MAG-1
Digital
Recorder

OPERATION MANUAL

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Contents

Introduction

This User manual covers design and operation of the MAG-1 digital recorder.
Precautions:
- Do not let water, moisture and dust on the transmitter.
- Do not keep the transmitter under direct sunlight.
- Do not open the casing. The transmitter cannot be repaired by the user.
- Avoid strong electromagnetic fields.
- Before operation read this manual carefully.

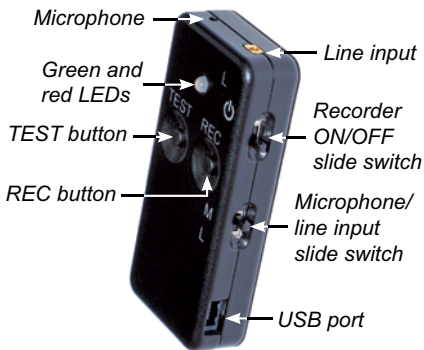# Description and specifications

Overlook

MAG-1 digital recorder is designed for high quality audio recording. Recorded files can be downloaded to a PC for further use. The recorder is noted for its small dimensions and weight, long continuous operation, wide dynamic range and high sensitivity of its built-in microphone.

The MAG-1 can make recording from its built-in microphone as well as from the line input.

To extend recording time the recorder employs Voice Activation System (VAS). It also has time and date function. The supplied software allows downloading recorded files (.wav) to a PC and changing the recorder settings through USB port.

Recorder's appearance

Microphone

Line input

Green and red LEDs

Recorder ON/OFF slide switch

TEST button

REC button

Microphone/ line input slide switch

USB port

Technical Characteristics

Memory capacity, Gb	1; 2
Sampling frequency, kHz	12/24
Bit capacity, bit	16
Recording time, hours (1 Gb built-in memory):	
- sampling frequency – 12 kHz	12
- sampling frequency – 24 kHz	6
Recording time, hours (2 Gb built-in memory):	
- sampling frequency – 12 kHz	24
- sampling frequency – 24 kHz	12
Dynamic range, dB	78
Current consumption, no more than, mA:	
- recording mode	4,5
- stand-by mode	0,2
Dimensions, mm	60 x 28 x 11

Design and operation

Operation

Switch the recorder on by moving the switch to 🔵 position.
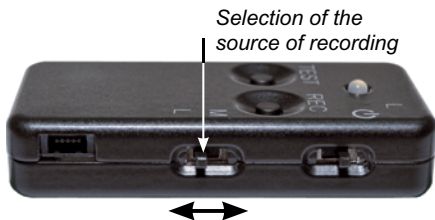
Switch the recorder on

The LED will light up for a few seconds. Color of the LED light will show battery charge level:
 • green – level of charge is more than 50%,
 • red – level of charge is less than 50%.

The recorder is ready for operation (in stand-by mode) after the LED light goes out.
To choose the source of recording (microphone or line input), move the slide switch to M or L position.

*Selection of the
source of recording*

If to press TEST button the LED shows the recorder's mode of operation:
- The LED glows continuously for a few seconds – the recorder is in stand-by mode, the color of the light shows battery's charge level.
- The LED blinks for a few seconds – the recorder is in recording mode, the color of the light shows battery's charge level.

To start the recording, press REC button. The LED will light up (red). Recording will start after the LED goes out. During recording, the LED blinks in every 7 seconds. To stop the recording, press REC button. The LED will light up (green), the recorder is in stand-by mode.

It is possible to erase recorded audio files without connecting the recorder to a PC. In stand-by mode

press and hold TEST button till the LED starts blinking (red). Then immediately press REC button – erasing will start and the LED will light continuously during operation. When recorded files will be erased, the recorder will switch to stand-by mode.

Attention!
If during recording the recorder's memory will be filled up or its battery will be completely discharged the recorder will switch off automatically.

Voice Activation System

Voice Activation System (VAS) of the recorder saves memory and battery. Turning ON/OFF VAS and editing its setting is only possible through a PC. When VAS is turned on, the recorder checks the level of a signal coming from its microphone or line input. If the signal level is lower than the set sensitivity level (Settings→Sensitivity→Sensitivity level), the recording stops (the red LED does not blink). If the signal level is higher than the set sensitivity level, the recording starts (the red LED starts blinking).

Settings

Setting of the recorder's parameters is made with the NOVO PC SUIT MAG software. The software

must be installed to a PC and the recorder must be connected to its USB port with the supplied cable. The software makes it possible to:

- Save recorded files to a PC
- Turn on and edit VAS settings
- Set quality of recording
- Synchronize time and date with a PC

See the detailed instructions of software installation in MAG-1 Software manual.

Battery charging

Turn the recorder on. Connect the recorder to PC's USB port with a supplied cable. The LED starts blinking. Color of LED light shows battery's charge level (green – level of charge is more than 50%, red – level of charge is less than 50%). When the battery is fully charged, the LED continuously glows (green).

Switch the recorder off

Attention!
- *The recorder must be switched on for charging.*
- *When the battery is fully discharged the recorder does not react to pressing of its buttons, but the battery will be charged when connected to a PC.*
- *If there is long intervals in operation of the recorder the device must be switched off (storage mode).*

Storage

Storage conditions:
- Temperature: -10 - +40 ºC
- Relative humidity: 80% at +30 ºC
- Absence of acid, alkali or other aggressive liquids vapors in storage facility

Transportation

The units can be transported by any mode of transportation according to general requirements to electronic goods transportation.

Warranty

The manufacturer guarantees no-failure operation and all operating characteristics during 1 year after the date of shipment by the producer provided the customer follows all the rules, stipulated in the documentation. Mechanical damage deprives the user of the warranty.

In case the manufacturer is responsible for malfunction or failure of the device, it is guaranteed to be fixed or exchanged for free during 15 days after the date of receiving faulty item.

Repairs or replacement of the device in the post-warranty period is to be made according to the additional agreement.

In box

MAG-1 recorder
USB cable
Audio cable
Software CD
User Manual

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