

Short Operating Instruction for Professional Miniature Audio and Video Recorder mAVR H.264x4

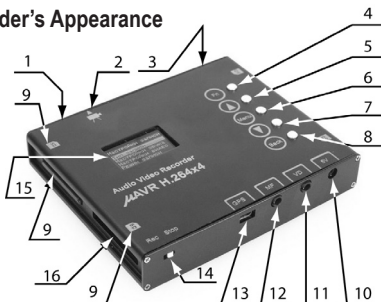
Overlook

Audio and Video Recorder MAVR-H264x4 is intended for professional recording of video data with sound feedback onto 1.4 memory cards at the capacity up to 32 Gb each. The recordings can be further decoded (converted) and played back on the computer with the help of "Manager" program.

Functional characteristics:

- option to set video signal parameters (brightness, contrast, saturation, color);
- automatic adjustment of built-in video camera sensitivity;
- manual or automatic adjustment of the amplification of audio channels;
- setting of bitrate for audio and video stream;
- VAS (Voice Activating System);
- built-in motion detector;
- recording of place coordinates through GPS system;
- 10 timers to turn on/off the device at a preset time
- adjustable frames per second for video stream (1, 2, 5, 10, 12,15, 25, 30 frames per second);

Recorder's Appearance



1. Left Microphone;
2. Video Sensor;
3. Right Microphone;
4. "Fn" button;
5. «▲» button;
6. "Menu" button;
7. «▼» button;
8. "Back" button;
9. Connectors for memory cards;
10. Connector for "5V" external power supply;
11. "VD" connector;
12. "MF" connector;
13. Connector for GPS receiver;
14. "Rec-Stop" Switch;
15. OLED display;
16. Connector for memory cards with recorded service files.

- automatic correction of white balance for built-in video camera;
- elimination of flickering caused by day electric lamps etc (at frequency rate 50 and 60 Hz);
- addition of text to video signal (date, time, GPS data, text line) – up to 2 lines with 24 symbols each (depending on the resolution selected);
- audio signal recording either from an external sound source (line output) or from built-in microphones in AAC format (mono or stereo);
- built-in clock with an option to correct its accuracy and set according to GPS time and calendar;
- opportunity for circular recording onto both one and all the four memory cards;
- prehistory recording before the event that initiated the recording;
- power supply from an external power source or from built-in Li-ion rechargeable battery. When powering from an external source the rechargeable battery is charged;
- power supply for an external power consumer (for example video camera) with output voltage option (5 or 12 V);
- parameters setting through built-in menu or with the help of “Manager” program;
- option to select interface language (Russian, English);
- opportunity to upgrade internal software;

Technical characteristics:

- Battery life in record mode: up to 8 hours;
- Battery life in Stand-by mode: up to 12 months;
- Battery life in Record mode with VAS (audio signals below threshold): up to 15 hours;
- Recording duration at the best quality (onto 8 Gb memory card) up to 5 hours;
- Built-in camera Resolution: 640x480;
- Video Input: NTSC, PAL, SECAM;
- Video compression standard: H.264;
- Audio compression standard: AAC;
- Frequency range of audio data: 80-20000 Hz;
- Useful current of external devices: up to 150 mA;
- Voltage for external devices: 5 or 12 V;
- SD memory card capacity: up to 2 Gb;
- SDHC memory card capacity: 4-32 Gb;
- Rechargeable battery: Li-ION;
- Rechargeable battery capacity: 2200 mAh;
- Charging time: up to 5 hours;
- Dimensions: 82x70x15 mm;
- Weight (memory card not included): 110 g;
- Operating temperature range: 0-40°C;
- Operating lifetime: 5 years.

Starting and Testing the Recorder

Press any button – the indicator turns on. Insert memory card (a memory box prepared for appropriate operation of the device is included into the package box) with bond ponds up into the connector (position 16). After memory card has been scanned and recognized the device is ready to start operating. Set the frame on the indicator (an outline round the memory card's icon) for the card inserted into the connector (position 16) with the "Fn" button. To start recording move the "Rec-Stop" Switch to "Rec" position. To stop the recording move the Switch to "Stop" position. Remove memory card. Copy the following directory from the shipped Software CD onto the drive: \Miniature Audio-and-Video recorders\MAVR H264x4\Manager\v1.00. Connect memory card to the PC via card-reader. Run mavr_h264x4_v1.00 program. Choose "Setting" tab. Click on "Setting". In the appeared window browse for the directory of memory card and the path to save the records. Shift to "Conversion" tab and click on "Scanning". All the recordings will be displayed on the screen. Select the required ones and press the button "Conversion". An mp4 file will be saved in the folder specified. The file can be played back by Windows Media Player player if H.264 codec is installed in the system (for instance K-Lite Codec pack (www.codecguide.com)).

Battery Charging

Connect the recorder to 220V power network using power adapter (5B connector to connect the adapter).

Full charging takes 5 hours approximately. A pictogram on the recorder's control panel displays the work mode of the charging process.

In Box:

- Audio and Video Recorder mAVR H.264x4;
- Video input cable with remote control;
- Network adapter;
- 2 Gb SD card;
- Software CD with Instructions.

Optional accessories:

1. Remote microphones;
2. GPS-receiver;
3. mAVR holder for automobile;
4. Analog-to-digital adapter;
5. Automobile adapter.

For more details see Operational Manual on the shipped CD. It is also available on our website www.ts-market.com

Manufacturer Warranty Coupon

Warranty: **The Telesystems Company** provides warranty repair for 1 year from the selling date, but not more than 2 years from the manufacturing date.

This warranty is voided if the recorder is:

- improperly used
- mechanically damaged
- received without supplier warranty tag on this document

All questions regarding product exchange and return must be solved with the seller's company according to Protection of Consumers Law.

Professional Miniature Audio and Video Recorder mAVR H.264x4

Number: _____

QC: _____

Selling date: _____

Seller: _____

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