MNVR-EL04
4 Channel PoE Mobile Network Video Recorder

IC REALTIME

- Dual-core embedded processor
- Up to 4 channels supporting up to 4K
- H.265/H.264 dual codec decoding
- Compact, shockproof design, Built-in 4 port PoE
- Up to 8MP Resolution for Preview and Playback
- 200 Mbps Incoming Bandwidth
- Supports 1 SATA HDDs up to 2TB, 2 USB2.0

System Overview

IC Realtime's MNVR-EL04 is a 4 channel, 4K Network Video Recorder purpose built for mobile/vehicle applications. This tough, shockproof, compact NVR features 4 built-in PoE ports for ease of use as well as 4G mobile (Verizon only) and WiFi connections with GPS capability for remote management and surveillance.

Other features include anti vibration storage enclosure for up to 2TB HDD, H.265 support, 6/1 alarm input/ output as well as ONVIF 2.3 compliant for use with numerous third party IP cameras.

Functions

4K Resolution
4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Anti-vibration
Using shock-absorbing structure and materials, the newly designed hard drive enclosure can cope with varying degrees of vibration, allowing for constant system functions and recording stable at all times.

GPS
This mobile recorder features an embedded GPS module receives location information and uploads to the VMS, and the vehicle can be tracked on the electric map of VMS.

4G/WIFI
This mobile recorder features an embedded 4G/WIFI module. The recorder can register into a Verizon network to connect with VMS, and can send information (video/audio/alarm/GPS info).

Multiple I/O Ports
This mobile NVR is equipped with CAN, RS232, RS485, and I/O ports. The recorder can connect with various of accessories, such as card readers, fuel sensor, panic button, etc. This information can related back to the VMS.

Wide Range power supply
The wide range of power supply protects the devices as the voltage output of vehicle battery changes during driving conditions,

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Technical Specification

System

Main Processor	Dual-core embedded processor
Operating System	Embedded LINUX

Video

Max IP Channels	4

Audio

Two-way Talk	1 Channel Mic in, 1 Channel Mic out
Audio Compression	G.711/PCM

Display

Interface	1 VGA, 1 HDMI
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1/4
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video Compression	H.265/H.264
Image Resolution	4K/5MP/3MP/1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/HD1(352×576/352×480)/ 2CIF(704×288/704×240)CIF(352×288/352×240)/ QCIF(176×144/176×120)
Bandwidth	200Mbps
Bit Rate	48~8192Kb/s Per Channel
Record Mode	Manual, Schedule(Continuous, MD, Alarm), Stop
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Video Detection & Alarm

Trigger Events	Recording, PTZ, Tour, Alarm out, Email, FTP, Snapshot, Buzzer & Screen tips
Video Detection	Motion Detection, MD Zones: 396(22×18), Video Loss & Blank Camera Channel
Alarm Input / Output	Input: 6 Channel
	Output: 2 channel (contains 1 control +12V)

Playback & Backup

Sync Playback	1/4
Search Mode	Time/Date, Alarm, Motion Detection & Exact search (accurate to second), Smart search
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom
Backup Mode	USB Device/Network/Internal HDD

AI Functions

Supported AI Functions by IPC	Face Detection, Face Recognition

Network

Ethernet	1 RJ-45 Port (10/100/1000 Mbps)
Wireless Network	Built-in 4G (Verizon Support Only)/ Wi-Fi module
PoE	4 ports(IEEE802.3af/at)
GPS	Support
Network Functions	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone
Interoperability	ONVIF 2.3

Storage

Internal HDD	1 SATA Port, Up to 2 TB capacity
SIM Slot	1 SIM card

Auxiliary Interface

USB	2 Ports , USB 2.0
RS232	1 Ports, for Debug
RS485	1 Port, for PTZ Control
CAN	Supported
Gyro	Supported
G-sensor	Support

General

Power Supply	DC 6V~36V
Power Consumption	<15W (without HDD)
Working Environment	-31°F (-35°C) (heater optional)~+140°F (60°C) / 10%~95%RH / 86~106kpa
Installation Type	Vehicle mountable
Dimensions (W×D×H)	7.48" x 8.26" x 2.36" (190mm×210mm×60mm)
Weight	6.6lb (3kg) (with HDD)

Certifications

Certifications	FCC: Part 15 Subpart B

Dimensions (mm/in)