**Обзор современных устройств скремблирования**



**MIDIAN DVE-1 128 bit AES Digital Voice Encryption Module**

## DESCRIPTION

**Midian's DVE-1 series is a new Digital Voice Encryption module offering multiple levels of voice security.**

**When used with the** [**CAD-800**](https://www.midians.com/specs/gps-tracking-gps-dispatch/cad-800) **additional features are available including:**

* **OTAR**
* **Over the air data encrypted using Midian's Fleet Management Protocol**
* **Leading and/or trailing PTT ANI and Emergency ANI (ENI) displays on the CAD-800**
* **Selective call for Individual, Group and All Call**
* **Querying a unit to transpond back to the CAD-800 when called to see if the radio is working or in range**
* **Spy mode where the CAD-800 can eavesdrop on a lost or stolen unit**
* **Disable and re-enable (Stun) a lost or stolen unit from the CAD-800**

## FEATURES

* **3 encryption levels: 128 bit AES, 48 bit and 16 bit encryption**
* **Number of possible codes: 3.4 x 1039**
* **Number of selectable keys: 4**
* **Capable of inversion scrambling allowing for interoperability with pre-existing systems**
* **2400 BPS modem data rate over the radio channel (sounds like white noise)**
* **Plug-in versions available for Datron, Hytera, Icom, Kenwood, Motorola, Simoco, Tait & Vertex radios**
* **Can be used in most HF/VHF/UHF radios with FM or conventional AM modulation**
* **ANI available using Midian's FMP format**
* **Emergency ANI using a side button (when available on radio)**
* **After Emergency ANI the radio's speaker can sound emergency locator tones to aid rescuers in locating users in distress**
* **Option available for automatic emergency ID activation by Man Down - Lone Worker sensor**
* **Programmable via Midian's KL-4F Programmer**
* **Programmable audio levels**

**VPU-12A User-Programmable Voice Inversion Scrambler**

## DESCRIPTION

**Midian's VPU series of inversion voice scramblers protect your voice communications against casual listeners. By mixing the frequency of the voice with an inversion tone in a balanced modulator, sum and difference frequencies are created. A low-pass filter eliminates the sum and the difference is transmitted as "inverted voice". The "inverted voice" undergoes an identical process on the receiving end that reconstructs the voice.**

**Midian's VPU-12A is compatible with Motorola's VPA, MX-Com's MXP-1080/1180 series, Transcrypt's SC20-400 and SC20-401, Selectone's ST-20 and others.**

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## FEATURES

* **Mode indication tones**
* **Programmable via Midian's KL-4F Programmer**
* **Protects against casual listeners**
* **Scramble/clear mode is selectable**
* **Small size fits into most radios**
* **Superior audio quality**
* **User-programmable for up to 16 codes**
* **User-programmable to any inversion code between 2100 - 4096 Hz**

**VS-1100 Icom UT-109 & XPTO Compatible Double Inversion Scrambler**

## DESCRIPTION

**Midian's VS-1100 series of double inversion voice scramblers (aka split-band scrambler) protect your voice communications against casual listeners. Midian's VS-1100 is compatible with Icom's UT-109 and Inysa's XPTO (Señalizacion y Telecontrol).**

## FEATURES

* **Programmable through the radio**
* **User-programmable for up to 4 codes**
* **Excellent recovered audio quality & speaker recognition**
* **Mode indication tones**
* **Plug-in versions available for Datron, Hytera, Icom, Kenwood, Motorola, Simoco, Tait & Vertex radios**
* **Programmable via Midian's KL-4F Programmer**
* **Protects against casual listeners**
* **Scramble/clear mode is selectable per-channel or using a radio button**
* **User-programmable for any of the 32 double inversion codes**
* **User-programmable for up to 16 codes**
* **3 year warranty**

# DVE-1-HS1

# H-250 Handset with AES-128 Strategic Level Voice Encryption for Military Manpack Radios

# DVE-1-HS1

# H-250 Handset with AES-128 Strategic Level Voice Encryption for Military Manpack