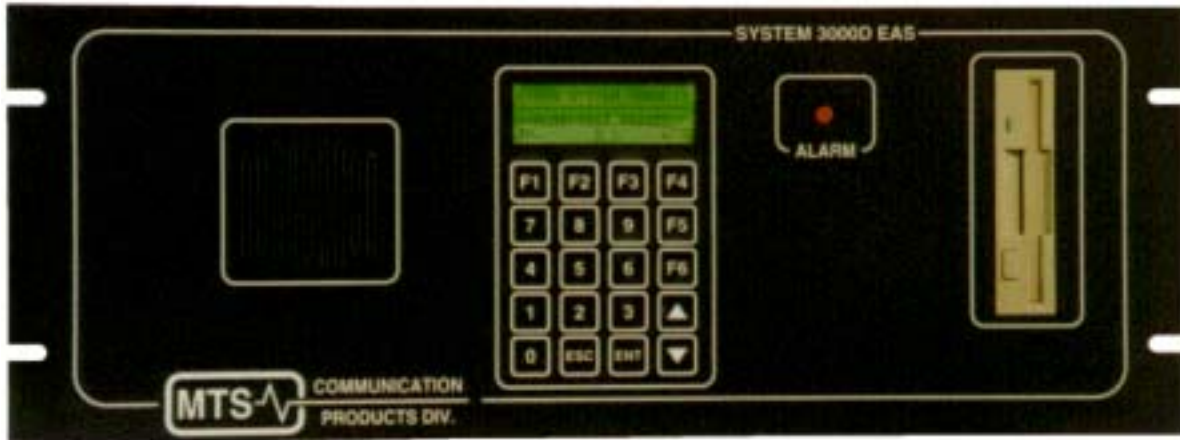




FEDERAL SIGNAL CORPORATION
Federal Warning Systems

System 3000D EAS



THE ONE BOX EAS SOLUTION IS HERE!

There are many EAS Encoder/Decoders, but only one System Level Solution.

Standard Equipment includes...

FOUR EAS Inputs --- THREE receivers - ONE audio

Three frequency-agile internal receivers for AM, FM, and National Weather Service
(available in any combination)

Digital Audio Recorder and Player with 15 kHz bandwidth and HOURS of storage time

Front panel display

Standard parallel printer port --- pick your own printer

Internal log records all EAS events for the past year

Internal Hard Drive for storing all incoming and outgoing messages

User-programmable Digital controls for automation and/or remote-control interface

Unlimited programmable event and location codes

Programmable response to each event/location code combination

8 uncommitted inputs

8 outputs

4 uncommitted user-programmable relays

Program audio loop-thru



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Mute input for live studio microphone

1 dedicated EAS audio input

Rugged 20 Key Keypad

Audio loop relays with line drivers

1 Line Level Audio Input

8 Logic Level programmable inputs

Line Driver Outputs for each receiver

1 Parallel Printer port

850MB Hard Drive (min.)

Detachable Terminal Board interconnect

Quiet design, no fan

Standard "AT" type keyboard connector

19" EIA Rack Mount, 7" high, 16.5" deep

EAS and WRSAME compatible

EBS Attention Signal Generator

Complies with FCC Part 11

3 user selectable Receiver/Audio EAS inputs

Backlit LCD Display

Internal Speaker

Programmable relay contacts (4 Dual Form C's)

2 600-Ohm transformer coupled line driver outputs

8 Logic Level programmable outputs

2 Serial data ports

3.5" Floppy Drive

Hours of 15 kHz audio storage/playback

BNC antenna connections

Flexible, expandable, software controlled system

Optional SVGA video card

115 VAC +/- 15% 60 Hz @ 1 ampere Max.

Output Level -20 to +8 dBm adjustable

1050 Hz tone detector/stripper for NOAA tone

List Price \$4,450

Printer Model: SSP . . . \$ 600

What is the diskette drive for?

The diskette drive is how you'll update the System 3000D software. When new features are added, the update involves putting the diskette in the drive and pressing a button.

When new event codes are added to EAS you'll just slip a diskette in the drive, and in a matter of seconds, you'll have the new data in place. (Sure beats invasive surgery involving screwdrivers and EPROM's, eh?)

The drive is also a convenient means to archive your EAS events log.

Where is the printer? I thought the FCC required us to print the logs!

There is an industry-standard parallel printer connection on the back of the System 3000D. If you decide to use a printer, just plug it in there. The FCC requires stations to keep a record of EAS events, but the rules do not limit your choice to a single method.

System 3000D keeps the required records for you on the built-in hard disk drive. You can copy the records to diskette for transfer to any text editor, word processor, spread sheet, or other programs running on your PC. You can also print the logs by connecting a printer to the 3000D.

Have you ever tried to read a cash register receipt a year after it was printed? Did you notice the severe fading problems with that sort of printout? We did, too.

EAS logs can also be reviewed on the front panel display. Unlike other EAS systems, the 3000D also records and archives the entire EAS event, allowing you to replay the data and the audio message accompanying it. With several hours of audio storage on board, you'll be able to keep many months of EAS events available for instant review.

What is the quality of your audio storage?

Audio stored in the System 3000D is digitized at 32,000 samples per second into 16 bit, uncompressed, linear pulse-code modulation data. The effective audio bandwidth is 15 kHz. This yields an exceptionally high quality of clear audio.

What about receivers?

Three receivers are built into the System 3000D. One receiver is dedicated to National Weather Service frequencies --- the other two can be your choice of AM or FM broadcast units. You can have two AM, two FM, or one of each, according to your monitoring assignments.

How do I tune the receivers?

All three receivers are synthesized, which gives you the ability to tune them as your needs change. You tune the receivers to a new frequency from the front panel of the System 3000D.



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EAS Encoder II Software Package for Win95 PCs

The Premier Solution for generating EAS messages right from your Win 95 PC!

Tired of dozens of keystrokes to send EAS?
Wish it were 3 mouse clicks? IT IS !!!

Generate EAS anywhere, anytime with your PC!
Use as a remote front end for your existing EAS!
Pre-build up to 10,000 events with audio!

The screenshot shows the 'Encoder II - Evaluation Mode' window with the following configuration:

- Buttons: SEND EAS MESSAGE, EDIT TEMPLATES, ADMINISTRATION
- Event Type: RWT (selected), GENERIC REQUIRED WEEKLY TEST
- Duration: 01:00
- LOCATIONS: A grid of 30 checkboxes. The first checkbox is checked for '037101 JOHNSTON NC'. The others are '000000 UNDEFINED LOCATION'.
- AUDIO MESSAGE: NO AUDIO, PRE-EVENT, AUTO BASIC INFO, EXTENDED INFO, LOCAL RECORDING, POST-EVENT 1, POST-EVENT 2
- RECORDER: PLAY, RECORD LOCAL
- ALERT TONES: NO TONES, EAS 2-TONE SIGNAL, NWR PUBLIC ALARM, CUSTOM TONE 1, CUSTOM TONE 2
- ROUTING: LOCAL, 2-WAY RADIO, TELEPHONE
- Button: CLICK CONFIRM TO GENERATE MESSAGE
- CONFIRM button
- Message ID: ZC2C-CIV-RWT-037101+0100-1171850-WHAT/FM -



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EAS Encoder II Software Package for Win95 PCs

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Encoder II features include:

Automatic Audio Message Generation from pre-recorded natural voice audio files

Up to 10,000 Event Templates for pre-defined events

3 mouse clicks to send any pre-defined event

Record on-the-fly messages for events not already defined

Stores up to 60,000 Audio Messages

Pre and Post Event Audio

EBS and NWR Attention signals

Custom Control Tones

Database including all US FIPS codes, all event codes.

EAS Encoder II Software Package - \$ 750
Compatible with Win '95 Operating System
Requires sound card
Specify CD-ROM or 3.5 inch Floppy Disks

Encoder II can be used as a front-end software package to nearly any EAS Encoder unit, or can interface directly from a PC to a Radio via the Radio/Telephone Interface. Encoder II can also be used as a remote site EAS encoder when purchased with both the Radio/Telephone Interface and the Telephone Interface products.

Radio/Telephone Interface List Price: \$350

Telephone Interface List Price: \$350



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MTS Telephone Interface

The Telephone Interface is used in conjunction with Encoder II and the Radio/Telephone Interface in order to operate Encoder II from a remote location (See Radio/Telephone Interface literature)

Accessory Connector Connections

Pin 1: To EAS Decoder Input +

Pin 2: To EAS Decoder Input -

Pin 3: Loop Input +

Pin 4: Loop Input -

Instructions:

Connect Pins 1 and 2 to EAS decoder Input

Connect to Phone line

Connect to power supply

Size: 2.8" (w) x 5.4" (l) x 1.2" (h)

Weight: 18 oz.

Shipping Weight: 2 lbs

Power Input: 12VCD @ 100mA max
115 VAC Power Supply (provided)

Telephone Connector: RJ-11 6/4 Modular

I/O Connector: Detachable Terminal Block

Intended for use with Encoder II software and Radio/Telephone Interface products.



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MTS Radio/Telephone Interface

The Radio/Telephone Interface allows Emergency Management Agencies to send messages directly from a PC running Encoder II software to a radio transceiver for sending EAS messages. Additionally, by connecting the Radio/Telephone Interface to a phone line, Encoder II can be used remotely to send messages to a EAS Decoder at another location which is connected to a Telephone Interface unit.

Auxillary Connector

Pin 1: Microphone Audio

Pin 2: Mic Low

Pin 3: PTT A

Pin 4: PTT B

Instructions:

Connect Line Input to PC Sound Card Line Output

Connect to Phone line

Connect to power supply

Size: 2.8" (w) x 5.4" (l) x 1.2" (h)

Weight: 18 oz.

Shipping Weight: 2 lbs

Power Input: 12VCD @ 100mA max

115 VAC Power Supply (provided)

Telephone Connector: RJ-11 6/4 Modular

Radio Interface: Detachable Terminal Block

PTT Control: Contact Closure

Microphone Output Level: -55 dBm

Intended for use with Encoder II software and Telephone Interface Products



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EAS Encoder II Software Package for Win95 PCs

Connection Options:

Encoder II is a Windows based software package designed to operate as either a stand-alone EAS Encoder or as a Graphic User Interface (GUI) for an EAS Encoder System.

Encoder II outputs EAS data through a computer soundcard. This allows Encoder II to play three important potential roles in the Encoding of EAS messages.

- 1) Encoder II can operate as a front-end software package for an EAS Encoder System. To operate in this fashion, Plug a standard speaker cable (not included) into the speaker output of the computer soundcard. Then connect the speaker wire to the Audio Inputs on the EAS Encoder/Decoder system.
- 2) Encoder II can operate as a stand-alone EAS Encoder. To operate in this fashion requires a MTS Radio/Telephone Interface (sold separately). Plug the speaker connector into the speaker output of the computer soundcard and connect the Radio/Telephone Interface to the radio transceiver. The Radio/Telephone Interface has the PTT Control included.
- 3) Encoder II can operate as a remote EAS Encoder. To operate in this fashion, utilize the Radio/Telephone Interface as above. Then plug the Radio/Telephone Interface into a phone line. At the main location, plug the phone line into the MTS Telephone Interface unit (sold separately). Connect the Telephone Interface unit to the EAS Encoder/Decoder System.

You will note that Utilizing the Radio/Telephone Interface allows an operator to simultaneously send EAS data to both a radio transceiver and to a phone line.

For operation instructions, please see the Encoder Help section available upon install. Follow installation instructions on the Encoder II CD cover.