



JPC-181

LED Work-Light Camera & AI Blind-Spot Alarm

Two versions: A 160 deg IR camera | B AI-BSD 3-in-1 | IP68 | 1080P AHD

160 deg coverage

3-in-1 AI-BSD

Green / amber / red

IP68

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OEM & ODM welcome - custom logo, packaging, connectors,
cable length and firmware available on request.

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Key Features & Specifications

KEY FEATURES

- One family, two versions: A is a 160-degree 1080P IR camera, B is an AI-BSD blind-spot alarm camera
- A version:** 1080P AHD 1920 x 1080 with a 160-degree horizontal view - one camera covers the whole side blind area
- A version:** four high-power IR LEDs, 0 Lux minimum illumination, night range up to 15 m
- A version:** lens and IR LEDs in separate housings, so the night picture has no glare, white-out or light spot
- B version:** 3-in-1 - AI blind-spot detection, three-colour warning light and voice alarm in one unit
- B version:** three-step warning by distance - green 3.0-5.0 m, amber 1.5-3.0 m, red 0-1.5 m; detection about 5 m
- B version:** detects people and vehicles, marks them with boxes and tracking, so the driver sees what the alarm means
- B version:** warns inside and outside the cab - the driver sees the box, pedestrians see the light and hear the sound
- B version:** true starlight full-colour night vision at 0.01 Lux, no IR flare
- Both versions:** aluminium housing, IP68 submersible-pump sealing, 200 g, -20 C to +70 C
- Both versions:** 4-core aviation self-locking plug and a U-bracket with four hex screws for angle adjustment
- Warning zones, alarm mode, image mirroring and PAL / NTSC are configurable (external adjuster optional)

TECHNICAL SPECIFICATION

Image Sensor	A: 1/2.9" CMOS 1080P B: starlight CMOS 720P
DSP Chipset	FH8536H + GC2053 (2053 + 8536H)
Resolution	A: 1920 x 1080 (2 MP) B: 1280 x 720 (1 MP)
Viewing Angle	A: about 160 deg B: about 110 deg (170 deg option)
Night Vision	A: 4 x high-power IR LED, 0 Lux, up to 15 m B: starlight full colour, 0.01 Lux
Blind-Spot Alarm	B only: AI detection of people and vehicles with green / amber / red light and voice
Detection Range	B: about 5 m (zones 3.0-5.0 / 1.5-3.0 / 0-1.5 m)
Waterproof	IP68 - submersible-pump sealing process
Power Supply	DC 12V (24V optional on B)
Consumption	About 2 W
Weight	About 200 g
Operating Temperature	-20 C to +70 C, humidity below 93%
Video Output	AHD 1.0 Vp-p, 75 ohm, PAL / NTSC
Functions	Auto white balance, auto backlight compensation, auto electronic shutter, auto AGC, GAMMA 0.45

TWO VERSIONS

Version A and Version B - Which One You Need

A OR B

- Version A - 1080P IR camera: 160 deg horizontal view, four high-power IR LEDs, 0 Lux, night range up to 15 m. The lens and the LEDs sit in separate housings so the night picture has no glare or white-out.
- Version B - AI-BSD alarm camera: the same housing with starlight full-colour night vision (0.01 Lux) plus a 3-in-1 alarm - AI detection, light and voice.
- Both versions share the aluminium housing, IP68 sealing, 200 g weight, 4-core aviation plug and the adjustable U-bracket.
- Version A covers what the driver cannot see; version B also tells the driver and the people outside that something is there.

VERSION A CAMERA



EVIDENCE



Front view



Mounting bracket

How the Three-Step Warning Works

ALARM LOGIC

- **Green zone 3.0-5.0 m:** green light plus slow beeps - something is there, keep an eye on it.
- **Amber zone 1.5-3.0 m:** amber light plus faster beeping - it is getting closer, slow down.
- **Red zone 0-1.5 m:** red light plus a continuous tone - danger zone, stop.
- Warnings go out inside and outside the cab at the same time: the driver sees the marker box on the monitor, people outside see the light and hear the voice.
- Warning zones, alarm mode, and whether people, vehicles or both are reported, are configurable; an external adjuster is optional.

WARNING LIGHT AND TEST

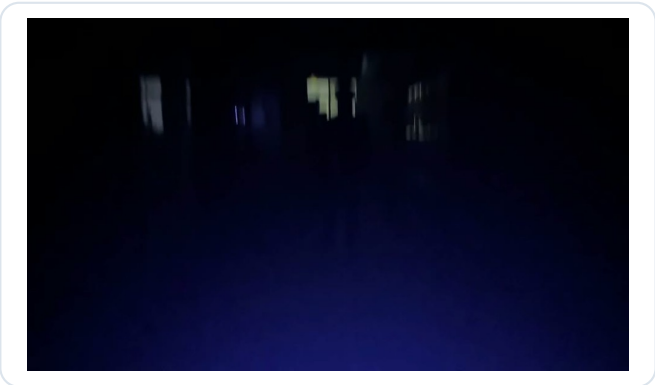


EVIDENCE

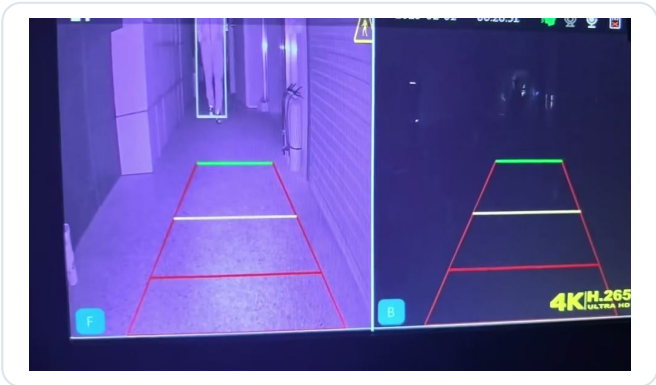


Alarm unit

IR Camera vs Non-IR Camera - Night Comparison



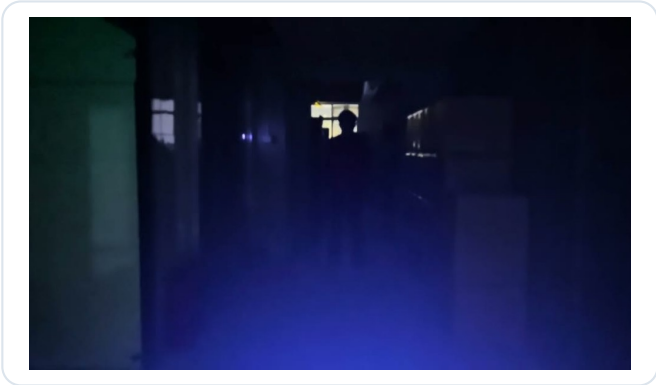
No light



Low light



Street light



With vehicle lights

SPECIFICATIONS

Full Technical Specification

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Waterproof	IP68 - submersible-pump sealing process
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Weight	About 200 g
Operating Temperature	-20 C to +70 C, humidity below 93%
Video Output	AHD 1.0 Vp-p, 75 ohm, PAL / NTSC
Functions	Auto white balance, auto backlight compensation, auto electronic shutter, auto AGC, GAMMA 0.45
Connector	4-core aviation plug with self-locking ring
Housing	Aluminium alloy, U-bracket with four hex screws
Dimensions	Base 102.2 mm, body 77.1 mm, height 62 mm, lens 14.2 mm

Options	170 deg lens, 24V, microphone, external zone adjuster
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ORDERING NOTES

- Choose the version: A (160 deg IR camera) or B (AI-BSD alarm camera).
- B version: confirm the detection zones and whether people, vehicles or both should trigger the alarm.
- Confirm the lens angle (110 deg standard on B, 170 deg optional) and the vehicle voltage (12V standard, 24V optional on B).

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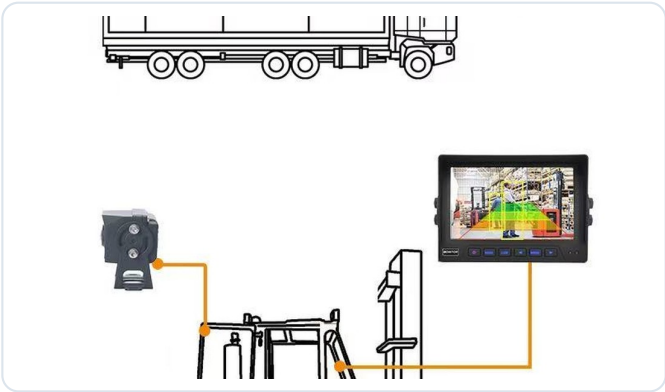
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Camera Views - Housing, Bracket and Connector



Workshop Test & Customer Field Feedback

