

12 ch AI MDVR

SK-ONE-M1

High-end 12ch hybrid HDD/SSD AI MDVR



Key Features

- Up to 12ch 1080p video input
- 4G/Wi-Fi/GPS wireless communication
- H.264/H.265 video format
- 6-axis G-sensor, support HA/HB/HC detection
- Support AI function: FR/DMS/ADAS/BSD/PCS, etc.
- Compatible with Howen VSS and various FMS platforms

Specifications

Model	SK-ONE-M1
System	
OS	Linux
Audio / Video	
AHD video input	8ch 1080p
IPC input channels	Supports up to 4ch IP cameras (extended by external switch)
AHD video resolution	1080p, 720p AHD, CVBS
Video frame	8x1080p@15fps (AHD) + 4x1080P@30fps (IPC)
PAL/NTSC adaptive	Adaptive according to the connected camera
Image flip and mirror	Supported
AHD video input interface	8 pcs: 4 pin aviation male connector
IPC input interface	4 pcs: 6pin aviation male connector (Extended 4 ch via Switch)
Video compression format	H.264 / H.265
Audio input channels	8ch+4ch
Audio compression format	G711A, G711U, G726
Audio input interface	4 pin AHD video input interface
Video output	1 ch CVBS; 1 ch VGA (optional)
Audio output	2 ch
OSD overlay function	Support: Date & time, vehicle ID, speed, etc.
Two-way intercom	1ch
Storage	
Recording mode	Boot recording, alarm recording, scheduled recording
Video quality	Level 1-8 (1 is the best)
Recording time before alarm	0-60s configurable (in alarm-recording mode) 0-1800s configurable (in boot-recording mode)

Recording time after alarm	0-3600s configurable
Playback	1 ch 1080p playback
Storage	Support 1 x 2.5-inch SATA HDD/SSD (7mm/9mm/15mm thickness), max. 4TB. Support disk heater
Storage	Support 1 SD card, max. 512GB
Fireproof box	Supported
Power-off video backup	Supported (supported for CH 1-6)
Network	
4G	Built-in 4G module. Support different frequency bands for different regions
WIFI	Built-in Wi-Fi module: 2.4GHz Wi-Fi (standard), 5.8GHz Wi-Fi (Optional)
Wi-Fi working mode	Station / AP
GPS	Built-in GPS/GLONASS/Beidou module
G-sensor	Built-in 6 axis G-sensor
Bluetooth	Not supported
Interface	
Digital input	8 pcs
Digital output	2 pcs
Analog Input	1 pcs
1-wire	2 pcs (input 7-8 switchable)
Pulse input (speed)	1 pcs
RS232 (for accessories)	3 pcs (2 for external devices, 1 for LED speaker)
RS232 (for debug)	1 pcs
RS485	1 pcs
CAN	1 pcs (Optional: Choose between this and RS232 Debug function)
USB	Front panel: 1 pcs USB 2.0 (type A) Back panel: 1 pcs USB 2.0 (5pin)
LAN Network	1 pcs 10M/100M (6pin aviation male connector)
SIM card slot	1 pcs. Standard SIM
LED light	Front panel: PWR, WIFI, NET, ALM, SD, HDD, 4G, GPS. Support external LED panel box.
Fireproof box interface	1 pcs (5pin aviation male, USB)
LED speaker interface	1 pcs (5pin aviation male, RS232)
AI speaker interface	1 pcs (3pin aviation male, audio out)
AI	
Video alarm	Video blocking; motion detection
G-sensor alarm	Harsh acceleration, Harsh braking, Harsh cornering, Impact (Crash), Rollover
Privacy protection mode	Alarm in driver privacy protection mode
Speed alarm	High speed warning, high speed alarm, low speed warning, low speed alarm, excessive overspeed alarm
Geofence alarm	Geofence (stored in MDVR): supports 1000
DMS	Face recognition: supported, number of faces: 500. Closed eyes, yawning, distracted, smoking, talking on the phone, lens blocking, infrared blocking sunglasses, driver abnormality, driver leaving the seat, not wearing seat belt, driver change, driver return.
ADAS	Supported, FCW / HMW / PCW / LDW
BSD (Blind Spot Detection)	Support max. 3ch of Blind Spot Detection cameras
PCS (Passenger Counting System)	Support max. 3ch of Passenger Counting cameras
Communication	
Protocol	Supports 2 channel: H-protocol

Encryption	AES256
Environment	
Input voltage and power	8-36V DC
Power consumption	Full load 12V 2.5A; No load 12V 0.5A
Power interface	6pin aviation male
Fuse	Battery+, Ignition: 10A
Power output	Output voltage and power 1*12V@0.5A, 1*5V@0.5A
UPS	Supported (external)
Working temperature	-20°C to +70°C (without hard disk heater) -40°C to +70°C (with hard disk heater)
Operating humidity	8% to 95% (non-condensing)
Storage temperature	-20°C to +80°C
Back panel protection cover	Supported (Optional)
Dimensions	Approx. 190.4 x 187 x 65.5 mm (without back cover)

● Dimensions

Unit: mm

