



# lux

Yet another bright idea!



PREMIUM RADIO PIR FOR EFFECTIVE SECURITY + BRIGHT NIGHT-LIGHT FOR SAFETY

## Ness LUX

### Premium Radio PIR with Night-Light

Ness LUX Radio PIR – a unique wireless motion detector with a white LED night-light.

With all the features and benefits of Ness premium radio detectors, LUX features 15m x 15m detection coverage, look-down creep zone, high RF immunity, white light immunity, adjustable range, adjustable pulse count and extremely long battery life.

For safety and convenience, LUX's night-light function provides a motion-activated cone of light to help you find your way at night, while the built-in ambient light sensor helps save power by enabling the night-light only in the dark.

Ness LUX's "capsule" design protects sensitive electronic components and provides easy access to the dipswitches and batteries.

Ness LUX is supplied with long-life lithium batteries with an expected service life of up to 10 years service under normal conditions.

LUX PET AWARE model with unique Opposing Fields lens technology has a superior ability to discriminate between household pets and unwanted human intruders allowing you to secure your home with your pets indoors.

- 15m x 15m wide angle coverage
- Look down 'Creep Zone' (106-168)
- White LED motion activated night-light
- Adjustable Pulse Count
- Adjustable Range
- High R.F. and E.S.D. immunity
- High white light immunity
- SAWR stabilised radio transmitter
- Capsule design with sealed electronics
- Front cover tamper protection
- Long life Lithium batteries supplied
- Low battery warning signal
- Hourly Supervision radio signals
- Includes wall mounting bracket
- Optional ceiling bracket available
- LUX PET AWARE model allows you to secure your home with your pets indoors

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PREMIUM RADIO PIR FOR EFFECTIVE SECURITY + BRIGHT NIGHT-LIGHT FOR SAFETY



Fully encapsulated electronics module for safety and security

Includes convenient wall mount swivel bracket

Optional Deluxe Swivel Bracket for wall or ceiling mounting (Part No. 106-169)

**LUX PET AWARE (106-170)**  
Secure your home with your pet indoors

LUX PET AWARE has high sensitivity to large targets and excellent rejection of pets

## Specifications

Dimensions	112(h) x 72(w) x 48(d) mm
Mounting height	2.1m – 2.4m
Coverage	Up to 15m x 15m @ 90°
Detector zones	20 dual element zones
Pulse count	Selectable 1–2 or 3–4
Range	Selectable High/Low. 15m max./12m max.
Sensor	Dual element pyroelectric
Alarm indication	Blue alarm LED
Night-Light	White LED with adjustable threshold / Dark-enabled / Motion activated
Night-Light duration	PIR reset time + 10 sec / Typically on for 15–20 sec after a single trigger Remains lit during constant motion
Pet Immunity (Pet Aware model)	Single pet up to 18kg or multiple pets up to 10kg total
Alarm duration	5 seconds
Warm up duration	30 seconds
Operating voltage	3V DC
Battery	2 x CR123A Lithium
Quiescent current	< 14µA
Radio frequency	304MHz / 868MHz depending on region
Transmit power	100µW
Compatibility	All Ness radio-enabled control panels, Ness MCR receiver, Ness SCR receiver

## Ordering Information

106-168 Ness LUX Radio PIR 304MHz  
106-170 Ness LUX Radio PIR PET AWARE 304MHz  
106-169 Ness LUX Deluxe Swivel Bracket

868MHz models available for export markets.



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# lux HW

PREMIUM  
PRODUCT



QUAD SENSOR



15m RANGE



HARD WIRED



LED NIGHTLIGHT



CREEP ZONES



DIGITAL PULSE COUNT



ADJUSTABLE RANGE



SELECTABLE PET MODE



AUTOMATION INPUT / OUTPUT

## Ness LUX HW Security & Automation PIR with Night-Light

Introducing Ness LUX HW PIR – a unique hardwired motion detector with a white LED night-light.

LUX HW features a Quad sensor for superior detection, 15m x 15m detection coverage, look-down creep zone, high RF immunity, white light immunity, adjustable range, adjustable digital pulse count and of course the handy LUX night-light.

For safety and convenience, LUX HW's night-light function provides a motion-activated cone of light to help you find your way at night. The night-light can operate in automatic or manual modes and can even be triggered by an external input.

LUX HW is automation-ready with a high sensitivity Fast Out output and smart external control of the night-light.

LUX HW is a high sensitivity PIR and PET AWARE sensor rolled into one with a unique adjustable sensor mask providing easy configuration of Normal, No Creep and Pet modes.

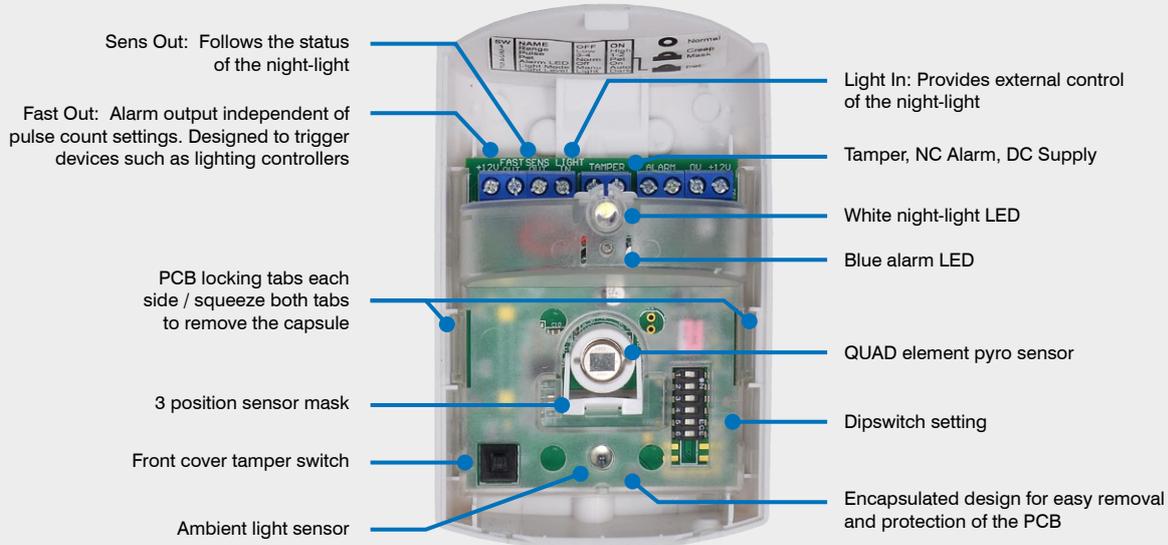
LUX HW, with Quad Detection, Pet mode, Night-Light and Automation mode – a combination that can't be beaten!

- Quad element pyro sensor
- 15m x 15m wide angle coverage
- Look down 'Creep Zone'
- Selectable Standard and Pet Aware modes
- Adjustable sensor mask for No Creep & Pet mode
- Supports Home Automation with Fast Response Output / Sens Out / Light In
- White LED motion activated night-light
- Adjustable Digital Pulse Count
- Adjustable Digital Range
- Temperature compensation
- High R.F. and E.S.D. immunity
- High white light immunity
- High quality patented Fresnel lens
- Capsule design with sealed electronics
- Front cover tamper protection
- Totally silent solid state relay with high immunity to magnetic fields
- Optional mounting bracket available
- 10~15V DC Operation



# Premium Hardwired Security & Automation PIR

With Quad Sensor, Night-Light, Selectable Pet Mode, Sensor Mask



DIMENSIONS	112(h) x 72(w) x 48(d) mm
MOUNTING HEIGHT	2.1m – 2.3m
COVERAGE	Up to 15m x 15m @ 90°
DETECTOR ZONES	20 quad element zones + vertical anti-creep zone
PULSE COUNT	Selectable 1-2 or 3-4
RANGE	Selectable High/Low. 15m max./12m max.
SENSOR	Quad element pyroelectric
ALARM INDICATION	Blue alarm LED
RELAY OUTPUT	Silent solid state relay, normally closed contacts, 100mA max.
TAMPER OUTPUT	Normally closed switch
FAST OUTPUT & SENS OUTPUT	Open collector (pulls to 0V/Neg)
LIGHT IN INPUT	Pull low to 0V/Neg to turn on the night-light
NIGHT-LIGHT	White LED adjustable Light/Dark threshold / Motion activated / Ext control
NIGHT-LIGHT OPERATION	Operates regardless of ambient light level for 1hour after power up then operates in auto mode (if enabled) / 25 sec on time / external trigger via the Light-In input / Sens Out output follows night-light state
PET IMMUNITY (PET AWARE MODE)	Single pet up to 18kg or multiple pets up to 10kg total
ALARM PERIOD	2 seconds
WARM UP DURATION	30 seconds PIR startup time
WALK TEST MODE	Night-Light follows the blue alarm LED for 1 hour after power-up to provide walk test indication
OPERATING VOLTAGE	10~15V DC
CURRENT DRAW	10mA

Ordering Information



106-173  
LUX HW PIR



100-243 Optional  
Quantum Swivel  
Bracket



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