

# **ReX 2 Jeweller**

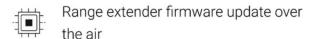
Radio signal range extender supporting photo verification.

An Ajax hub is required for device operation.



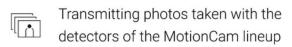
#### **Key features**

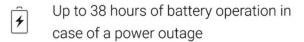




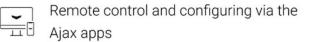
Radio frequency hopping and transmitting all data via Ethernet in case of attempted jamming

Fast pairing with the security system using QR code





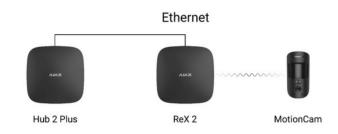




### Photo verification for large and complex facilities

The maximum radio communication range with connected devices is 1,700 meters in an open space. Up to 5 range extenders can be connected to an Ajax security system, allowing it to protect large-scale objects. Regardless of the number of devices connected to the range extender, alarms are delivered in 0.3 seconds. The first photo taken with the detector of the MotionCam lineup is delivered in 10 seconds (the exact time depends on system parameters).

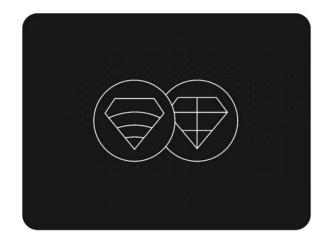




## Guaranteed delivery of alarms and photos

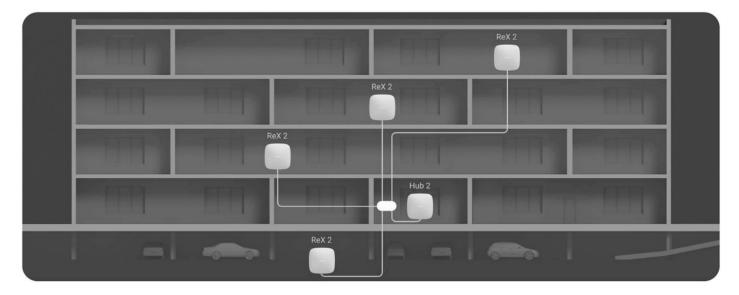
ReX 2 is equipped with four antennas and supports two radio protocols: **Jeweller** and **Wings**. The maximum radio communication range of each protocol is 1,700 meters in an open space.

**Jeweller** transmits commands, events and alarms. **Wings** provides packet transmission of images, even when the signal strength is unstable and the communication fails. This is possible due to the built-in algorithms for checking and uploading data packages.



Ajax two-way radio communication uses frames to synchronize device communication sessions, authentication to prevent spoofing, and encryption to protect against data theft.

#### Communication through steel and concrete



ReX 2 with **OS Malevich 2.13** firmware transmits data to the hub via radio and Ethernet cable. The cable can be used as the only or additional communication channel. The hub and the range extender must be connected to the same network through a router for that. An Ajax security system does not limit the length of the cable. Thus, one system can cover such an object as an office center with underground parking, a metal sectional hangar or a warehouse complex of several buildings.



Automatic switching between the channels in case of connection loss with one of them



Data transmission protected by encryption

## **Quick installation**

Connecting and configuring ReX 2 is a hassle-free process which saves the installer time. To add the range extender to the system, scan the QR code using an Ajax app, then assign a name and a room to the device. And if necessary, the range extender can be turned off or reconfigured remotely, without visiting the facility.







# **Technical specifications**

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Compatibility	Hubs Hub 2 (2G) Hub 2 (4G) Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G)  Devices All Ajax wireless devices  Range extenders ReX 2 does not connect to other range extenders
Communication channels	Jeweller communication technology  Wings communication technology	Data transmission	Alarm delivery speed 0.3 s  Photo delivery speed via Wings up to 18 s Depends on system parameters
	Ethernet 8P8C socket Up to 100 Mb/s		Photo delivery speed via Ethernet up to 10 s Depends on system parameters

Communication channels

Radio frequency bands

866.0-866.5 MHz

868.0-868.6 MHz

868.7-869.2 MHz

905.0-926.5 MHz

915.85-926.5 MHz

921.0-922.0 MHz

Depends on the sales

region

Maximum effective radiated power (ERP)

≤ 20 mW

Radio communication range

up to 1,700 m

In an open space

Polling interval

12-300 s

Adjusted by PRO or user with admin rights in the Ajax apps

Protection against spoofing

Device authentication

Protection against jamming

Radio frequency hopping

Automatic switching the communication channel in case of connection loss

Power supply

Main power supply

100-240 V, 50/60 Hz

Backup power supply

Li-Ion with 2 A·h capacity Up to 38 hours when not

connected via Ethernet
Up to 12 hours when

connected via Ethernet

Installation

Operating temperature range

from -10°C to +40°C

Operating humidity

up to 75%

**Protection class** 

**IP20** 

Enclosure

Colour

white, black

**Dimensions** 

163 × 163 × 36 mm

Weight

410 g

Complete set	ReX 2 Jeweller SmartBracket mounting panel Power supply cable Ethernet cable Installation kit	Enclosure	Tamper alarm
	Quick start guide		