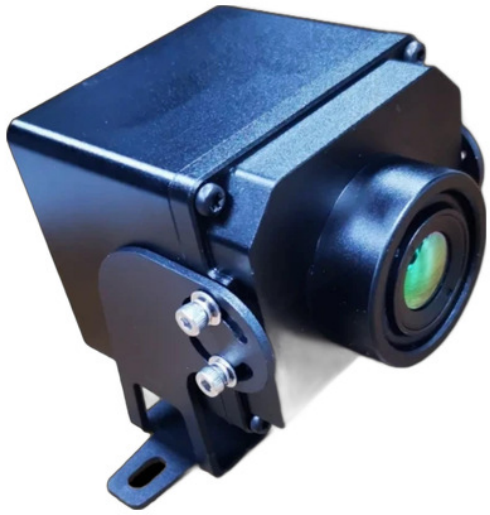


JPC-640-AI-IPC

Vehicle / Marine Network Thermal Camera

640 x 512 thermal core | CVBS + RTSP / ONVIF | person / vehicle / animal AI

On-board 3T AI engine **At 9.1 mm**

Shenzhen Jifuan Intelligent Technology Co., Ltd.
Building 9, West District, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, China
OEM & ODM welcome - custom logo, packaging, connectors, cable length and firmware available on request.

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OVERVIEW

Key Features & Specifications

KEY FEATURES

- 640 x 512 vanadium-oxide uncooled thermal core (12 um pixel, NETD <=40 mK at 25 C, F/1.0); 384 x 288 and 256 x 192 also available
- CVBS and network output at the same time: the CVBS feed is a clean thermal picture for existing monitors and recorders, while RTSP / ONVIF carries the AI overlay
- **On-board 3T AI engine:** person, vehicle and animal detection plus ranging, with custom alarm zones and multi-zone linkage
- **At 9.1 mm:** AI detection to person 80 m / vehicle 200 m / animal 50 m; night observation to person 214 m / vehicle 315 m
- Lens options cover 45 x 37 deg (9.1 mm) through 110 x 88 deg (4 mm), so the same model can be matched to long-range or wide-angle work
- Seven pseudo-colour palettes, adjustable brightness and contrast; white-hot by default

TECHNICAL SPECIFICATION

Detector	640 x 512 VOx uncooled infrared FPA (384 x 288 / 256 x 192 optional)
Pixel Pitch	12 um
Spectral Range	8 - 14 um
NETD	<= 40 mK at 25 C, F/1.0
Lens	9.1 mm standard; 4 / 4.6 / 13 mm optional
Field of View	45 x 37 deg (9.1 mm) / 110 x 88 deg (4 mm) / 95 x 76 deg (4.6 mm) / 34 x 27 deg (13 mm)
Video Output	CVBS + RTSP / ONVIF network stream, simultaneous
AI Engine	3T high-compute; person / vehicle / animal detection and ranging
Detection Distance	AI at 9.1 mm: person 80 m / vehicle 200 m / animal 50 m
Night Viewing	At 9.1 mm: person 214 m / vehicle 315 m
Alarm Output	Built-in speaker, 3.3 V high-level output, browser alarm
Image Modes	White-hot default + 7 pseudo-colour palettes
Recording	Local recording with browser playback
WiFi	Optional module, web-based parameter setup
Power Supply	DC 12 V, under 6 W
Protection	IP67
Operating Temperature	-30 C to +70 C
Dimensions	235 x 75 x 70 mm

SELLING POINTS & NOTES

Selling Points, Ordering & Usage Notes

PRODUCT SELLING POINTS

- Built-in alarm speaker, 3.3 V high-level alarm output and browser alarms
- Local recording, weekly patrol schedules, simulated alarm testing, configuration import and export
- IP67 sealed body, 235 x 75 x 70 mm, about 300 g, DC 12 V, under 6 W
- Optional WiFi module for web-based parameter setup

ORDERING NOTES

- Confirm the thermal resolution: 640 x 512 standard, or 384 x 288 / 256 x 192.
- Confirm the lens and field of view: 9.1 mm, 4 mm, 4.6 mm or 13 mm.
- **Confirm the output:** CVBS + network as standard, or CVBS only for an existing monitor.
- Confirm the alarm interface: local speaker, 3.3 V high-level output or browser alarm.
- Confirm whether the optional WiFi module is required.
- Confirm cable length, connector and mounting position (vehicle roof, mast, robot or boat).

USAGE & PRECAUTIONS

- Thermal radiation does not pass through glass. Mount the camera with a clear external line of sight.
- Keep the germanium window clean and avoid pointing the camera directly at the sun.
- Observe DC 12 V polarity and use the supplied waterproof connector.
- AI boxes are drawn on the network stream; the CVBS output remains clean by design.
- Default IP is 192.168.1.227 and the default account is admin / admin. Change it during commissioning.
- Do not open the sealed housing; doing so can void the IP67 protection and warranty.

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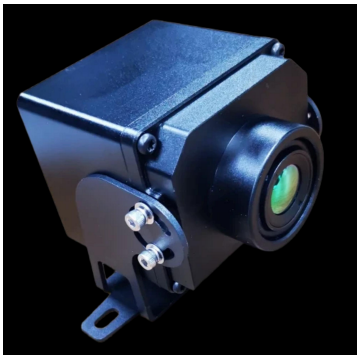
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IN DETAIL

Product Views & Applications









TYPICAL APPLICATIONS

Night driving | Marine & port patrol | Perimeter security | Fire / smoke visibility | Mobile machinery | Low-light surveillance

CUSTOMISATION AVAILABLE

- **Resolution:** 640 x 512 standard; 384 x 288 / 256 x 192 optional.
- **Lens:** 4 / 4.6 / 9.1 / 13 mm to match the required field of view.
- **Output:** CVBS + RTSP / ONVIF, or CVBS only for an existing monitor.
- **Alarm:** local speaker, 3.3 V high-level output or browser alarm.
- Optional WiFi, connector, cable length and neutral / branded packing.

OPTIONS & ABOUT US

Options, Packing & Why Jifuan

PACKING & DELIVERY

- Order quantity and packing (neutral or branded) are confirmed with each quotation.
- Lead time is confirmed after the final resolution, lens and connector are fixed.
- Individual carton with buyer label and export packing are available.
- Samples are available for evaluation before volume orders.
- **Warranty:** 12 months from shipment against manufacturing defects.
- Optional modules and mounting accessories are quoted by configuration.

QUALITY CONTROL

- 100% ageing test before packing.
- Thermal core, visible image, network and recording function checks.
- Protection checks on the sealed IP67 or IP66 housing.
- High and low temperature operating verification.
- Vibration and shock checks for vehicle and marine installations.
- 12-month warranty with technical support and spare-parts supply.

WHY BUY FROM JIFUAN

- **Supply chain integration:** cameras, monitors, MDVR and 360 systems matched from a vetted supplier network - one contact, one shipment.
- **Product experience:** 15+ years on vehicle video, so the platform that fits your vehicle and budget is the one we recommend.
- **Project experience:** fleet, bus, trailer and off-highway builds supplied with the brackets, cables and connectors the vehicle actually needs.
- **Customisation:** housing colour, logo, bracket, connector, cable length, lens angle and firmware changed to suit your market, with a fast answer on feasibility.

Contact us for a quotation

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