



## DS-MP3516-RS Series Rail NVR

### Introduction

Adopting embedded Linux operating system, Hikvision DS-MP3516-RS series dedicated rail NVR (Network Video Recorder) provides powerful monitoring functionalities, including audio and video decoding, 3G & Wi-Fi wireless network transmission, satellite positioning service, secure data storage, and hard drive vibration damping. It can cooperate with other devices to build a comprehensive surveillance system. Thanks to the features of high stability, easy-to-carry and low power consumption, the DS-MP3516-RS series rail NVR is widely applied to the surveillance projects of rail transportations.

### Available Models

DS-MP3516-RS

DS-MP3516-RS/GW



- The 3G dialing function is only supported by the "/GW" devices.
- The Wi-Fi function is supported by the two kinds of devices.

### Main Features

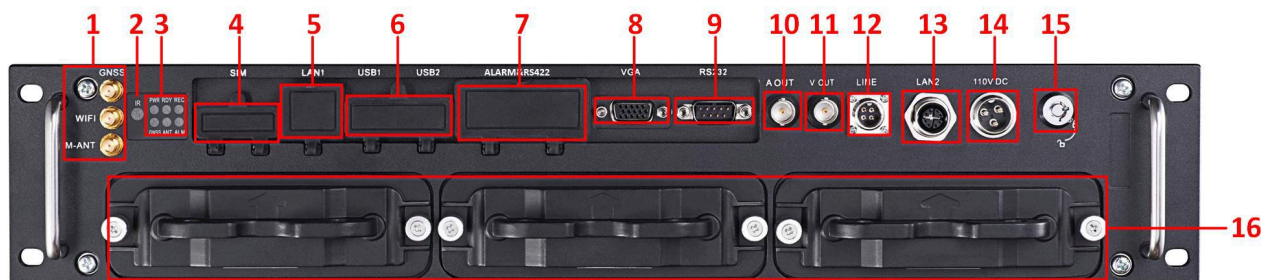
- User-friendly GUI providing easy and flexible operations
- Each channel supporting up to 2MP resolution with high-efficient and flexible H.264 encoding technology
- Built-in 3G (WCDMA) and Wi-Fi module providing flexible data transmission solutions
- Built-in GNSS (Global Navigation Satellite System) module precisely positioning the vehicle via the satellite, recording the location information in the video
- Hikvision private protocol (4000 protocol)
- 1-ch CVBS and 1-ch VGA video output and 1-ch audio outputs
- 1-ch VGA video output at up to 1920×1080 resolution
- 6 pluggable 2.5-inch HDDs/SSDs, adopting hard drive vibration damping technology
- Hard drive caddy with USB interface supporting intelligent temperature control and data export
- Specialized aviation connectors ensuring signal stability
- Delay (0 to 6h) shutdown and 24-hour scheduled startup/shutdown
- Wide-range power input rangers from 60 VDC to 160 VDC. The recommended input is 110 VDC.
- Power-off protection avoiding key data from loss
- Aluminum die-cast chassis with no fan design well adaptable to working environment
- Supports software-based firewall
- Ingress protection: IP54
- Provides a new data storage strategy: No file system design makes data storage more stable and writing/reading speed higher.



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## ● Front Panel



No.	Name	Description
1	GNSS	GNSS antenna interface
	WIFI	Wi-Fi antenna interface.
	M-ANT	3G antenna interface (only supported by the "/GW" devices)
2	IR	<b>IR:</b> IR receiver Receive IR signal from remote control.
3	Indicators	<b>PWR:</b> Power indicator Turns green after device starts up; Turns red when device stands by.
		<b>RDY:</b> Ready indicator Turns green when the device starts up
		<b>REC:</b> Record indicator Turns green when recording; The light is out when all recording processes are abnormal.
		<b>GNSS:</b> GNSS indicator No light when GNSS module is abnormal; Turns green when the GNSS module works normally; Blinks in green after the positioning successful.
		<b>ANT:</b> 3G indicator Turns green when 3G module works normally; Blinks slowly in 3G registration; Blinks frequently after successful 3G registration.
	<b>ALM:</b> Alarm indicator Turns red when alarm occurs.	
4	SIM	SIM card slot.
5	LAN1	RJ45 network interface for debugging.
6	USB1	USB 3.0 interface.
	USB2	
7	ALARM&RS422	● 2-ch relay signal output.
		● 8-ch relay signal input.
		● 1 RS-422 interface
8	VGA	VGA output.
9	RS232	Serial interface.
10	A OUT	Audio output.
11	V OUT	Video output.
12	LINE	Two-way audio input.
13	LAN2	M12 network interface for connecting IP cameras.
14	110 VDC	Power supply.
15	Lock	Hard drive lock.
16	Hard Drive Enclosure	3 hard drive caddies for 2.5 inch SATA HDDs/SSDs

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## Specifications

Model		DS-MP3516-RS	DS-MP3516-RS/GW	
System	Operating system	Linux		
	Main chip	NETRA 8165		
	Operating method	Local control, IR remote control, and embedded Web server		
Video/Audio input	Video input	16-ch		
	Audio input	16-ch		
Video/Audio output	CVBS output	1-ch	BNC interface	
		VGA output	1-ch Resolution: 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz	
	Audio output	1-ch	BNC interface	
Video/Audio compression	Video compression	H.264		
	Audio compression	G.711		
	Recording resolution	1080p/720p		
	Video frame rate	PAL: 1 to 25 fps, NTSC: 1 to 30 fps		
	Stream type	Video, Video and Audio		
	Two-way audio	G.722	Aviation plug	
		Playback	Local playback: single channel playback; Web playback: single channel playback and multi-channel synchronous playback.	
Hard Drive	Hard drive	3 hard drive caddies: 6× 2.5 inch SATA HDDs/SSDs		
Wireless	Dialing	3G (WCDMA)		
Network	Wi-Fi	Built-in, 802.11 b/g/n supported, 2.4GHz		
Positioning	GNSS	GPS		
External interface	Alarm input	8-ch relay signal input		
	Alarm output	2-ch relay signal output		
	Network interface	2 × 10M/100M/1000M self-adaptive Ethernet interface. One M12 interface for IP camera, and one RJ45 for debugging.		
	USB interface	2 × USB3.0		
	Serial interface	1 × D89		
Power supply	Consumption	Standby: Max. 0.5W; Full load: Max.20W (without IP cameras or hard drives)		
	Input	110 VDC recommended (60 to 160 VDC wide range power supply)		
	Output	12 VDC/2A, 5 VDC/2A		
General	Working temperature	Commercial application: -10 to +55° C (+14 to +131° F) Industrial application: -20 to +60° C (-4 to +140° F)		
	Working humidity	10% to 95%		
	Dimensions (W×D×H)	482 × 89.5 × 221.8mm (19.0 × 3.5 × 8.7")		
	Weight (without hard drives)	Aprox.6.5kg (14.3lb)		