



The Information Station

First licensed by the Federal Communications Commission in 1977 as a “Travelers Information Station,” the Information Station from ISS is now the most installed 10-watt, AM station in the United States — with more than a thousand locations licensed to date! Its popularity stems from its versatility and affordability in a patented package that makes installation and operation simple. Today the Information Station serves a broader array of interests than originally envisioned in 1977. ISS has developed two models to meet customer needs — Classic, USB and IP versions — and is the sole provider in the United States.

Three Versions from which to Choose . . .

Information Station - Classic

Update the broadcast program by microphone, by telephone, by your own two-way radio transceiver or via your personal computer. The Classic version allows you to create up to 50 message playlists for convenient retrieval as needed. Standard recording time is 3 hours and may contain up to 1,000 messages. Choose which messages to broadcast and which to store for future use.

Information Station - USB

Allows the broadcast program to be updated locally by simply inserting a flash drive into the station’s USB port. Affords high quality programming made possible by software-based recording and audio processing. Ideal for station operators who do not require remote program changes but appreciate the convenience of message creation and management on their computers.

Information Station - IP

Update the broadcast program via standard Ethernet network or via its USB port as a backup. As with the Information Station USB, this Information Station version affords the highest quality audio programming and the flexibility of keeping the library of messages on your computer.

We can help you get started with professional recording services.

Optional ISS recording services can make your messages sound crisp and professional. Station operators who join AAIRO – the American Association of Information Radio Operators – receive from ISS complimentary professional broadcast message recordings of general messages. (Visit www.AAIRO.org to learn more about free membership in this nonprofit organization, which is designed to enable information radio operators.)

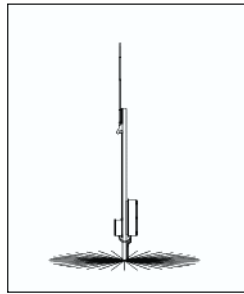
Equipment Array

Information Stations from ISS come complete and ready to install. Included are the transmitter, antenna, factory-assembled groundplane, lightning arrestors, batteries, all cables, connectors, mounts, hardware and illustrated instructions. The housing is a weatherproof cabinet, designed for pole or wall mounting. Three versions of the Information Station are summarized on the preceding page. An optional Vertical Profile Antenna System may be ordered for isolated- or yard-style antenna/groundplane installation styles. A Workstation Audio Control option may be purchased for the Classic version. Companion Flashing ALERT Signs may be purchased for all versions to notify motorists of the station's signal at key locations along streets.

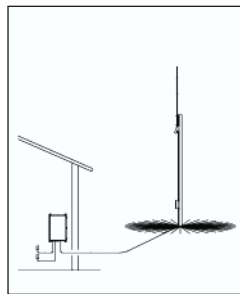
Standard Antenna Installation Styles

Pick the style of installation that best fits your situation. Information Stations may be installed in buildings with the equipment safely indoors, and the antenna located on a pole nearby (yard style). Or the entire station may be installed on a pole at a remote location with power and telephone service connected (isolated).

Isolated Style



Yard Style



Budget

A complete Information Station, licensed, with delivery, engineering, turnkey installation and staff training typically ranges in price from \$17,000 to \$23,000, depending upon selected options. The average cost may be lower if multiple stations are purchased.

System Options

Vertical Profile Antenna System (VP9000)

Minimize ground disturbance for “yard” and “isolated” style installations. The VP9000 attractive antenna system and pole-in-one solution requires only 1 square foot of ground area, no external conduit or wiring to encourage vandalism. It offers low cost to install and is easy to move if required. It is ANSI/TIA rated for high winds.



Workstation Audio Control (for Classic Version)

With drag-and-drop ease, create, edit, store and manage up to 300 hours of natural voice and text-to-speech recordings on an ISS-provided computer. There are no limits on the number of broadcast messages that may be stored. Message groupings may be created for anticipated scenarios and immediately placed on the air. Automatic audio processing within the system ensures high quality audio for transmission. In an emergency, if power is lost, the workstation's uninterruptible power supply allows critical messages to keep flowing while your generator begins operation. If no generator is present, the standard Classic Edition backup phone system may be used. A PC workstation programmed with software and user-interface tools, cables power supply backup and instruction manual are provided.

Flashing ALERT Signs

Flashing ALERT Signs may be placed at key locations along roadways to alert motorists within range of the station to tune in. Flashing ALERT Sign Systems may be custom-designed for your application, with varying power and control methods, sign text, colors and mounting styles. LED flash patterns and sign colors are compliant with the Department of Transportation/Federal Highway Administration's Manual on Uniform Traffic Control Devices (2004, Regulation 2A.08).



Services

As you would expect, ISS offers a full menu of services to help put and keep your Information Station on the air. This includes frequency and site selection, field surveys, FCC licensing, installation and training. All Information Stations require FCC approval/licensing. On a on a first-come, first-served basis, the Federal Communications Commission licenses Information Stations on open AM-band frequencies between 530 and 1700 kHz. ISS can help you find a qualified frequency and apply for an official FCC license. Planning help is free from ISS. The ISS website theRADIOsource.com offers resources (e.g., case studies, technical tips, news) to help keep operators abreast of issues that affect station management. Illustrated instruction manuals come with every Information Station. Purchase includes preparation of professional audio recordings, so broadcasts are ready to put on the air as soon as stations are turned on. Moreover, ISS supplies technical assistance, at no extra charge, for the life of the product.



Who Uses Information Stations?

The Federal Communications Commission (FCC) licenses Information Stations to federal, state and local governments for broadcasting commuter, safety, weather, traffic directions/detours, touring, historical and event information. Operators typically include . . .

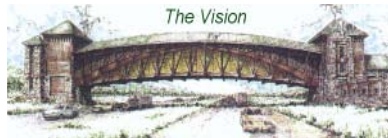
- Airports
- Colleges & universities
- Historic sites
- Industries (with local governments)



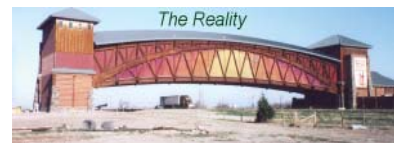
- Municipalities
- Parks (national, state, local)
- Scenic byways
- Tourist attractions

Vision and reality coalesce, creating a new 'somewhere' in Nebraska.

Up and running a week and a half before the Great Platte River Road Archway Monument's grand opening in June 2000 the new Information Station from actually had to be turned off, because it brought in too many visitors



before museum staff was ready to host them. "We had seen radio stations at other top attractions and knew that an Information Station would be crucial for an enroute tourism spot such as the Archway," recounted Jeff Smith of the



Great Platte River Road Archway Monument Project, when asked where the idea for the station originated. Now, with the monument's station in place, instead of being a perplexing (albeit amazing) structure, seemingly in the middle of "nowhere," via the radio, the Archway communicates personality and purpose to more than 12,000 I-80 motorists who pass beneath the giant portal every day on the way westward, something they are likely to remember for years to come.

The State University of New York, Buffalo, reaches people on/near campus.

By acquiring a new radio system, SUNY Buffalo wanted first to improve communication to on-campus travelers regarding daily and event-driven traffic issues. Second, and perhaps even more important, they wanted to broadcast emergency- and weather-related information that would affect campus travel. Finally, the radio system helps university administrators provide additional parking and activity information for guests. They host many extracurricular activities that bring visitors to the SUNY-Buffalo campus i.e., concerts, football games and sporting events. University personnel consider the advisory radio station to be a valuable tool for interfacing with the University community. The project was conceived after talking with contacts from the New York State Thruway Authority.



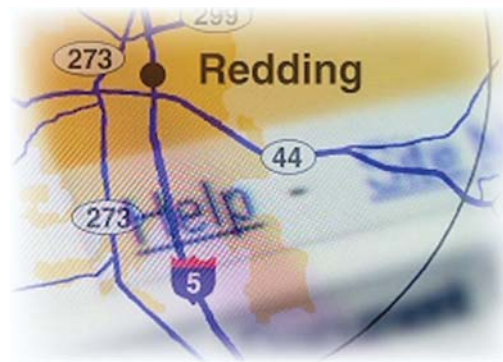
Andersonville National Historic Site increases visitorship 14%.

Two strategically located USB Version Information Stations steer motorists along Southwest Georgia's Interstate-75 to Andersonville National Historic Site. Another station near the park entrance welcomes and informs visitors of site specifics. Broadcast playlists are usually 3 to 5 minutes long to catch people traveling at highway speeds. Billboards announce the stations and their frequencies, i.e., "Tune to 1640 AM." With Andersonville's system is software to quickly change broadcast messages, as special programs are scheduled.

Plan Your Information Station

Step 1: Order a frequency search.

ISS will develop a list of AM frequencies that are open in your area and send them to you with our suggestions and instructions on how to monitor them. Contact ISS to order a frequency search. Provide the general area where the radio station might be located. This service includes the license application work (Step 6, below), as well, once you decide to move forward.



Step 2: Survey onsite listening.

Survey the streets and roadways where listening is required with an automobile digital AM radio tuned to your candidate frequencies. Monitor all of the candidate frequencies throughout the listening area at least once during daylight hours and at least once after dark (see why nighttime monitoring is important). Select the frequency that is best for your needs.

Step 3: Choose a general location for optimum coverage.

Use a map to select a general antenna location such that a 3-mile-radius circle fully encompasses the roadway(s) and streets that require coverage. The signal will usually carry 3 to 5 miles and be heard much farther away on some radios; but the strongest part of the signal will always be in this area. If a certain street, highway or intersection is critically important to cover, consider locations within a half-mile. Mark the map to show the area within which the antenna should be located to meet your coverage goals. Consider where signs will be placed to alert motorists entering the area that the signal is available.

Step 4: Determine the site for antenna installation.

For best coverage, the immediate area near the antenna should be free of objects that exceed 25 feet (about 2 stories.) This includes tall buildings, trees, terrain features, power and communication poles and towers. The radio station and transmitting antenna should not be installed on, or within 50 feet of, the building that contains the radio station's electronics. This does not apply to non-building oriented situations such as isolated-style installations in which a cabinet containing electronic equipment is attached to the antenna support pole.

Step 5: Choose an installation style.

If your site has a building that would host the radio station, choose yard style. If there is no host building at the site, choose isolated style.

Yard Style Installation (recommended)

Equipment in a building with the antenna/grounding system in an adjacent yard. Advantages: low cost, high security. Building Requirements: an area within 50 feet of the building; no underground obstacles or structures taller than 25 feet in the immediate vicinity.

Isolated Style Installation

Equipment and antenna are installed on a pole. Advantage: high flexibility of location. Requirements: no building required. Make certain 120 volts of AC power and telephone service are available at the site and that there is a 40x40-foot area of open ground for pole and groundplane installation.

Optional Vertical Profile Antenna System (for yard or isolated locations)

Equipment and antenna are installed on a pole. Advantage: high flexibility of location. Requirements: no building required. Make certain 120 volts of AC power and telephone service are available at the site and that there is a 40x40-foot area of open ground for pole and groundplane installation.

Step 6: Fill out the FCC license application questionnaire.

Complete and return a questionnaire that gives ISS the information needed to prepare and submit a 10-year FCC license application on your behalf. On the questionnaire, provide information on your antenna operating area, your frequency choice and required names and addresses. The FCC typically takes 3 months to process and grant the authorization and considers the station secondary to standard AM broadcast stations. While waiting for the 10-year license to be granted, you may procure the equipment and build the station, if you wish. **IMPORTANT:** You must have a FCC license in hand to operate; the station must be on the air within 12 months of the license grant date, or the authorization will expire. ISS provides assistance with these important FCC notifications and assists in acquiring Special Temporary Assignments from the FCC, if immediate operation is critical.

Step 7: Consider equipment, options and services.

Contact Bill@theRADIOsource.com (Phone 616.772.2300, x102) to obtain a formal quote and discuss options.

Checklist for Receiving a Quote

Provide ISS . . .

- √ Your name, agency, phone and fax numbers, email address if desired.
- √ Product name (Classic, USB or IP Version).
- √ Installation style: “yard,” “steel roof,” “isolated” and “vertical profile” if desired.
- √ Review options on the “Pricing” page and include them, as desired.

Step 8: Prepare your transmitter site.

You can get ready for installation by preparing your transmitter location. This preparation is detailed in the instruction manual provided with the system and includes 3 primary activities:

Antenna Support System Preparation

For yard and isolated-style stations, this includes setting the antenna support pole, burying the coaxial cable and groundplane in the earth beneath.

Equipment Cabinet Installation

For building-oriented stations, this means locating the equipment cabinet inside the building with the antenna support pole in the yard next to the building. For isolated style stations, it means installing the equipment cabinet on the pole at the antenna site.

Power and Telephone Services Installation

For building-oriented stations, this means making sure the 120VAC power and a shielded-line telephone service are present/installed at the equipment operating location in the building. For isolated-style stations: installing power and shielded telephone line into the equipment cabinet. **NOTE:** Telephone lines are required only for Classic stations.

Contact ISS if you would like an advance copy of your station’s illustrated instruction manual, which details the exact site preparation procedures. Just tell ISS whether you are interested in the Classic, USB or IP Version Information Station and which installation style, frequency and options you have selected. ISS offers installation services and can provide a quote for your project.

Step 9: Plan the broadcast.

The Information Station includes preparation of professional audio recordings, so your broadcast is ready to put on the air as soon as you turn on your station. (See <http://www.theradiosource.com/services-recording.htm> for details about the requirements for free service as well as a contracting option for event-related recordings.)

Distinguishing Features

Information Station Specialists, Inc., is the sole provider in the United States of the exclusive Information Station - Classic, USB and IP versions. Other specific-area radio systems being offered are designed for the traffic industry and cannot perform any of the following important functions.

Only the Information Station offers an antenna system that is simple and compact and may be installed in yards or at locations not associated with buildings. If installed in adjacent building yards, the Information Station's antenna requires only that a support pole be set. Not required are large buried antenna (copper wire) groundplane installation or the burial of chemical-emitting ground pipes. Only the Information Station's antennas are black in color to discourage ice build-up and are finished with a special UV-resistant, architectural-anodization process to prevent color fading. Only the Information Station can include a Vertical Profile Antenna System that does not require a groundplane. Major site disturbances such as surface trenching or drilling for the installation of deep ground rods are not required. The Vertical Profile Antenna System also means: 1) the antenna's cables and arrestors are inside the pole for safety and security; 2) theft of copper ground wire is impossible; 3) it is possible to move the system if required; and 4) the aluminum pole is attractive in conjunction with public buildings and may be painted as needed.



Only the Information Station uses an AM transmitter with a modern synthesized frequency system, so that should a frequency change ever be necessary, it may easily be done without component changes or board-level work. This transmitter, the TR6000, utilizes an efficient Class D amplifier, comprised of only two driver devices for highest reliability. The TR6000 Transmitter is the only such unit manufactured and type-accepted for Travelers Information Station (TIS) applications in the United States.

The Information Station – Classic - provides high quality message recording (16-bit sampling rate), 3 hours of recording time, 1,000 broadcast messages, 50 playlists, automatic station identification and control via user-provided two-way radio transceiver.

The Information Station - USB - is the only system of its kind which allows for simple message creation, editing and file transfer by email via a user's personal computer, and message changes via a simple USB port.

The Information Station - IP - is the only system of its kind which allows for simple message creation, editing and file transfer by email via a user's personal computer, and message changes via Ethernet network.

Only the Information Station comes with no-charge message-recording service by professional announcers.

ISS' electronic designs are nonproprietary. This means that in the future, you may change out components, as needed, without the requirement to return to ISS; i.e., simple wiring diagrams are provided, so you can service equipment yourself, if you choose, or have a third party assist – all with full ISS support.

Additionally, only Information Station Specialists offers technical assistance for the life of the product. ISS supports today radio stations that first went on the air in the 1980s. ISS' staff of engineers has more than 80 years of combined experience specifically in the kind of radio technology under which the Information Station operates (FCC Rules, Part 90.242). This experience level total is more than double that of any other company in the business.

Information Station Pricing

Information Station - Classic

Three hours of recording time and up to 1,000 fully dynamic broadcast messages, operated via voice-prompter-style telephone interface. Yard and isolated style antenna mounts. Transmitter, antenna system, factory-assembled groundplane, digital message player in weatherproof security cabinet. Comes with all wiring, mounts, metering, connectors and instructions. Includes professional recording of your annual broadcast messages, ready to put on the air as soon as you turn on your station.

\$9,995

Workstation Audio Control Option

\$6,995

Onsite Installation, Setup, System Configuration & Staff Training

Inquire

Information Station - USB

Computer-controlled audio programming in Windows-based environment. Ability to transfer MP3 message files via USB on transfer sticks. (Note: a standard PC with sound card and USB port is required to create MP3 files.) Up to one hour airtime, i.e., hundreds of messages in a PC-based library. Yard and isolated style antenna mounts. Transmitter, antenna system, factory-assembled groundplane, digital message player in weatherproof security cabinet. Comes with all wiring, mounts, metering, connectors and instructions. Includes option for professional recording of customer's script, ready to put on the air as soon as the station is turned on.

\$8,995

Audio Management Software (consult with ISS regarding minimum PC requirements)

\$ 395

Microphone & Headset for PC (required for Audio Management Software)

\$ 89

Information Station - IP

Additionally allows program updates via standard Ethernet network plus USB versopm features above as backup. Yard and isolated style antenna mounts. Transmitter, antenna system, factory-assembled groundplane, digital message player in weatherproof security cabinet. Comes with all wiring, mounts, metering, connectors and instructions. Includes option for professional recording of customer's script, ready to put on the air as soon as the station is turned on.

\$9,995

Audio Management Software (consult with ISS regarding minimum PC requirements)

\$ 395

Microphone & Headset for PC (required for Audio Management Software)

\$ 89

System Engineering & Planning

One per series of stations.

\$ 750

Equipment Options

Vertical Profile Antenna System for yard and isolated style installations; includes aluminum antenna pole.

\$2,495

Flashing ALERT Sign System with MUTCD-compliant sign panel with remote control/power unit; four signs per controller; optional power/control methods, panel color, text and mounting styles.

1 sign 1 controller

\$1,995

For each sign panel added

\$ 495

Additional Service Options

Site Choices and Frequency-Monitoring Assistance

ISS technicians will visit and assist in selection of transmitter location(s) and monitor candidate operating frequencies. Ask ISS if this service is recommended for your project.

Inquire

FCC-Licensing Assistance

Package price includes AM frequency search, engineering study, FCC filing and FCC-required construction notification. (Federal entities obtain licensing through frequency coordinators in their agencies.)

\$ 790

Installation Assistance

This service package allows you to prepare the physical site while ISS handles electronic tuning, testing, installation, FCC documentation and staff training.*

Inquire

Turnkey Installation

Inquire

Professional Recording Services

General Messages.

N/C

Event-Related Messages:

Annual with 1 message change

\$ 195

Seasonal with 4 message changes

\$ 495

Monthly with 12 message changes

\$ 995

Weekly with 12 message changes

\$1,995

Shipping, Terms, Warranty

Ground freight is prepaid by ISS. Product availability is typically 30 days after receipt of the order.

Terms: Net 30 days to governmental entities and their agents; check-with-order or cash-on-delivery for initial orders from private-sector entities. Mastercard/VISA accepted for contracts under \$3,500. Prices listed above are suggested retail, subject to change without notice. Call ISS for a firm quote, guaranteed for 180 days.

There is a 1-year parts-and-service warranty. Note: the warranty is void if the customer modifies the product. ISS provides technical support for the life of the product, 24/7. Purchases from ISS are subject to a standard-terms-and-conditions agreement signed by the purchaser, becoming part of the contract. (Hardware by Dell for Workstation Audio Control on the Classic version has a 3-year, onsite warranty with next-day service. The software has 1-year email support. The Audio Science sound card has a 1-year manufacturer warranty. Upon delivery, 1 year of phone support is provided by ISS (24 hours/7 days a week) technical staff for operation and troubleshooting all Work Station Audio Control hardware and software. Warranty is void should the configuration of components, hardware or software be modified (modified with respect to their operating environment) subsequent to delivery.)

***Typical Division of Labor**

The customer provides physical transmitter/antenna site prep, including antenna support installation (wood pole or ISS-provided antenna stand), ISS-provided cabinet, coaxial cable, groundplane, power/telephone services into the cabinet, access to any pre-shipped components and to the transmitter/antenna locations to facilitate installation and tuning of electronic components. Depending on the style of installation, excavation, conduit/electrical service components, e.g., circuit breakers, meters or fuses and access devices, e.g., ladder or bucket truck, might be included. ISS provides provides installation and testing of all electronic components, component wiring, cable preparation, antenna tuning, FCC-required field intensity testing/documentation and staff training. Quotes will include all travel, labor and expenses.

Technical Specifications

Transmitter

- 0-10-watt operation, Class D, high efficiency output; internal components rated to 3 times operating wattage, utilizing 2 output devices.
- Federal Communications Commission certified for Travelers Information Service in the United States under Part 90.242., Certification Number B7MTR-6000TIS-WB.
- IPC-610 certified.
- Manufactured in compliance with Class 3 wavesolder standards.
- Approved for US Military use.
- Single-board design with all RF, power and audio circuitry.
- Integral LED wattage and VU reference meters.
- Remote broadcast monitoring control.
- Synthesized frequency selection, compander-style audio processing.
- Defeat-able LED operation to save power.
- 24 VDC, fully regulated power supply.
- 530 to 1700 kHz AM frequency range.
- Frequency stability +/-20 Hz.
- Continuously adjustable power and audio modulation controls, externally accessible on front panel.
- Tunable series filter on RF output.
- Audio distortion: less than 1.2%, 100 Hz to 3 kHz.
- Noise level: 70 dB below 95% modulation level, 100 Hz to 3 kHz.
- Modulation: 99%, -40 dB to #20 dB.
- Temperature: -40 to +85 degrees Celsius.
- Humidity: 95% (non-condensing).
- External audio, power and synchronization inputs.
- External PL-259 UHF style RF output and 1/4" audio headphone output driven by detector circuit to provide positive modulation indication.
- Rack, panel or shelf-mountable cabinet.
- Slim-line design (7.5" height, 17" width, 1.5" depth) and 4 pounds.
- Mean time between failure - in excess of 60 years.
- Estimated product life = in excess of 30 years.

Classic Digital Message Player

- Voicemail-style operation with 800-word/phrase capability; voice prompts and status report on available recording time, sequences, security codes, programming parameters and complete status of current audio program, relay states, power.
- Identical remote and local control codes.
- High quality (16-bit sampling rate) recording process, yielding 5500-Hz dynamic range.
- 1,000 independent broadcast messages of any length; each may be independently monitored and later erased, as desired.
- Automatic message scheduling by time, day, date; internal clock keeps time even with total loss of power.
- 50 message playlists that may contain hundreds of broadcast messages, up to 3 live sources (each with independent timing control), command for up to four external relays, other (nested) playlists and differing output levels for each audio output. Playlists may be created, recreated or appended locally or

remotely. Selection of active playlist locally or remotely.

- 3 hours of recordable time in dynamic flash memory.
- 3 audio inputs for separate and independent live program feeds, each with independent audio level controls. 3 audio outputs with audio levels settable locally, remotely or programmed to change automatically.
- 1-to-9-digit security access code, defeatable phone prompting, programmed locally or remotely. User sets number of retries and timeout period for maximum security. 5-second and full-message survey monitoring of all stored messages and playlists.
- 8 prioritized control closures to trigger message sequences remotely. Control closure prioritization allows automatic interrupts for emergency messages and automatic National Weather Service all-hazard radio notifications (weather and EAS).
- Pre-recorded emergency messages by professional announcer included -- ready for broadcast. Station identification message broadcasts automatically every half-hour.

Optional Workstation Audio Control

- Convenient screen-based drag-and-drop control of broadcast messages. Create, edit, store and manage up to 300 hours of natural voice and text-to-speech recordings. No limits on number of broadcast messages that may be stored. Message groupings may be created for anticipated emergency scenarios and immediately placed on the air. Automatic audio processing within the system ensures high quality audio for transmission. If power is lost, the workstation's uninterruptible power supply allows critical messages to keep flowing while your generator begins operation. Where no generator is present, Information Station may continue to be operated via telephone, if battery backup has been optioned or if the AM station location has generator backup. Physical setup includes a configurable, stand-alone, PC workstation, preprogrammed software with user-interface tools, cables, power supply backup and an illustrated instruction manual. High quality audio output can be sent to a wireless audio link, leased line, distribution amp or direct feed to transmitter systems.
- Program Management Software allows drag-and-drop control of up to 300 hours of broadcast .wav messages from an active PC control screen; unlimited number of broadcast messages in library; 2-10 broadcast messages in rotation on screen.
- Optional Studio Software Packages with audio management software for recording, graphic editing and storage of natural voice .wav messages; automatic audio processing and optimization for highest AM broadcast quality, intelligibility and signal distance; text-to-Speech module for creation of broadcast messages directly from imported or typed-in text.
- Hardware that includes uninterruptible power supply; cables and software interface tools; complete, configured PC with . . .
 - Flat panel monitor.
 - 74GB operating System hard drive.
 - 230GB hard drive for recording.
 - 1 GB RAM.

- Core 2 duo processor.
- Mouse.
- Keyboard.
- Sound card.
- Headphone-mic set.
- Power surge arrestor.
- Live audio mixer (internal).
- Complete factory setup.

USB Digital Message Player

- Local operation.
- File format: MP3.
- Memory storage: internal 11 MB, external 1 GB.
- Software required: none for message transfer; optional software for message editing.
- Message loading: removable USB flash drives; 6 provided; drag-and-drop MP3 messages from PC USB port.
- Compatibility: Windows-based computer.
- Recording time: 2,000 minutes per flash drive; up to 1,023 messages, auto rotation; message sizes can be variable; message order is sequential message play based on file order.
- Memory format: "Flash" - no battery backup required.
- Audio outputs: 8 or 600 ohms with auto reboot on power outage. Power: 12 VDC.
- Optional audio management software, PC microphone and headset (consult with ISS for minimum PC specs).

IP Digital Message Player

- Solid-state, digital audio player device that provides the maximum in flexibility and affordability when used to manage broadcast messages.
- Users upload new audio remotely via Ethernet connection or onsite by using a removable USB flash drive. For Ethernet applications, the audio may be delivered and managed remotely via LAN/WAN without the need for proprietary software. The USB port may be used as an alternative for users choosing to update the audio via USB flash drive. Both methods of delivery accept a standard MP3 audio file.
- Flexible installation in which users may mount the device to an equipment panel or in a server rack environment.
 - Features:
 - Network delivery: Ethernet connection allows remote audio upload via the LAN/WAN. Built-in GUI allows user to upload 20 MB (21-minute) file, assign static IP settings and control volume.
 - USB delivery: if Ethernet delivery is not available, user may update audio onsite by removable USB flash drive, (drag/drop MP3 files into flash drive, insert into USB port for instant output).
 - LCD display: displays device IP information, volume level and configuration settings. In USB mode the LCD displays audio file currently played.
 - MP3 compatible: Ethernet and USB flash drive delivery options compatible with standard MP3 audio files. Recommended MP3 bit rate of 64-128 Kbps.
- Specifications:
 - Weight: 3 lbs (boxed).
 - Dimensions: 2"x7"x4"-wall unit; 2"x19"x4"-rack unit.
 - Audio format: Ethernet (MP3 up to 256 kbps); USB (MP3 up to 256 kbps).
 - Download software: Ethernet built-in GUI; USB none required.

- Power source: 12V DC @ 800 mA.
- Audio output: 600 ohms (line out) and 8 ohms (amplified).

Antenna

- Mounting styles: yard and isolated.
- Whip-style antenna, between 15 and 25' long.
- Wind rating: antennas 1230 kHz and above 100MPH, 80 MPH with 1/4 radial ice; antennas 1220 kHz and below 80 MPH, 50 MPH with 1/4 radial ice.
- Max 2.0" OD, tapering to 0.5".
- Aluminum construction, black finish color to discourage ice buildup. UV-resistant finish, architectural anodization process #801.
- Stainless-steel tuning tip.
- Includes all hardware, mounts, lightning arrestor and ground terminals in enclosure.
- Includes PowerPlane factory-assembled antenna groundplane.

Optional Vertical Profile Antenna System

- Space requirement: less than 1 square foot.
- RF grounding element: 4' length; integral to support pole.
- Lightning ground: 8' groundrod, copper clad.
- Support pole composition: aluminum, 6" OD, .3125" wall thickness.
- Support pole length: 24'.
- Support pole finish: powder coat, silver/gray.
- Support standing height: 18' above grade; 6' below.
- Wind: hurricane rated. 1400-1700 kHz, support pole exceeds Florida Dade/Broward County windload requirements with attached antenna, greater than 146 MPH/3-second gusts. 530-1390 kHz, support pole meets and exceeds Florida windload requirements with attached antenna, 130 MPH/3-second gusts. (Florida Building Code – 2001).
- Internal components: RF lightning arrestor, grounding bus, coaxial feedline.
- External components: threaded attachment for antenna mount, weatherproof service hatch with tamperproof hardware. Crane hook.
- Frequencies: 530-1700 kHz.
- Compliant with ANSI/TIA-222-G-2005 standard (Class III, Category 4, Exposure D) 130 MPH/3-second gust for frequencies 1400-1700 kHz when installed in soil types per Annex F of the standard.

Security Cabinet

- Weatherproof, gasketed NEMA-4 steel construction.
- Indoor or outdoor use (includes wood pole mount).
- Back panel with wiring harness, local test phone.
- Includes AC-terminal block and power-surge arrestor.
- Pad-lockable design. 36"Hx24"Wx8"D size for Classic version; 24"Hx24"Wx8"D size for USB & IP versions.

Utilities Required

- 110 VAC, phase/50/60 Hz, less than 1 amp AC operating current, 4-amp maximum AC charging current (20 A breaker, non-GFI circuit).
- Standard business telephone line ("central office" type, shielded).

Test Equipment

- Includes wattmeter and dummy load for antenna tuning and system diagnosis.

Associated Materials

- All wiring, connectors, mounts and hardware.

Services

Technical Support Provided

- Remote technical assistance no extra charge for the life of the product.

Broadcast Support Provided

- Station operators who are members of the American Association of Information Radio Operators (AAIRO.org) receive broadcast recording services of general messages for the lives of their stations.

Illustrated Instruction Manual Provided

- Complete installation, operation and maintenance instructions, enhanced with diagrams.

Optional

- Site choice and monitoring.
- Preinstallation testing.
- Frequency search and FCC licensing (federal entities must provide licensing internally).
- Installation, including training and a FCC signal study.
- Professional recording services for event-oriented broadcasts.

Companion Product

Flashing ALERT Sign System Option

Sign Face

- Typical: 44"Hx24"W, customizable.
- 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: 8 A, 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"Hx16"Wx10"D.
- 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.

Remote Control & Power Unit Electrical

- Solar panel: typical 40-watt, 2.40 A at 12 VDC, 38.38"x17.13".
- Solar panel mount: side-of-pole, band or bolt-on.
- Solar controller: 6-amp current capacity, LED charge indications.
- Low voltage disconnect circuitry.
- Battery: 55 AH, AGM, sealed type.

Remote Control & Power Unit Control

- Capacity: up to 4 flashing signs.
- Control wiring: #14 AWG, each a maximum of 1,000 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 method: commercial paging, POCSAG/flex formats.



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