

DATASHEET DETECTOR

MODEL NUMBER: **DH01Y0-GE-1440**
Narrow detection angle

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
IP rating	X7 (waterproof)
Weight (including battery)	700g
Dimensions	85x120x100mm

Motion detector

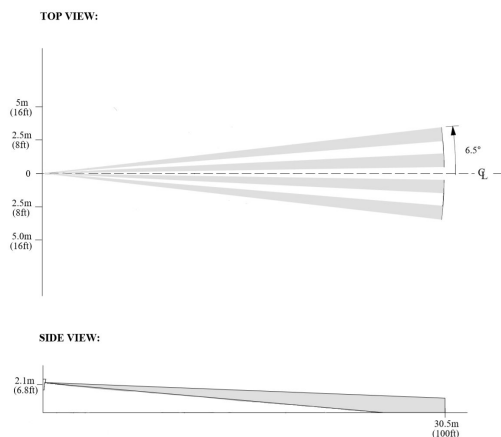
Reconeyez detector uses passive infrared sensor and signal analysis to track thermal signature across the monitored area. If motion is detected an alarm is generated and the camera is activated.

Maximum detection range	30.5m
Detection angles	13° @ 30.5m
Minimum alarm interval	Configurable (default 0s - limited by camera to ~1.5s)
Sensitivity	Configurable

SHORT RANGE RADIO

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

Standard	IEEE 802.11.4
Bandwidth	2 Mhz
Data rate	250 kbps
Modulation	QPSK
Antenna	omnidirectional
EIRP	12 dBm
Security	ECC (secp160r1)



Authentication & encryption	AES 128
Max LOS distance	800 m
Network topology	mesh

CAMERA

Camera module comprises a day camera for colour imaging, a night camera for monochrome imaging and 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	>400 days standby/ 50,000 events
Time to recharge	7-12 hours (depending on charge type)
Auxiliary solar panel	optional