

TECHNICAL DATASHEET

DETECTOR

MODEL NUMBER: **Nevelus BlasT Cam 101**

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.

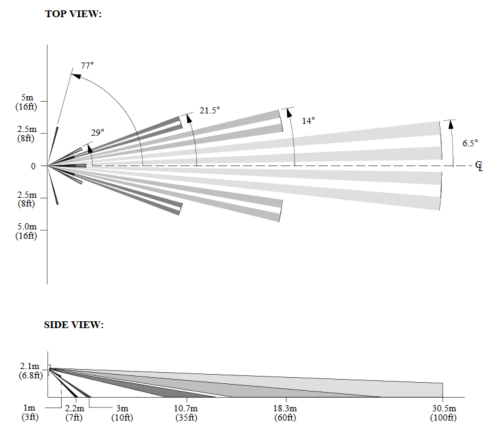
Operating temperature range IP rating	-40°C to +60°C X7 (waterproof) 702g
Weight (including battery)	84x121x102mm
Dimensions	



MOTION DETECTION

Nevelus BlasT 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	34m
Detection angles (areas shown on figure on the right)	12° @ 30m 27° @ 18m 42° @ 10.6m 153° @ 2.1m
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 Nevelus BlasT devices.

Standard	IEEE 802.11.4
Bandwidth	2 MHz
Data rate	250 kbps
Modulation	QPSK

Antenna	omnidirectional 12
EIRP	dBm
Security	ECC (secp160r1)
Authentication & encryption	AES 128
Max LOS distance Network topology	800 m
	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 Storage capacity	7.6 GB
Downloaded image size	1800+ images
	Thumbnail ~20 kB

Day camera

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

Night camera

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

BATTERY

Detector is powered by 1 rechargeable Li-Ion battery.

Voltage	3.7V
Capacity	10.21Ah
Lifetime	up to 390 days standby/ up to 49,500 events 7-12
Time to recharge	hours (depending on charge type) optional
Auxiliary solar panel	