

SiMS | NVR 4000



eS-NVR 4000 digital recorder

eS-NVR 4000 digital recorder is the newest central unit of the mobile monitoring system of SiMS. The device allows to record audio and video streams from cameras located in the vehicle. The mobile monitoring system records image both interior and surroundings of the vehicle. Image from cameras, audio stream and metadata are stored on hard drives of the recorder, which are located in a special pocket that may store up to six drives. You may watch the recordings in real time in the vehicle or later in the dispatch centre. The offered monitoring system is a perfect solution for both large carriers and small transport companies.

Main features of eS-NVR 4000 :

- Support for up to 6 2.5" SATA SSD drives with a capability to remove the drives (pockets) from the recorder and connect them to a PC via USB or LAN interface,
- built-in GPS receiver,
- 1 x LAN, M12 standard connector ensuring high stability of connection,
- 1 x LAN, diagnostic connector,
- 1 x USB 2.0, 1x USB 3.0,
- Video compression H.264, H.265, MPEG4, MJPEG.



- Ability to connect various number of cameras depending on the needs,
- Saving in a single stream file: audio, video, data from an on-board PC and GPS receiver,
- Ability to remotely control power supply of particular units of the recorder in order to reduce power consumption,
- Will work with any camera available on the market,
- Possibility to connect 24 V battery and recorder buffered operation mode including connected devices in case of power interruption,
- Robust housing.

Detailed functionality:

Local monitoring:

- split of image to 1/4/8/9/16 during live viewing and playing recordings configurable single camera image display mode (sequential) in the split-screen mode,
- motion detection, camera obstruction, loss of video signal in connection with an alarm function,
- configuration of the motion detection zone,
- camera obstruction.

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Detailed functionality:

Hard drives management:

- support for up to six hard drives,
- support for S.M.A.R.T. technology for hard drives.

Recording and playing:

- recording of video files depending on set recording time or size of a single file,
- recording mode: normal, alarm,
- pre-record and pos-record modes for alarm mode recordings,
- searching and playing recordings based on the video channel number, recording type,
- provided beginning of the recording, provided end of the recording, vehicle side number, GPS position,
- playing recordings at different speeds.

Alarms and exceptions:

- alarm inputs and outputs management
- management of alarms triggered by obstruction of a camera and loss of camera signal
- configuration of times of triggering of digital inputs/outputs
- automatic restart of the device in case of problems associated with operation of the device,
- alarm button function (after pressing a button, the recorded records special footage of defined time before and after occurrence of an event in a separate file, protected against deletion)

Backup:

- copying data to a device connected to USB connector,
- remote downloading of recordings via WiFi or GSM.

Other functions:

- password-protected multi-level mode of access to functions of the device,
- recording of logs containing information regarding operation of the device,
- import and export of configuration data from/to a file.

Network functions:

- remote configuration of parameters,
- remote searching of data, playing, downloading of recorded files,
- remote access to device configuration,
- remote access to information regarding the state of the recorder, system logs, alarm inputs status,
- remote update of software, drive formatting, re-initialisation of the recorder.

Recorder hardware functions:

- a function that allows to sustain recording for a specified time after deactivation of ignition
- built-in GPS receiver
- embedding of defined closed captions in the recorded image
- connection of a button (buttons), input signals (opening of doors, activation of reverse gear, triggering of internal lightning etc.)
- switching, based on the analysis of connected input signals, of images from particular cameras, display of recording in QUAD mode, recording of subtitles etc.
- control of external and signalling devices via digital inputs
- signalling using visual and acoustic signals of the recorder operation state and any errors via digital outputs and external signalling devices,
- ability to use general purpose digital inputs of the recorder for purposes not associated with operation of the monitoring,
- ability to play saved records on the recorder without the need to stop recording,
- connecting a camera in the system as a backup camera and triggering its image on the monitor after engaging the reverse gear.