

JA-160PC (90) Wireless PIR motion detector with a 90° verification camera

The JA-160PC (90) is wireless component of the **JABLOTRON** system. It serves for the detection of human movement in building interiors and visual alarm confirmation. The camera takes colour photos with a resolution of up to 640 x 480 pixels. Photos are taken following detected movement, which ensures that the cause of the alarm is always recorded. The camera is equipped with a visible flash for taking photos in the dark. The detector should be installed by a trained technician with a valid certificate issued by an authorised distributor.

Installation

There should be no obstacles in front of the detector which might obstruct its view of the protected area:

- subjects, which quickly change temperature (e.g. heating appliances)
- subjects, which move (e.g. curtains hanging above a radiator, robotic vacuum cleaners, pets)
- no obstacles in front of the detector which might obstruct its view of the protected area
- moving pets

It is not recommended to install the detector:

- opposite to windows or reflectors
- in places with over-intense air circulation (close to ventilators, heat sources, air conditioning outlets, unsealed doors, etc.)

Note: *Installation in the corner of a room requires more attention during testing due to possible reflection of flash in the photographed scene (especially in the dark).*

Installation procedure:

1. Open the detector cover by pushing the tab (4). Avoid touching the PIR sensor inside (15) – you could damage it.
2. Take out the PCB – it is held by a tab (9).
3. Screw the rear cover to the wall (vertically, cover tab down).
4. Re-insert the PCB and plug the connecting cable (6) into the connector on the PCB. Insert the batteries (mind the correct polarity).
5. There must be a JA-11Xr radio module installed in the control panel.
6. Close the detector cover and test its functionality. In order to comply with norms, the cover tab (4) must be secured with the supplied screw.

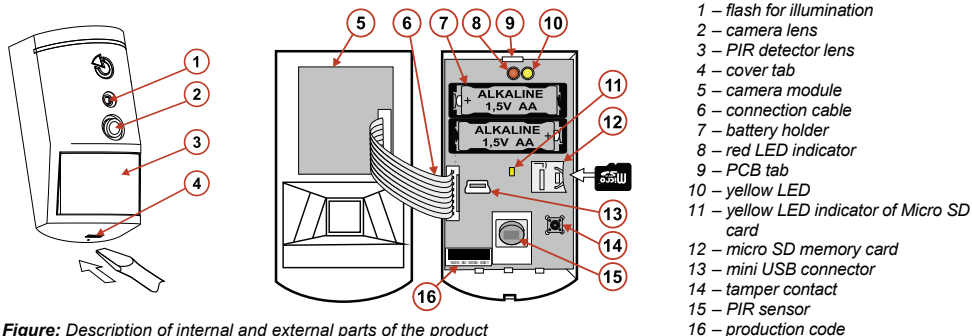


Figure: Description of internal and external parts of the product

Enrolment to the system and settings

According to the type of control panel use recommended software or application - see control panel manual.

Technical specifications

Power..... 2 x alkaline battery type LR6 (AA) 1.5 V
(alternatively 2x AA lithium battery, 1.5 V)
Typical lifetime..... about 2 years (1 activation and 1 series of photos a day)
Please note: Batteries are not included
LowBatt voltage alkaline batteries..... <2.52 V
LowBatt voltage lithium batteries..... <2.62 V
Quiescent current consumption..... 2 µA
Maximum current consumption..... 870 mA
Recommended installation height..... 2.5 m above the floor
PIR Detection angle / detection coverage..... 90° / 12 m
Horizontal camera capture angle..... 90°
Range of the flash..... max. 3 meters
Resolution of the camera..... LQ 320 x 240; HQ 640 x 480 pixels
Photo size LQ / HQ (typically)..... 2-20 kB / 2-64 kB (6 kB / 35 kB)

Typical (LQ) photo transmission time to the control panel..... up to 20 s (10 s)
Typical (HQ) photo transmission time to the control panel..... up to 130 s (60 s)
Typical photo transfer time to the server..... 15 s / GPRS; 2 s / LAN
Dimensions, weight (without batteries)..... 110 x 60 x 55 mm, 110 g
Operational temperature range..... -10 °C to +40 °C
Operational environment..... Indoor general
Average operational humidity..... 75% RH, non-condensation
Classification..... security grade 2 / environmental class II
(according to EN 50131-1)
Certification body..... Trezor Test s.r.o. (no. 3025), KIWA Nederland b.v.
Complies with..... EN 50131-1, -2-2, -5-3, -6, EN 50130-4, EN 55032,
ETSI EN 300 220-1, -2, EN 62368-1, EN IEC 63000, T 031
Can be operated according to..... ERC/REC 70-03
Recommended screw..... 2x ➤ ø 3.5 x 40 mm (countersunk head)



JABLOTRON a.s. hereby declares that the product JA-160PC (90) is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/30/EU, 2014/35/EU, 2014/53/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.



Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.

For an electronic version of this document (available in other languages) or a version for installation in the JA-100+, scan the attached QR code: <https://manuals.jablotron.com/ja-160pc90>.



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