



JPC-146

1080P-AHD LED Work-Light Camera

Lighting and monitoring in one housing | 8 high-power LEDs | beam up to 100 m | IP68 | 12V camera / 12-24V light

2-in-1 light + camera

8 x high-power LED

100 m beam

1080P AHD

IP68

Magnet version 42 kg

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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 housing does two jobs: a work light and a 1080P-AHD camera - you light the working area and see the picture at the same time
- Fits the same bracket and the same mounting position as a standard round work lamp - one hole, one cable run, no extra drilling
- What the lamp lights is what the camera shows - reversing, tipping, harvesting, loading and lifting stop being guesswork
- 8 imported high-power LED beads with a matched optical lens - night illumination distance up to 50-100 m
- 60 degree flood beam - wide, even light with no hot spot right in front of the machine
- Three LED modes (high beam / medium / near) for different workplaces - optional version
- Colour temperature selectable 3000 K / 4500 K / 6000 K - warm light cuts through rain and fog, white light shows detail
- Camera draws 2 W and the work light stays under 10 W, so a long shift does not drain the machine battery
- A-class vehicle AHD chipset: 3D noise reduction, auto white balance, auto backlight compensation, fast response with no trailing shadow
- 0 Lux minimum illumination with the LED on - if the light reaches it, the picture is there
- IP68 submersible-pump sealing process: rain, mud and high-pressure washing
- Thickened cast-aluminium housing with grid-type heat sink, large stainless steel screws and a self-locking 4-core aviation plug - built for constant vibration

TECHNICAL SPECIFICATION

Image Sensor	HD colour AHD CMOS
DSP Chipset	FH8536H + GC2053 (2053 + 8536H)
Resolution	1080P / 720P AHD, PAL / NTSC
Viewing Angle	About 110° (about 120° version available)
Minimum Illumination	0 Lux (LED light on)
Night Illumination	Up to 50-100 m
LED Quantity	8 pcs high-power LED beads
LED Beam	High beam / medium / near - optional; 60° flood
Colour Temperature	3000 K / 4500 K / 6000 K (optional)
Lampshade	High-temperature PC
Waterproof Rating	IP68 - submersible-pump sealing process
Video Output	1.0 Vp-p, 75 ohm
Signal to Noise	48 dB or better (AGC on)
Power Consumption	Camera 2 W; work light 10 W or less
Power Supply	Camera DC 12 V (8-15 V); work light 12-24 V
Connector	4-core aviation female plug, self-locking
Operating Temperature	-20°C to +70°C
Housing	Cast aluminium, grid heat dissipation, stainless steel screws

ORDERING REFERENCE / AVAILABLE VARIANTS

AHD 1080P / PAL / about 110° / 4-core aviation connector / camera 12V, light 12-24V | options: 720P, NTSC, three-mode LED, 3000K-4500K-6000K, 120° lens, 88 mm magnetic base

Product Views



Front view - 8 LED work light and 1080P camera in one housing



Three-quarter view - the same bracket as a standard round work lamp



Side view - cast aluminium body with grid heat sink



Rear view - 4-core aviation connector and stainless steel screws

WHAT SHIPS

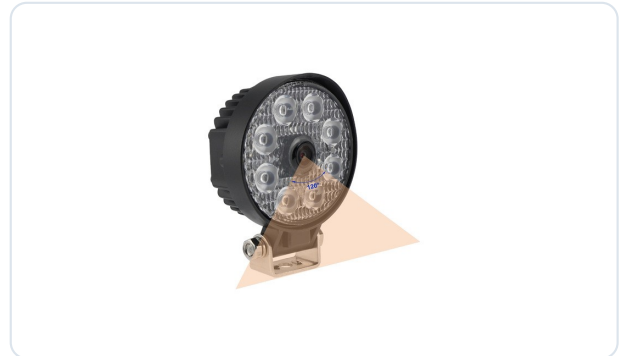
- **One part, two jobs:** the work light and the camera share the housing and the bracket.
- Camera 12V (8-15V), work light 12-24V - fits machines from 12V to 24V.
- 4-core aviation female plug with a self-locking ring; cable length to order.
- Optional 88 mm magnetic base (42 kg hold) for machines that cannot be drilled.

THE 2-IN-1 IDEA

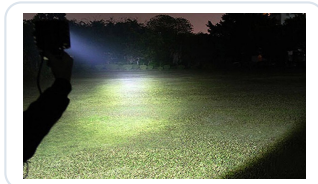
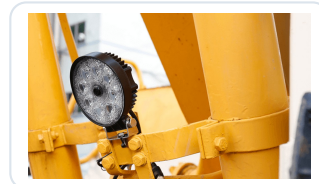
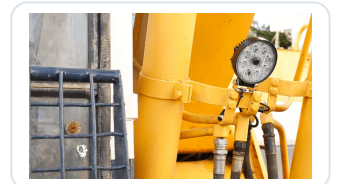
Lighting + Monitoring in One

WHY IT WORKS

- A work lamp alone lights the area but shows you nothing; a camera alone sees nothing in the dark. This one part solves both - and it takes one mounting position and one cable run.
- The LED module and the camera sit in the same housing behind the same tempered front, so the lit area and the picture always match.
- For machines that work at night - harvesters, loaders, excavators, cranes, forklifts, tipping trailers - the operator sees the same area the light is pointing at.



WHAT IT LOOKS LIKE AT NIGHT



Mounted on Working Machines

WHY IT WORKS

- Same footprint as a round work lamp (3.5 in class), so it usually bolts straight onto the existing bracket and hole pattern.
- Camera 12 V (8-15 V) and work light 12-24 V are fed separately - one part fits a 12 V machine as well as a 24 V truck or tractor.
- 4-core aviation female plug with a self-locking ring: waterproof and it cannot shake loose on rough ground.
- Custom cable length, connector type and bracket are available per project.



INSTALLATION DETAIL



NO DRILLING

Magnetic 88 mm Version - 42 kg Hold



Where It Is Used, and How to Order

TYPICAL APPLICATIONS

Agricultural Machinery

Tractors

Harvesters

Engineering Vehicles

Excavators & Loaders

Cranes

Forklifts

Trucks & Trailers

Marine & Docks

Off-Road Equipment

OPTIONS & ORDERING

- **Video system:** AHD 1080P / 720P or CVBS, PAL & NTSC - confirmed per order.
- **LED mode:** single mode or the three-mode high / medium / near version.
- **Colour temperature:** 3000 K / 4500 K / 6000 K.
- **Mounting:** standard round bracket or the 88 mm magnetic base.
- **Connector and cable:** 4-core aviation standard, custom length and connector.
- **Branding:** neutral or customer-branded packaging and laser-etched logo.

ORDERING NOTES

- Confirm the LED version (single mode or high / medium / near) and the colour temperature you need.
- **Confirm resolution and system:** AHD 1080P or 720P, PAL or NTSC.
- **Confirm the machine voltage:** camera 12 V (8-15 V) and work light 12-24 V.
- Confirm the mounting hole pattern matches your existing work-lamp bracket, and whether an extension cable or waterproof boot is needed.
- Default specification has no WDR function and no parking guide lines; other angles or NTSC must be confirmed in advance.

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