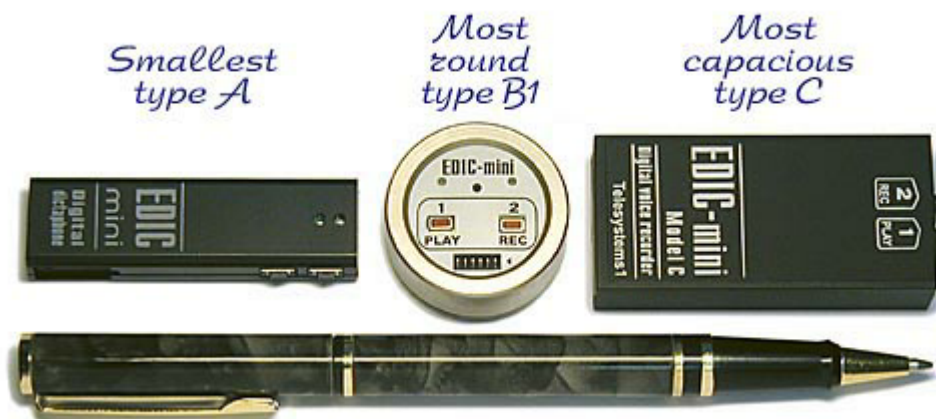# Miniature Digital Voice Recorder "Edic-Mini"

• *Software* • *User's manual*





**Miniature digital voice recorder Edic-Mini type S (Stereo)**

**Miniature digital voice recorder Edic-Mini type B1W(Wood)**

The Digital Voice Recorder Edic-Mini (DVR) is intended for record of the voice messages in a frequency band 300-3400 Hz in the flash-memory. It can play back the stored messages using the earphone or download the messages to the personal computer as standard sound files. DVR type S provides a recording capability in the "Stereo" mode on two channels simultaneously. DVR type SM uses external flash-memory: SmartMedia cards by size up to 128 Mbytes, DVR's of remaining types — built-in flash-memory.

The DVR has a small overall dimensions and mass, major duration of record of voice (depending on model from 2.3 hr to 149 hr (and much more with enabled Voice Activation System (VAS)), has a high-sensitive built-in microphone (range up to 8 m) and a wide dynamic range. Because of absence of moving parts the DVR is efficient in a broad band of temperatures, in conditions of jolting and dust content.

With the help of the adapter, included in a package, the DVR is connected to the computer. The included software package allows to save stored messages as standard sound files, to program user interface of a DVR, to use a DVR for storage and carry of files by size up to 16-1024 Mbytes, depending on model.

Since Edic-Mini has no moving parts it can safely operate in a wide environmental range and without being detected by the special equipment.

The following seven model of Edic-Mini are produced:

| Parameter / Model | A | B | B1 | B1W | S (Stereo) | SM (SmartMedia) | C |
|---|---|---|---|---|---|---|---|
| **Dimensions, mm** | 17x57x10 | 28x57x9 | 30x14 | 32x16 | 30x57x8 | 45x55x12 | 28x57x12 |
| **Weight, grammes** | 8 | 12 | 15 | 12 | 20 | 30 | 20 |
| **Built-in FLASH memory size, MB** | 16/32/ 64/128 | 16/32/ 64/128 | 16/32/ 64/128 | 16/32/ 64/128 | 32/64/128 | SmartMedia flash-memory cards are used | 128/256/ 512/1024 |
| **Voice storage capacity, min** | 140/280/ 560/1120 | 140/280/ 560/1120 | 140/280/ 560/1120 | 140/280/ 560/1120 | 280/560/ 1120 in mono mode | 16-128 | 1120/2240/ 4480/8960 |
| **Voice storage capacity, hours** | 2.3/4.6/ 9.3/18.6 | 2.3/4.6/ 9.3/18.6 | 2.3/4.6/ 9.3/ 18.6 | 2.3/4.6/ 9.3/ 18.6 | 4.6/ 9.3/ 18.6 in mono mode | 140-1120 | 18.6/37.3/ 74.6/149.2 |
| **Battery life in record mode, hours** | 4-5 | 70-80 | 70-80 | 9-10 | 9-10 | 60-70 | 70-80 |
| **Battery life in stand-by mode, months** | 5-6 | 22-24 | 22-24 | 4 | 4 | 22-24 | 22-24 |
| **Case** | Plastic | Metal | Metal | Wood Cade | Metal | Caseless | Metal |





**Miniature digital voice recorder Edic-Mini type C with accessories**

**Miniature digital voice recorder Edic-M type SM**

### Key specifications & features:

1. **Voice storage capacity** (Quality: ExtraLongPlay):
   A-140, B-140, B1-140, B1W-140 — 140 min. (2.3 hr)
   A-280, B-280, B1-280, B1W-280, S-280 — 280 min. (4.6 hr)
   A-560, B-560, B1-560, B1W-560, S-560 — 560 min. (9.3 hr)
   A-1120, B-1120, B1-1120, B1W-1120, S-1120, C-1120 — 1120 min. (18.6 hr)
   C-2240 — 2240 min. (37.3 hr)
   C-4480 — 4480 min. (74.6 hr)
   C-8960 — 8960 min. (149.3 hr)
   SM, depending on size of a used flash-memory card:
   16 Mbytes — 140 min. (2.3 hr)
   32 Mbytes — 280 min. (4.6 hr)
   64 Mbytes — 560 min. (9.3 hr)
   128 Mbytes — 1120 min. (18.6 hr)
2. **Frequency range**: 300-3400 Hz
3. **Dynamic range**: 60 dB

4. **Sampling rate** 8 kHz
5. **Built-in microphone sensitivity**: 7-9 m (except type S)
6. **Sensitivity of microphone inputs** 3mV (for type S only)
7. **Battery life (recording)**:
   Type A (DC 1.5V x 1, Silver Button Cell, Type 357, 11x5.6 mm) — 4-5 hr
   Types B, B1, C and SM (DC 3V x 1, Lithium CR2450) — 60-70 hr
   Type B1W, S (Li-ion rechargeable battery LR2450) — 9-10 hr
8. **Battery life (stand-by)**:
   Type A (DC 1.5V x 1, Silver Button Cell, Type 357, 11x 5.6 mm) — 6 months
   Types B, B1, C and SM (DC 3V x 1, Lithium CR2450) — 2 years
   Type B1W, S (Li-ion rechargeable battery LR2450) — 4 months
9. **Time of charging of the rechargeable battery** — 5 hr (for types B1W and S only)
   Lifetime of the rechargeable battery — 500 cycles the charge/discharge (for types B1W and S only)
10. **Available recording bitrates**:
    High — 96 Kbit/s
    Normal — 64 kbit/s
    Medium — 32 kbit/s
    LongPlay — 24 kbit/s
    ExtraLongPlay — 16 kbit/s
11. **Recording quality index**: 3.5–4.8 MOS (varies with density).
12. **Built-in FLASH memory size**:
    A-140, B-140, B1-140, B1W-140 — 16 MBytes
    A-280, B-280, B1-280, B1W-280, S-280 — 32 MBytes
    A-560, B-560, B1-560, B1W-560, S-560 — 64 MBytes
    A-1120, B-1120, B1-1120, B1W-1120, S-1120, C-1120 — 128 MBytes
    C-2240 — 256 MBytes
    C-4480 — 512 MBytes
    C-8960 — 1 Gbytes
13. **Voice and data storage time**: over 10 years.
14. **Dimensions and weight**:
    Type A — 17x57x10 mm (plastic case), 8 gr.
    Type B — 28x57x9 mm (metal case), 12 gr.
    Type B1 — diam.30x14 mm (metal case), 15 gr.
    Type B1W — diam.32x16 mm (wood case), 12 gr.
    Type C — 28x57x12 mm (metal case), 20 gr.
    Type S — 30x57x8 mm (metal case), 20 gr.
    Type SM — 45x55x12 mm (caseless), 30 gr.

The DVR has a Voice Activation System (VAS) which allows effective silence compression during voice recording thus extending the recording time.

The DVR can store the recorded voice messages to cyclic and/or linear buffers (the number and length of the independent messages is restricted only by the memory size). Any part of the internal memory can be assigned to the circular buffer. Each message is automatically date/time stamped by the built-in real-time clock.

The DVR provides the following possibilities of navigating while playing back the voice messages: you can jump to the next/previous/last/first message, to the beginning/end of the current message, rewind/fast forward the current message with variable speed and erase the messages from the internal memory.

Two built-in LEDs display the DVR mode and battery status.

Two buttons control the DVR. It can also be remotely controlled by the two external inputs. All the functions of the buttons/external inputs as well as the LED modes can be fully reprogrammed through the computer using the included software package.

The DVR supports fast selection of up to 8 record/playback modes including: recording quality/density, mono/stereo mode (the setting of the stereomode is effective only for type S) and VAS settings, cyrcular or linear recording as well as rewind/fast forward speed and playback volume.

The DVR can be connected to the PC through the standard LPT-port (bi-directional mode) using the included adapter. Data transfer rate is about 150-200 kbod (depends on your computer).

Original software package operates under Windows 9x/Me/2000. It allows transfer voice and data messages between the DVR and PC, save the voice messages to the PC's hard disk in standard format (for further playing back and editing by any third party PC software), synchronize the DVR and PC time and completely reconfigure the DVR's user interface. The voice/data exchange between the DVR and PC can be password protected.

The DVR can be used as a "digital diskette" to store and carry over any digital data files. You can use the DVR in both modes (voice recording and data storage) simultaneously. The user can define the "digital diskette" size.

Tecnhical support is free via E-mail ([telesys@telesys-market.com](mailto:telesys@telesys-market.com)). The latest software is always available for free from our Web-site: [http://telesys-market.com/emupge.htm](http://telesys-market.com/emupge.htm) .

### Record length in depending on the record quality mode

| Record Quality | Record length | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | x-140 | | x-280 | | x-560 | | x-1120 | | C-2240 | | C-4480 | | C-8960 | |
| | min | h | min | h | min | h | min | h | min | h | min | h | min | h |
| **ExtraLongPlay** | 140 | 2.3 | 280 | 4.7 | 560 | 9.3 | 1120 | 18.7 | 2240 | 37.3 | 4480 | 74.7 | 8960 | 149.3 |
| **LongPlay** | 93 | 1.6 | 187 | 3.1 | 373 | 6.2 | 747 | 12.4 | 1493 | 24.9 | 2987 | 49.8 | 5973 | 99.6 |
| **Medium** | 70 | 1.2 | 140 | 2.3 | 280 | 4.7 | 560 | 9.3 | 1120 | 18.7 | 2240 | 37.3 | 4480 | 74.7 |
| **Normal** | 35 | 0.6 | 70 | 1.2 | 140 | 2.3 | 280 | 4.7 | 560 | 9.3 | 1120 | 18.7 | 2240 | 37.3 |
| **High** | 23 | 0.4 | 47 | 0.8 | 93 | 1.6 | 187 | 3.1 | 373 | 6.2 | 747 | 12.4 | 1493 | 24.9 |

### Sound files, demonstrating record quality in different record modes.

All records made with test record reproduction. The record made in usual production area, which is not intended for sound record matters.

| Record quality | Compression rate | Record density kb/s | File name | Size, bytes |
|---|---|---|---|---|
| Test record | — | — | [Original.wav](Original.wav) | 108,376 |
| High | W/o compression | 96 | [High.wav](High.wav) | 80,120 |
| Normal | 1.5 | 64 | [Normal.wav](Normal.wav) | 78,524 |
| Medium | 3 | 32 | [Medium.wav](Medium.wav) | 78,524 |
| LongPlay | 4 | 24 | [LongPlay.wav](LongPlay.wav) | 78,514 |
| ExtraLongPlay | 6 | 16 | [ExtraLongPlay.wav](ExtraLongPlay.wav) | 79,982 |

Telesystems company also manufacture [EMM modules of digital voice record and store](), which are unpackaged versions of Edic-Mini recorders.

**Full package includes:**

1. Digital voice recorder Edic-Mini
2. Stereomicrophone (for type S only)
3. Earphone (for type S — stereo)
4. PC connection cable with LPT adapter
5. Battery (2 pcs, except types B1W and S)
6. Battery charger (for types B1W and S only)
7. CD-ROM with the software package
8. Operation manual
9. Package

# Where to order:

For **Australian** customers:

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