



TMD-X5N-12CH **MDVR - Highly Integrated Design**











GPS Tracking

Geo Fencing

Playback Trips





SD Card



Live Tracking



Product Summary

The FTMD-X5N-12CH is a high performance mobile DVR specially developed for mobile video surveillance and remote video monitoring, featuring high functional scalability. It is equipped with a highspeed processor and an embedded Linux operating system, integrating state of the art H.265 video compression/decompression technologies, 4G/Wi Fi mobile wireless network transmission technologies, and GPS/BDS positioning technologies in the IT industry.

Key Features:

- Supports 8 AHD Channels (1080p) + 4 IPC Channels (1080p)
- Embedded Linux operating system
- > AHD with AI function extension
- ➤ H.265/H.264 encoding and decoding to improve the memory space utilization
- > Supports upto 2TB (2.5") hard disk storage with hard disk heating & hard disk poweroff protection technologies
- SD card backup
- Connection with storage units such as a fireproof box for disaster recovery backup

> Good anti-vibration performance and high reliability, providing comprehensive functions

Technical Specification

FIMD-X5N-12CH	Technical Spec	cification	
Function Overview Preview, video recording, playback, network transmission, and positioning System Operating System Linux 4.9 Control Mode CP4, mouse, Easy Check, and network (3G/4G/Wi-Fi) Video Input Pout Poutput Pout Poutput Poutpu	Model		
System Operating System Linux 4.9 Control Mode CP4, mouse, Easy Check, and network (3G/4G/Wi-Fi) Video Input 8-channel AHD + 4-channel IPC Output 1-channel CVBS + 1-channel VGA Total Resource AHD: 8 × 720 p@ 30 FPS (PAL) or 8 × 1208 p@ 30 FPS (PAL) or 8 × 1208 p@ 30 FPS (NTSC) iPC: 4 × 108 0p@ 30 FPS (NTSC) IPC: 4 × 108 0p@ 30 FPS Video Signal Standard Level: 1 Vpp; impedance: 75 ohms NTSC/PAL (optional) Audio Input 8-channel AHD + 1-channel IPC Output 2-channels Audio Signal Standard Level: 2 Vpp; input impedance: 4.7 kilohm Display Display Split 1/4/9-screen display Screen Display Positioning information, alarms, license plate numbers, driving speed, time, etc. Operating Interface GUI			FTMD-X5N-12CH
System Operating System Control Mode CP4, mouse, Easy Check, and network (3G/4G/Wi-Fi) Video Input Note Note Note Note Note Note Note Not	Function Overvie	w	
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Audio Input 8-channel AHD + 1-channel IPC Output 2-channels Audio Signal Standard Level: 2 Vpp; input impedance: 4.7 kilohm Display Display Split 1/4/9-screen display Screen Display Positioning information, alarms, license plate numbers, driving speed, time, etc. Operating Interface GUI		Total Resource	8 × 720p@ 25 FPS (PAL) or 8 × 1080p @ 10 FPS (PAL) or 8 × 720p @ 30 FPS (NTSC) or 8 × 1080p @ 10 FPS (NTSC) IPC:
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Display Split 1/4/9-screen display Screen Display Positioning information, alarms, license plate numbers, driving speed, time, etc. Operating Interface GUI		Audio Signal Standard	Level: 2 Vpp; input impedance: 4.7 kilohm
Screen Display Positioning information, alarms, license plate numbers, driving speed, time, etc. Operating Interface GUI	Display		
plate numbers, driving speed, time, etc. Operating Interface GUI		Display Split	1/4/9-screen display
		Screen Display	
Recording		Operating Interface	GUI
	Recording		











Audio/Video Video H.264/H.265

Compression Format Audio ADPCM, G.711U, G.711A

> AHD: PAL:

1080p (1920 × 1080), 720p (1280 × 720), WD1 (928 × 576), WHD1 (928 × 288), WCIF (464 × 288), D1 (704 × 576),

HD1 (704 \times 288), CIF (352 \times 288);

Image Resolution NTSC:

> 1080p (1920 × 1080), 720p (1280 × 720), WD1 (928 × 480), WHD1 (928 × 240), WCIF (464 × 240), D1 (704 × 480), HD1 (704 \times 240), CIF (352 \times 240);

IPC:

 $1080p (1920 \times 1080), 720p (1280 \times 720);$

Levels 1-8 adjustable (preferably Level 1) Image Quality

Recording Mode Start-up/Manual/Scheduled/Alarm event

recording

0-60 min **Alarm Prerecording**

Alarm Recording Delay 0-30 min

Mirrored Recording Supported

Playback

Playback Channel 1-channel local playback

Search Mode By date/time, channel, or event

Network

3G/4G EVDO/TD-SCDMA/WCDMA/TDD-

LTE/FDD- LTE (optional)

WIFI W217 module. Supported protocol:

802.11a/b/g/n/ac Supported frequency

band: 2.4/5.0 GHz

Ethernet 1 × RJ45 (10/100 M/1000 M)

Positioning

GPS/BD Positioning, speed detection, and time

synchronization

Sensor

	G-Sensor	Built-in 6-axis inertial sensor		
Storage				
	HDD/SSD	1 × 2.5" SATA HDD or SSD, 7 mm/9.5 mm/15 mm thick, supporting hard disk heating		
	SD	Hot-swapping 32/64/128/256 GB SDXC		
Port				
	USB	1 × USB2.0(Type A) + 1 × USB2.0(Type B)		
	SD	1 × SD card slot		
	SIM	2 × SIM card slot		
	Serial Port	2 × RS232, 3 × RS485(1 × R WATCH)		
	Ю	8-channel input and 2-channel output		
	Pulse Speed Detection	1-channel		
	Control Panel	CP4\CP5		
	Intercom	1 × MIC port (CP4)		
	VGA	1×VGA		
Power Supply				
	Input	DC 8-36 V		
	Output	5 V @500 mA & 12 @500 mA		
	Maximum Typical Power Consumption	70 W		
	Standby Power Consumption time	≈ 0 W		
Physical Characteristics				
	Dimensions (mm)	295 mm × 222 mm × 89 mm (With the bracket and rear shield)		
	Weight (kg)	3.20 (with hard disks)		
Environment				
	Operating Temperature	-40°C to +70°C		

+44 121 582 4700



(Heated, without hard disks)

Operating Humidity

8% to 95% (non-condensing)

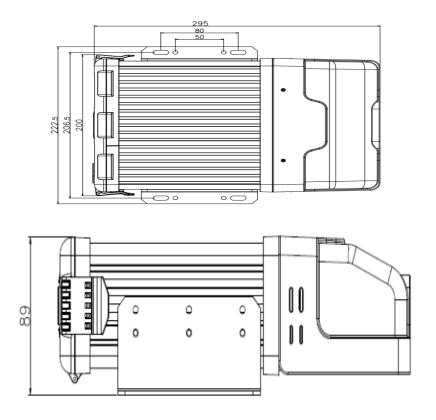
ΑI

MDVR AI

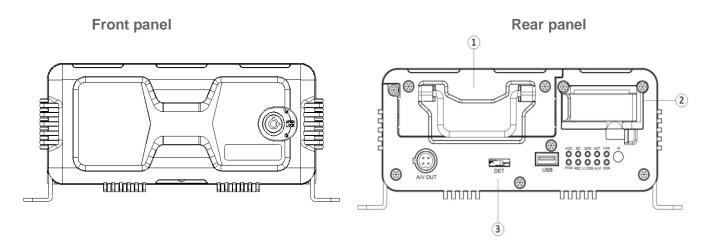
Fleetly AHD camera CA29M (DSM) and CA20S3.0 (ADAS)

Dimensions

(Unit: mm)

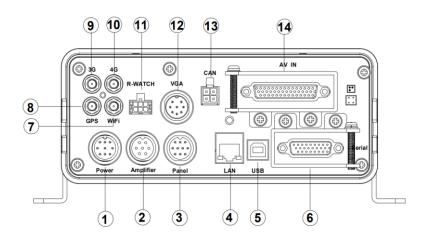


Panel Ports

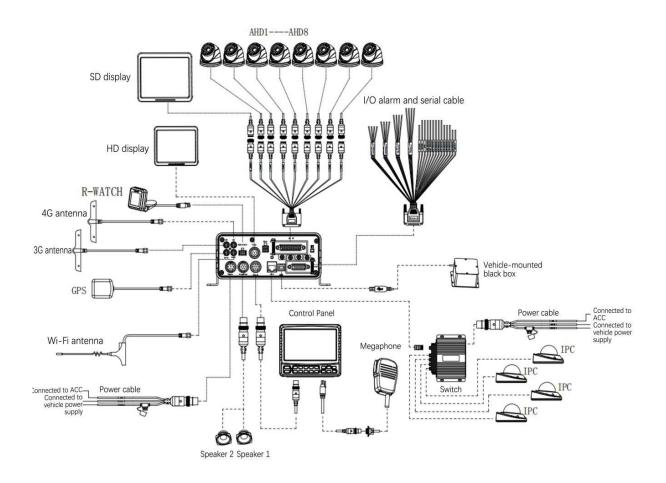


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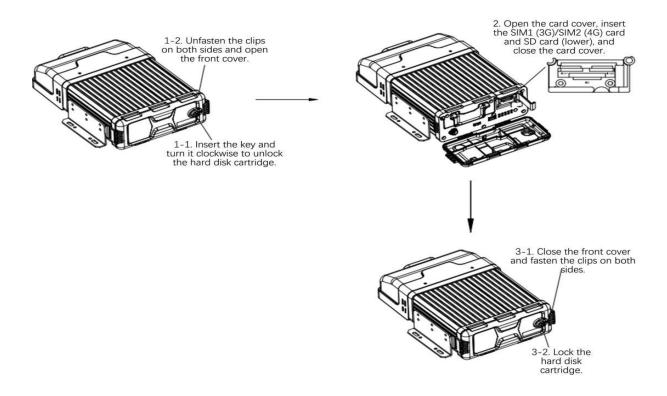
S/n	Name
1	Hard disk module
2	Communication module
3	Main module (including the A/V OUT, DET, USB port, and indicator)



S\N	Silk Screen	Description
1	DC8-36V	Power input port
2	Amplifier	Power amplifier port
3	Panel	CP4 port
4	LAN	Network port
5	USB	USB port
6	Serial	Serial port
7	WIFI	Wi-Fi antenna connector
8	GPS	GPS antenna connector
9	3G	3G antenna connector
10	4G	4G antenna connector
11	R-WATCH	R-WATCH port
12	VGA	VGA port
13	CAN	CAN port

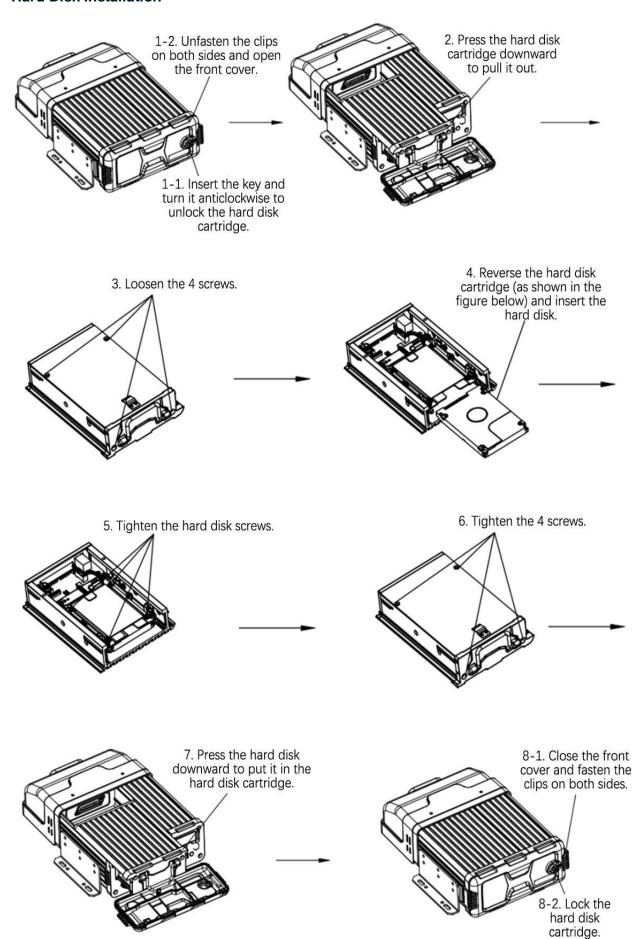


SIM Card Insertion



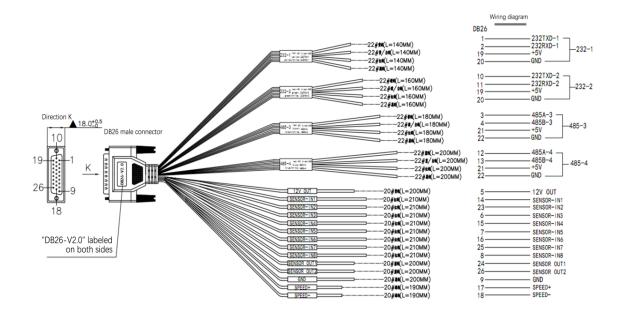
Mello@fleetly.tech

Hard Disk Installation



External Cable Connector Pinouts

Alarm and serial cable connector pinout



Video cable connector pinout

