



DS-8104HMI-A Series Mobile DVR
Technical Manual

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1. Overview

HIKVISION DS-8104HMI-A Series Mobile DVR is a 4-channel DVR specially designed for mobile monitoring applications. With high-performance DaVinci processors and advanced H.264 video codec, HIKVISION DS-8104HMI-A Mobile DVR delivers real-time CIF resolution video for 4 channels. DS-8104HMI-A also applies patented premium anti-shock technology, exquisite and portable design, as well support two pluggable 2.5" hard disk, which meets the strict requirement in various mobile surveillance applications such as bus, taxi, train, vault truck, and vans among others.



DS-8104HMI-A

2. Model Description

DS-8100HMI-A/xx: 4-ch video input and 4-ch audio input. All channels can max support 4CIF recording resolution. Support 2 SATA HDDs.

Note: The default DVRs are without HDD.

A factory recommended HDD should be used for this device.

/xx means 3G module (optional):

/GE: build in EVDO module

/GW: build in WCDMA module

/GS: build in TD-SCDMA module

3. Features

Basic Features

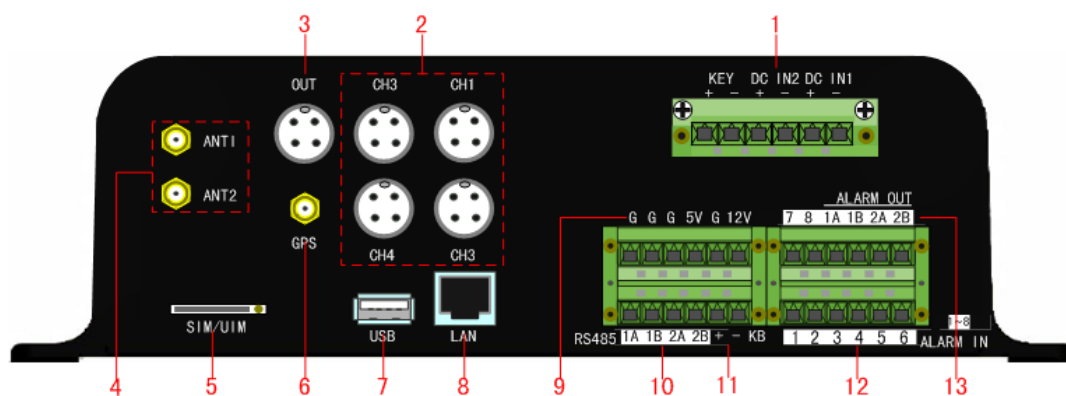
- Video compression standard: H.264
- Video processor: DAVINCI processor
- CPU: Embedded MPU
- OS: Real time operating system
- Support 4CIF(6Fps), DCIF(12 Fps), 2CIF(15 Fps), CIF(real-time) resolution
- Support 2 pluggable 2.5 inch SATA HDDs

Special Features

- Power supply unit: Use special technology of wide range power input(DC+6V~+36V), which fits into vehicle's fluctuated power system
- Adopt patented hard disk vibration-proof and bracing technology
- Shut down delay after ignition off (from 5min to 6h)
- 24 hours auto power on/off
- Support GPS function and global time synchronization.
- Support USB2.0 port for backup
- Support CDMA, EVDO, TD-SCDMA data transmission
- Build-in GPS module, all GPS data is stored in the recording stream.
- Build-in G-sensor for recording driving information.
- Support aviation plug for video/audio input, power output.
- Low power consumption.

4. Hardware Interface

Rear Panel



8104HMI-A Rear Panel

- (1) DC IN Power Input & KEY Startup control interface
- (2) Aviation plug for video/audio input, power output
- (3) Video/audio output
- (4) Main/Aux antenna interface for wireless network
- (5) SIM/UIM card interface
- (6) GPS antenna interface
- (7) USB interface
- (8) LAN Network interface
- (9) DC OUT Power output (+5V/+12V)
- (10) RS485 interface
- (11) KB Wired-remote control
- (12) Alarm input
- (13) Alarm output

5. Specifications

Model	DS-8100HMI-A
Video compression	H.264
Preview resolution	PAL: 704×576 (4CIF); NTSC: 704×480 (4CIF)
Playback resolution	4CIF/DCIF/2CIF/CIF/QCIF
Video input	4-ch, aviation interface (PAL/NTSC adaptive; 1.0Vp-p, 75Ω)
Video output	1-ch, aviation interface (PAL/NTSC adaptive; 1.0Vp-p, 75Ω)
Frame rate	4CIF: 6fps DCIF: 12fps 2CIF: 15fps CIF/QCIF: 25(P)/30(N)
Video bit rate	32K~2048K, or user-defined(Max. 8Mbps)
Audio compression	OggVorbis, 16Kbps
Audio input	4-ch, aviation interface (linear electrical level, 1kΩ)
Audio output	1-ch, aviation interface (linear electrical level, 600Ω)
Stream type	Video/Video&Audio
Alarm in	8-ch sensor input, support 2 types: N.O./N.C.
Alarm out	2-ch relay(or dry contact) output
Wireless network	Build-in module, double SMA antenna interface (optional)
GPS	1 SMA antenna interface (optional)
SATA interface	Support 2 pluggable SATA HDDs, each can support up to 2000G
Technical patent	Hard disk vibration-proof and bracing technology
USB interface	USB 2.0
Communication interface	1 RJ45 10M/100M adaptive Ethernet interface, 1 RS-485 interface, 1 USB interface
Power-off Delay	Shut down delay after ignition off (from 5min to 6h)
Power input	6~36V adaptive
Power output	DC 12V/5V, build-in resettable fuse
Consumption	≤6W(without hard disks)
Working temperature	-10°C ~ +55°C
Working humidity	10% ~ 95%
Size	236mm (W)×73mm (H)×210mm(D)
Weight	≤3Kg(without hard disks)
Controller	Special IR remote control

PAL: 176×144(QCIF), 352×288(CIF), 704×288(2CIF), 528×384(DCIF), 704×576(4CIF);
 NTSC: 176×120(QCIF), 352×240(CIF), 704×240(2CIF), 528×320(DCIF), 704×480(4CIF).