FTMD-X7Pro-16CH • MDVR
Technical Datasheet

FTMD-X7NPro-16CH
MDVR - Highly Integrated Design

GPS Tracking

Geo Fencing

Playback Trips

Wi-Fi

SD Card

Live Tracking

Product Summary

FTMD-X7NPro-16CH 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 network technologies, GPS/BDS positioning technologies, and Wi-Fi technology in the IT industry. It supports recordings in formats of 1080p and 720p. Moreover, it allows recording vehicle driving information and uploading videos remotely. It can also be used with the canter software to support alarm linkage by providing central remote video surveillance, vehicle management, and playback analysis based on the central database.

Key Features:

- State-of-the-art H.265 encoding and decoding in the IT industry to improve the memory space utilization
- 3G/4G network technologies, GPS/BDS positioning technologies, and Wi-Fitechnology (pluggable modules)
- 1080p/720p HD video recording 3.5-inch large hard disk, hard disk heating & hard disk power-off protection technologies
- Remote wake-up and IO wake-up

- Connection with storage units such as a fireproof box for disaster recovery backup
- Good anti-vibration performance and high reliability, providing comprehensive functions
- 16-channel PoE IPC

Technical Specification

Model		
		FTMD-X7NPro-16CH
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	4-channel AHD + 16-channel IPC
	Output	1-channel CVBS + 1-channel VGA (1080p downward compatible with 720p)
	Total Resource	AHD: 4 × 1080p @ 25 FPS (PAL) or 4 × 1080p @ 30 FPS (NTSC) IPC: 16 × 1080p @ 30 FPS
Audio		
	Input	4-channel AHD + 16-channel IPC
	Output	2-channels
Display		
	Display Split	1/4/9-screen display
	Screen Display	Positioning information, alarms, license plate numbers, driving speed, time, etc.
	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	
Playback		
Playback Channel	Local 1/4/9-channel local playback (Single-channel main stream, multi-channel WEB 1/4/9-channel synchronous 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 LAN 10/100/1000 Mbit/s (RJ45 without indicator)	

	Wired	WAN 10/100/1000 Mbit/s (RJ45 without indicator)
Positioning		
	GPS	Positioning, speed detection, and time synchronization
Sensor		
	G-Sensor	Built-in 6-axis inertial sensor
Storage		
	HDD/SSD	1 × 3.5" SATA HDD or 2 × 2.5" SATA HDD/SSD, 20–26.1 mm thick, supporting hard disk heating
	SD	Hot-swapping 32/64/128/256 GB SDXC
Port		
	USB	1 × USB3.0 (Type-A) + 1 × USB2.0 (Type-B)
	eSATA	1 × eSATA
	SD	1 × SD card slot
	SIM	1 × push-push SIM card slot
	Serial Port	2 × RS232, 2 × RS485
	CAN	2 × CAN
	IO	8-channel input and 2-channel output
	Pulse Detection	Speed 1 channel
Power Supply		
	Input	DC 8~36V
	Output	5 V @ 500 mA & 12 V @ 500 mA
	Maximum Typical Power Consumption	150W
	Standby Power Consumption	≈ 0 W
Physical Characteristics		

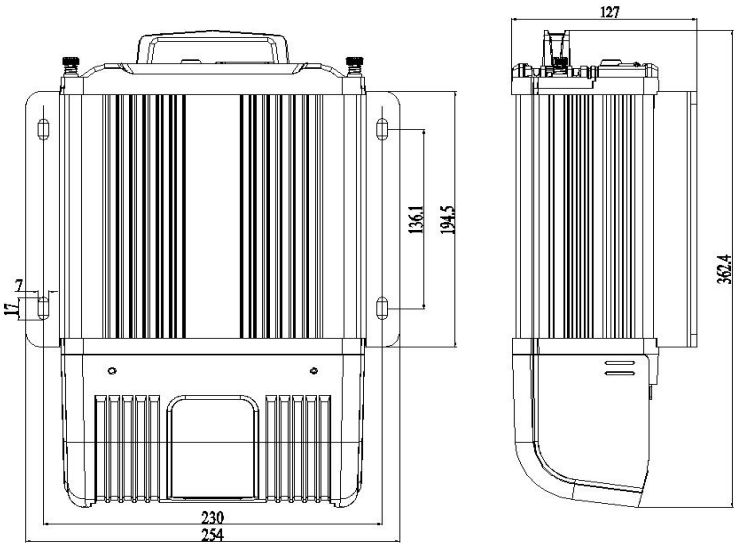
Dimensions (L × W ×H)	362.4 mm× 254 mm × 127 mm (With the bracket and rear shield)
Weight (kg)	5.8 kg (without hard disks)

Environment

Operating Temperature	–40°C to +70°C (Heated, without hard disks)
Operating Humidity	8% to 90% (non-condensing)

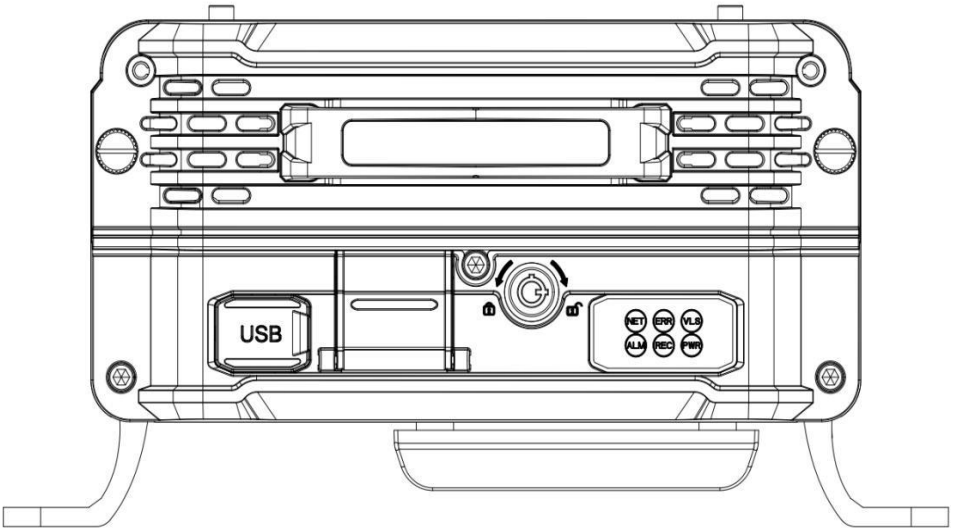
Dimensions

(Unit: mm)

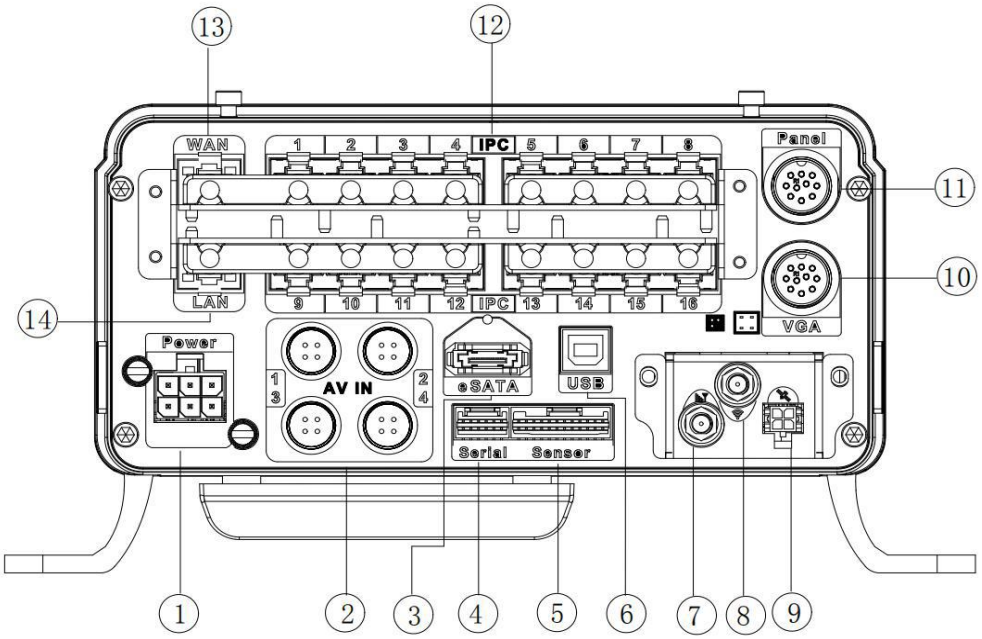


Panel Ports

Front panel



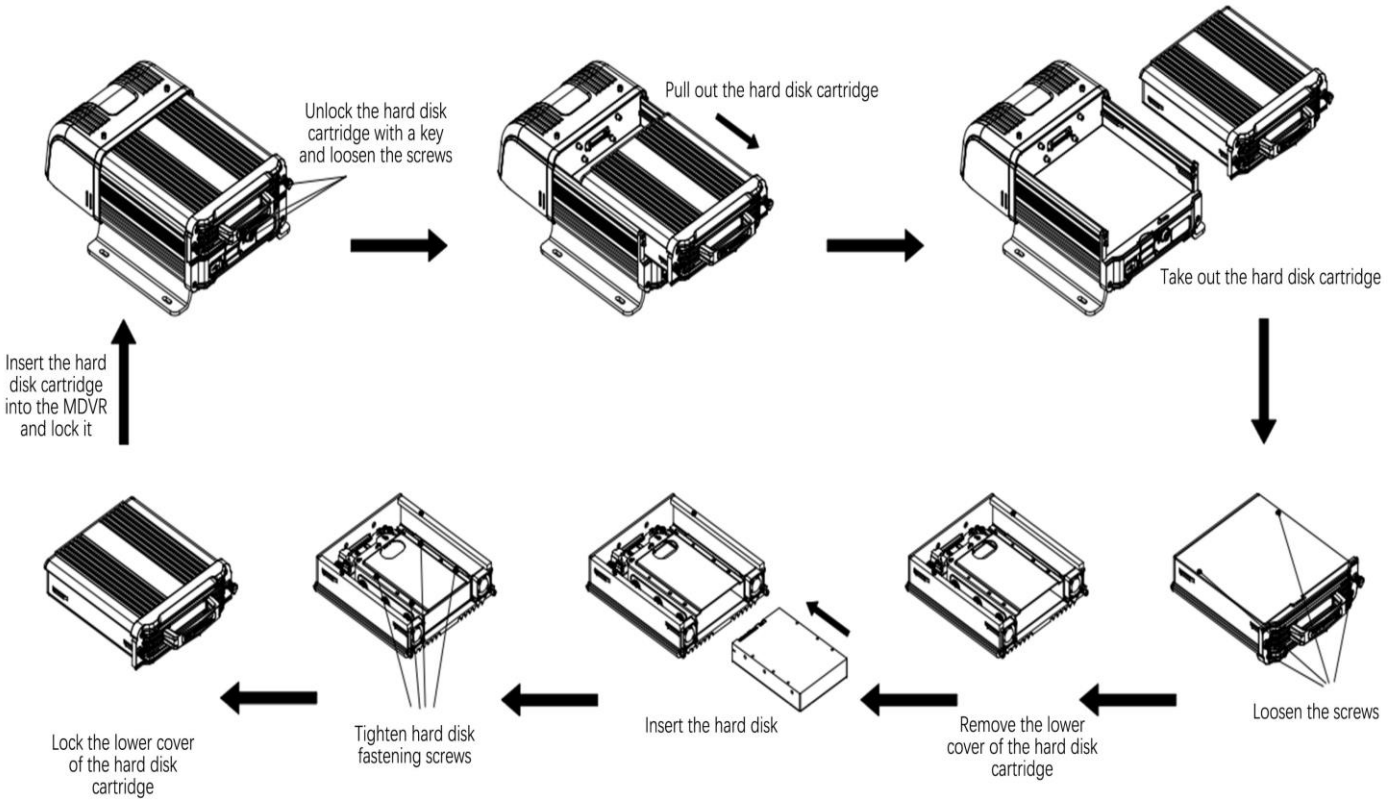
Rear panel



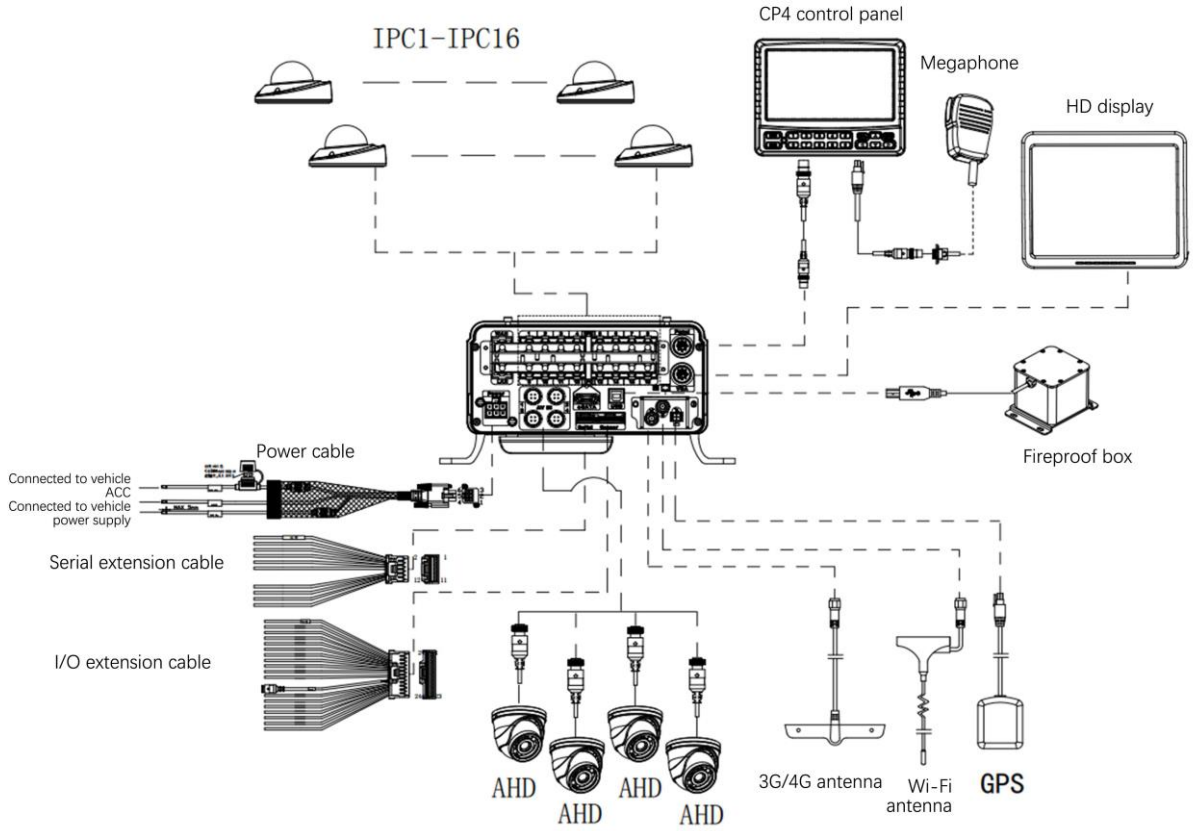
Installation

S\N	Silk Screen	Description
1	Power	8–36 V DC power input
2	AV IN 1~4	AHD ports 1 to 4
3	eSATA	eSATA port
4	Serial	Serial port
5	Sensor	IO/Pulse port
6	USB	USB 2.0 port (Type B)
7		3G/4G antenna connector
8		Wi-Fi antenna connector
9		GPS/BDS antenna connector
10	VGA	VGA port
11	Panel	CP4 port
12	IPC 1~16	IPC ports 1 to 16
13	WAN	10/100/1000 Mbit/s RJ45 network port
14	LAN	10/100/1000 Mbit/s RJ45 network port

Hard Disk Installation Guide



Typical Wiring Diagram



External Cable Connector Pinouts