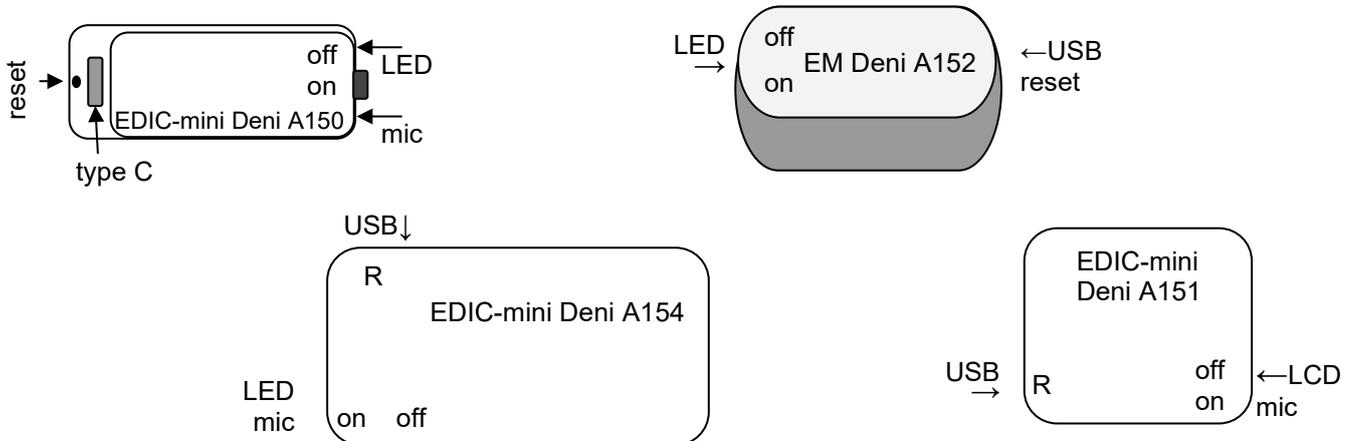


Passport and short manual for EDIC-mini Deni voice recorders

Appointment:

The series Edic-mini Deni is designed for professional recording of speech into the built-in memory from 8 to 32 GB. The use of digital microphones with a built-in 24-bit audio codec ensures maximum recording quality in the most difficult conditions, high acoustic sensitivity (up to 15 m) and a wide dynamic range (24 bits). The presence of a digital signature of authenticity. The presence of a digital signature allows you to confirm the authenticity of the record in court.

The main technical characteristics of voice recorders				
Model	EDIC-mini Deni A150	EDIC-mini Deni A151	EDIC-mini Deni A152	EDIC-mini Deni A154
Power supply	rechargeable battery 90mAh	rechargeable battery 180mAh	rechargeable battery 4000 mAh	rechargeable battery 650 mAh
Dimensions (mm)	10*14*33	6,5*29.5*32	20*38*78	7,2*34*64
Weight (g)	7,5	9	95	29
Case	metal	metal	plastic	metal
Autonomy (hours/ consumption current)				
Vas mode (recording by sound presence) - 0,7mA†	Up to 130 h	Up to 250 h	Up to 5500 h	Up to 900 h
Mode nonstop	min(8kHz/8bit) - 2.9mAh	30 h	60 h	1300 h
	Factory (16kHz/16bit) - 3.5mAh	25 h	50 h	1100 h
	max (32kHz/24bit) - 6.1mAh	14 h	29 h	650 h
Built-in memory capacity	8 Gb	32 Gb **	32 Gb **	32 Gb **
Microphone Type	Digital MEMS ICS-43434			
Signal-to-noise ratio (dB)	65			
Sensitivity (dB)	90			
Sample rate (kHz)	8;16;32			
Bitrate	8;16;24			
Frequency band (kHz)	0,6-15			
Standby mode 4.5µA/h	2 y	3 y	>5 y	5 y
Full charge time	1 h	1 h	18 h	3 h
Permissible operating and storage temperature	from 0 to 50 C Contact with liquids is not allowed.			
Service life	5 y			
The type of record authenticity protection	Digital signature (Diffie Hellman Cryptographic Protocol)			
Record access protection	Password (closes access to the recorder's memory)			
Availability of precious metals	There are no precious metals in a certain amount			
Delivery set	Voice recorder, connection/charging cable, package box			



* - at a level below the activation threshold;
 **- on request, it is possible to increase the memory to 128GB

Functions:

1. Operation in connected charging or additional power mode
2. Voice activation system (VAS);
3. Timers for enabling recording at the right time (4 pcs.) (single and daily, delayed)
4. Linear and ring recording;
5. Digital signature of record authenticity, preventing unauthorized modification of files;
6. Calendar, linking records to time and date;
7. Control and indication: switch and LEDs;
8. Adjusting the brightness of the LED
9. Any standard data cables with a suitable connector type can be used for connection, the recorder can be connected to any OS (Windows, Linux, macOS, Android, iOS). Any text editor, such as Notepad, is used to edit the settings file.

Working with a voice recorder

1. Charging the recorder.

Make sure that the recorder's battery is charged before starting work. Charge the battery if necessary. Connect the supplied cable to the Type C connector of the voice recorder. Then connect the cable to a power source with an output voltage of 5 Volts. A red LED lights up during charging, and a green one at the end. It is highly recommended not to store the recorder in a discharged state. This may cause the battery to fail. Try to always keep it charged.

Attention! Applying a voltage of more than 5 volts will permanently disable your device and is not a warranty case. Do not strain the charging cable. This can either lead to a bad contact and your recorder will not charge, or to a failure of the connector. After charging, remove the cable from the recorder.

2. Enabling recording.

To start recording, turn the switch to the ON position. The red LED will flash 5 times and recording will begin. The LEDs flash periodically during recording: red - indicates the battery charge (1 flash - 80-100%, 2 flashes - 20-79%, 3 flashes - 2-19%) and green - the amount of free memory (1 flash - 75-100%, 2 flashes - 50-74%, 3 flashes - 25-49%, 4 flashes - 1-24%)

In VAS mode a green LED lights up faintly during silence pauses, which indicates that recording is on, but sound is currently waiting.

To stop and save recording, turn the switch to the OFF position, the red LED will light up, and recording will stop.

3. Connection, programming.

Make sure that the recorder is in standby mode: the switch is in the OFF position, there is no indication. Connect the supplied cable to the Type C connector of the voice recorder. Then connect the cable to the computer, and a new disk should appear in a few seconds. Go to it. Recordings made (files with the wav extension) can be listened to, copied, or deleted by a standard player.

Format of record file names: EM_DENI_<year, month, day>_<hours, minutes, seconds>_ NML(activation parameters)_<serial number>.wav , decryption of the activation parameters:

- The first character (N or V) indicates whether the file was created in VAS mode (V) or when VAS mode is disabled (N)

- The second character (M or T) indicates whether recording was enabled in manual mode (M) or timer (T)

- The third character (L or C) indicates the cyclic recording activation status, C- enabled, L – disabled.

Voice recorder programming.

All settings of the recorder are made using the configuration file em_config.ini. This is a text file with settings, which the recorder records in memory. In any text editor on a PC, you can open the em_config.ini file, make changes to it, save it, and then disconnect the recorder from the PC. The settings set in the file will be accepted by the recorder after it is disconnected from the PC. If the settings file was accidentally deleted, the recorder will automatically create a settings file based on the last configuration saved on it.

The settings allow you to set:

- **Password for access to the contents of the voice recorder** (inactive by default). The password is no more than 30 characters long (only English letters and numbers are allowed). To reset the password, use the combination:00000000. The contents of the voice recorder will be permanently deleted.

It is set by the parameter: Password=, where the password must be entered after the "=" sign. After disconnecting the recorder from the PC and applying the settings, the entered password will be deleted from the configuration file. To disable it, enter the combination 00000000.

- **Recording quality** - 6 modes (default is 16 kHz 16 bit)

It is set by the parameter: RecordMode=3, where 3 is the number of the recording quality mode.

- **Microphone gain** (not active by default).

It is set by the parameter: GainLevel=0, where 0 is the gain mode in the range from -4 to 4 (only integer values are allowed).

- **Cyclic recording mode** (inactive by default). When activated, as the memory fills up, older files are replaced with new ones.

It is set by the parameter: CyclicRecord=0, where 0 - off, 1 – on.

- **Automatic recording stop when the recorder is connected** (not active by default). When activated, regardless of the switch position, recording will stop when connected and the recorder will switch to data transmission mode.

It is set by the parameter: UsbStopsRecording=0, where 0 - recording continues, 1 - recording stops.

- **Prohibits manual activation when setting timer activation** (not active by default). When activated, switching on from the switch will be prohibited. It is used to prevent accidental activation of the device when setting the timer on mode.

It is set by the parameter: TimerDisablesManualStart=0, where 0 is allowed, 1 is prohibited

- **Setting the duration of 1 recording file** (inactive by default). Sets the duration/frequency of saving recording files.

It is set by the parameter: MaxRecordLength=0, where 0 means there is no limit , the other digit means the file duration in minutes.

- **Recording in VAS mode** - (not active by default). In this mode of the voice recorder, when switching to recording mode (via a switch or timer), it scans the acoustic environment and, when registering the set power-on threshold, switches to recording saving mode, when the set silence threshold is reached, the voice recorder switches back to scanning mode.

Set by parameters:

a) Activation: VasEnabled=0 , where 0 is disabled, 1 is enabled

b) On/off threshold level: VasLevel=50, where 50 is a preset threshold in the range from 0 to 100%.

100 means that the recorder does not hear anything, 0 means it hears everything and saves the recording without scanning periods. The recommended operating range is 30-45.

- **Enable digital signature** (enabled by default). Allows you to confirm that the created recording file has not been modified in any way (cropped, mounted). This is a weighty argument in disputes, in court and can be a significant evidentiary fact.

It is set by the parameter: EnableSignature=1, where 1 is the digital signature enabled, 0 - is disabled.

- **The brightness of the LEDs that signal the recording process** (by default, max brightness). The brightness of the start and end of recording is unchanged and always at the max level.

It is set by the parameter: BrightnessLevel=100, where 100 is the percentage of brightness in the range from 1 to 100%.

- **Select the language of the system files** (em_config and event) (English by default).

It is set by the parameter: EventLanguage=0, where 0 means English, 1 means Russian.

Enabling by timers (not active by default). There are 4 timers available in 3 switch-on options each: a) single; b)daily; c)daily delayed (timer starts in daily format starting from the switch-on date).

Set by parameters:

Timer mode: TimerType=0 , where 0 is off, 1 is daily, 2 is single, 3 is daily deferred.

Activation date: TimerStartDate=01/01/2024, in day/month/year format (it doesn't matter for daily).

Power-on time: TimerStartTime=01:01 (hours:minutes)

Duration of operation after timer activation: RecordDuration=01:00 (hours:minutes)

Important! When the timers are activated, the switch must be off!

Possible emergency situations are indicated when recording is turned on, while the red LED is constantly on, and the green flashes with a series of flashes. The number of flashes in a series means the error number.

2 flashes -the memory is completely full.

3 flashes - the battery is very low.

10 flashes - problems with the memory chip.

Warranty obligations

The manufacturer undertakes warranty repair obligations for the product within 1 year from the date of sale to the buyer, but not more than 2 years from the date of release (the warranty does not apply to replaceable batteries), the rest of the rules are regulated by the law "On Consumer Protection".

We use every warranty case as an opportunity to understand its cause and make our devices even better. Therefore, we will always be grateful for any comments and suggestions, descriptions of the conditions and causes that led to the breakdown. We value our customers' time and skills, and if the problem is simple, we don't mind if you try to fix it yourself. If the attempt was careful enough and did not lead to damage, then the warranty service of the recorder will be continued. In case of severe breakdowns, exposure to chemically active substances and mechanical damage to the recorder, the company will not be able to continue warranty service of this device. There are no seals on our products.

If you encounter problems using our products, we recommend that you:

1. Visit the company's website www.telesys.ru. Next, go to the ADVANCED/TECHNICAL SUPPORT/FAQ section and see the list of typical problems and ways to solve them. Perhaps there is an answer to your problem.
2. If the problem persists, contact technical support at support@telesys.ru with a detailed description of your problem, the conditions of its occurrence, the exact name of the product according to the passport, the firmware version, software, operating system and other essential information. Remember, the more accurately you describe the problem, the sooner it will be fixed. *When purchasing, make sure that the warranty card contains the manufacturer's and seller's seals and the dates of manufacture and sale.

Voice recorder Edic-mini Deni model A150 <input type="checkbox"/> A151 <input type="checkbox"/> A152 <input type="checkbox"/> A154 <input type="checkbox"/> Serial number _____ Manufacturer of «Telesys.ru» LTD	
Date of sale _____	Seller _____ Seller's s p

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