

Emergency Advisory Radio

Product Selection Guide



ALERT AM™

Fixed Emergency
Advisory Radio Station



RadioSTAT™

Portable Emergency
Advisory Radio Station



Information Station™

Fixed Advisory Radio
Station



VoiceStar™

Portable Advisory Radio Station & Changeable
Message Sign



Flashing ALERT™

Fixed Customizable Sign



Lightning CMS™

Ultra-Portable
Changeable Message
Sign



Stealth™

Black-Out LED
Sign



FASTrack™

Portable Quick-Erect Sign

ALERT AM™ Emergency Advisory Radio System

AEL/SEL Category 04AP-09-ALRT



When seconds count, count on ALERT AM.

Hundreds of communities across America operate ALERT AM Emergency Advisory Radio Stations to tell citizens what to do during incidents that threaten life and property. No power? No internet? No problem. With ALERT AM, 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. The below capabilities establish the ALERT AM system as a unique communication tool that produces effective public response and appreciation, 24/7.

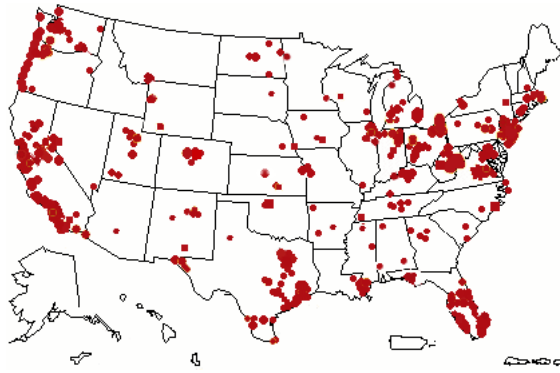
Standard ALERT AM Package

1. Local and phone control interfaces.
2. Voice-prompter-style digital recorder with 3 hours of recording time, hundreds of playlists and 1,000-message capability.
3. Redundant 2-way radio control.
4. Live broadcasting locally or remote.
5. External control triggering via siren, pushbutton or other alarm.
6. Transmitter type accepted with 15-year proven track record, synthesized frequency design for agile operation.
7. Patented antenna/groundplane system.
8. Secure indoor cabinets, dual-door rack style.
9. National Weather Service 'All Hazard' encoding to automatically broadcast Emergency Alert System messages targeted to specific counties.
10. Uninterruptible power supply.
11. Diagnostic metering and test equipment.
12. Hardware, cables, power supplies and illustrated manuals.
13. System engineering and planning.
14. Remote tech support for the life of the product.
15. Lifetime potential interference notification service.

Options (may be added at any time)

1. Computer-controlled audio programming by dedicated PC or network/IP.
2. StreamcastsSM that broadcast messages to smartphones, tablets and laptops to boost indoor and out-of-area listening.
3. ENcastsTM to automatically interrupt broadcasts to air text-based emergency messages from compliant mass-notification systems.
4. 4-day operational battery backup to keep the system on the air during power outages.
5. Power-loss notification module to alert operators if transmitter power drops.
6. Vertical Profile Antenna SystemTM, an efficient hurricane-rated, ANSI/TIA-compliant antenna solution that saves space and installation time.
7. GPS frequency stabilization that allows synch of multiple stations to effectively enlarge coverage.
8. Flashing ALERTTM Signs to encourage motorists to tune to emergency stations when beacons flash.
9. 2X Signal BoosterTM with up to double the efficiency/range of the standard antenna.
10. Outdoor weatherproof cabinets for isolated locations without host buildings.
11. Signal Measurement RadioTM receiver to verify FCC compliance.





At our website theRADIOsource.com under Resources, we provide a listing of our Emergency Advisory Radio Stations across America.

"In extreme situations when other communication systems have failed, we know AM radio is likely to stay in operation. It's a small price to pay for community safety."

...Kate Rusch, Estes Park, CO

Who Operates ALERT AM Systems

Operators include...

- **Municipalities** (cities, counties, townships, boroughs, towns and villages): *e.g.*, departments of public safety, emergency management, public health and public information (PIO).
- **Points of entry**: *e.g.*, airports, border protection, port authorities).
- **Universities and colleges**.
- **Government agencies** (federal and state): *e.g.*, departments of transportation (DOTs), bridge authorities, emergency management and public health departments.

Learn more on our [Permitted Broadcast Content webpage](#) at theRADIOsource.com.

The Orlando, Florida, Emergency Operations Center has 4 ALERT AM stations with computer control, GPS frequency stabilization and Vertical Profile Antenna Systems.



Frequency and Licensing

The Federal Communications Commission grants licenses for ALERT AM systems to government entities on available AM frequencies on a first-come-first-served basis, secondary to full power broadcast stations. In 1991, the Commission opened to information radio stations all frequencies in the 530-1700 band, subject to separation requirements. Information Station Specialists can help identify the optimal frequency at your location and will apply for your station's FCC license.

Learn more on our [Licensing and Frequency Services webpage](#) at theRADIOsource.com.

ALERT AM security enclosures have a dual-door design making them accessible from the front or back. The indoor design has a windowed front door. The outdoor version is similarly accessible, weatherproofed, lighted and thermostatically controlled. Both designs are racked and lockable.



ALERT AM Message Control

The ALERT AM system can be controlled locally by landline/cellphone or via a two-way transceiver provided by the operator. When optioned, messages can be managed across a network or via a PC workstation. The ALERT AM system allows the operator to pre-record messages for quick broadcast as anticipated emergency scenarios present themselves.

Broadcasts may also be triggered by ancillary devices, *i.e.*, siren-system closures, switches or other external sources. This allows ALERT AM to quickly switch from broadcasting general information to specific emergency information if disaster strikes. When the National Weather Service issues NOAA/EAS alerts for designated counties, they are broadcast automatically, interrupting standard programming. ALERT AM also allows the operator to lock out NOAA alerts if necessary. Broadcasting live is easy with the push of a button and can be effected at the radio station itself or remotely from any telephone.

ALERT AM's digital message player comes stocked with pre-recorded emergency management messages prepared by our professional announcers to illustrate what's possible within the system. In addition, you may take advantage of our [free or commissioned recording services](#) to create broadcasts.

Antenna Styles

The two most common formats:

- **Yard Style:** ALERT AM may be installed at a building with the electronics securely indoors and the antenna pole mounted in the adjacent yard connected by an underground cable. This style is recommended because it is most economical and affords the greatest security for equipment. A 50' separation from buildings is recommended.
- **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, two-way or network service.

If a yard- or isolated-style installation is not possible, custom installation on a building roof is possible in some instances. Lateral separation of the antenna from large, nearby objects by at least the height of the object is suggested to prevent signal degradation.

Information Station Specialists can provide documentation that radio frequency exposure from the ALERT AM antenna does not exceed FCC limits for safe operation.

Complete Package



As you would expect, Information Station Specialists provides a full menu of technical services to help you put and keep ALERT AM on the air. We will help plan and implement your station, 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.

Best of all, each system comes with remote technical support and potential interference notification service for the life of the product.

ALERT AM may be purchased “sole source,” or specifications may be provided for agency bid procurement. Lease-to-own terms are also available. [Inquire for details.](#)



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Email info@theRADIOsource.com

Web theRADIOsource.com



RadioSTAT™

Portable Emergency Advisory Radio Station

AEL/SEL Category 04AP-09-ALRT

During public health and safety emergencies, take a RadioSTAT Portable Emergency Advisory Radio Station into critical areas and speak directly to citizens via standard radio receivers. RadioSTAT can be a lifesaver, allowing the broadcast of critical instructions and information regarding, for example...

- ⊕ Disasters and Evacuations.
- ⊕ Medical Emergencies (hospital surge, points of distribution field information, quarantine isolation, decontamination).
- ⊕ Terrorist/Shooter Incidents.
- ⊕ HAZMAT and Traffic Information.
- ⊕ Critical Public Safety Instructions.
- ⊕ Road Construction and Infrastructure Failures.
- ⊕ AMBER Alerts



Built for speed and portability, RadioSTAT electronics are housed in high-impact, weather-resistant cases. The quick-erect antenna system folds up, allowing the entire station to be set up in 10 minutes by one person.

RadioSTAT is FCC-licensed. The signal is typically announced to the public by FASTrack or other portable signs, positioned at the periphery of the coverage area. Motorists receive broadcasts on standard vehicle radios, over 25-75 square miles.

The stations are priced affordably so multiple units can be deployed simultaneously at different locations during an emergency as required.



"Deployment went quickly and was completed in about 20 minutes. The coverage was phenomenal and absolutely unbelievable that a 10-watt station could be heard nearly 6 miles away in an urban environment with many tall buildings. Overall, the system was an excellent investment."

***John Black
Wireless Communications Manager City of Long Beach, CA***

Portability becomes an instant asset during emergencies, allowing re-establishment of the signal from a new location quickly.

Portability also makes RadioSTAT especially useful at large public gatherings for broadcasting key information, *i.e.*, schedules, traffic, parking, safety and critical instructions for patrons approaching or exiting.

Programming may be controlled using flash drives through a USB port and may also be uploaded via Ethernet from a network or a laptop computer. If you operate RadioSTAT at a fixed location, when it is not required in the field, the network capability makes this asset all the more valuable.

During non-emergency times, officials often operate from a fixed location via the patented VP9000™ Vertical Profile Antenna. This helps familiarize citizens with the frequency. Regular FCC-allowed messages may be broadcast during those times. See more about permitted content at theRADIOsource.com, under the Resources drop-down menu.

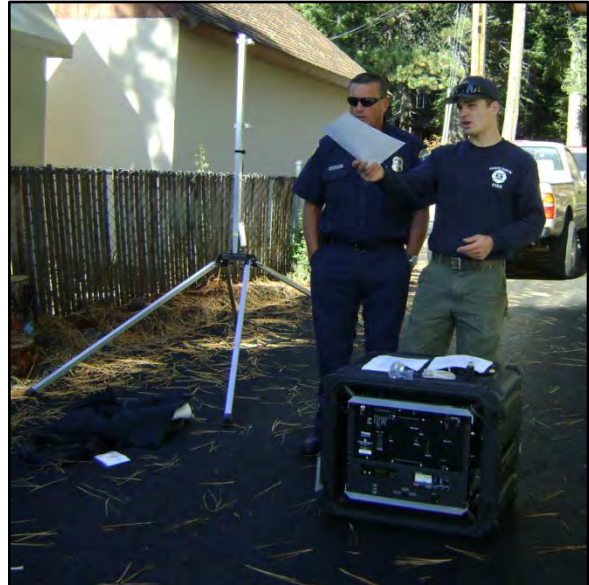


The VP9000 Antenna is designed to withstand hurricanes, fit in small spaces, discourage vandalism in unattended areas.

Key Advantages

1. Third-party companies are not needed for continuing service, carrier or activation fees, and, therefore, do not need to be relied upon during emergencies.
2. When the AC grid goes down, RadioSTAT still works if operated on a generator or battery pack; and receivers are in vehicles. AM radio methodology has been active for 80 years and is not likely to be supplanted anytime soon.
3. Citizens do not need to purchase special devices to receive RadioSTAT messages.
4. RadioSTAT stations allow public officials to speak directly to drivers without distracting text messages on portable devices.
5. Radio messages vastly supersede text services in the sheer amount of information and level of detail that may be delivered efficiently.
6. This aural medium also allows officials to speak to the public in a natural, person-to-person way that might be calming during an emergency.
7. RadioSTAT comes in an easy-to-go format but may be used in a fixed location when not needed on the road.
8. Its low price makes it accessible, so communities can afford more than one to cover their areas.

PIO Dave Zaski (left) & Thomas Cravener at North Tahoe, CA, Fire Protection District train personnel. The District's 3 units are used to allay fear and route residents safely away from terrifying wildfire danger.



At our website theRADIOsource.com, see [case studies](#) and a listing of [Emergency Advisory Radio Stations across America](#).

Who Uses RadioSTAT Stations

County Public Health: Los Angeles County has a station, deployable anywhere within its populous area on a moment's notice for motorists queuing at vaccine distribution points. Bucks County PA, Williamson County TX and Worcester County MA have multiple units. Allen County IN emergency director Brad Witte explains, "We will use RadioSTAT to provide citizens instructions to field clinics, how to proceed thru the clinics and what to expect after they get there"

Emergency Medical Services: Hospitals such as Porter Health in Indiana and Southwest Texas Regional Advisory Council.

County Emergency Management: Counties in several states have units to set up in emergencies, and a number of them have several. Sweetwater County WY with an 11,000-square-mile district uses 3 units to reach motorists who might otherwise be missed. Says coordinator Judy Valentine, "We will provide updated information; ... in addition, will deploy them when we activate our mobile command post or CERT animal rescue, shelter or other volunteer teams. We also plan to use them for civic and public health events, disaster exercises and a multitude of other activities."

State Agencies: ND Emergency Management owns 3 RadioSTAT units that can be deployed anywhere in the State at a moment's notice. In other states, county-owned units are licensed with statewide operating territories so counties can share the resource.

Communities: Many operate RadioSTAT from fixed locations with the expectation of deployment when needed.

Fire Districts: Yosemite National Park and the USDA use RadioSTAT for Utah fires.

Basic Equipment Package

- ✦ TR6000 HQ5.0™ Transmitter/Message Player in portable shock case with broadcast control electronics.
- ✦ PowerPlane™ Portable Antenna System.
- ✦ Flash Drives.
- ✦ Live Mic & Cable.
- ✦ Equipment Pouches & Stowing Bags.
- ✦ Customizable Equipment Tags.
- ✦ Set-Up Tools.
- ✦ Illustrated Instructions.
- ✦ System Engineering & Planning.
- ✦ Lifetime Potential Interference Notification Service.
- ✦ Lifetime Remote Tech Support, 24/7.

Options

- ✦ Audio Management Software,
- ✦ Recording Headset & Mic.
- ✦ Fixed VP9000™ Vertical Profile Antenna.
- ✦ Antenna Height Extender.
- ✦ 2X Signal Booster.
- ✦ Signal Measurement Radio™ Receiver.
- ✦ FASTrack™ Signs.
- ✦ Lightning CMS™ Ultra-Portable Changeable Message Signs.
- ✦ IP-Based Audio Control.
- ✦ HearMoreInfo StreamCastsSM.
- ✦ Message Recording Services.
- ✦ FCC Licensing Services.



Planning and Pricing

We will help you plan your station, select options and provide a formal quote. RadioSTAT Stations may be purchased “sole source” and qualify for government lease-to-own programs as well as our own similar program. Contact info is below.



The Information Station

AEL/SEL Category 04AP-09-ALRT



Introduced by the Federal Communications Commission in 1977 as a Travelers Information Station (TIS), the Information Station is now the most installed system of its kind in the United States, with more than a thousand stations licensed to date. Its popularity stems from its versatility and affordability in a package that makes installation and operation simple and seamless.

Today government agencies broadcast information to the public about emergencies, public health, airport security and border control – in addition to conventional traffic, travel and visitor information content.

Two models are available to meet your needs – IP and Classic. Information Station Specialists is the sole provider of the Information Station in the United States and offers 24/7 remote technical support for the life of the product.

Two Stations

Information Station IP™

Manage the broadcast program via an Ethernet network or by the station's USB port. The Information Station IP affords the highest quality of audio plus the convenience of a network-accessible message library. Optional software is available to create natural or text-to-speech messages, then edit, process and place them in playlists for immediate broadcast.

Information Station Classic™

Update the broadcast program remotely by telephone or a two-way radio transceiver, locally by microphone. The Classic Information Station allows you to create up to 1,000 messages and 250 message playlists for convenient retrieval. 3 hours of recording time are available. Choose which messages to broadcast and which to store for future use.

Hybrid systems with the characteristics of both versions are available. Associated services and special options for both Information Stations are detailed on the next page.

Who Operates Information Stations

Federal, state and local governmental entities (see examples below) can license Information Stations to broadcast noncommercial voice programming related to travel, public safety, visitor/tourism historical/interpretive or emergencies. Learn more on our [Permitted Broadcast Content webpage](#) at under Resources at our website theRADIOsource.com. The primary audience? Motorists in a 3-5-mile radius area.

Operators commonly include...

- Municipalities (cities, counties, townships, boroughs, towns and villages) departments of public safety, emergency management and public health.
- Points of entry (airports, border protection, ports).
- National and state parks, forests, recreation areas and historic sites.
- Universities and colleges.
- Government agencies (federal and state) departments of transportation, bridge authorities, emergency management and public health.

The National Park Service is among the first proponents of Information Station technology and is the largest nationwide user of these systems for visitor information, orientation and interpretive applications. Listen to what interpreters across the country say about how and why they operate Information Stations. Request a free program on CD produced by Oregon State University. Just email your name and postal address to info@theRADIOsource.com. (Please mention the title *Making Waves*.)

Frequency and Licensing

The FCC grants to government entities licenses on available AM frequencies on a first-come-first-served basis, secondary to full power broadcast stations. In 1991, the Commission opened to Information Stations all frequencies in the 530-1700 band, subject to separation requirements. Information Station Specialists can help identify the optimal frequency at your location and will apply for your station's FCC license.

Antenna Styles

The two most common formats:

1. **Yard Style:** The Information Station may be installed at a building with the electronics securely indoors and the antenna pole mounted in the adjacent yard, connected by an underground cable. This style is recommended because it is most economical and affords the greatest security for equipment. A 50' separation from buildings is recommended.

Vail, CO, Police Department operates two Information Stations, controlling broadcasts from a PC (Workstation Audio Control option).



Operator Jennifer Kirkland

- 2. 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, two-way or network service.

If a yard- or isolated-style installation is not possible, a custom installation on a building roof is possible in some instances. Lateral separation of the antenna from large, nearby objects by at least the height of the object is suggested to prevent signal degradation.

Equipment Array

An Information Station can be installed by the buyer, his agent or as a service of Information Station Specialists. Included in the package is the FCC type-accepted transmitter, digital message system, cabinets, antenna, factory-assembled groundplane, lightning arrestors, cables, connectors, mounts, hardware and illustrated instructions.

Options

- **Flashing ALERT Signs™** with remote-controlled flashing beacons may be installed to notify motorists of the station's signal at key locations along streets.
- **VP9000™ Vertical Profile Antenna System** allows the antenna system to be located in tight spaces – the yard of a building, for example – with the station's electronics inside the building for security. No horizontal groundplane is required. Arrestors and cable are inside the pole to discourage vandalism. VP9000 is compliant with hurricane wind standards for shoreline and critical installations.
- **2X Signal Booster™** offers up to double the efficiency/range of a high band (1610-1700) station's antenna, allowing the transmitter to run at less wattage or allowing the signal to have twice the intensity (recommended for federal agencies and for operators in challenging environments who require maximum signal intensity to cut through dense foliage and obstructions).
- **Workstation Audio Control™** may be optioned for the Information Station Classic to provide onscreen PC-based program control.
- **StreamCastsSM** This network audio interface allows streaming of the broadcast program directly to smartphones, tablets, laptops and PCs. Listeners gain access to the stream by merely scanning a QR tag or by clicking a unique link on your (or a special HearMoreInfoSM) website..
- **Signal Measurement Radio Receiver™** allows you to measure the Information Station's signal intensity and verify compliance with FCC signal limits.
- **ENcast™** automatically converts text-based alerts from your compliant emergency notification system into voice audio and interrupts the standard program to broadcast them over the Information Station.



Details about the above options are available on [the Information Station Specifications webpage](http://www.theRADIOsource.com) at www.theRADIOsource.com.

Complete Package



As you would expect, Information Station Specialists provides a full menu of technical services to help you put and keep your Information Station on the air. We will help plan and implement your station, including frequency and site selection, FCC licensing, installation, staff training and the FCC-required field survey and documentation.

Even professionally recorded audio messages can be provided, so your broadcast is ready to place on the air as soon as the station is turned on.

Best of all, each system comes with remote technical support and potential interference notification service for the life of the product.

The Information Station may be purchased "sole source," or specifications can be provided for agency bid procurements. Lease-to-own terms are also available. [Inquire for details.](#)

Your information; your station; our dedication.

Information Station Specialists



*Travelers'
Information
Station Antenna
at Entrance to
Arches National
Park, Utah*



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Web theRADIOsource.com



VoiceStar™

Portable Information Radio Station and Changeable Message Sign

AEL/SEL Categories 03OE-03-SIGN & 04AP-09-ALRT

NIMS ESF #3 • GSA Approved

Communicates Critical Information Instantly

VoiceStar is a portable information radio station, ready to roll – available with or without a changeable message sign or with the sign alone. Stations are often integrated into a system of several units to instantly notify the public at highway construction zones, traffic incidents and in health and safety emergencies.

Powered by a robust array of solar panels and battery backup, VoiceStar can go anywhere, anytime. It is built to operate in isolated locations for weeks at a time. The radio messages and sign text may be programmed locally or remotely via cell modem.

VoiceStar has 'quick startup' and can be broadcasting and/or providing its message display in fewer than 5 minutes.

After parking the trailer, the operator swings up the antenna, lays out the portable groundplane and flips on the power. Batteries are immediately online. If AC power is available, the operator has the option of plugging in and charging the system's batteries while operating. The solar array is aligned to allow positioning of the trailer in any roadway orientation.

VoiceStar's patented groundplane system offers a signal range to match that of fixed information radio stations (25-75 square miles). But only VoiceStar provides the option for 2 transmitters – of the same or different frequencies – in the same cabinet, with single-switch changeover between transmitters. This allows the operator to change frequencies or change to a backup transmitter on the fly.

VoiceStar's bright lensed-LED Changeable Message Sign in the standard character matrix format offers many message programming options.

Every VoiceStar system comes stocked with prerecorded external messages prepared by professional announcers. You may commission recording services for dated messages as well. In addition, AAIRO members who operate VoiceStar systems can access a professional broadcast message recording service at no charge during the lifetime of the system.

Information Station Specialists supplies remote technical support and potential interference notification services for the life of each station.

Options

Sign only . . .

- [Portable Changeable Message Sign](#) in line-matrix or full-matrix sign formatting.
- [FASTrack quick-erect sign\(s\)](#).

Radio station only or with Changeable Message Sign . . .

- [Frequency search and FCC licensing services](#).
- Single or dual frequencies.
- Redundant tone and voice operation with [NOAA "All Hazard" Radio](#) emergency interruptions.
- [Signal measurement radio receiver](#) that allows operators to measure the radio station's signal intensity periodically to verify compliance with FCC rules.
- Onsite training and certification.
- [Professional recording services](#).
- Onsite training and certification.

Who Runs VoiceStar Systems?



Transportation Agencies: DOTs, turnpikes and bridges.

Local Governments: emergency management, law enforcement and public health agencies.

Industrial Plants: for HazMat impact on residents.

Military Bases.

National Parks.

Events: air shows, fairs, parades, conventions, golf tournaments and other sports events.

Frequencies and Licensing

VoiceStar Portable Information Radio Stations are licensed on frequencies 530 to 1700 kHz AM and to federal agencies on 530-1700 kHz, secondary to standard AM broadcast stations.

Via solar wireless communication, operators can program broadcast messages and the changeable sign display remotely. Range is 3-5 miles (25-75 square miles) across average terrain. The FCC's special "broad area" license (good for 10-years and renewable) affords operators a territory in which each VoiceStar may roam. Licenses can also specify a fixed operation point, if desired.

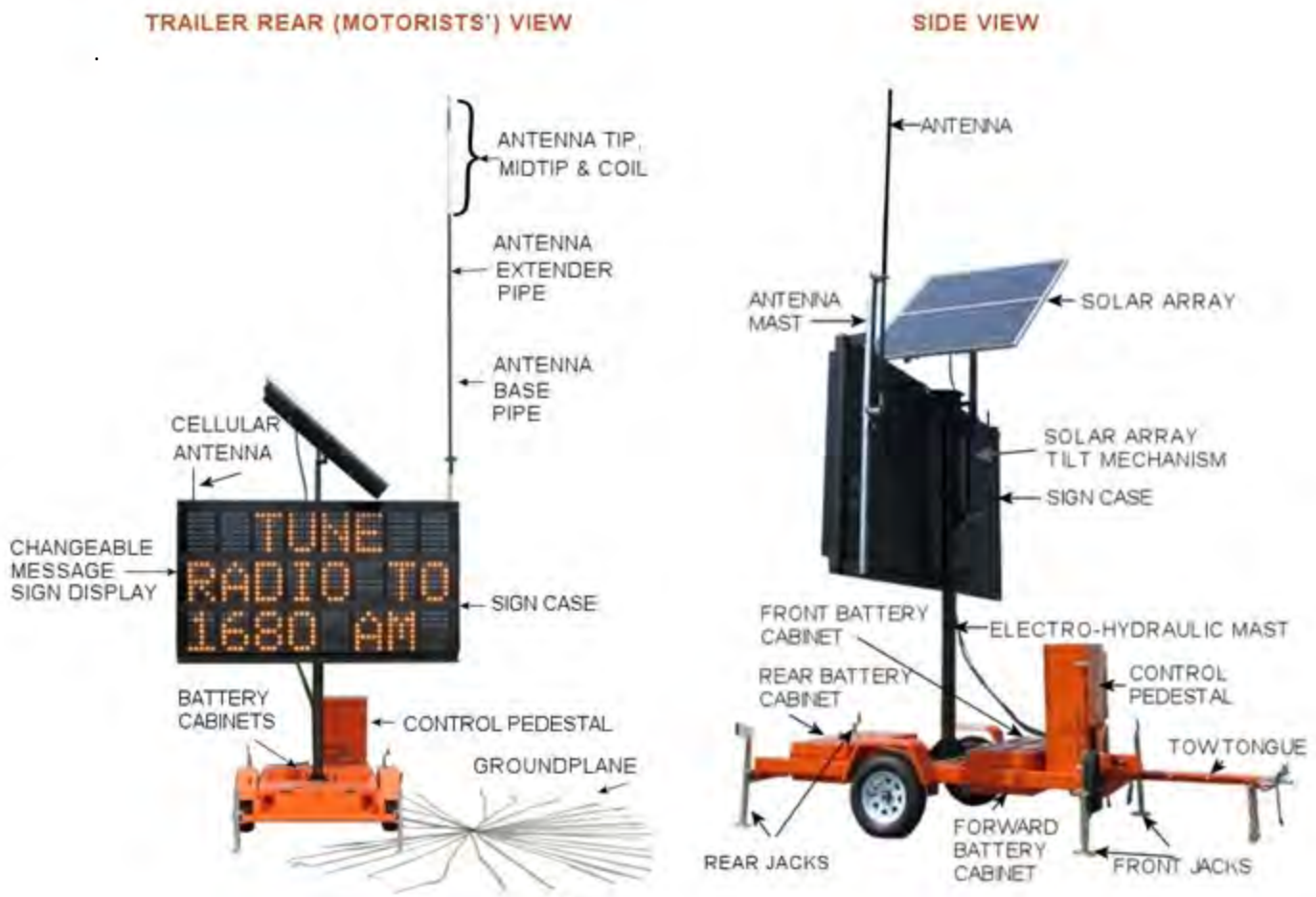
On our [Frequency/Licensing webpage](#), under the Services drop-down menu, you can download a form to complete and return to request this service.

Broadcast Content

Information radio stations are permitted to broadcast content relating to public safety and travel, such as road conditions, weather, directions, emergency and other general interest topics to motorists.

Broadcasts must be voice-only with no commercial content.

For details, see our [Permitted Content webpage](#) under the Resources drop-down menu.



Distinguishing VoiceStar Features in the Marketplace

1. 6-by-11' changeable message sign that can be raised over 13' high. The 3-line, 8-character display employs lens-enhanced LEDs with 30° angularity and 4-LEDs/pixel for full brightness with auto dimming keyed to ambient lighting. Up to 199 user-controlled sign messages created and stored, in addition to 199 pre-programmed standard messages. Up to 50 message sequences created and stored. Sign displays programmed for automatic, scheduled changes.
2. A portable, patented [groundplane](#) for full range, the same as fixed stations. No ground stakes required. Easy setup and takedown. Easy stowing.
3. A black [antenna](#) to discourage ice build-up, finished with a UV-resistant process to prevent color fading. Written documentation of safe RF exposure distance per ANSI/IEEE C95.1-1992 standard by a professional engineer (PE).
4. Solar power operation with solar/AC rechargeable battery packs. Maintenance-free batteries for superior performance under adverse heat conditions unusually tolerant of high-charging and short-circuit conditions – stored in easy access cabinets. Conventional battery size to allow easy transport and replacement. An optional tilting solar panel array that enhances solar gathering capability.
5. Optional wireless radio and sign message control via remote software.
6. A [transmitter](#) that provides synthesized frequencies for in-shop changing. Ability to have several frequencies on board. A transmitter approved for military and federal agencies. The only information station transmitter made that is FCC-certified for operation (with waiver) on special AM frequency 1710.
7. Free professional recording services and remote [lifetime technical support 24/7](#).
8. Audio files can be created, processed and transferred to the station, increasing audio quality. Each playlist can be as long as 20 minutes.
9. Durable trailer construction, a 4-jack trailer-leveling system, lockable equipment, battery and electronics cabinets as well as a removable hitch for security.

Plan your VoiceStar station at www.theRADIOsource.com/products/voicestar-plan.htm.

See specs for VoiceStar at www.theRADIOsource.com/products/voicestar-specs.htm.



VoiceStar systems are made available in partnership with the American Signal Company.

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Email info@theRADIOsource.com

Web theRADIOsource.com



Flashing ALERT™ Signs

AEL/SEL 03OE-03-SIGN

For Speed Limits below 60 MPH

Ultra-visible from more than 1000 feet – even in daytime – Flashing ALERT Signs grab attention with their bright embedded flashing LED beacons. Communities, military bases and industry often use the signs in conjunction with Information Radio Stations to announce urgent message broadcasts. But the signs may also be used independently, for example, to announce detour routes and emergency actions when beacons are activated.

Flashing ALERT Sign Systems may be custom designed for each application, with varying power and control methods, sign text, colors and mounting styles and may be installed apart from electrical power services, which keeps installation costs low.

System operators trigger beacons to flash via one of a number of wireless control methods, including UHF, VHF, paging, SMS/cellular, wireless modem. Bright, amber LEDs command immediate attention when activated. When beacons are off, bright blue and white portions of the signs remind motorists 24 hours a day, 365 days a year.

Flashing ALERT Signs store enough flash-power to run 4 to 10 days even with no sun. With as little as 1.5 average sun hours per day, each sign's backup battery system remains fully charged around the clock.

Within each sign location, up to four Flashing ALERT Signs may be connected to and controlled by a single Remote Control Power Unit via wire line; *e.g.*, two Flashing ALERT Signs could be placed on a busy thoroughfare, one facing each traffic direction; another pair could be placed on two busy streets that intersect that thoroughfare.



Flash patterns & sign colors comply with the *Department of Transportation Federal Highway Administration Manual on Uniform Traffic Control Devices (2004, Regulation 2A.08)*. Check with local authorities to coordinate signs in your area.

Technical Specifications

Sign Panel

Face

- Typical size: 44" high by 24" wide, customizable (price relates to size).
- Composition: natural aluminum, standard 1/16" gauge reflective black/ yellow/blue, high intensity prismatic sheeting; customizable black/white, 2" and 3" high lettering.
- Mount: universal L-bracket for banding, bolting to existing poles or posts.

Sign Electrical

- LED beacons: 2, amber, weatherproof LED beacons; 41 diodes each; 4.25" diameter embedded reflectors.
- Current draw: 100 milliamps.
- Flash controller: 8A, 50/60 fpm, waterproof.
- Duty cycle: 50% flash.
- Operation time: 2-4 day flash via solar power without sunlight.

Remote Control & Power Unit Cabinet

- Size: 20" high x 16" wide x 10" deep.
- Construction: NEMA4X, natural aluminum, single-hinge door, hasp-lock-in closure; weatherproof external antenna connector, wiring, ports.
- Mounts: external tabs for universal mounting to existing poles or posts.

Electrical

- Solar panel: typical 40-watt, 2.40-amp at 12-volt DC, 38.38"x12.13".
- Solar panel mount: side-of-pole, band or bolt-on.
- Solar controller: 6-amp current capacity, LED charge indications.
- Low voltage disconnect circuitry.
- Battery: 55AH, AGM, sealed type.

Controller

- Capacity: up to 4 flashing signs.
- Control wiring: #14 AWG, each a maximum of 1000 feet from the controller.
- Receive frequencies/ranges: 33-50 MHz (VHF low), 150-170 MHz (VHF high) and 450-470 MHz (UHF).
- Control codes: up to 6 simultaneous codes.
- Code formats: DTMF (up to 12 digits); 2-tone sequential, single-tone 0.3-3.0 kHz.
- Programming output: SPDT relay with programmable timer; laptop programming via RS232 port and Windows-based software.
- Indicators: "ALERT received" LED indicator.
- Speaker: 4" integral.
- Test diagnostics: built in with LED indicators.
- External antenna: 50-ohm BNC connector.
- Alternate control methods: commercial paging (POCSAG/FLEX); LAN/WAN; WIFI; 27 MHz (unlicensed), SMS (text).

Custom Versions

Customized Flashing ALERT Signs may retrofit existing warning/evacuation signs to notify drivers when an event is imminent.

Applications:

- Hurricane.
- Volcanic.
- Nuclear.
- Tsunami Evacuation.
- Fog.
- Flood.
- Lightning/Storm/Tornado Warning.



Evacuation signs tend to blend into local environments – especially for residents and regular commuters – but get noticed when their beacons begin to flash. [See the unusual story of how the custom sign, above, came to be.](#)

Control Methods Comparison Chart

Method	3rd-Party Carrier	Requires Existing Infrastructure	Controls Signs Individually or in Subgroups	Controls Signs via Web GUI	Status Feedback Is Provided	Added Hardware Costs
UHF/VHF Using DTMF 2-Tone	No	Yes, Requires UHF/VHF Coverage at Sign Locations on Available Frequency	Yes	No	No	No
Commercial Paging	Yes, Flat Monthly	No	Yes	With Additional Software	No	No
Cellular SMS	Yes, per Location	No	Yes	Yes	Yes	No
Ethernet LAN or Wireless	Yes, only if 3rd-Party LAN or Wireless Provider Is Used	Yes, Network Must Be Accessible at All Sign Locations	Yes	Yes	Yes	Yes, if Wireless
Cellular DTMF	Yes, per Location	No	No	No	No	Yes



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Lightning CMS™

Ultra-Portable Changeable Message Sign

AEL/SEL 03OE-03-SIGN



“Say It Fast”

The Lightning Ultra-Portable Changeable Message Sign has no equal in flexibility, affordability and speed of setup. Capable of going places where conventional trailer-mounted CMS signs never could, a Lightning CMS can function indoors, outdoors, off-road and in the tightest of spaces — and on the tightest of budgets.

Lightning CMS’s flexible design allows it to operate for more than 60 hours on internal batteries or indefinitely on land power. Programming is accomplished by local wireless remote control or by laptop software. It is capable of displaying a new message instantly and can store hundreds of messages for future display — stored in an indelible memory and retained indefinitely.



Local Wireless Remote Programming

Lightning CMS is designed to be set up and operating instantly. It stows in a padded, water-resistant carrying bag and can be mounted on quick-erect posts, wall-mounts or on a vehicle in seconds. Design a custom mounting method for your application.

Lightning CMS Applications

- **Public Health** – at Points of Dispensing (PODs).
- **Emergency Management** – at incident perimeters where motorists and pedestrians approach.
- **Airports** – at security entry points.
- **Street/Highway Departments** – where drivers encounter incidents and infrastructure failures.
- **Public Venues** – transportation stations, parking areas.



Stows in padded, tear and water-resistant zippered carrying case. Shown with optional Quick-Erect Posts.

Specifications

Case	Size H 14.25" x W 49.25" x D 3.5" with carry handle, mounting tabs; windowed, hinged door, water resistant; black powder coat; weight: 41 lbs.
Display	Size 38" x 4.5"; 2176 amber LEDs; maximum readable distance 136' (4.5" text); text 1.25" (dual lines) to 4.5" (single line); selectable text transitions, fonts.
Electrical	AC input; 5A internal 12VDC charger.
Batteries	5 — 12VDC @ 3.3 AH; 16.5 AH total.
Options	Quick-erect posts; vehicle mount (custom).



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Stealth™ Signs



AEL/SEL 10PE-00-UPS

Instant Notification in Any Situation

Stealth Signs provide a means of notifying and directing a large number of people to take action instantly. Suitable for both indoor and outdoor use, their bright LEDs are readable for hundreds of feet, attracting attention across thousands of feet, day and night. Stealth Signs blend into the background when not activated. Available in a variety of sizes, messages and LED colors.

Locate Anywhere – Trigger Anywhere

Stealth Signs are activated using a secure, wireless method that allows them to be located virtually anywhere without regard for placement or range. When a situation occurs, the signs can be triggered quickly from any smartphone with proper authorization. This allows for quiet activation from any location without the need to access a command center, network, office or desktop PC. Alternate activation methods are available, as well.

Notification and Information

Stealth Signs first command attention by their sudden and conspicuous presence, which may be enhanced by alternating or flashing text, strobe and/or sounder (options). The message advises of the situation and encourages immediate action such as “Exit Building Now,” “Proceed To Parking Area” or “Do Not Enter Area.” If the Radio Broadcast Option is selected, viewers may be directed to tune the car radio to a special frequency for additional information or instructions, as they approach or exit a facility.

Custom Options

- Dual Alternating Messages
- Flashing Messages(s)
- Double Sided
- Solar Powered
- Alternate Activation Means
- Strobe
- Sign Dimensions
- SMS Activation by Emergency Notification System



FASTrack™

Quick-Erect Portable Signs

AEL/SEL 03OE-03-SIGN



For Use on Streets and Roadways

Approved for use on rights-of-way and at emergency scenes, FASTrack Signs are ideal for notifying motorists of Information Radio signals.

FASTrack Signs are often used with VoiceStar™ and RadioSTAT™ Portable Advisory Radio Stations to manage incidents or short-term road construction.

The sign panel and stand may be stored connected in the carrying case, when not in use, for quick setup.

Sign Color Guidelines

Sign background and text colors per the *Manual for Uniform Traffic Control Devices*:

- ◆ **Pink** background, black text = emergency information.
Example: emergency management agency or medical facility for disaster, incident or emergency applications.
- ◆ **Orange** background, black text = directional/wayfinding information.
Example: departments of transportation for traffic applications.
- ◆ **Yellow** background, black text = informational.
Example: public health department at a vaccine Point of Distribution (POD).



Jim McClanahan
Safety Director, Porter Health
Valparaiso, Indiana

Technical Specifications

Sign Panel

- Panel: 48" by 48" pink, orange or yellow fluorescent ultra-reflective, flexible vinyl.
- Reflective surface returns more than 60% of light to source.
Text: custom black lettering with optional changeable overlays.
Viewing range: 2,000+ feet, day or night.

Stand

- Aircraft aluminum and coated steel, rust resistant.
- Wind springs accommodate up to 60 MPH wind gusts.
- Quick-release telescoping legs with rubber caps for uneven terrain and curbs.
- Compact size; weight: 20 pounds.

Accessory

- Carrying bag that contains sign and stand assembled. Sign can be stored attached to stand or detached.

Ratings

- All signs are NCHRP-350 approved for use on rights-of-way. Signs with fluorescent pink backgrounds are FHWA/NFPA approved for use at emergency scenes.



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Founded in 1983, Information Station Specialists is the USA's best known source for Information Radio Stations (TIS/HAR), advisory signage and specialized products and services to transmit safety messages to citizens.

