

Main Benefits:

- Miniature packaging
- Records as .wav file
- Removable Micro SD /SDHC media card – no downloading!
- Concealment options
- Up to 8 hrs recording capacity (with on-board battery)
- Excellent sound quality
- Easy to use

Recommended Uses:

- Body worn surveillance
- Fixed installations
- Concealments

Ideal Users:

- Live surveillance teams
- Technical investigators
- Intelligence and counterintelligence operators
- Military LE groups
- IG offices

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SCALE II

Extremely miniaturized, digital, covert body recorder



Highly concealable, highly flexible, and highly effective, the SCALE II digital stereo audio recorder is an improved, capable miniature powerhouse. With configurable parameters, large recording capacity and multi-functional use, this device may be considered the intelligence community's tiniest covert recording weapon! SCALE utilizes a simple software interface to easily customize the unit for any application. Manufactured by LEC in the Czech Republic and represented by DAC in the United States, SCALE II brings cutting-edge recording technology to any operation.

Product Characteristics:

- **Removable Media Card** - The recorded audio files are stored on a minute MicroSD / SDHC card format. SCALE II dimensions are incredibly small: 1.181 x 0.838x 0.307 inches with the casing, battery and the SD card.
- **No Special Download Software Necessary** - The recorder maintains FAT-16/32 compatible file system and WAV data format compatibility. The memory card can be formatted directly by the recorder.
- **Uncompressed Audio Recording** - Audio is stored using uncompressed linear PCM format, 2-law telecommunication standard or the common IMA ADPCM compression algorithm.
- **Rechargeable Li-Ion Battery** - A miniature rechargeable Li-Ion battery is used for standard powering of the recorder. Capacity is 8 hours for default settings.
- **Manual or Auto Recording** - SCALE II records either manually (via button or external controller) or automatically, via real-time clock scheduler or VOX operation.
- **Time & Date Stamp** - Whenever a recording is created, it is stored in a separate file with time and date stamp.
- **Concealable** - SCALE II can be purchased as a board level module, in a car key housing, or in black compound casing for multiple-use operational requirements.
- **RF Version** - SCALE RF uses digital encrypted transmission. The receiver unit allows real-time monitoring of the Scale RF and can remotely set up, turn the unit on and off and pick up the panic button signal.

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Storage medium: Removable Micro SD/SDHC memory cards
Recording modes: Stereo, mono (built-in or external microphone)
Microphone types: 3-wire electret microphone (Knowles FG recommended)

Ext. mic. phantom power: 1.2 V, max 0.3 mA

Input impedance: 100 kΩ

Nominal input level: 2.3 V_{p-p} (approx. 0.8 V_{rms} effective value for a sine wave)

Input amplification:

Analog: 0 dB, 20 dB, (40 dB external microphone only)

Digital: 6 dB, 12 dB, 18 dB, ALC

A/D conversion bit depth: 13-16 bit (according to the setting)

Sampling frequency: 8192 Hz, 10923 Hz, 16384 Hz, 21845 Hz, 32768 Hz, 43690 Hz

Frequency range: 20 Hz – 20 kHz (3 dB, gain 20 dB, sampling frequency 44 kHz, LPCM mode)

Dynamic range: 83 dB (gain 20 dB, sampling frequency 8 kHz, LPCM mode)

Power supply: Compact Li-pol battery 3.7 V, 90 mAh



PCB Module

Power consumption:

Recording: 7 – 80 mA (depends on Micro SD card size and recorder settings)

VOX mode: usually 3 mA in stand-by mode

External controller: < 0.1 mA

Sleep mode: approx. 13 μA

Battery charger: 5V DC, 1A

Charging time: 1 hour (to 80% of capacity), 2 hours (to full capacity)

File system: MS-DOS/Windows FAT-16/32 compatible, memory card up to 32GB

Recording formats: Linear PCM, μ-law or IMA ADPCM, WAV compatible

Additional functions: Real time clock, saving the date and time information of the recordings, firmware update.

Recording modes: Manual, timer, VOX and combinations.

Connectors: 1x4 - pole jack 2.5mm gold plated (charging, external microphone input, communication with PC, vibrating external controller)

Control elements: Micro switch, two LEDs, optionally vibrating external controller optional.

CRYPTO is a software option with added security functions. Recorded data can be protected against unauthorized misuse by encryption. Optionally, the same data can be subject to a cryptographic checksum, should users require a guarantee of authenticity. The CRYPTO option is available anytime for all SCALE II recorders as an upgrade.



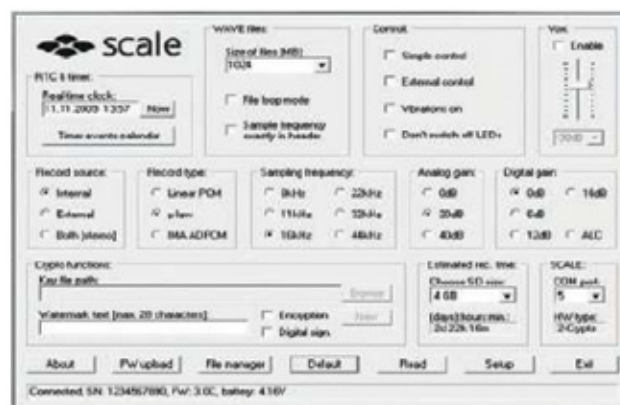
Car key housing

Contents of the Basic set:

- SCALE II recorder
- Printed documentation
- Memory Card ≥ 1GB
- Micro SD USB reader
- Data cable
- Charging cable
- AC Adaptor
- Configuration utility CD
- Transport case

Optional accessories (or full package):

- Memory Card ≥ 2GB (accepts up to 32 GB)
- External microphone (Knowles FG)
- Car 12V adaptor
- External controller
- External microphone with vibrating external controller



Scale II Configuration Interface

Mechanical design: High quality aluminum compound (CERTAL) housing with matte elox finish, Module compact PCB either with black rubber cover, Car Key housing.

Dimensions: max. 1.181 x 0.838 x 0.307 inches (incl. battery, casing and Micro SD) (30 x 21.3 x 7.8 mm)

max. 1.181 x 0.787 x 0.118 inches (PCB and Micro SD, excl. battery) (30 x 20 x 3 mm)

Weight: 7 g (in CERTAL casing with battery excl. Micro SD)

2 g (PCB excl. battery and Micro SD)