ICAR® VISIONS

CE FC

Key Features

- Up to 4 channels A/V recording, 4 x 1080P AHD + 1 x 1080P IPC
- Accept 2 SD cards storage, up to 512GB each
- Support AI function ADAS / DSM / BSD optional
- Built-in an integrated 3-axis G-SENSOR + 3-axis gyroscope (a total of 6 axes), to detect and trigger the alarm of rapid acceleration, harsh braking, crash and sharp cornering.
- Operating temperature -25°C ~ +75°C
- On board UPS 8 seconds delay power-off for data protection
- 8V~36V wide voltage power supply

AI function

ADAS: Advanced Driver-Assistance Systems)

DSM: Driver Status Monitoring

FR: Face Recognition

BSD: Blind Spot Dectection

HOD: Hand-off Dectection

Note: User need Wi-Fi module to calibrate AI

Applications

- Forklift
- Small Boats & Marine Vehicles
- City Buses & Shuttle Buses
- Delivery Vans
- Heavy-Duty Trucks
- Tanker Trucks
- Construction Dump Trucks
- Law Enforcement Vehicles
- Ambulances
- School Buses
- Taxis & Ride-Hailing Cars
- Hazardous Goods Vehicles
- Utility & Maintenance Vehicles

System

Language	English / Chinese
Operation Interface	Graphical User Interface（OSD menu）
Password Security	2 Levels: Administrator & User

Built-in modules

GNSS	GPS | Glonass | BeiDou for optional
3G/4G/5G	WCDMA/EVDO/TD-SCDMA | FDD-LTE/TDD-LTE | 5G NR
WiFi(2.4Ghz+5.8Ghz)	Internal Wi-Fi 802.11 b/g/n/ac optional
G-Sensor	Integrated 3 axis accelerometer (G-Sensor) and 3 axis gyroscope

Video

Video Input	Support 4 channels 1080P AHD / 960P AHD / 720P AHD / 960H /D1 /CIF + 1 channel IPC (720P /1080P) Video input Expandable 4-CH 1080 IPC (Need switch): Option1: Support 4 channels 1080P AHD / 960P AHD / 720P AHD / 960H /D1 /CIF + 4 channels IPC (720P /1080P) Video input
Video Output	1 Channels CVBS (D1) (Rear Panel on RJ45&AV-OUT Port)
Video Display	Single picture, 1~5 pictures
Signal System	PAL / NTSC (PAL@100 frame 1080P/sec; NTSC@120 frame 1080P/sec)
Image Compression	H.265 /H.264 Main profile

Audio

Audio Input	4 Channels
Audio Output	1 Channel
Record Format	Synchronized A/V recording

Recording & Storage

Image Resolution	CIF / HD1 / D1 / 960H / 720P /1080P optional
Video Bit Rate	CIF: 1536Kbps ~ 128Kbps, HD1/D1: 2048Kbps ~ 400Kbps, 960H: 2048Kbps ~ 400Kbps, 720P:4096Kbps ~ 400Kbps 1080P:4096Kbps ~ 400Kbps Select from 8 Levels of Video Image Quality ranging from 1 (Highest) to 8 (Lowest)
Audio Bit Rate	40Kbps
Storage	Support 2.5" SSD（up to 8TB） + 1 SD card （at 3G/4G/WIFI model option）

Alarm

Alarm Input	4 Channels, Select Trigger for either less than 1VDC or greater than 5VDC
Alarm Output	2 Channel, 12V output

Communication Ports

RS485	1 Port for PTZ control or Data Device usage
RS232	1 Port for communication or Data usage
RJ45 Network	1 Port of RJ45(100M Ethernet port), For connection to an IP camera with maximum of 1080P
USB	1 Ports for USB 2.0, to download video files, upgrade firmware and plug in a mouse for setup.
Speed	1 Channel （Optional, shared with the port IO /IN 8)

Basic Information

Firmware Upgrade		Upgrade through the front USB2.0 or remotely via IVMS platform
Voltage	Input	+8~+36V
	Output	12V（+/-0.2V），Max 3A
Operational Temperature		-25℃～80℃
Dimensions		146x155x38mm
ACC Detection		≤4V Power-off | ≥6V Power-on
I / O Port		<1V Low voltage trigger | >5V High voltage trigger

ADAS（Advanced Driver-Assistance Systems）

Safe Distance Warning
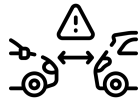
Froward Collision

Lane Departure Warning

Pedestrian Collision

ADAS camera

Model: JA-MC920

DSM (Driver Status Monitoring) + FR(Face Recognition)

Eyes Closing Warning

Fatigue Driving Warning

Smoking Warning

Phone Call Warning

Camera Block Warning

Distraction Warning
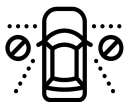
Yawning Warning

Face Recognition

DSM camera

Model: JA-MC921

Model: JA-MC938

BSD（Blind Spot Dectection）

Blind Spot Dectection

BSD camera

Model: JA-MC804

Model: JA-MC923

HOD (Hands Off Detection)

Play Phone Warning

Hand-off Wheel warning

No Seatbelt Warning

HOD camera

Model: JA-MC510

Order Model	JH0AN-GNN	JH0AN-GNW	JH0AN-GFN	JH0AN-GFW
Config.	GPS	GPS WiFi	GPS 4G	GPS 4G WiFi

Accessories

SD card
64G | 128G | 256G |
Max. 512G

Hard Drive
1TB | 2TB |

SSD
1TB | 2TB | 4TB |
Max. 8TB

4PIN Extension Cable
For general 4PIN AHD Cam
3M | 5M | 10M | 15M

8PIN Extension Cable
For ICAR Android Touch
Screen Monitor(AHD)
2M

10PIN Extension Cable
For 10PIN DSM Cam
1.5M | 3M

External Sensors for JH0AN

Passenger Counter - IPC
Max. 3Channels
For passenger flow statistics

IPC Switch
1 to 3 IPC Switch
For expanding IPC

3 to 1 Antenna
Save time to install
GPS/4G/WiFi Antenna

**Fireproof&Waterproof
Data Box**
**Fireproof (1100℃-15min)
and Waterproof (100M)**

Audible Flashing Alert
Buzzer to remind pedestrians,
works with BSD

UPS
Uninterrupted Power Supply
(8~36V DC)

RFID
Drive ID Card Reader

Card Writer
write the driver info. in
plain IC card

Plain IC Card
Save Driver ID info.

Temperature Sensor
Detect the temperature of
the car compartment or
cargo box

Ultrasonic Fuel Sensor
Detect the oil volume

Intercom
Press-to-talk, two-way
communication

Panic Button
To trigger the alarm in
emergency

OBD
To collect direct datas
from the vehicle