

Standard Mobile DVR



Features That Make a Difference:

- Pluggable GNSS (Global Navigation Satellite System) module for precisely positioning the vehicle via the satellite and recording the location information in the stream
- Pluggable 3G (WCDMA), Wi-Fi (optional), and 2G (optional) module providing flexible data transmission solutions
- Specialized aviation connectors ensuring signal stability
- 3G dialing function support
- Information collection interfaces collecting driving information such as left/right turn, braking, backing up, etc.
- 4 analog channels of video inputs and 2 channels of audio inputs connectable; each channel supporting up to D1 resolution with H.264 encoding technology
- One 2.5-inch HDD and one SD/SDHC card pluggable, adopting hard disk vibration damping technology
- User-friendly GUI
- Wide-range power input (+8VDC ~+36 VDC)
- Power-off protection preventing accidental data loss
- Tensile aluminum chassis with no fan design well adaptable to working environment
- Standard 1DIN dimensions, supporting embedded and bracket installation

The Illustra Standard Mobile DVR, Model ADC-MD114-4, sets the standard in terms of performance, powerful functionalities and robustness for the challenging tasks of mobile video surveillance. A practical workhorse design ensures that this Mobile DVR by American Dynamics delivers exceptional performance over a long life-span while overcoming the challenges posed by heat, dust, bumps, vibrations, unstable power supply and unreliable network transmission in moving vehicles.

Quality that's In-built

For flawless and continuous performance over long periods of time, the Illustra Standard Mobile DVR is manufactured with high quality components that conform to international standards. For instance, only the best quality power supplies are used to protect sensitive electronics of the system against power spikes or surges. Anti-vibration design features and high quality damping materials minimize degradation in performance and mechanical failures. A tensile, heat dissipating aluminum chassis with a 'no fan design' is ideally suited to the working environment in vehicles on the move. The use of such light-weight, high stability materials, and low power consuming devices also means that public transportation companies running buses, metros and trains or school and corporate transportation systems get the added advantage of lower repair/ maintenance costs.

Comprehensive and Powerful Functionalities

The Illustra Standard Mobile DVR adopts an embedded Linux operating system and offers

a world of functionalities that make it a complete solution for mobile video surveillance. It provides powerful monitoring functionalities, including audio and video encoding & decoding, 3G network transmission and satellite positioning service.

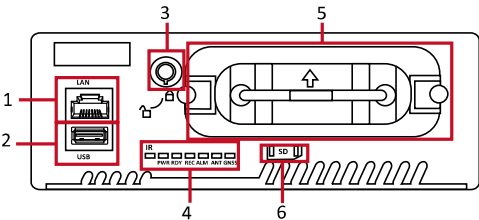
The Mobile DVR can work as a standalone recorder. 4 analog channels of video inputs and 2 analog audio inputs can be connected with each channel supporting up to D1 resolution with H.264 encoding technology. The Mobile DVR can also work in a large network with other devices to build a comprehensive surveillance system.

Reliable Data Transmission, GNSS and Communication Solutions

The Illustra Standard Mobile DVR empowers you with a choice of convenient options for reliable data transmission, satellite-based positioning and 3G dialing function support. A pluggable GNSS (Global Navigation Satellite System) module helps in precisely positioning the vehicle via the satellite and recording the location information in the stream. Pluggable 3G (WCDMA), Wi-Fi (optional), and 2G (optional) modules provide flexible data transmission solutions while specialized aviation connectors in the Mobile DVR ensure signal stability. The Mobile DVR even incorporates Information collection interfaces for collecting driving information such as left/right turn, braking, backing up, etc. as this is vital for emergencies on the road.

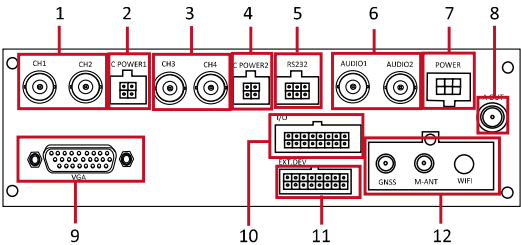
Physical Interfaces:

Front Panel



Index	Name	Description
1	LAN	10M/100M self-adaptive Ethernet interface
2	USB	USB interface
3	Hard disk lock	Lock/Unlock the hard disk box.
4	Indicators	<p>IR: IR Receiver Receive IR signal from remote control.</p> <p>PWR: Power indicator Light in green after device startup; light in red when device standby.</p> <p>REY: Ready indicator Light in green after device starts up properly.</p> <p>REC: Record Indicator Light in green during recording process.</p> <p>ALM: Alarm Indicator Light in red when alarm occurs.</p> <p>ANT: 3G dialing indicator Light in steady green during dialing process; flash in green after dialing succeeded; The light is out when the dialing module is abnormal.</p> <p>GNSS: GNSS indicator Light in steady green during positioning process; flash in green after positioning succeeded; The light is out when the positioning module is abnormal.</p>
5	Hard disk box	Insert one 2.5-inch SATA HDD for data storage.
6	SD card slot	Insert one SD card for data storage.

Rear Panel

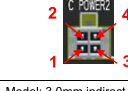
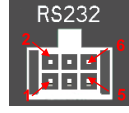
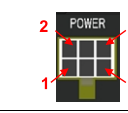
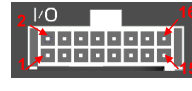




Index	Name	Description
1	CH1~CH2	BNC interface; video input of channel 1~2
2	C POWER1	Provide power supply for connected camera
3	CH3~CH4	BNC interface; video input of channel 3~4
4	C POWER2	Provide power supply for connected camera
5	RS232	RS-232 interface
6	AUDIO1 AUDIO2	Audio input of channel 1~2 (no audio input supported for channel 3~4)
7	POWER	Provide power supply
8	AV OUT	BNC interface for video output
9	VGA	VGA interface
10	I/O	7-ch high / low level signal trigger including 3-ch alarm inputs, 4-ch sensor in; 1-ch pulse signal input
11	EXT.DEV	RS-422 communication interface, two-way audio, video output signal, RS-485 and power supply
12	Pluggable Module	3G module, Wi-Fi module (optional), 2G module (optional), GPS module

Specifications

ADC-MD114-4	
Video/Audio input	
Analog video input	4-ch, BNC interface, PAL / NTSC self-adaptive
Audio input	2-ch, BNC interface; corresponding to CH1, CH2
IP video input	None
Video/Audio output	
VGA output	1-ch Resolution: 1920×1080, 1280×1024, 1280×720, 1024×768
CVBS output	1-ch; BNC interface; resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio output	1-ch; 3mm connector
Encoding/Decoding parameters	
Video compression	H.264
Encoding resolution	Main stream: D1 / 4CIF / 2CIF / CIF, Sub stream: CIF / QCIF
Frame rate	PAL: 1~25fps; NTSC: 1~30fps
Video bitrate	32Kbps~2Mbps; custom (Max.: 4Mbps)
Audio compression	G.711
Audio bitrate	16Kbps
Stream type	Video, Video & Audio
Dual stream	Supported
Hard Disk	
Type	One 2.5-inch SATA HDD
Capacity	Up to 1TB capacity supported
Installation	Pluggable
Protection	3-generation hard disk box
Backup	USB interfaces on hard disk box and device front panel supporting data backup
Wireless Network	
3G	WCDMA (2G module optional)
Wi-Fi (optional)	802.11 b/g/n supported, 2.4GHz
Positioning	
GNSS	GPS; BDS (optional)
External Interface	
Two-way audio	G.722
Alarm in	7-ch high/low level signal input; 1-ch pulse signal input; 3mm connector
Alarm out	2-ch; 3mm connector
Network interface	1; RJ45; 10M/100M self-adaptive Ethernet interface
Antenna interface	SMA interfaces on pluggable module including one for 3G, one for Wi-Fi and one for GPS
Serial interface	RS-232, RS-485, 3mm connector
USB port	1 × USB2.0
SIM card	1, standard SIM card slot
SD/SDHC card	1, standard SD/SDHC card slot
General	
Operating system	Linux
Operating method	IR remote control
Power supply	Input: +8~ +36VDC; Output: 12VDC/2A, 5VDC/1A
Consumption	Standby: Max. 0.5W; Full load: Max.20W (without 7-inch screen)
Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Working humidity	10%~90%
Dimensions (W×D×H)	178mm×170mm×50mm
Weight	Approx.1.6kg (without hard disk or SD/SDHC card)

PIN Definition of ADC-MD114-4

Index	Name	Picture	Details	Note
1	C POWER1 C POWER2	Model: 3.0mm indirect connector 	Pin 1: DCIN- Pin 2: DCIN+ Pin 3: DCIN- Pin 4: DCIN+	Provide power supply for camera(s)
2	RS232	Model: 3.0mm indirect connector 	Pin 1: GND Pin 2: 5V Pin 3: 232_RXD Pin 4: 232_TXD Pin 5: reserved Pin 6: reserved	Supporting external device connecting or DB9 for debugging by dedicated connection cable
3	POWER	Model: 3.0mm indirect connector 	Pin 1: DCIN+ Pin 2: DCIN- Pin 3: DCIN+ Pin 4: DCIN- Pin 5: KEY+ Pin 6: KEY-	
4	I / O	Model: 3.0mm indirect connector 	Pin 1, 3, 5, 7: -> Alarm in 1-3, sensor in 1 Pin 2, 4, 6, 8: -> Sensor in 2-5 Pin 9, 10 -> GND 12V Pin 11, 13 -> Alarm out 1 Pin 12, 14 -> Alarm out 2 Pin 15, 16: reserved	7-ch high / low level signal trigger including 3-ch alarm input, 4-ch sensor in; 1-ch pulse signal input
5	EXT.DEV	Model: 3.0mm indirect connector 	Pin 1: RX485+ Pin 2: RX485- Pin 3: TX485- Pin 4: TX485+ Pin 5: GND Pin 6: VOUT Pin 7: LINE_IN Pin 8: LINE_OUT Pin 9: GND Pin 10: 12V Pin 11: reserved Pin 12: 5V Pin 13: reserved Pin 14: reserved	Supporting RS-422, two-way audio and video output by dedicated connection cable
6	VGA	Model: DB15 	Pin 1: VIN1 Pin 2: VIN2 Pin 3: VIN3 Pin 4: VIN4 Pin 5: 12V Pin 6: 12V Pin 7: GND Pin 8: GND Pin 9: GND Pin 10: 12V Pin 11: 12V Pin 12: AIN1 Pin 13: AIN2 Pin 14: AIN3 Pin 15: AIN4	

Ordering Information

SKU No.	Illustra Model	Description
ISL00XNNNBCN	ADC-MD114-4	4-ch video & 2-ch audio input (BNC interface), CH1-CH4: 25/30fps@D1, Pluggable Anti-vibration HDD box(1*SATA interface, 1*USB interface) , 1*SD/SDHC slot, alarm I/O: 8/2 + (3G Module and GPS) + (10 meters M12 cable) + (DVR protection case)

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Approvals



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