

JPC-640-AI-PTZ

Dual-Spectrum Network Thermal PTZ Camera

640 x 512 thermal + 1080P 10x visible | 360 deg pan | dual-spectrum AI

Dual spectrum in one housing **Dual-spectrum AI** **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

- Dual spectrum in one housing: 640 x 512 thermal plus a 1080P visible channel with 10x optical zoom
- 360 deg continuous pan, -30 to 90 deg tilt, 100 deg/s pan and 60 deg/s tilt, up to 256 presets and multiple cruise tracks
- **Dual-spectrum AI:** person, vehicle and animal detection on both channels, with custom alarm zones and zone linkage
- Thermal ranging up to 40 m with 90% accuracy, self-calibrated against the mounting height
- 9.1 mm thermal lens as standard; 13 mm and 19 mm optional (34 x 27 deg / 23 x 18 deg)
- **At 9.1 mm:** person 80 m / vehicle 200 m / animal 50 m AI detection distance

TECHNICAL SPECIFICATION

Thermal Detector	640 x 512 VOx uncooled FPA, 12 um
Spectral Range	8 - 14 um
Thermal Lens	9.1 mm standard; 13 mm / 19 mm optional
Thermal FOV	45 x 37 deg (9.1 mm) / 34 x 27 deg (13 mm) / 23 x 18 deg (19 mm)
Visible Camera	1/2.8" CMOS 1080P, 10x optical zoom, 4.9 - 47 mm
Visible FOV	67.6 x 54.8 deg wide to 7.15 x 5.8 deg tele
Min Illumination	0.05 lux colour / 0.005 lux B/W
Pan / Tilt	360 deg continuous pan / -30 to 90 deg tilt
Pan / Tilt Speed	100 deg/s pan, 60 deg/s tilt
Presets	Up to 256 presets and multiple cruise tracks
AI Engine	3T high-compute; person / vehicle / animal on both channels
Ranging	Up to 40 m, 90% accuracy, self-calibrated by mounting height
Detection Distance	Person 80 m / vehicle 200 m / animal 50 m (9.1 mm)
Compression / Recor...	H.264 / H.265, 512 kbps - 4 Mbps, dual stream, MP4 recording
Network	ONVIF / RTSP / DHCP, web UI and dedicated Android app
Power Supply	12 V (9 - 36 V wide input)
Protection / Temperat...	IP66; -20 C to +60 C
Dimensions / Weight	118 mm diameter x 221.1 mm; under 2.5 kg

SELLING POINTS & NOTES

Selling Points, Ordering & Usage Notes

PRODUCT SELLING POINTS

- H.264 / H.265 dual stream, 512 kbps to 4 Mbps, MP4 recording
- ONVIF / RTSP / DHCP, browser setup and a dedicated Android app over WiFi
- IP66, aluminium mounting flange, 118 x 221.1 mm, under 2.5 kg, 9-36 V wide input
- Black or white housing; safety case, tripod adapter and aluminium tripod available

ORDERING NOTES

- Confirm the thermal lens: 9.1 mm standard, or 13 mm / 19 mm for a narrower field of view.
- Confirm the housing colour: black or white.
- Confirm the supply connector and cable length for the 9-36 V input.
- **Confirm mounting:** aluminium flange as standard, or tripod adapter / aluminium tripod.
- Confirm how video is consumed: browser, ONVIF recorder or the dedicated Android app.
- Confirm alarm outputs and whether the safety case is required.

USAGE & PRECAUTIONS

- Thermal radiation does not pass through glass. The PTZ must have a clear line of sight.
- Keep the thermal and visible windows clean and avoid pointing the unit directly at the sun.
- Check the 9-36 V supply and polarity before power-on.
- Commission pan / tilt limits, presets and cruise tracks before handover.
- 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 IP66 protection and warranty.

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IN DETAIL

Product Views & Applications





TYPICAL APPLICATIONS

Port & coastal surveillance | Perimeter patrol | Vehicle / fleet security | Fire scene observation | Industrial sites | Long-range night monitoring

CUSTOMISATION AVAILABLE

- **Thermal lens:** 9.1 mm standard; 13 mm / 19 mm optional.
- **Housing colour:** black or white.
- **Mounting:** aluminium flange, tripod adapter or aluminium tripod.
- **Power / connection:** 9-36 V input with the required cable and connector.
- **Accessories:** safety case and display / recording integration on request.

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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