

## Mobile NVR 1 SATA

**SR-MN04F201-WG4**

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### Key feature:

- H.265 Compression
- 8-36V wide voltage design, for all kinds of automobiles
- Live view and track the vehicles on google map from PC and cell phone in real time
- Playback the videos which stored in the NVR disc, Server from PC and cell phone in real time
- Support to view the vehicle's driving route history in real time
- Support Anti-shock for the PCB panel and parts.
- 2.5-inch SATA/SSD hard disk, 2TB maximum.
- IK10 Compliant
- Stable aluminum alloy structure

The 4/8 channel Embedded Digital Video Recorder is designed for Mobile Applications such as Car, Buses, Trains etc. It uses embedded processor and embedded operating system, combined with video, audio compression, decompression, GPS, car recorder, and the capacity hard disk storage technology to confirm the high intelligence and high stability. Widely used for bus, ship, train, and other areas of security.

- **Total Resources**  
**4/8 Channel 1080P/ 720P:**  
Support 4/8 channels 1080P (1920\*1080) simultaneous recording, total 240fps.
- **Full duplex**  
Under full loading status, users can index, playback the recorded data with no frame loss.
- **Malfunction alarming function**  
When the NVR fail to work, the alarm switch is ON, showing alarm information for 5 minutes at least.
- **Self-test the status and self-recovery**  
When in working status, the "RUN" indicator will constantly flash and check the device. Recovery will take no more than 3 minutes when device crashes.
- **Record Fault Tolerance**  
Emergency Record in case of HDD failure the data will be stored on SD card.
- **Authority, encryption, Data safety**  
Data is stored in a special file system to ensure its encrypted and safe. Video Watermarking.
- **Log function**  
The log includes the alarming and malfunction information, stored into HDD. It can be checked via computer.

## Features:

### Operating system

- Embedded Linux operating system, high stable, free from virus.
- English/Chinese/Russian/ Portuguese menu switchable.
- Graphical user interface.

### Compression format

- H.265,H.264 format: more excellent frame rate, quality image output.

### Monitoring and Recording

- Monitor: 4/8 Channel 1080P: 1080P (1920\*1080)
- Record: 4/8 Channel 1080P: PAL 200fps, NTSC 240fps, real-time 4/8CH 1080P recording.
- Record mode: Alarm, schedule, manual, motion detection. Support
- 4/8 Channel 720P/ 960P/ 1080P: 4/8CH video and 4/8CH audio meanwhile recording.
- Video recorded in special file system to ensure lifespan and safety of HDD.
- Reliable evidence with unchangeable audio/video data.

### Index and Playback

- Index and playback by time.
- Support : 4/8 Channel 1080P/960P/720P: 4/8CH video, 1CH audio (any channel can be chosen), index and playback at the same time, support amplifying in one channel.
- Data only played by NVR playback software.

### HDD storage and data backup

- Support SSD 2.5inch HDD max 2TB.
- The HDD data can be backed up via PC software.
- Support USB (USB 2.0) backup.

### Control

- Dual MCU control, to ensure NVR stability.
- Support remotely controls by remote controller.

### Others

- Upgrade through USB, easy to maintain.
- Protect by password, to avoid data damage.
- Delayed shutdown: default for 5s, adjustable.
- Anti-pulse and low voltage protection.
- Real-time timer.
- Anti-shock for the PCB panel and parts, Device shall have built-in 3 axis accelerometers and 3 axis gyroscopes
- Watch dog function to avoid system crush
- GPS information embedded in screen (optional), support electronics fence and historical track playback
- Support time-lapse recording after the car is powered off
- Support HDD overwritten by days, FIFO, Event Tagging Exclusion.
- With digital zoom capabilities when previewing the video
- Support PTZ control via RS-485 port
- Support transmitting audio via network
- Dual Streaming

Device parameter	Performance	
Product Name	4CH 1080P Mobile NVR	8CH 1080P Mobile NVR
Operation system	Embedded Linux operating system	
Operation interface	Graphical interface	
System Privileges	User Password	
Video Input	4CH x 1080P	8CH x 1080P
VGA Output	1CH Support 1920*1080 , 1280*720 , 1024*768 Resolution	
CVBS Output	1 Channel PAL/NTSC Output, 1.0Vp-p,75Ω, Pin Aviation Connector	
System Resources	1080PPAL : 200fps, NTSC : 240fps	
Audio Input	4CH independent input,600Ω	8CH independent input,600Ω
Audio Output	1ch CVBS output, 600Ω, 1.0-2.2V	
Distortion Plus Noise	≤-30dB	
Recording Mode	Sound and Image Synchronization	
Audio Compression	G711A	
Two-way Audio	Support	
Image Compression	H.264/H.265	
Image Format	4*1080P(1920*1080)/4*960p)/1280*960)/4*720P(1280*720) /4CIF/2CIF/CIF/QCIF	8*1080P(1920*1080)/8*960p)/1280*960)/8*720P(1280*720)/4CIF/2CIF/CIF/QCIF
Video Taking Up of Hard Disk	1-8 adjust	
Video Stream	384Kbps-8.0Mbit/s (each ch)	
Video Taking Up of Hard Disk	168MB-3.5GByte/hour	
Audio Bitrate	4KByte/s (each ch)	
Audio Taking Up Of Hard Disk	14MByte/hour (each ch)	
Audio Bitrate	4KByte/s (each ch)	
Function Overview	Preview, Recording, Playback, Network, Locating	
Display Split	1/2/4	1/4/8
OSD	Channel No., GPS Location, Alarm, Vehicle No, Speed, Date/Time	
Operation Interface	Semi-transparent GUI	
Video/Audio Compression	Video: H.265, H.264 Audio: ADPCM (G.711A, G.711U optional)	
Image Quality	1-8 levels adjustable (1 is the best)	
Recording Mode	Boot up/Schedule/Alarm	
Pre-recording	0-60minutes	
Post-recording	0-30 minutes	
Mirror Recording	Support	
<b>System Report</b>	Generate System and Network health report	
Playback Channel	4*1080P (1920*1080), 4*960P (1280*960), 4*720P(1280*720)	8*1080P (1920*1080), 8*960P(1280*960), 8*720P(1280*720)
Search Mode	Date/time, channel, Event	
Network	1 RJ45 extensible, 10M/100M/1000M adaptive	
GPS	GNSS, IRNSS, Location tracking on Google Map, Speed detection and Time sync, A-GPS	
Positional Logs	40000	
Positional accuracy	less than 6 m 2DRMS (on ground)	
Storage	HDD/SDD :2.5", 1 x SD (Max. 128G)	
HDD Storage	1 SATA/SSD, 2.5" HDD, Max capacity 2TB	
Alarm in	4 Channels Independent Input. High Voltage Trigger	8 Channels Independent Input. High Voltage Trigger
Alarm out	1CH relay output, 1CH 12V output	
Motion Detection	Support	
Video Loss Detection	Support	
Alarm Actions	Buzzer, Visual Indication on Monitor, LED Blinking	



