The Omni system aggregates and displays accurate hydrometeorological information from new or legacy data inputs as diverse as radar and weather sensor observations, weather prediction models, live video streams and much more. Its easy-to-use interface allows operators to view data collected globally, regionally and locally, zooming into localized areas with ease, and allowing data product overlays for a comprehensive view of conditions.

The system’s powerful graphics capabilities allow users to display data in vibrant, high-definition 3D. Weather graphics and data can also be exported automatically to a defined web location, enabling access for either authorized users or the general public.

Omni is a platform designed to grow as your needs evolve. Add new capabilities as budget and requirements allow. And since every Baron system is backed by our renowned customer support, you can depend on Omni for accurate, reliable performance in all types of meteorological events.

Optional Features

Live Video
Webcams and IP cameras can be seamlessly incorporated into the Omni platform, delivering real-time views of sites located anywhere in the world.

Internet Distribution
Power an entire weather web page with accurate weather maps and graphics by exporting Omni content to the Internet with the optional Web Scheduler.

Multi-Language Capability
The standard Omni system is provided in English, but every menu, button and function can be labeled in your language of choice.
Global Visualization

The global Omni platform combines high-definition 3D weather visualization with advanced meteorological analysis. Broadcast live weather maps, graphics and footage from Omni, and make instant changes to weather reports quickly and simply via Omni’s powerful user interface. Capable of displaying new and legacy assets, Omni seamlessly integrates every component of your weather infrastructure for comprehensive situational awareness – locally, regionally and globally.

3D Buildings and Terrain
Custom models for buildings can be placed at their actual locations. Tie a building to a sensor report or camera imagery originating from that site. 3D terrain shows true-to-life topography, and offers the ability to layer weather data onto it.

Auto-Updating Graphics
Observations from automated weather sensors can be tied to a graphic, and will update automatically in the display instantly. The built-in QuickEdit utility even allows data elements to be changed in a spreadsheet, without the need to adjust any graphics.

Volumetric Radar Imaging
Enhanced storm core analysis is possible with Omni’s volumetric radar imaging, which takes multiple radar elevation scans and creates a 3D image of the storm.

Data Layering
Allowing users to overlay data products such as radar, satellite, and sensor data on a single map, Omni provides a comprehensive depiction of the current weather situation.
Flexible video output means that Omni can adapt to a resolution compatible with your TV broadcast signal. Designed to deliver accurate data with impressive visuals, Omni is the ideal tool for weather telecasts.

**Customizable Graphic Sets**
The icon sets provided in Omni can quickly and easily create weather presentations. You can incorporate customized graphical elements of your own creation, or Baron can develop them for you.

**Weathercast Templates**
Preconfigured templates allow you to save time going to air, while a built-in text library lets you create polished, informative weathercasts.

**3D Graphics & Light Sourcing**
Omni’s 3D graphic panels and light sources, along with mirrored planes, deliver a dynamic and engaging weather presentation.

**Keyframe Animations**
The ability to set the timing for weathercast elements provides a wide degree of control in your on-air presentation.
During meteorological events, all data inputs are critical, so Omni integrates multiple observational assets into one seamless solution. New or legacy data inputs that can be integrated into Omni include:

- **Doppler Weather Radar Sensors**
  Omni can display data obtained by any radar sensor, including advanced systems from Baron. A unique and powerful RHI feature allows meteorologists to dissect radar information obtained from volumetric radar systems.

- **Automated Weather Stations**
  Omni can ingest reported observations from automated sensor networks, and depict them in real-time on the map, along with data-driven animations of 3D sensor models.

- **Numerical Weather Prediction Models**
  High-resolution Numerical Weather Prediction (NWP) models, including BAMS, GFS, NAM and WRF, are fully compatible with Omni.

- **KML Data**
  Freely available KML data can be easily incorporated into the Omni system, providing an incredible level of flexibility and customization.

- **Lightning Detection**
  Pinpoint the location of lightning strikes observed by your detection network with Omni’s instant lightning detection. Graphical icons indicate the presence of positively and negatively charged strikes.

- **Global Datasets**
  For customers requiring worldwide datasets, a suite of exclusive global data packages is available as an easy option—from global lightning and rain rate data to seismic events and METARs.

- **Hydro-Met Buoy Observations**
  Buoy measurements, including wave heights and winds, can be integrated into the Omni system for quick and easy situational awareness of offshore conditions.

- **Satellite Observations**
  Omni’s global architecture allows you to view high-resolution visible and infrared satellite imagery across the entire globe.

- **Earthquake Monitors**
  Display earthquake location and magnitude data on the map instantly, any time a seismic event occurs.

- **Value-Added Data**
  Weather data derived from Baron’s COBRA technology provides unprecedented accuracy for hydrologic and severe weather events.
Baron & Omni

Baron Services provides fully vertically-integrated meteorological processing, allowing our customers to completely control the collection, processing and dissemination of weather-related information. An integral part of the package is the timely, accurate and engaging presentation of the weather to key decision makers and specific audiences. In our development of Omni, Baron has taken 20 years of visualization technology development, and created a powerful graphics package that fully integrates with the modeling and analysis that have made us leaders in the meteorological field. The combined package of stunning visuals and accurate information makes Omni the best solution for clear, concise distribution.

Benefits of Omni:

- Combine all meteorological inputs into a single visualization platform with multiple dissemination avenues
- Operate from a single, intuitive user interface
- Present local, regional or national information cleanly and informatively

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4930 Research Drive
Huntsville, AL 35805
United States

P 256-881-8811
F 256-881-8283

www.baronweather.com
international-sales@baronweather.com
Omni:
Visualization Platform for Integrated Meteorological Assets

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Critical Weather Intelligence