


FTMD-X5NPro-12CH • MDVR
Technical Datasheet

FTMD-X5NPro-12CH
MDVR - Highly Integrated Design

GPS Tracking

Geo Fencing

Playback Trips

Wi-Fi

SD Card

Live Tracking

CE UK CA PTCRB

Product Summary

FTMD-X5NPro-12CH is a cost-effective device specially developed for mobile video surveillance and remote video monitoring, featuring high functional scalability. It is equipped with a high-speed processor and an embedded operating system, integrating state of the art H.265 video compression/decompression technologies, 3G/4G/Wi Fi network transmission technologies, and GPS/BDS positioning technologies in the IT industry. It adopts the latest processor so lotion and supports recordings in formats of 1080p, 720p, WD1, WHD1, WCIF, D1, HD1, and CIF. Moreover, it allows real time local recording and wireless uploading of vehicle status data and monitoring data.

Key Features:

- Embedded Linux o pirating system
- H.265/H.264 encoding and decoding to improve the memory space utilization
- 3.5-inch hard disk storage, hard disk heating & hard
- disk power off protection technologies
- SD card backup
- Connection with storage units such as a fireproof box for disaster recovery backup
- Outstanding anti-vibration performance and high reliability, providing comprehensive functions

Technical Specification

Model		
		FTMD-X5NPro-12CH
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	8-channel AHD + 4 channel IPC (PON power supply)
	Output	1-channel CVBS + 1 channel VGA
	Total Resource	AHD: 8*720P@25FPS(PAL) or 8 × 1080p @ 15 FPS (PAL) or 8 × 720p @ 30 FPS (NTSC) or 8 × 1080p @ 15 FPS (NTSC) IPC: 4*1080P@30FPS(IPC)
	Video Signal Standard	Level: 1 Vpp; impedance: 75 ohms NTSC/PAL (optional)
Audio		
	Input	8-channel AHD + 4 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	Time/Date, Vehicle Plate, Vehicle Number, Alarm, Speed, Location Information, Channel Name, ACC Information

Operating Interface	GUI	

Recording

Audio/Video	Video	H.264/H.265
Compression Format	Audio	ADPCM, G.711U, G.711A
Image Resolution	AHD: PAL: 1080p (1920 × 1080), 720p (1280 × 720), WD1 (928 × 576), WHD1 (928 × 288), WCIF (464 × 288), D1 (704 × 576), HD1 (704 × 288), CIF (352 × 288); NTSC: 1080p (1920 × 1080), 720p (1280 × 720), WD1 (928 × 480), WHD1 (928 × 240), WCIF (464 × 240), D1 (704 × 480), HD1 (704 × 240), CIF (352 × 240); IPC: 1080p (1920 × 1080), 720p (1280 × 720);	
Image Quality	Levels 1-8 adjustable (preferably Level 1)	
Recording Mode	Start-up/Scheduled/Alarm event recording	
Alarm Prerecording	0-60 min	
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)	
WI-FI	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	1 × 3.5" SATA HDD + 1 × M.2 SSD, hard disk heating supported
	SD	Hot-swapping 32/64/128/256 GB SDXC
Port		
	USB	1 × USB2.0 (5pin aviation connector) + 1 × USB2.0 (Type B)
	SD	1 × SD card slot
	SIM	2 × SIM card slot
	Serial Port	2 × RS232, 3 × RS485 (1 × R-WATCH)
	CAN	2 × CAN
	IO	8-channel input and 2 channel output
	Pulse	Speed Detection 1 channel
	Control Panel	CP4
	Intercom	1 × MIC port (CP4)
	VGA	1 × VGA
Power Supply		
	Input	DC 8~36V
	Output	5 V @ 500 mA & 12 V @ 500 mA
	Maximum Typical Power Consumption	100W
	Standby Power Consumption	≈ 0 W

Physical Characteristics

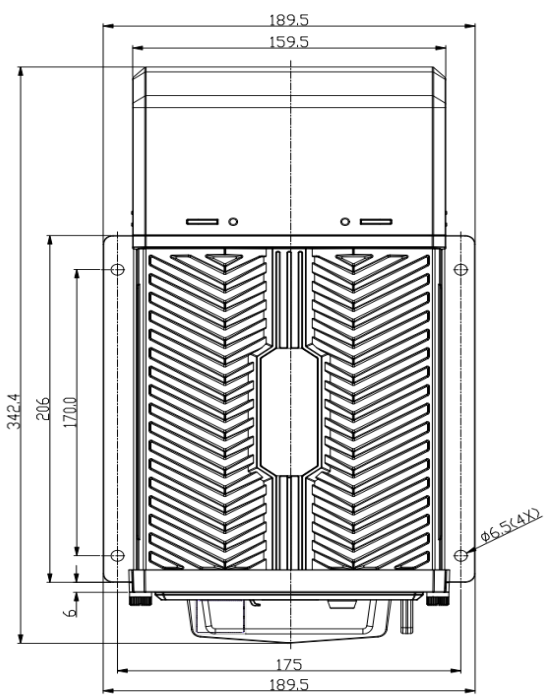
Dimensions(mm)	342.4 × 189.5 × 118.0 (With rear shield and bracket)
Weight (kg)	4.1kg (without hard disks)

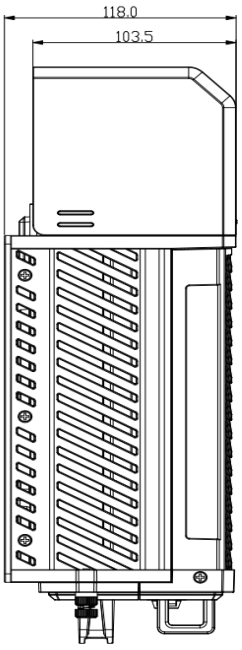
Environment

Operating Temperature	–40°C to +70°C (Heated, without hard disks)
Operating Humidity	8% to 95% (non-condensing)

Dimensions

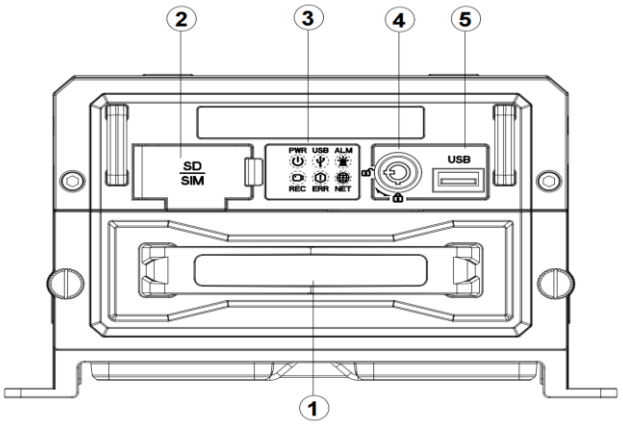
(Unit: mm)



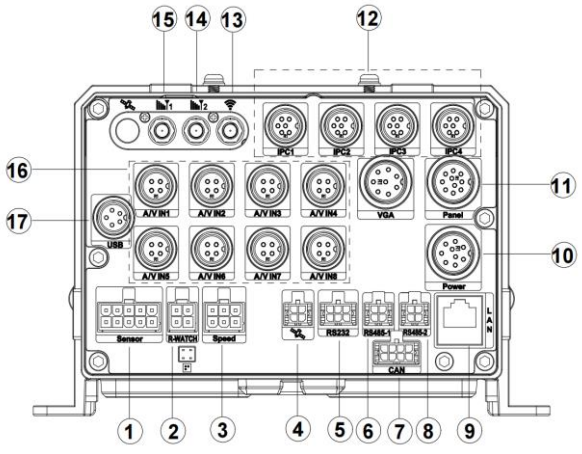


Panel Ports

Front panel



Rear panel

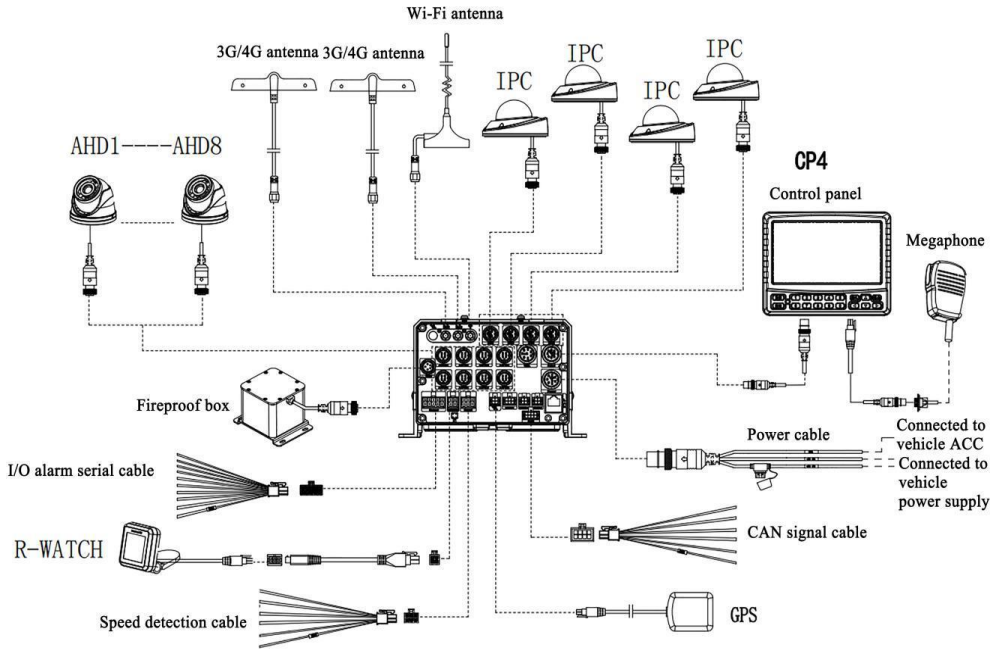


S/n	Name
1	Hard disk case (for holding a hard disk)
2	SD/SIM card slot
3	Indicator: power (PWR), USB, alarms (ALM), recording (REC), errors (ERR), network (NET)
4	Device lock
5	USB interface

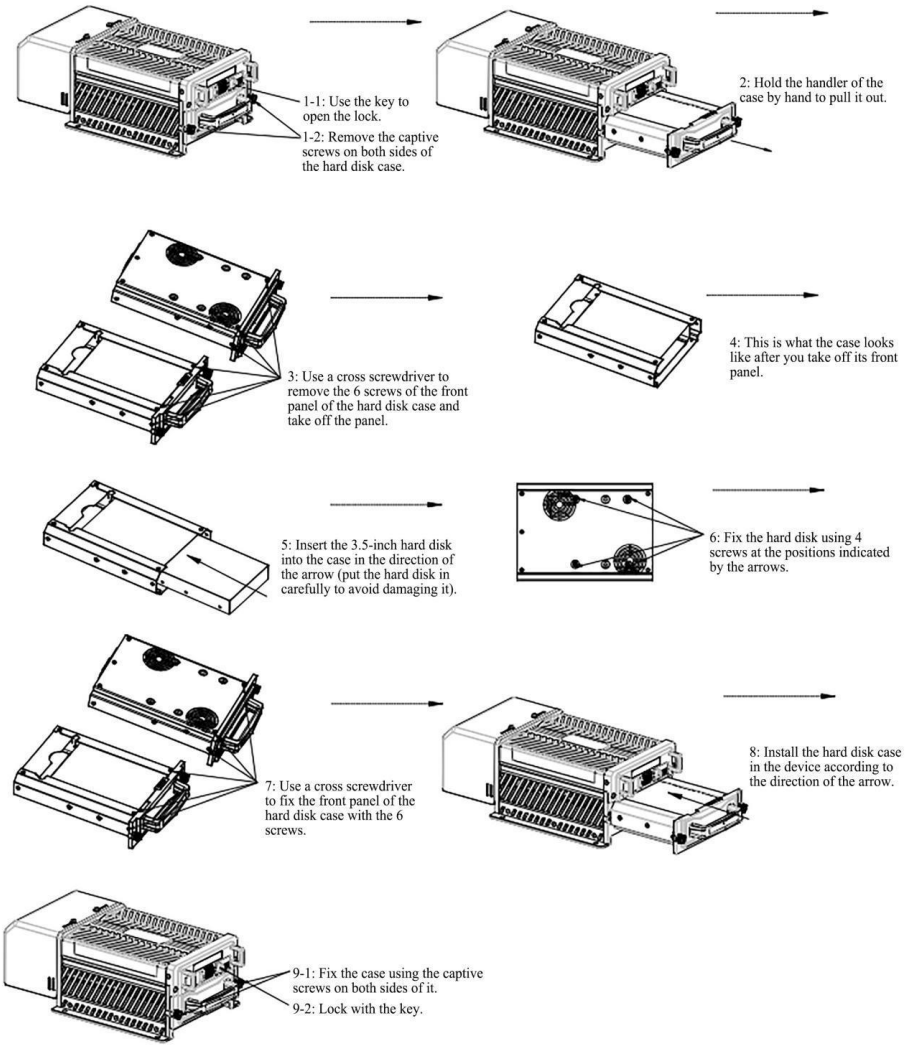
S\N	Silk Screen	Description
1	Sensor	Serial port
2	R-WATCH	R-WATCH port
3	Speed	Pulse velocity measurement input port/alarm output port
4		External positioning module port
5	RS232	2-RS232 ports
6	RS485-1	1-RS4 85 port
7	CAN	2-CAN ports
8	RS485-2	1 RS485 port
9	LAN	LAN port
10	Power	Power Input
11	Panel	CP4 port
12	IPC1~IPC4	IPC (PON power supply) au dio/video input ports 1-4
13		Wi-Fi antenna port
14		3G/4G antenna port
15		3G/4G antenna port
16	A/V IN1~A/V IN8	Analog audio/video input ports 1 to 8
17	USB	USB interface

Installation

Typical Wiring Diagram

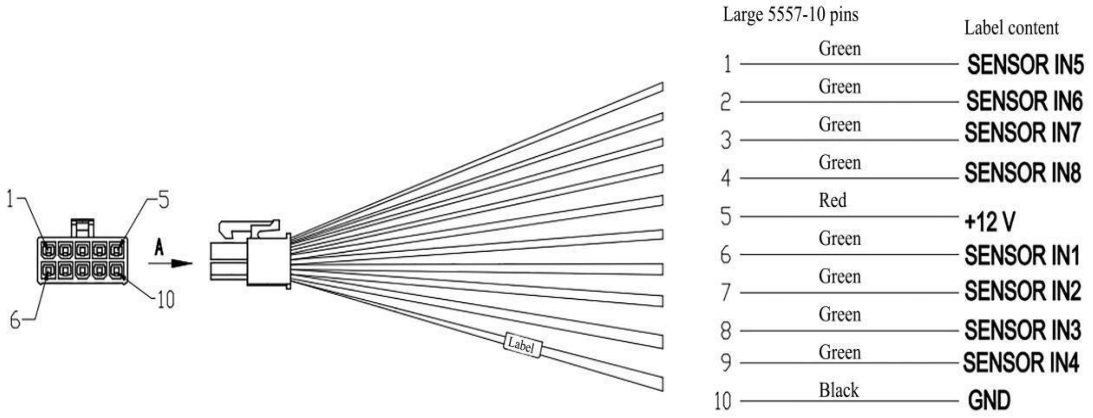


Hard Disk Installation

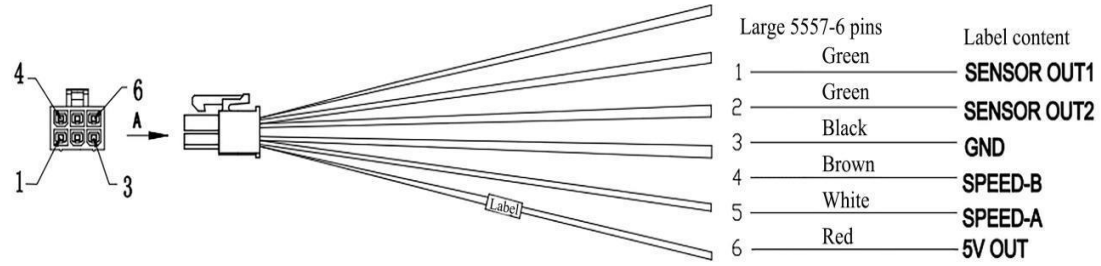


External Cable Connector Pinouts

I/O alarm and serial cable connector pinouts:



Speed detection cable connector pinouts:



CAN signal cable connector pinouts: