



ReX 2 Jeweller

Radio signal range extender supporting photo verification.



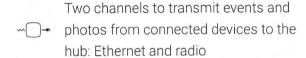
An Ajax hub is required for device operation. Find the detailed information on the device at the link:



https://ajax.systems/support/devices/rex-2



Key features





Range extender firmware update over the air



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



Fast pairing with the security system using QR code



Transmitting photos taken with the detectors of the MotionCam lineup



Up to 38 hours of battery operation in case of a power outage



Enclosure protected with the tamper



Remote control and configuring via the Ajax apps

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).

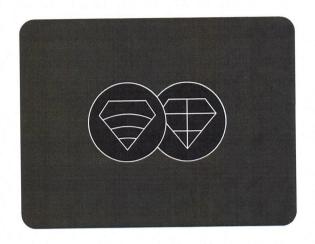




Guaranteed delivery of alarms and photos

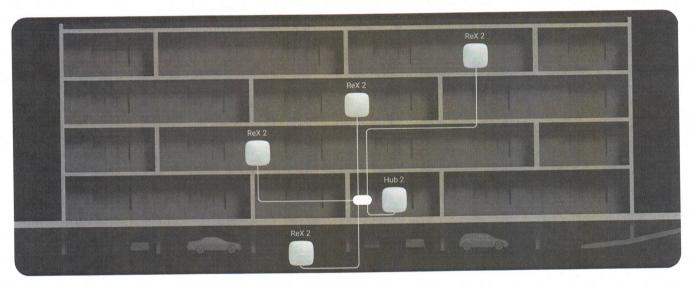
ReX 2 is equipped with four antennas and supports two radio protocols: **Jeweller** and **Wings**. The maximum radio communication range of each protocol is 1,700 meters in an open space.

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
₩ingscommunicationtechnology		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-lon 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	Enclosure	Tamper alarm
	panel Power supply cable		
	Ethernet cable Installation kit		
	Quick start guide		