

- Models I-HIOW, I-UIOW, I-HIO and I-UIO

## Informer Tone-Alert Radio



Alerting the public of an emergency situation is now easier and more reliable than ever with Federal Signal's Informer I-HIO and I-UIO radio receivers. Informer units are designed for one-way radio alerting applications.

Informer Radio receivers come in either VHF or UHF-band models. Standard units decode DTMF, single-tone, and two-tone sequential signals (optionally available are units for decoding EAS/SAME or Federal Signal digital protocols). The Informer is capable of generating four separate alarm sounds that can be accompanied by a live voice message.

Informer units include a LED panel that flashes to immediately indicate transmission of an emergency alert. Other features include a 600-Ohm audio output, dual (N.C./N.O.) relay for external control, built-in diagnostics, and an LED test indicator. The receiver can be programmed to disable the "monitor" button in order to prevent end-users or unauthorized persons from listening to local-channel activity.

The Informer I-HIO and I-UIO desktop versions feature an external AC transformer for power, as well as built-in battery backup. All wiring is routed to connectors located on the back of the unit for convenient access.

Informer I-HIOW and I-UIOW receivers are designed to be wall mounted or recessed into the wall. All wiring is contained within the aluminum case, and five pre-punched, easy-to-remove conduit holes are available to facilitate wiring connections into and out of the unit. Informer I-HIOW and I-UIOW receivers include a 115/230VAC power supply pre-wired to internal terminal blocks and a built-in battery backup. These models feature mounting holes for easy top mounting of an optional Federal Signal LP1 Strobe light. Units are pre-wired to accommodate the LP1 Strobe which operates off the Informer's internal power supply.

Informer units are factory programmed for narrow-band operation and come with a one-year warranty (see owner's manual).

### F E A T U R E S

- Instant alerting and notification for emergency situations
- Rugged metal enclosure with internal wiring
- High output speaker for tone and voice notifications
- Optional EAS/SAME or Federal Signal digital protocols
- Windows®-based software for easy programming
- DTMF and two-tone decoding – standard
- Desk or wall mounting models
- External audio and control capabilities
- US ETL Listed to UL Std 60065
- Canadian ETL Listed to UL Std 60065 for I-HIOW and I-UIOW

## Informer Tone-Alert Radio (I-HIOW, I-UIOW, I-HIO and I-UIO)

## S P E C I F I C A T I O N S

Frequency Range (MHz)	150-170	405-420*
Narrowband:	N	N
Intermodulation Rejection per EIA-603, part 4.1.9	>-75	>-70
Adjacent Channel Selectivity per EIA-603, part 4.1.6	>-70	>-65
Spurious Response & Image Rejection (dBm) per EIA-603, part 4.1.8	>-75	>-70

\*Frequency 405-420 special order requires ES-SMV. Contact factory for quote.

Reference Sensitivity <sup>1</sup> : (12dB SINAD)	< 0.35 microvolts
Hum and Noise <sup>1</sup> : Squelched	> -57 dBc
Unsquelched	> -37 dBc

**AC Transformer (UL Listed)**

Input:	I-HIOW/UIOW	115 to 230VAC, 50/60 Hz
	I-HIO/UIO	108 to 128VAC, 60Hz
Operating Environment:	-22° F to 140° F	-30 to +60°C
Operating Current:	I-HIOW/UIOW	350mA Maximum
	I-HIO/UIO	<400mA Max

**Standard Signaling Formats**

Number of codes	Up to 6 activation codes, programmable
Two-Tone Sequential or Single Tone	300 Hz-3000 Hz, tolerance +/- 1.5%
DTMF	1-12 digits
Two-Tone and DTMF Decode Sensitivity	<20 dBc SINAD
CTCSS/CDCSS	

Decode with two-tone codes >400 Hz only.  
Tone frequency range 36.6 to 254.1 Hz,  
Tone accuracy >.05Hz  
Tone decode bandwidth +/- 1.1%

Digital, golay (23,12) 23 bit digital word  
Digital data rate 134.4 Hz nominal

Decode	Turn on time <250ms., Turn off Time <1.2s.
Acoustic Output: <sup>2</sup> I-HIOW/UIOW	80 dBc
I-HIO/UIO	85 dBc

**External Control/Audio/Antenna**

Dual (N.O./N.C.) relay:	5a @ 30VDC
600 Ohm output:	50mv - 2.5vpp into 600 Ohms
Antenna:	Removable rubber duck
External Antenna Connector:	50 Ohm, BNC female

**Physical Dimensions H x W x D:**

I-HIOW/UIOW		8.3" x 7" x 3.3"	
		210.8 mm x 177.8 mm x 83.82 mm	
I-HIO/UIO		5" x 7" x 2-1/2"	
		127 mm x 177.8 mm x 63.5mm (10°incline)	
Weight:	I-HIOW/UIOW	3.2 lbs	1.45 kg
	I-HIO/UIO	4 lbs	1.81 kg

<sup>1</sup> Receiver specifications referenced to TIA/EIA 603

<sup>2</sup> Acoustic Output measured at 10' on axis in an anechoic environment.  
User configurable soft-tones (approximately 55 dBc).

## H O W T O O R D E R

**Description****Part Number**

VHF high band, 151-174 MHz - wall mount*	<b>I-HIOW</b>
UHF band, 450-470 MHz - wall mount*	<b>I-UIOW</b>
VHF high band, 151-174 MHz - desk mount	<b>I-HIO</b>
UHF band, 450-470 MHz - desk mount	<b>I-UIO</b>

There is a programming fee associated with Informers programmed at the factory. Contact your local representative for a quotation.

\*Units build prior to mid-2015 do not have battery backup.

## O P T I O N A L A C C E S S O R I E S

**Description****Part Number**

Installed EAS	<b>I-EAS</b>
Field installable EAS kit	<b>I-EAS-KIT</b>
AFSK installed	<b>I-FSK</b>
Field installable AFSK kit	<b>I-FSK-Kit</b>
Programming software	<b>I-SW</b>
12VDC Strobe compatible with I-HIO and I-UIO models (can be powered by internal power supply)	<b>LP1-012*</b>
Battery	<b>155191A</b>

\*(A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red

**Optional Signaling Formats**

Federal Signal (MSK) Digital Option	1200, N, 8, 1
Synchronous, 1200 Hz mark tone, 1800Hz space tone	
Digital Decode Sensitivity	<20 dBc SINAD
EAS/SAME Option	User programmable to any EAS event codes and up to three (3) location codes
EAS/SAME Decode Sensitivity	<20 dBc SINAD

A flush mount kit is included for recessed applications as shown.

