TECHNICAL DATASHEET

Detector

MODEL NUMBER:
72007, 72008 & 72009

General

Detector is a battery powered camera that is triggered by motion detection or tamper sensor. It can also be activated at preconfigured times set by an operator.



Operating temperature range
-40°C to +60°C
-40°F to +140°F

IP rating
67 (waterproof)

Weight (including battery)
700g / 1,54 lb

Dimensions
85x120x100mm / 3.34x4.72x3,93 in

Colour
NATO Green (RAL6014)

Motion Detection

Reconeyez detector uses passive infrared (PIR) sensor and signal analysis to track thermal signature across the monitored area. If motion is detected an alarm is generated and the camera is activated.

Maximum detection range

35m/114.8 ft

Detection angles standard

13° @ 30.5m/100 ft
28° @ 18.3m/60 ft
43° @ 10.7m/35.1 ft
154° @ 2.2m/7.2 ft

Detection angles Narrow PIR

13° @ 30.5m/100 ft

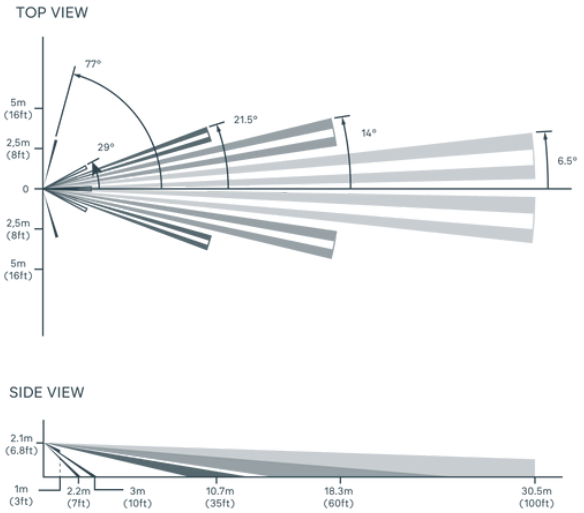
Minimum alarm interval

Configurable (default 0s - limited by camera to ~1.5s)

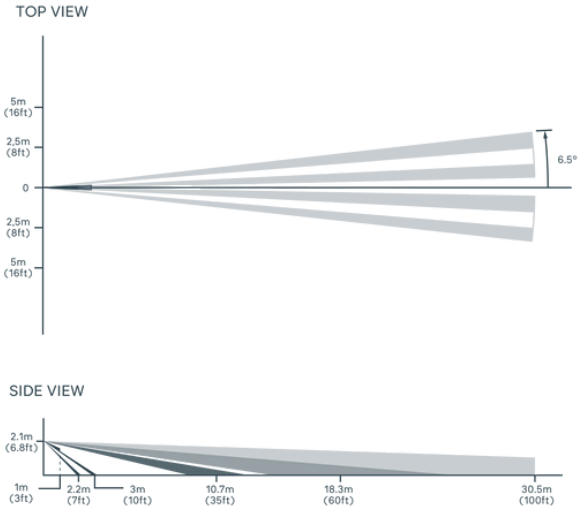
Sensitivity

Configurable

STANDARD



NARROW



Short range radio

Short-range 2.4GHz radio is used for two-way communication between the Detector and other Reconeyez devices.

Standard	**IEEE 802.15.4**
Bandwidth	**2 MHz**
Data rate	**250 kbps**
Modulation	**QPSK**
Antenna	**omnidirectional**
EIRP	**12 dBm**
Security	**ECC (secp160r1)**
Authentication & encryption	**AES 128**
Max LOS distance	**500m / 1640.42 ft**
Network topology	**mesh**

Camera

Camera module comprises a day camera for colour imaging, a night camera for monochrome imaging and an infrared illuminator for dark conditions. Camera stores full size raw images in internal memory and smaller size jpg images are uploaded to the command center server.

Internal memory	**7.6 GB**
Storage capacity	**1800+ images**
Downloaded image size	**Thumbnail ~20 kB**

Day camera

Picture resolution	**1920 x 1080**
Raw image size	**4.2 MB**
Horizontal angle	**56°**

Night camera

Picture resolution	**1280 x 960**
Raw image size	**2.5 MB**
Horizontal angle	**63°**

Battery

Detector is powered by 1 rechargeable Li-Ion battery.

Voltage	**3.7V**
Capacity	**10.2 Ah**
Lifetime	**up to 400 days standby / up to 16,000 events**
Time to recharge	**7-12 hours (depending on charge type)**
Auxiliary solar panel	**optional**