

MOBILE DVR

The Mobile DVR incorporates satellite positioning monitoring, SSD hard drive, SD card video storage, TTS voice broadcast, CAN bus interface, etc. It also allows you to remotely monitor live video and make voice calls. This device is an intelligent terminal with consolidated functions and a compact design for easy installation.



DEVICE FEATURES



Compliance Standard

GB/T 28046.3–2011 Environmental conditions and testing of electrical and electronic equipment for road vehicles.



Multi-Channel Video Encoding

4-channel AHD 1080P+1 IPC, which can support H.264/H.265 encoding of 4-channel 1080P/720P/D1 and 1-channel IPC.



High-Resolution IP Camera

1ch IP Camera video input, supporting H.264/H.265 encoding up to 1080p.



Space-Efficient Design

Features a compact and efficient design for easy installation.



Flexible Storage Options

Supports SSD hard disk and 1 SD card for video storage. SD can support a maximum of 256G single image. (the minimum single image capacity supports 32G)



Audio/Video Storage Functionality

Supports audio/video storage function.

TECHNICAL SPECIFICATIONS

Physical

Product Size	162*158*51.5mm(L*W*D)
Operating Temperature	-30°C~+70°C,refers to the ambient temperature under well-ventilated conditions
Humidity	5~95% without condensation

Power Supply

Power Input	DC：+12.5V ~ +36V, Typical 12V/24V
Power Consumption	<17W (maximum load), <7W (without peripherals), sleep power consumption ≤1W
Power Output-1	+5V, maximum current 500mA (output with over current protection)
Power Output-2	+12V (4 channels), camera power supply, maximum current of each channel is 300mA
Power Output-3	+12V (1 channel), IPC power supply, maximum current of each channel is 500mA

Wireless Module

Network Type	Support FDD/TDD
Antenna Interface	White FAKRA-D straight male connector, impedance 50 ohms
SIMCard Holder	Standard SIM card

Beidou Module Positioning

First Cold Start Time	≤35s
First Hot Start Time	≤2s
Recapture Time	≤2s
Positioning Accuracy	Level≤5.0 m
Speed Measurement Accuracy	Speed ≤1.0 m/s
Sensitivity	Capture -144dBm, Track -159dBm
GNSS Frequency	BD1 B1/GPS L1

Navigation Data Format	NMEA 0813
Antenna Interface	White FAKRA–D straight male connector, impedance 50 ohms
Communication Interface	
RS232	2 Channels
RS485	1 Channel
Input Level	10 channels are high (range 6~30V), 1 channel is low (range 0~1V);
CAN	2 Channels
USB Interface	USB 2.0A Communication Interface;
Storage Module	
SSD Hard Drive	Removable hard drive
SD Storage	1 standard SD 2.0 card interface, SD can support up to 256G (the minimum capacity of a single card supports 32G), select Class10;
Video	
Video Input	4 video inputs, impedance 75Ω, 4–core aviation header; 1 channel IPC input, 6–core aviation header
Video Signal Standards	Level: 1Vpp Impedance: 75Ω NTSC/PAL format optional
Audio Signal Standard	Level : 1.4Vpp
Video Output	1 channel composite video output, impedance 75Ω, 1.0Vp–p
Audio	
Audio Input	Support 5 audio inputs
Audio Compression Format	ADPCM

DEVICE FUNCTIONS

Video Surveillance

Video Function	– Standard configuration: 4 channels FHD 1080P/30 frame (can be assigned to 1 channel ADAS, 1 channel DMS, 1 channel BSD) + 1 channel IPC. – 1 IP Camera video input, supporting 1080p H.264/H.265 encoding. – The maximum performance supports 4 channels of 1080P (15 frames) + 1 channel of IP Camera.
Audio Function	6 audio inputs (5 cameras with audio and video input, 1 wireless communication module with voice input), 1 output (audio compression standard: ADPCMA, G.711).
Data Storage	In the case of a hard disk, the hard disk is used as the main storage medium for audio and video data recording. In the case of only single SD and no hard disk, the SD card is used as the main storage medium for audio and video data recording.
Hard Disk Storage	– Supports up to 1*256G SD card storage; supports up to 1*4T 2.5–inch solid state drive storage (1T standard). – In the case of a hard disk, the hard disk is used as the main storage medium for audio and video data recording. – In the case of only single SD and no hard disk, the SD card is used as the main storage medium for audio and video data recording. – For data security, the storage medium must support a secure file system, which can read and write different files in the storage medium at the same time (the file being written does not support reading), and support simultaneous writing of multiple files; – After the device is powered off, it must be able to save the last second of audio and video data to the storage medium. – The status of storage media can be queried remotely.
Picture Capture	Supports up to 5 channels of picture capture at the same time, and the resolution supports 1080P/720P/D1.

Audio and Video Transmission

- Supports multi-center video surveillance. When the monitoring platform issues a real-time video request, the terminal immediately sends the specified real-time video stream of one or more channels to the monitoring platform. The code stream encoding method is H265/H264, and the code stream can request the main code stream or sub-stream, the monitoring platform can receive correct video data.
- When the monitoring platform issues a real-time audio request, the terminal immediately transmits the specified audio channel or multiple channels back to the monitoring platform, and the monitoring platform can receive correct audio data, and the code stream encoding method is ADPCM and G.711.
- Supports IP voice.

Scheduling Monitoring

Location Monitoring	Supports Beidou/GPS dual-mode positioning, supports electronic fences, mileage statistics, blind spot supplementary reporting, trajectory storage and other functions.
Voice and Calls	When the monitoring platform issues a two-way IP voice intercom request, the terminal uploads a real-time audio stream. The monitoring platform can receive correct audio data, and the terminal can correctly receive the audio stream issued by the playback platform. The code stream encoding method is ADPCMA, G. 711 (only for our third-generation platform).
Alarm Function	It can support emergency alarm, parking timeout alarm, overspeed alarm, overspeed warning, fatigue driving alarm, off-line alarm, power-off alarm, GPS antenna short circuit, open circuit alarm and other alarm functions.
Scheduling Function	Sends SMS messages and makes voice calls through TTS.

Driving Recorder

Vehicle Driving Information	Accurately detect and record vehicle speed, brakes, turn signal status and mileage, and can collect locally or remotely.
CAN BUS	Collect vehicle driving data through CAN bus.

Equipment Maintenance

Update Device Files	Perform program upgrades and configuration file updates and modifications to the device through USB flash drives and remotely.
Device Sleeps	The device can be set to enter power saving mode after the ACC is disconnected for a period of time.
Self-Test	1. Positioning antenna open/short circuit detection. 2. Detection of working status of cameras and storage media. 3. The equipment indicator light indicates the working status. 4. Automatically perform video self-test, and the self-test results can be displayed on the platform and client.

