern, enabling quicker identification and response.

- Integrate legacy assets into an integrated system
- Identify the greatest threats within a storm (flooding, hail or tornado)
- Determine effects of heavy rain and flooding on your area of responsibility
- Locate areas of wind shear, including areas of debris lofted by tornadoes
- Predict and detect weather with more precision and greater lead times