PRODUCT DATA SHEET

# ALERT AM Emergency Advisory Rado System

## Emergency Management Tool for Broadcasting to Local Areas

When it all goes down, the ALERT AM Systems stays up.

Hundreds of communities and transportation departments across America operate these stations to tell citizens what to do during highway travel and incidents that threaten life and property.

No power? No internet? No problem. With the ALERT AM system, listeners receive up-to-the-minute reports and instructions across a 3-5 mile radius (25-75 square-mile area) with a level of detail that makes the broadcasts invaluable.

During non-emergency times, officials use the stations to inform motorists of street repairs, traffic constraints, travel advisories, city history and visitor information.

Information Station Specialists is the sole provider of ALERT AM in the United States and offers 24 / 7 remote technical support for the life of the product. The below capabilities establish the ALERT AM system as a unique communication tool that produces effective public response and appreciation, 24/7.

### TYPICAL APPLICATIONS

**Municipalities –** emergency management, public safety, health and information departments.

**State Agencies –** transportation departments; bridge authorities; emergency management, public health & information agencies.

**Military** – Army, Air Force & Navy bases.

**Points of Entry –** airports, border protection, port authorities.

**Recreation Areas** – Army Corps of Engineers.

**Universities and Colleges –** for security and lockdowns.

## STANDARD PACKAGE

See a state-by-state listing of Stations Across America.

- **Transmitter** type accepted with 20-year proven track record, synthesized frequency design for agile operation with full 5000 Hz bandwidth audio.
- **Program Mixer** for live and multi-source live-feed integration and level management.
- **Network-Based Message contro**l interfaces with local front-panel control redundancy and internal SD card.
- **National Weather Service EAS Warnings** automatically broadcast and reset.
- Broadcast quality audio processor for enhanced audio intelligibility.
- **Antenna / Groundplane System**.
- **Secure indoor cabinet**, dual-door rack style.
- **UPS** uninterruptible two-hour power supply.
- **Diagnostic Metering** and test equipment.
- **Accessories**, such as hardware, cables, power supplies and illustrated manuals.
- **An Array of Services** that includes system engineering and planning.
- **Remote Tech Support for the Life of the Product.**

***Redmond WA's system above includes Network Audio Management & streaming equipment.***

## OPTIONS

- **Hybrid Package** to provide USB / flash drive redundancy and multichannel program mixer for live mic / live feed operation.
- **Signal Measurement Radio Receiver** to verify FCC radio signal compliance regularly.
- **Additional UPS Time** to keep the system on the air during power outages.
- **Outdoor security cabinet** for isolated settings.
- **Commercially Available Audio Recording Software and services** such as Audacity and Adobe Audition can be used to create the audio messages in mp3 format.


- **StreamCASTs** to broadcast messages to smartphones, tablets and laptops that boosts indoor and out-of-area listening.
- **Vertical Profile Antenna Support and Grounding System**, an efficient hurricane-rated, ANSI / TIA-compliant antenna solution that saves space and installation time and is secure and attractive.
- **GPS Frequency Atabilization** that allows synch of multiple stations to effectively enlarge coverage.
- **Flashing ALERT Signs** to instruct motorists to tune to emergency stations when beacons flash.

## TECHNICAL SPECIFICATIONS

| Feature | Description |
|---|---|
| *See links below for additional details.* | |
| Requires FCC license for state and local government agencies (FCC Rules Part 90.242) or National Telecommunications and Information Administration license for federal agencies and the US Military. | |
| **Transmitter** | TR.600 HQ 5.0. |
| **NOAA Weather Radio Receiver** | Model WX.6001. |
| **Antenna** | ANXX. |
| **Groundplane** | FlexPlane. |
| **AC Uninterruptible Power Supply (UPS) - 2 Hours** | - 750VA 600W battery backup.<br>- 6 outlets.<br>- Interactive UPS offers voltage regulation and battery support plus complete AC surge suppression.<br>- 2U rack mount.<br>- Max load of 750VA for 4 minutes and a half-load of 375VA for 11 minutes.<br>- Full-time pure sine wave output.<br>- Maintains regulated 120V nominal output during brownouts and overvoltages from 83 to 147V.<br>- Includes 6 UPS supported outlets.<br>- Multi-function audible alarms and set of 5 front-panel LEDs. |
| **Surge Arrestor** | High capacity telephone arrestor. |
| **Network Audio Management System** | TMS.020. |
| **Broadcast Quality Audio Processor** | HQ 5.2. |
| **Typical Indoor Security Enclosure**<br><br>*A larger or smaller cabinet may be substituted to contain the below options if needed.* | - Durable black, textured power-coat finish.<br>- Exterior dimensions: 28.0" H x 22.5" W x 18.0" D.<br>- Interior space for rack-mounted components: 21.0" H 15.0" D.<br>- 200-pound equipment weight capacity.<br>- Rack-mount equipment mounting format – 12 rack spaces.<br>- 16-gauge steel construction with 1/8" thick laser-cut corner braces.<br>- Tool-free quick-mount system for easy, one-person installation of the center section to the back pan on the job site.<br>- Windowed front door provides access for control of electronics, key lockable.<br>- Secondary service access door provides access to rear of electronic components and wiring. Service access door is key lock and padlock-able.<br>- Seismic certified. EIA/TIA compliant.<br>- UL listed in the US and Canada.<br>- Vertical wall space required: 28.0".<br>- Horizontal wall space required for the cabinet door to fully open 180 degrees and for the cabinet to pivot for full interior access is 42" (22.5" for the cabinet and 22.5 additional inches of space to the right of the cabinet to allow it to pivot for service access). |

| | |
|---|---|
| **Associated Materials** | - All necessary wiring, cabling, connectors, mounts and hardware.<br>- Test equipment, i.e., wattmeter and dummy load for antenna tuning and system diagnosis. |
| **Commonly Selected Options, Sold Separately** | |
| **Additional UPS Time to Keep the System n Air during Power Outages** | 14-hour increments. |
| **Hybrid Audio Management Package for Redundancy**<br>*Compare the audio control methods.* | - MGR.021 Voice Player.<br>- DN.1201 Program Mixer. |
| **Outdoor Electronics Enclosure for Isolated Settings** | - NEMA-3R grade, gasketed, with dual doors, aluminum frame and sheeting.<br>- Removable rack cage.<br>- Size: 66.5"H x 24.125"W x 33"D; 23" doors open 90º, front and back. 332 / 334 signal cabinet style.<br>- Dual internal locks and locking handles on dual doors.<br>- Fan / vent / filter, thermostatically controlled.<br>- AC power service panel and groundbus.<br>- Cabinet lights activate / deactivate with door opening / closure. |
| **Microphone for Recording or Live Broadcasting** | - Style: dynamic, handheld.<br>- Frequency response: 50-15,000 Hz.<br>- Pickup pattern: cardiod.<br>- Output connectors: mic = USB and XLR; headphones = 3.5 mm jack.<br>- Inclusions: desk stand, audio output cables.<br>- Switch: on/off slide switch. |
| **Headphones for Recording or Live Broadcasting** | - Frequency response: 18-22,000 Hz.<br>- Design: closed back, foldable.<br>- Earcups: padded.<br>Output cable: 3 meters; ¼" stereo connector with 1/8" adapter. |
| **Signal Measurement Receiver** | SMR. |
| **Vertical Profile Antenna Support and Grounding System** | VP.9000. |
| **StreamCAST Service Electronics** | - Standalone IP audio encoder.<br>- Supports MP3, PCM and VoIP (uLAw/aLaw) audio codecs.<br>- Supports IP streaming standards such as TCP/IP, RTP, SIP, Shoutcast, Multicast.<br>- Browser-based device management, SNMP monitoring. |
| **Services** | Frequency Search and FCC Licensing. |
| | Electronics Installation. |
| | Onsite Training and FCC-Required Signal Study. |

## TECHNICAL CHARTS, DRAWINGS AND ILLUSTRATIONS

An illustrated instruction is provided with system purchase.

## COMPLIANCE

Meets and exceeds all applicable FCC standards in Parts 90, 73 and 15.

## PROJECT SEQUENCE

We can help you brainstorm ideas for your particular application, provide formal quotes and set up personal webinars to help you evaluate products. See our planning guide, which outlines typical considerations.

Our early-stage services include helping you find the best radio frequency for your location and helping you obtain and maintain FCC licensing for your radio system. Note: Because FCC processing time is unpredictable, we recommend that you request licensing and other FCC documentation services from us as soon as you know for sure you will have a station – definitely no later than when you place your radio equipment order.

We can also assist with engineering required for Special Temporary Authorities and waivers. See our licensing services webpage for details.

We even provide professionally recorded audio messages, so your broadcast is ready to put on the air as soon as the station is turned on.

**Updates:** We produce a newsletter that is emailed to customers periodically. Be sure to set your email preferences to receive messages from theRADIOsource.com. You can always find recent copies of *The Source Newsletter* on our website under the "Resources / Stories from the Field" dropdown menu.

## INSTALLATION GUIDELINES

The ALERT AM Station can be installed by you, your agent or as a service by us. Here are two scenarios:

1. **Shared-responsibility installation services** that allow you to prepare your site We can handle electronics installation, tuning, testing, FCC-required documentation and operation-and-maintenance training. We can help plan and implement your system, including frequency and site selection, FCC licensing, installation, staff training and the FCC-required field survey and documentation. Even professionally recorded audio messages are available, so your broadcast is ready to put on the air as soon as the station is turned on.

2. **Turnkey Installation Services**

In either scenario, we provide an illustrated instruction manual with every system; and we have a network of partners strategically located across the USA to help you onsite if needed.

**Antenna Installation Styles**

Yard Style The ALERT AM Station antenna may be installed at a building with the electronics securely

indoors and the antenna pole and groundplane located in the adjacent yard, connected by a coaxial cable. This style is a recommended first choice, because it is most economical and affords the greatest security for equipment. A 50' separation from buildings is recommended. We can even provide the mounting pole for yard areas with limited room grounding.

Flat-Roof Style If no earth surface location is available, a flat building roof may be your best choice for antenna installation. We can provide an installation package which requires no roof penetrations.

Isolated Style At remote locations where there is no building, a weatherproof cabinet containing the electronics is attached to the antenna support pole. The location must have electrical power and, if equipment is to be remotely controlled, telephone or network service.

See our radio antenna siting webage for more examples.

**Training:** You may request technical training at the time of system installation or by appointment. We can provide operator training as part of our installation services, if you commission them. Or schedule subsequent onsite (or online) training at your convenience. **Best of all, each system comes with remote technical support for the life of the station.**

## WARRANTY | REPAIR & REPLACEMENT | REMOTE TECH SUPPORT

Information Station Specialists (doing business as The Radio Source) provides a one-year, limited warranty on new products against defects in materials and workmanship under normal use. We also provide repair and replacement and, best of all, remote technical support for the life of the product. See our promise.

## HOW TO ORDER

Request quote. (web link)