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MS-7920/7928/79212 Series Product Specification

Version: V1.1

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1. Product parameters

Items	Device parameters	DVR Performance index (Advanced)		
Name	Product Name	MS-7920	MS-7928	MS-79212
System	Operation System	Linux		
	Operation Interface	Graphical Interfaces		
	UI language	Chinese/English/Portuguese/Russian/French/Turkish optional		
	File System	TES Proprietary Format		
Video	Video Input	4CH AHD / IPC 720P / 960H / 1080P	8CH AHD / IPC 720P / 960H / 1080P	12CH AHD / IPC 720P / 960H / 1080P
	Video Output	1CH CVBS PAL/NTSC Output,1.0Vp-p,75Ω,Composite Video Signal		
		1CH VGA Support 1920*1080,1280*720,1024*768 Resolution		
	Video Display	1 / 4 Screen Display	1 / 4 / 8 Screen Display	1 / 4 / 8 / 12 Screen Display
	Video Standard	PAL：25 frames/s; NTSC：30 frames/s		
	System Resources	PAL：100 Frames; NTSC：120 Frames	PAL：200 Frames; NTSC：240 Frames	PAL：300 Frames; NTSC：360 Frames
Audio	Audio Input	4CH Independent Input, 600Ω	8CH Independent Input, 600Ω	12CH Independent Input, 600Ω
	Audio Output	1CH, output channel switchable		
	Recording Mode	Sound And Image Synchronization		
	Audio Compression	G711A		
Digital Processing & Storage	Image Compression	H.264 / H.265		
	Image Format	4 * 720P / 960H / 1080P	8 * 720P / 960H / 1080P	12 * 720P / 960H / 1080P
	Image Quality	1-14 level adjustable		
	Video Stream	192Kbps - 4096Kbps (Each CH)		
	Video Taking Up Of HDD	MDVR (AHD)：165M - 3.5GByte/hour MNVR (IPC)：85M-1800MByte/hour		
	Playback Resolution	1 or 4 * 1080P / 720P	1 or 4 * 1080P / 8 * 720P	1 or 4 * 1080P / 12 * 720P
	Audio Bitrate	4KByte / s / CH		
	HDD Storage	2*2.5 inch 7mm(H)SATA HDD, maximum support 4TB		
	SD card storage	1*SD card slot, maximum support 128GB		

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Alarm	Alarm input	12CH Independent Input(high and low levels optional)
	Alarm output	3CH output(2CH relay outputs, 1CH DC12V+ output)
	Analog input	2CH analog inputs
	Motion Detection	Optional high, medium and low sensitivity levels
USB	HOST interface	2*USB (Front port supports USB3.0, Rear port connects to Firebox USB2.0)
eSATA	eSATA interface	1*eSATA expansion interface for video recording and file backup via eSATA interface
Network Interface	LAN	Can expand 1*RJ45 interface, 100M
	WiFi	Expandable built-in WiFi module (IEEE802.11N/G/B), optional 2.4GHz and 5.0GHz
	4G/5G	Can Expand two 4G/5G(FDD-LTE/TD-LTE/WCDMA/CDMA2000) Module Inside
GPS Interface	GPS	Can expand GPS/BD/GLONASS Module Inside
Extend Interface	RS232	RS232*3, convenient to connect with other vehicle equipment
	RS485	RS485*2, convenient to connect with other vehicle equipment
	Intercom	Can expand 1*MIC for Intercom function
	Pulse speed	1* pulse speed
	G-Sensor	Can expand G-sensor module inside
	CAN BUS	Can expand 2*CANBUS module inside
	Amplifier	Support 2*power amplifier, 1*inside the vehicle, 1*outside the vehicle (the default is not Standard, you need to choose the O function)
Others	Power Consumption	DC9-36V, ≤12W
	Working Temperature	-40℃ ~ +70℃ / ≤80%
Package	Product Size	243(L)*190(W)*80(H)mm
	Product Weight	3.0KG(No HDD) / 3.2KG(No HDD) / 3.2KG(No HDD)
	Gross Weight	3.2KG(No HDD) / 3.4KG(No HDD) / 3.4KG(No HDD)

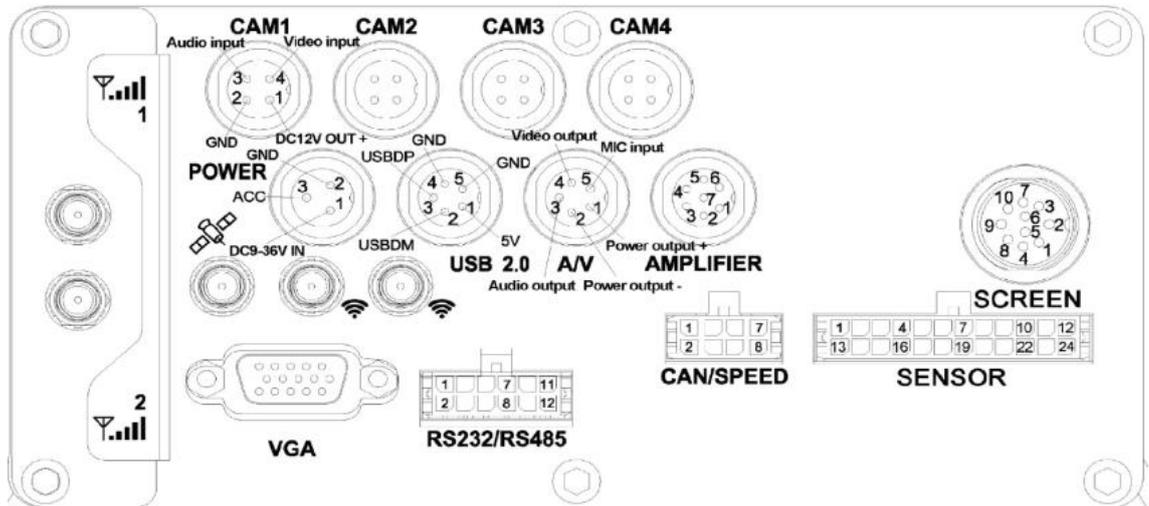## Optional functions:

Basic Type (Pin Aviation Connector)

+A：GPS   +P：POE(IPC)

+B：3G/4G Function   +O：Power amplifier interface

+E：RJ45(LAN Port)   +F：SD card

+J：Fireproof Box   +W：WiFi

+K：CANBUS   +M：Dispatch interface

+L：WiFi hot-Spot   +2：SIM2 module
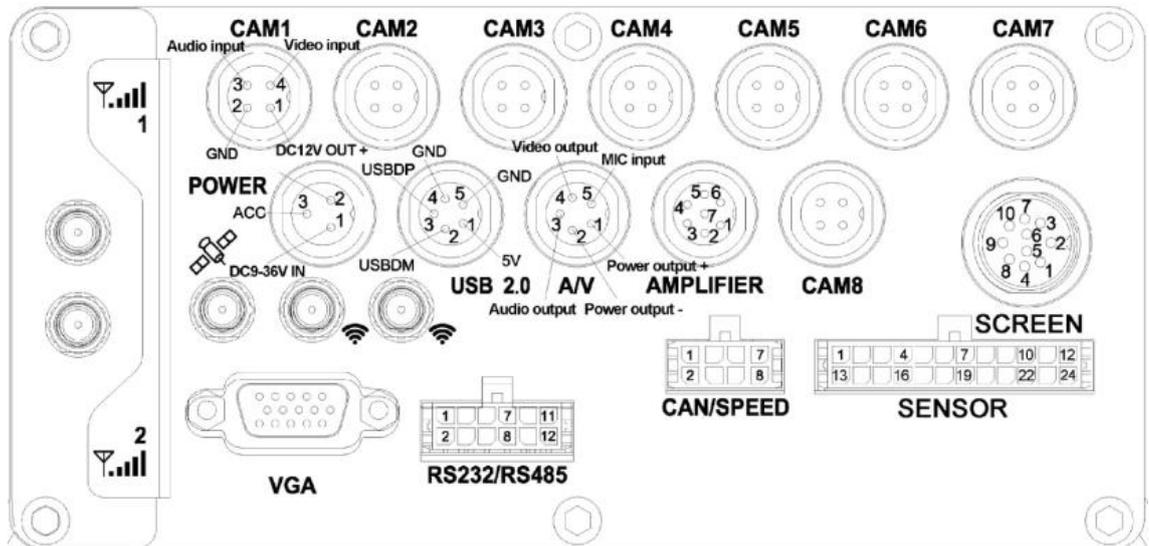
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2. Instruction of Installation

2.1. Instruction of External Interface Wiring
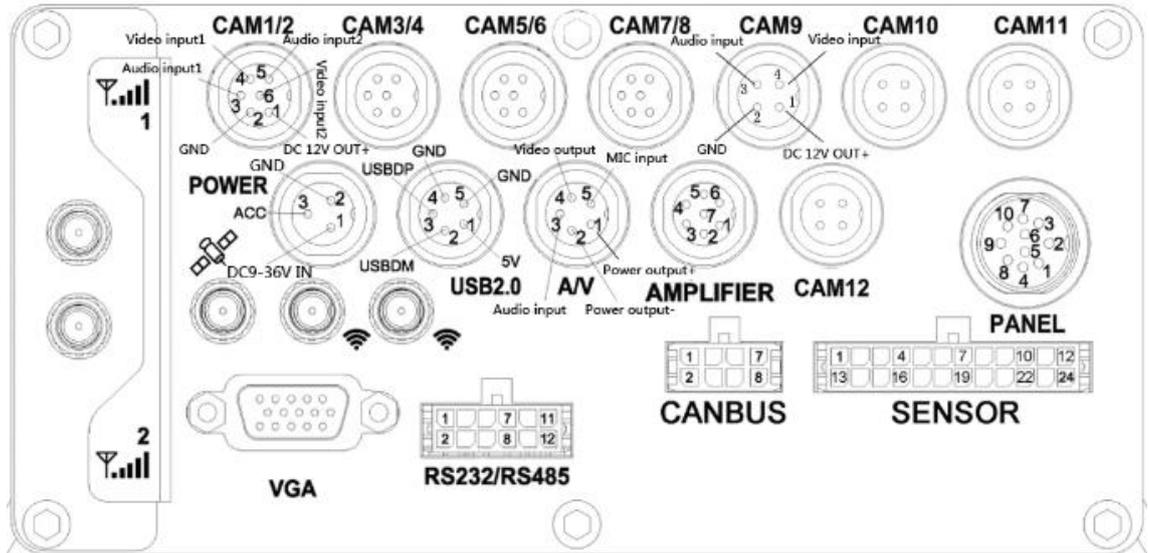
2.1.1. MS-7920-AHD (4CH AHD MDVR)

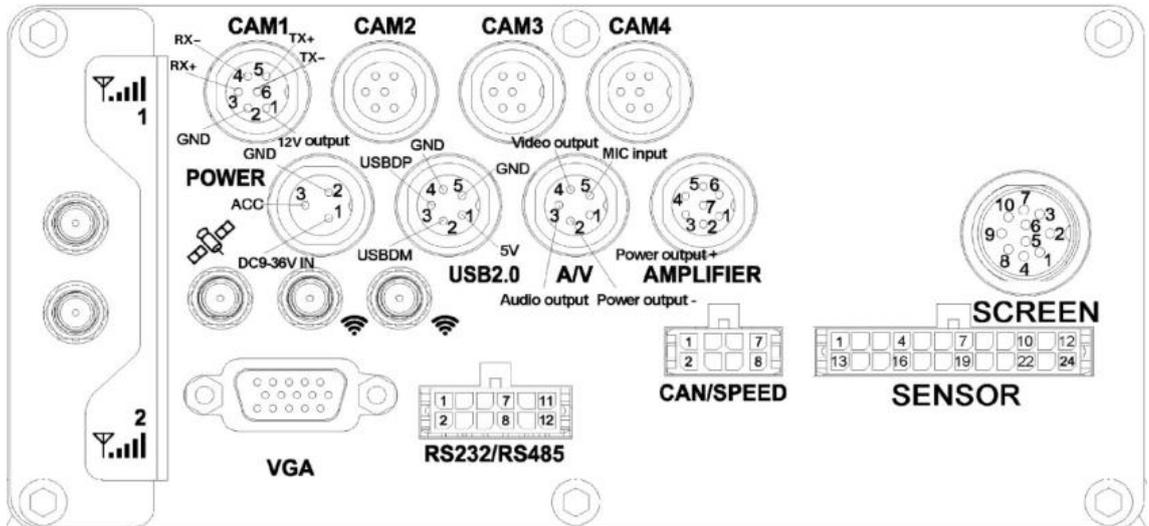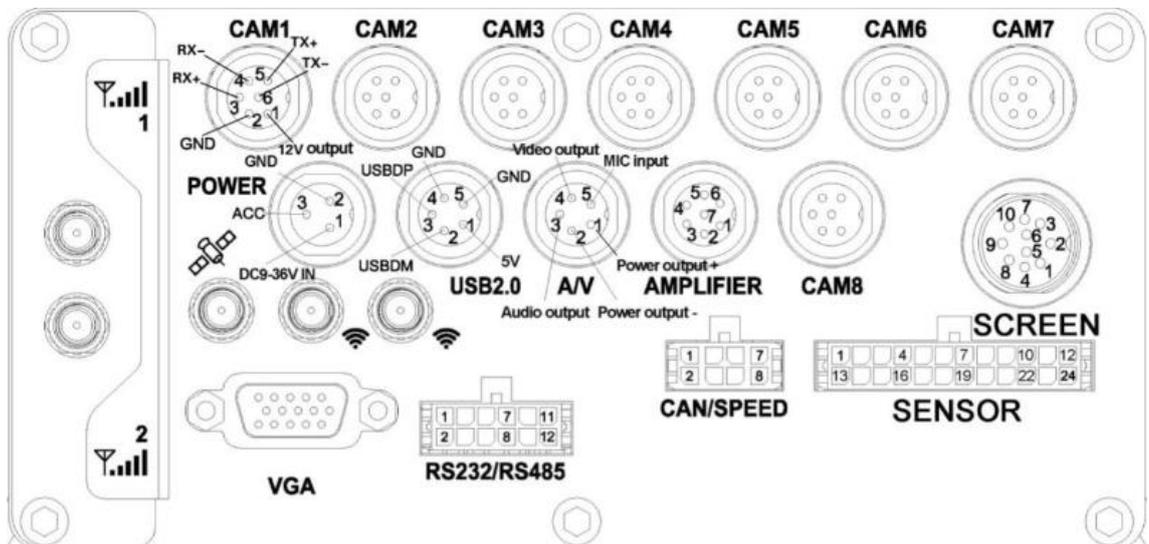#### 2.1.2. MS-7928-AHD (8CH AHD MDVR)

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2.1.3.   MS-79212-AHD   (12CH AHD MDVR)

2.1.4.   MS-7920-NVR   (4CH IPC MNVR)

2.1.5.   MS-7928-NVR   (8CH IPC MNVR)

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2.1.6. MS-79212-NVR (12CH IPC MNVR)
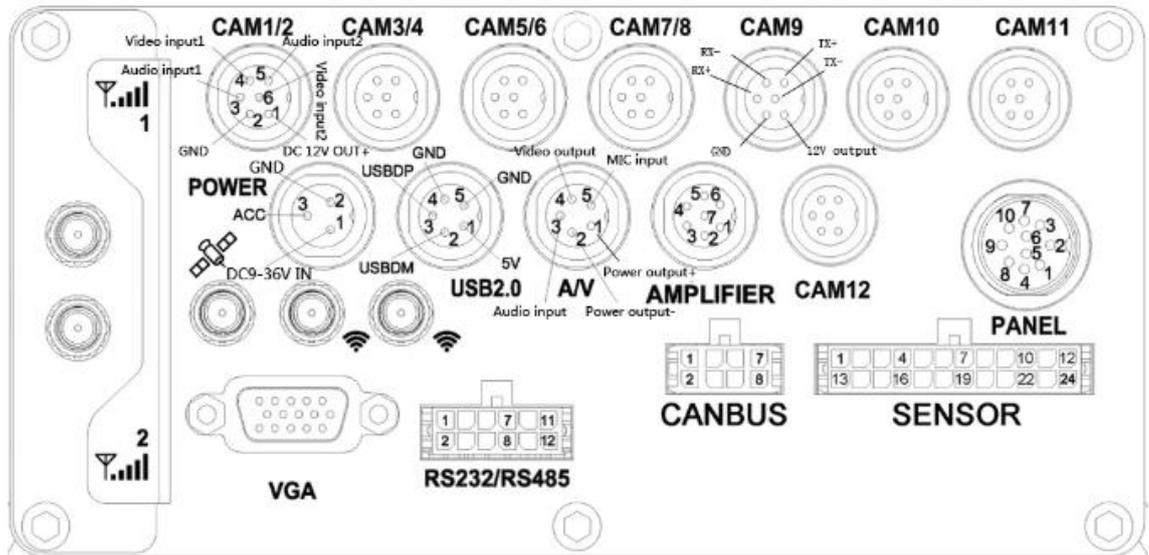
RS232/RS485：

Pin 1. RS232 TX 1	**Pin 4.** RS232 RX 2	**Pin 7.** RS485+ 1	**Pin 10.** RS485- 2
Pin 2. RS232 RX 1	**Pin 5.** RS232 TX 3	**Pin 8.** RS485- 1	**Pin 11.** DC12V OUT+
Pin 3. RS232 TX 2	**Pin 6.** RS232 RX 3	**Pin 9.** RS485+ 2	**Pin 12.** GND

CANBUS：

Pin 1. CANBUS+ 1	**Pin 3.** CANBUS+ 2	**Pin 5.** Pulse speed+	**Pin 7.** DC5V OUT+
Pin 2. CANBUS- 1	**Pin 4.** CANBUS- 2	**Pin 6.** Pulse speed-	**Pin 8.** GND

AMPLIFIER：

Pin 1. Inside amplifier+	**Pin 3.** Outside amplifier+	**Pin 5.** NC	**Pin 7.** GND
Pin 2. Inside amplifier-	**Pin 4.** Outside amplifier-	**Pin 6.** NC	

PANEL：

Pin 1. DC12V OUT+	**Pin 4.** NET RX-	**Pin 7.** MIC OUT	**Pin 10.** GND
Pin 2. GND	**Pin 5.** NET RX+	**Pin 8.** RS232 RX	
Pin 3. Audio OUT	**Pin 6.** Video OUT	**Pin 9.** RS232 TX	

SENSOR：

Pin 1. Alarm input 1	**Pin 7.** Analog alarm input 1	**Pin 13.** Alarm input 7	**Pin 19.** Analog alarm input 2
Pin 2. Alarm input 2	**Pin 8.** DC12V OUT+	**Pin 14.** Alarm input 8	**Pin 20.** GND
Pin 3. Alarm input 3	**Pin 9.** Alarm output 1	**Pin 15.** Alarm input 9	**Pin 21.** Alarm output 1
Pin 4. Alarm input 4	**Pin 10.** Alarm output 2	**Pin 16.** Alarm input 10	**Pin 22.** Alarm output 2
Pin 5. Alarm input 5	**Pin 11.** Alarm out 12V+	**Pin 17.** Alarm input 11	**Pin 23.** GND
Pin 6. Alarm input 6	**Pin 12.** DC12V OUT+	**Pin 18.** Alarm input 12	**Pin 24.** DC5V OUT+

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3. Product Size
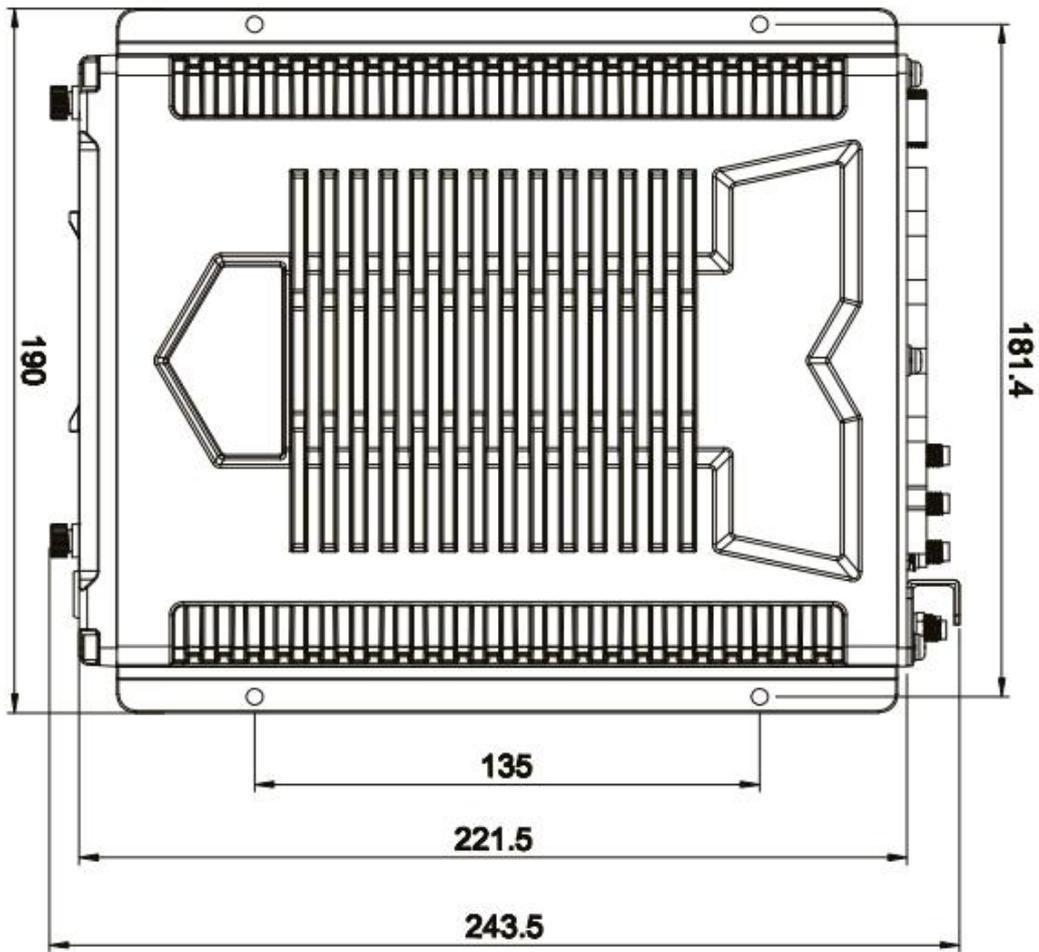
MS-7920/7928/79212 Series Installation Dimensions