



JPC-23

License-Plate Bar Camera with IR

AHD night-vision camera with built-in IR for truck, bus and commercial vehicles

2053 + 8536H platform

1080P / 720P optional

7 pcs 850 nm IR

110° lens

4-pin aviation

Magnet holder

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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Key Features & Specifications

KEY FEATURES

- AHD CMOS platform with 2053 + 8536H chipset, 1/2.9" sensor, 1080P / 720P optional
- Coaxial high-definition AHD output - clear and delicate image
- 2.8 mm lens with a wide 110° viewing angle
- 7 pcs 850 nm IR LEDs - 0 Lux night vision, IR distance 10 m
- Adaptive digital noise reduction (2D-DNR) for a cleaner picture
- UTC function supported - camera menu control over the video cable
- All-aluminium-alloy waterproof housing with anti-demolition design
- Magnet holder - fast, tool-free mounting on the license-plate area
- Sealed IP68 housing with 4.5G anti-vibration design
- **Low power:** DC 12V (8-15V), consumption below 2.5 W
- 4-pin aviation connector as standard; RCA optional

TECHNICAL SPECIFICATION

Model	JPC-23 - license-plate bar camera with IR
Image Sensor	1/2.9" AHD CMOS
DSP Chipset	FH8536H + GC2053 (2053 + 8536H)
Resolution	1920(H) x 1080(V); 1080P / 720P optional
Frame Rate	25 fps (PAL) / 30 fps (NTSC)
Viewing Angle	110° (2.8 mm lens)
Minimum Illumination	0.001 Lux @ F1.2, AGC ON / 0 Lux with IR
IR Illumination	7 pcs 850 nm LEDs, IR distance 10 m (no IR-Cut filter)
Shutter Speed	1/50s - 1/100000s
Video Output	AHD, 1.0Vp-p, 75 ohm
Connector	4-pin aviation (RCA optional)
Pinout	1: red 12V+ / 2: black 12V- / 3: n/a / 4: yellow video signal
Power Supply	DC 12V (8-15V), consumption below 2.5 W
Waterproof Rating	IP68
Vibration Resistance	4.5G (10-55 Hz sweep)
Operating Temperature	-20°C to +70°C, humidity 0-90%
Storage Temperature	-30°C to +80°C
Housing / Mounting	Aluminium-alloy plate bar with magnet holder

ORDERING REFERENCE / AVAILABLE VARIANTS

AHD, 720P, PAL, mirror image without parking line, 4-pin aviation connector, DC 12V, 110° | AHD, 1080P, PAL, mirror image without parking line, 4-pin aviation connector, DC 12V, 110°

SELLING POINTS & NOTES

Selling Points, Ordering & Usage Notes

PRODUCT SELLING POINTS

- Metal license-plate bar housing with built-in IR (short American-frame look)
- 2053 + 8536H AHD CMOS (1/2.9"), 720P / 1080P optional
- 7 pcs 850 nm IR LEDs, 0.001 Lux @ F1.2 / 0 Lux with IR, IR distance 10 m
- 2.8 mm lens, 110° viewing angle, 1.0Vp-p 75 ohm video output
- IP68 waterproof housing, DC 12V, consumption below 2.5 W
- 4-pin aviation connector as standard (RCA optional)
- Working temperature -20°C to +70°C, storage -30°C to +80°C
- Magnet holder for fast installation without drilling

USAGE & PRECAUTIONS

- Check the supply voltage and polarity before connecting power; wrong wiring can damage the camera.
- Keep the waterproof connector tight and seal the joint; do not cut or extend the pigtail.
- Route the cable away from heat sources, sharp edges and moving parts, and secure it with clips.

ORDERING NOTES

- **Video system:** confirm AHD 720P / 1080P or CVBS, and PAL / NTSC before ordering.
- **Image mode:** confirm mirror or non-mirror image, and whether parking guide lines are required.
- **Connector:** confirm 4-pin aviation or RCA, plus cable length (standard 0.5 m pigtail; 1 m / 5 m / 10 m available) and pinout for your harness.
- Lens angle and mounting position: confirm side / rear / cabin view and the required angle.
- **Voltage:** standard DC 12V (8-15V working range). Confirm with us before use on a 24V system - a converter may be required.
- Plate bar length and fixing holes: confirm they match the vehicle model.
- Quantity, packing (colour box / neutral box) and printing or logo requirements.
- Default specification has no WDR function and no parking guide lines. Other viewing angles or NTSC must be confirmed in advance.

- Clean the lens and the IR window with a soft cloth only; avoid high-pressure washing directly at the lens or connector.
- Do not open the sealed housing - doing so voids the waterproof rating and the warranty.
- A dirty lens or IR window reduces night image quality, so check them during regular maintenance.

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Product Views & Applications



TYPICAL APPLICATIONS

Trucks & Trailers

Buses & Coaches

Vans & Light Commercial

Forklifts

Agricultural Machinery

Construction & Mining

Fleet & MDVR Systems

CUSTOMISATION AVAILABLE

- **Video system:** AHD 720P / 1080P or CVBS, PAL & NTSC - confirmed per order.
- **Connector:** 4-pin aviation / RCA / waterproof plug, with matching extension cable.
- **Cable length and pinout:** standard 0.5 m pigtail; 1 m / 5 m / 10 m or custom lengths.
- **Housing and lens:** plate bar length, fixing holes, lens angle and surface finish.
- **Branding:** laser-etched or printed customer logo, neutral or branded packaging.