

# TECHNICAL DATASHEET

## DETECTOR

MODEL NUMBER: **DH01Y0—GE—1810 (standard), DH01Y0—GE—1850 (Narrow PIR)**

### 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°F to +140°F
IP rating	X7 (waterproof)
Weight (including battery)	700g 1,54 lb
Dimensions	85x120x100mm 3.34x4.72x3,93 in
Colour	NATO Green (RAL6014)



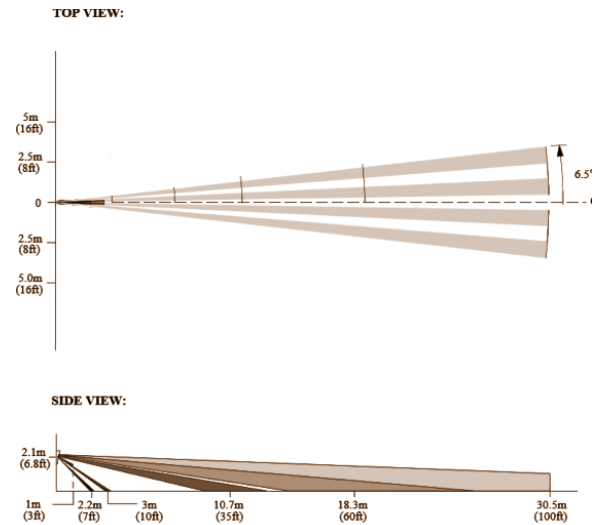
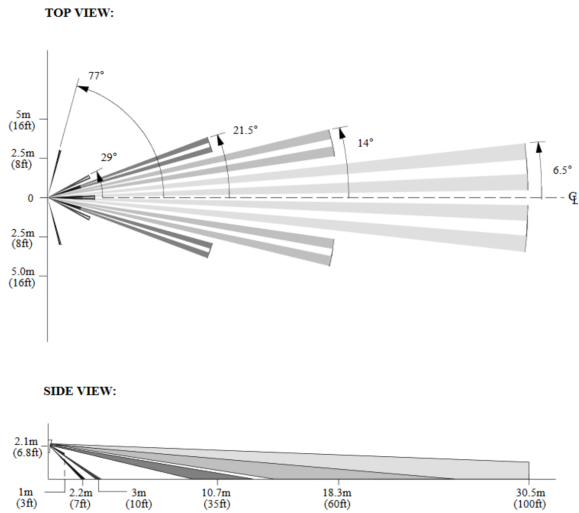
### MOTION DETECTION

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	<b>35M/114.8 ft</b>
Detection angles standard (areas shown on Figure below left)	<b>13° @ 30.5M/100 ft 28° @ 18.3M/60 ft 43° @ 10.7M/35.1 ft 154° @ 2.2M/7.2 ft</b>
Detection angles Narrow PIR (areas shown on Figure below right)	<b>13° @ 30.5M/100 ft</b>
Minimum alarm interval	Configurable (default 0s - limited by camera to ~1.5s)
Sensitivity	Configurable

## PIR DETECTION

PIR detection zones for standard and Narrow detectors



## SHORT RANGE RADIO

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

Standard	<b>IEEE 802.11.4</b>
Bandwidth	<b>2 MHz</b>
Data rate	<b>250 kbps</b>
Modulation	<b>QPSK</b>
Antenna	<b>omnidirectional</b>
EIRP	<b>12 dBm</b>
Security	<b>ECC (secp160r1)</b>
Authentication & encryption	<b>AES 128</b>
Max LOS distance	<b>500M 1640.42 ft</b>
Network topology	<b>mesh</b>

## 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	<b>up to 400 days standby/ up to 50,000 events</b>
Time to recharge	7-12 hours (depending on charge type)
Auxiliary solar panel	optional