

Smartdec uses small, battery powered, intelligent wireless sensors to monitor the environment and to make decisions about possible threats. Sensors in detectors register different types of information, such as movement, humidity, date, time, temperature, geographical coordinates, and location.

DETECTOR BLX

TECHNICAL PARAMETERS

Movement detection radius: **35 m** day or night

Motion detection angle: **14°** vertical and **50°** horizontal angle

Operating temperature: **-40°C** to **+ 55°C**

Minimum time between alarms: **1 sec.** *User can define longer delay with the Handheld device.*

CAMERA

Image capture: **0.5 sec**

Image capture speed: **2 FPS (records 60sec+ video clips)**

Memory: NAND Flash **16GB (speed class 10)**. Capacity **2000+** pictures.

Stored image size: up to **4 MB (JPEG format)** , at least **720p**. *Image size user configurable.*

Resolution: **2560H x 1920V**

Horizontal angle (day): **71°**

Infrared flash: **940 nm**

Minimum illumination: 0.1 lux

Photo resolution can be configured and pre-selected.

Possible to set the number of photos to be taken for each alarm event.

Alarm photo has information of time and date of capture and coordinates.

Camera performs periodic (configurable time interval) control photos (routine checks).



DIMENSIONS AND DURABILITY

Battery lifetime: **1 year** or up to **50,000 photos** Battery:

Li-Ion **3.7V 10400 mAh**.

Enclosure: weather proof (**IP67**) -

Operational in all weather conditions - snow, rain, wind etc, without losing info

Detector weight: **700 g**

Detector size: **8.5x12x10 cm**

USB and video output

All devices are camouflaged according to environment.

Input for another external power source available.



COMMUNICATION

Range: up to **500 m** line of sight,

Standard: **IEEE 802.15.4 (2,4 GHz)**

Bandwidth: **2 MHz**

Data rate: **250 kbps**

Modulation: **QPSK**

Antenna: omnidirectional

EIRP: configurable up to **12 dBm**

Security: Elliptic Curve Cryptography (**secp160r1**) Message authentication & encryption (**AES 128**) Multi hop data transmission supported.



INSTALLATION

A screw or wire fastener for multiple use is used to install the each Detector. Every device has at least 4 letter name/code, which showed on alarms.



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