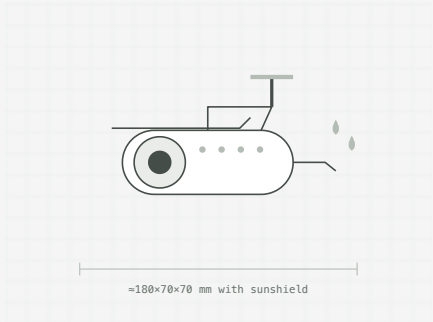
PIKHTA TECH LLC · HTTPS://FIRAI.RU · DATASHEET V0.9 DATED 3 OCT 2026

PH-Cam-O — Outdoor IP camera

PH-Cam-O — ПХ-Cam-O in Russian documents

4 MP PoE ONVIF in an IP67 bullet housing, 30 m IR illumination, −40…+60 °C: gate, perimeter, yard, canopy. Vehicle-mount version — made to order.

AVAILABILITY	LEAD TIME	MINIMUM ORDER (MOQ)	PRICE
in stock	**in stock — ships in 1–3 business days; batch of 10+ units — 2–4 weeks**	**1 unit; batch — from 10 units**	**on request, RUB excl. VAT**



PH-Cam-O
diagram; photo — after the first samples

Outline drawing; product photos are on the product page. Dimensions: ≈180×70×70 mm with sunshield.

- 1/2.7″ 4 MP, WDR ≥120 dB, 850 nm IR up to 30 m with an auto-switching IR-cut filter
- IP67, −40…+60 °C, metal bullet housing, bracket with a swivel joint
- PoE 802.3af, ≤7 W; ONVIF Profile S/T, RTSP, HTTP Snapshot; cloud and P2P disabled
- 2.8 / 4 / 6 mm lens; motorized 2.8–12 mm and a vehicle-mount version — options

Typical uses: entrance and checkpoint · perimeter and yard · canopy and open-air storage · vehicles and machinery (option).

1. Purpose

A camera for outdoor use: sealed IP67 bullet housing, −40…+60 °C operating range, IR illumination up to 30 m with an automatic IR-cut filter, WDR ≥120 dB against sun and headlights. ONVIF Snapshot and RTSP — the edge computer pulls frames over the network; “outdoor” firmware profile (exposure, scheduled IR, GOP), cloud and P2P disabled, unique password. 2.8 / 4 / 6 mm lens to match the distance to the scene; for forklifts and on-board mounting — an IP69K version on 9–36 V, made to order.

> **Straight talk:** Specifications are datasheet values until the first samples are tested. The price is market-level for a camera of this class; it includes a profile tuned to the scene, the cloud disabled and a security check report for every unit.

2. Platform, processing and optics

Processing	camera ISP; inference runs on the edge computer (PH-K30 / PH-K40 / PH-K01 / PH-J31 / PH-J01)

TOPS INT8 dense	not applicable (models run on the edge computer) method: —
Memory	not applicable
Storage	none (frames are not stored in the camera)

Sensor	1/2.7″ CMOS 4 MP (2560×1440)
Shutter	rolling
Resolution	2560×1440@25; JPEG snapshot via ONVIF
Lens	2.8 mm (≈105°) / 4 mm (≈85°) / 6 mm (≈55°) — fixed focus; motorized 2.8–12 mm — option
WDR	≥120 dB, hardware
IR illumination	850 nm IR up to 30 m, auto-switching IR-cut filter; on by schedule or by light level — set in the profile
Interface	RJ-45 PoE 802.3af, ONVIF Profile S/T, RTSP, HTTP Snapshot

3. Interfaces

USB	none
Ethernet / PoE	1×100 Mbps RJ-45, PoE 802.3af
RS-485 / CAN / RS-232	none
GPIO / relay	none
M.2	none
Video output	none
Wi-Fi / BT / LTE	none wired PoE camera — no second network and no radio on site

4. Power and thermal

Power input	PoE 802.3af (48 V) or 12 V DC
Power consumption (typical)	≈4 W
Power consumption (peak)	≤7 W with IR illumination
Cooling	passive, metal housing
Enclosure temperature in a closed cabinet at +40 °C ambient	measured after the first sample is tested; we publish the measurement, not a datasheet value

5. Mechanical

Dimensions	≈180×70×70 mm with sunshield
Weight	≈450 g
Mounting	wall / pole bracket with a swivel joint; pole straps — option
Connectors	RJ-45 in a sealed coupler, 40 cm pigtail; 12 V DC auxiliary input

6. Environment and protection

Operating temperature	–40…+60 °C
Ingress protection	IP67
Vibration / shock	IK10 — depending on the housing option; for vehicles — the IP69K version

7. Bench measurements

Measurements are expected with the first samples. What we measure: legibility of plate numbers / labels against sun and headlights (WDR); false detector triggers at night under IR (snow, rain, insects).

measured with the first samples

8. Configuration options

Option	Price
4 MP, 2.8 mm lens — base	base
4 mm (≈85°) or 6 mm (≈55°) lens	no surcharge
2 MP	on request
Motorized 2.8–12 mm lens	on request
Vehicle-mount version: IP68/IP69K, 9–36 V, vibration-resistant mount made to order	made to order, price in the quotation

Prices for 1 / 10 / 100 units and for options — in the quotation within 2 business days, valid 30 days. The contract includes a price revision formula tied to the Bank of Russia exchange rate and the DRAM index.

9. What's included

- Camera, bracket with a swivel joint, sealed RJ-45 coupler
- “Outdoor” firmware profile: exposure, WDR, scheduled IR, GOP, snapshot, cloud off, UPnP off, unique password
- Security check report for the unit (nmap, outbound connections)
- 1-year warranty, replacement or spares; product passport

10. Compatibility

Cameras	—
Power / PSU	PoE switch or 802.3af/at injector; 12 V DC
Runtimes	ONVIF / RTSP — on the PH-K40, PH-K01, PH-J31, PH-J01 or your own server

11. Updates and support

the camera profile is updated together with the system image of the edge computer it is connected to.

12. Documents and origin

EAC declaration	in progress — issued to Pikhta Tech LLC, in progress
FSB notification	in progress — model is checked against the registry; we file the notification ourselves if needed
Datasheet	this document: PDF v0.9 and the web version on this website
Product passport	in progress
Vendor security questionnaire	on request — per-unit security check report — included
Origin and our part	Camera — contract manufacturer (ODM, China) under the Pikhta part number; firmware profile, security check and incoming inspection — in Russia; EAC declaration is being issued to Pikhta Tech LLC.

13. Chip and sensor vendor documentation

- ONVIF — profiles (Profile S / T) (camera compatibility with NVRs and clients): https://www.onvif.org/profiles/

We do not host third-party documents — links to official pages only; full chip datasheets are available from the vendor or its distributor.