



# Activ8 Digital PIR Detection



The Activ8 range of internal movement detectors offers a simple, reliable and cost effective solution to meet the requirements of the majority of installation needs. With high precision sealed optics as standard, full microprocessor control and the streamlined low-profile aesthetic design, your choice of detectors has just been made easier.

#### **Pet Immunity as Standard**

Pet immunity option, selectable for up to 15Kg or up to 25Kg (excluding CTN and 360 variants).

#### **Quad Element PIRs**

All Activ8 PIRs are Quad (four element) PIR sensors (excluding CTN).

#### **Adjustable Pulse Count**

Variable pulse counting to minimise false alarms.

#### **Full compliance with EN Standards**

Designed in accordance with EN50130-4:1995 and EN61000-6-3:2001, Class B, Security Grade 2, Environmental Class II to meet all current legislative requirements.

#### **Additional White Light Filtration**


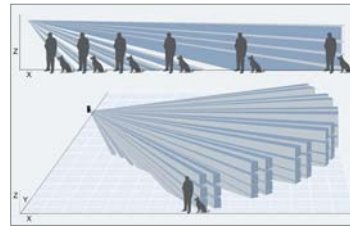
Supplied with additional white light filtration which can be fitted if required for harsh environments.

#### **Easy Installation**

Knockouts top and bottom and optional dual-purpose ceiling and wall surface-mounted bracket, allows for easy installation.



# Activ8 Digital PIR Detection Features

**ACTIV8 PIR: SINGLE CHANNEL QUAD ELEMENT PIR**


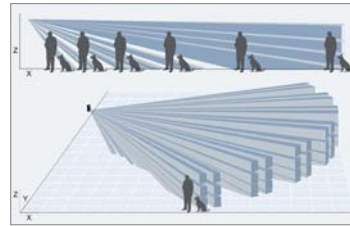
- Selectable pet immunity weights
- 18m x 18m PIR detection range
- Variable pulse width and PIR sensitivity adjustments
- Sealed optics for high-reliability detection
- Discrete – only 90mm high

**ACTIV8 QP: DUAL CHANNEL QUAD ELEMENT PIR**


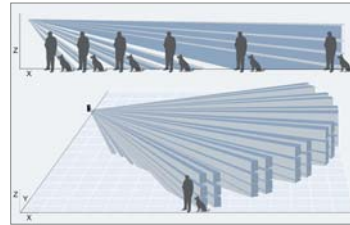
- Dual channel signal processing for fast, accurate information processing
- Selectable pet immunity weights
- 18m x 18m PIR detection range
- Variable pulse width and PIR sensitivity adjustments
- Sealed optics for high-reliability detection

**ACTIV8 DT: DUAL CHANNEL QUAD ELEMENT PIR WITH MICROWAVE DETECTION**


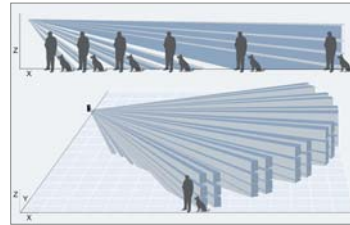
- 10.687GHz X-band doppler microwave
- Selectable pet immunity weights
- 15m x 15m PIR detection range
- Variable pulse width, PIR and Microwave sensitivity adjustments
- Individual LED indication for Microwave and PIR detection

**ACTIV8 DT-AM: DUAL CHANNEL QUAD ELEMENT PIR WITH MICROWAVE DETECTION & ANTI-MASK TECHNOLOGY**

- Anti-Mask output identifies potential mask issues with PIR lens
- Dual technology – PIR and Microwave – in one case
- 15m x 15m PIR detection range
- Variable pulse width, PIR and Microwave sensitivity adjustments
- Individual LED indication for Microwave and PIR detection

**ACTIV8 BG: DUAL CHANNEL QUAD ELEMENT PIR WITH GLASS BREAK DETECTION**

- Low frequency (shock) and high frequency (glass break) detection options
- True DD243-compliant, Sequentially Confirmed Alarm detection and triggering, in one case
- 15m x 15m PIR detection range
- Variable pulse width, PIR and volume sensitivity adjustments
- Individual LED indication for glass break and PIR detection



**ACTIV8 MONO: SINGLE CHANNEL QUAD PIR WITH INTEGRAL MONOCHROME PINHOLE CAMERA AND MICROPHONE**



- Camera operates in light levels as low as 0.5 Lux
- Selectable pet immunity weights
- 18m x 18m PIR detection range
- Variable pulse width and PIR sensitivity adjustments
- Complete with adjustable ceiling/wall mounting bracket



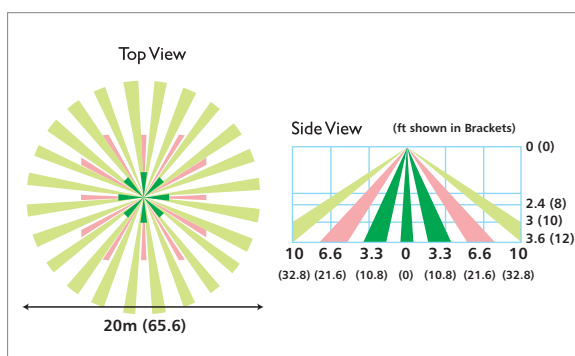
**ACTIV8 COLOUR: SINGLE CHANNEL QUAD PIR WITH INTEGRAL COLOUR PINHOLE CAMERA AND MICROPHONE**



- Camera operates in light levels as low as 0.5 Lux
- Selectable pet immunity weights
- 18m x 18m PIR detection range
- Variable pulse width and PIR sensitivity adjustments
- Complete with adjustable ceiling/wall mounting bracket



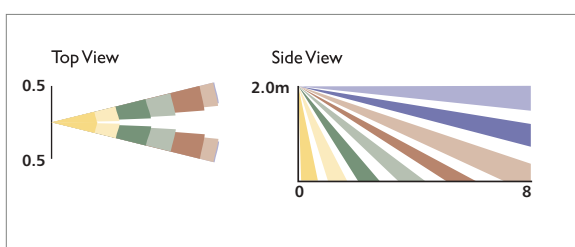
**ACTIV8 360: SINGLE CHANNEL QUAD PIR WITH 360° COVERAGE**



- Ceiling mounted 360° PIR
- 20m PIR detection range at 3m height
- Variable pulse width and PIR sensitivity adjustments
- Sealed optics for high-reliability detection
- Selectable led operation



**ACTIV8 CTN: SINGLE CHANNEL QUAD PIR WITH CURTAIN COVERAGE**



- Compact size for discrete mounting
- 8m x 1m PIR detection range
- Sealed optics for high-reliability detection
- Selectable led operation
- Multiple mounting modes (curtain, pet alleyway)

# Activ8 Digital PIR Detection Applications



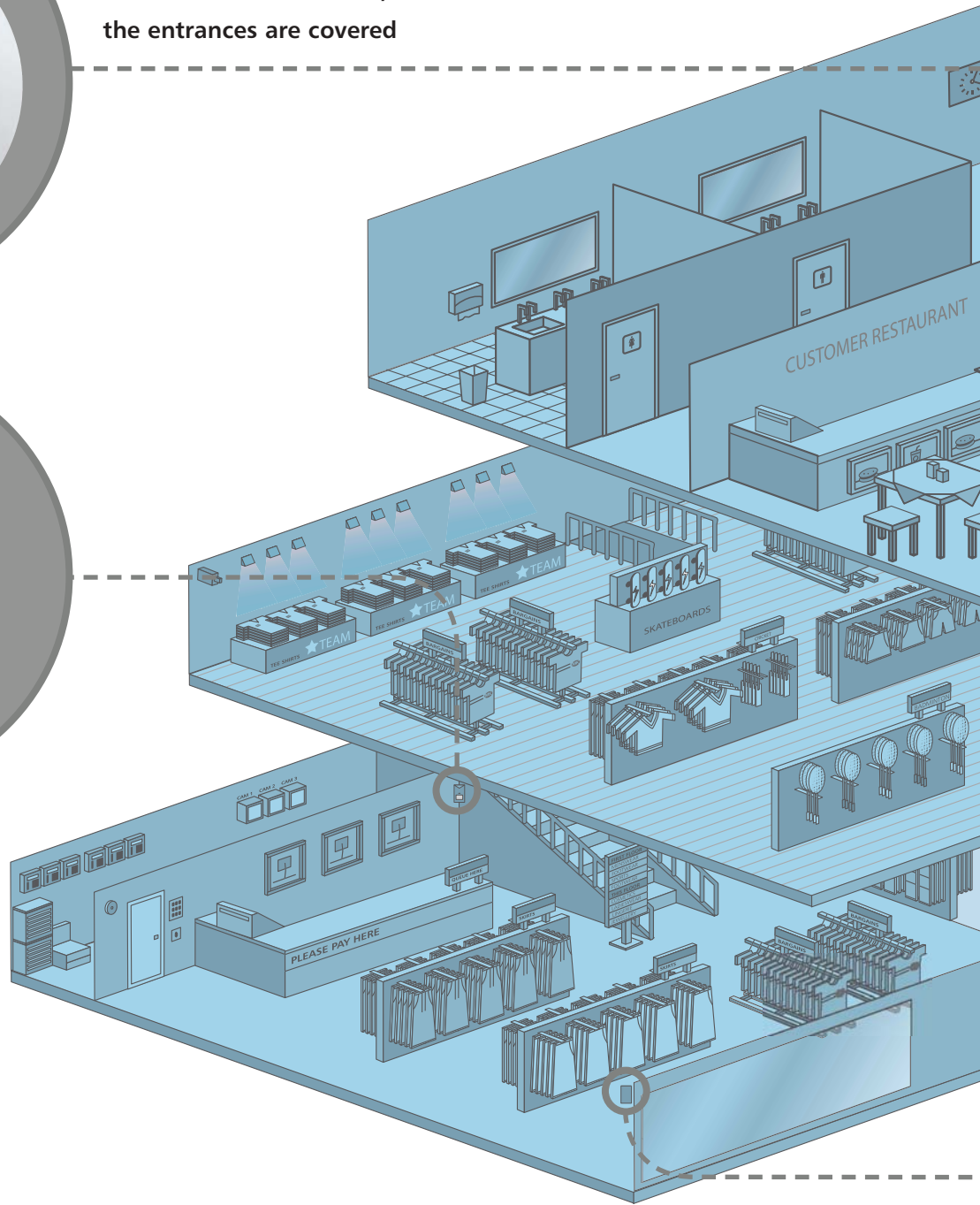
## Activ8 360

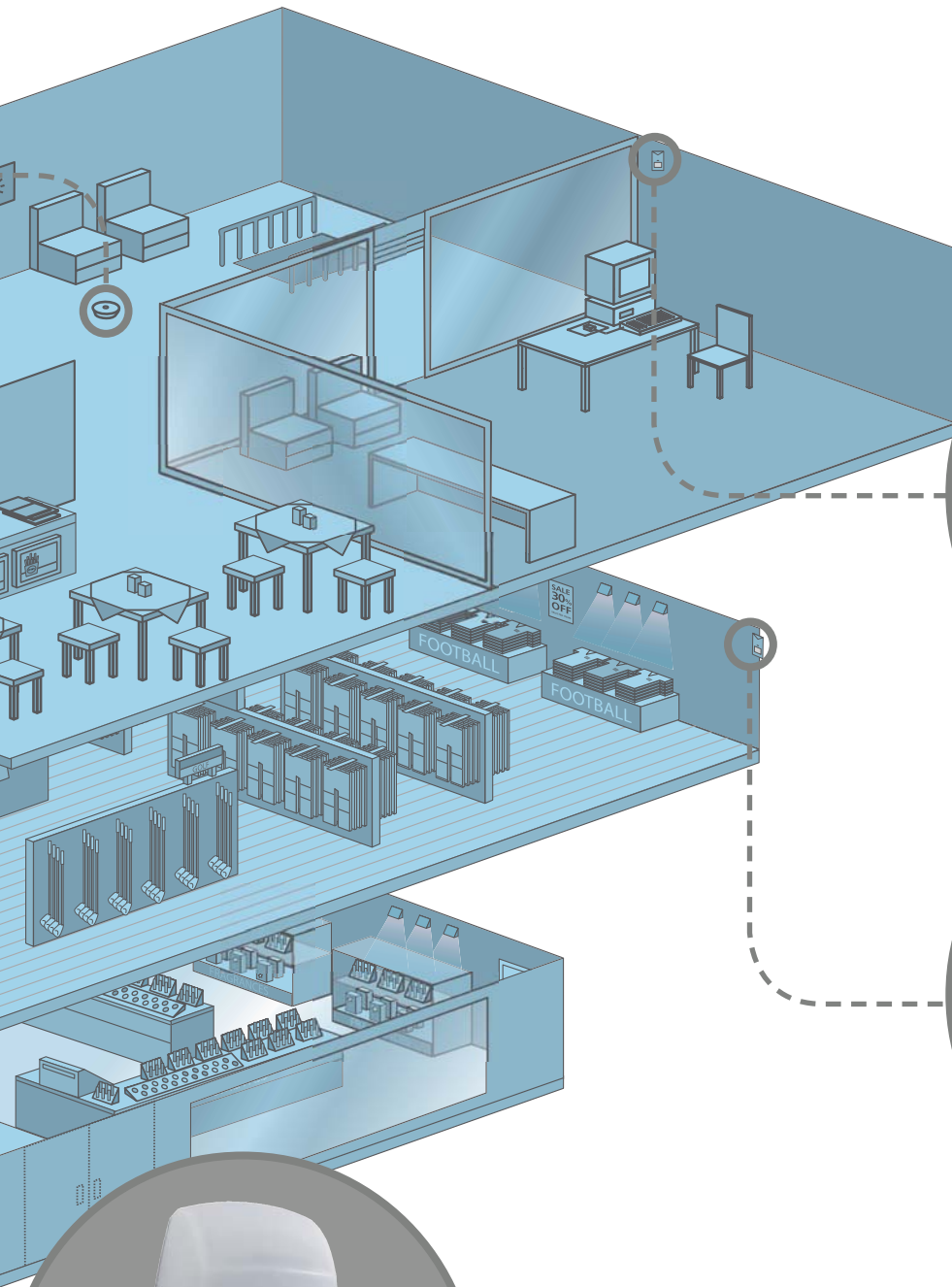
One PIR to cover a room, to make sure all the entrances are covered



## Activ8 Colour/Mono

The options of PIRs with internal covert colour or monochrome cameras allows for surveillance of critical business areas





### Activ8 BG

For added security, a PIR with integral glass-break detection will provide dual-technology triggering



### Activ8 CTN

Covering large window areas is easy, with the choice between Break Glass detection, and curtain PIRs

### Activ8 DT-AM

PIR coverage, with the added security of microwave motion detection gives enhanced detection reliability. When coupled with anti-mask technology, it's a combination that is hard to beat

# Activ8 Digital PIR Detection Specifications

SPECIFICATIONS	ACTIV8 PIR	ACTIV8 QP	ACTIV8 DT	ACTIV8 DT-AM	
Detection Method	Quad Element PIR	Quad Element PIR	Quad Element PIR 10.687 GHz Doppler Microwave	Quad Element PIR Doppler Microwave Anti Mask	
Channels	Single Channel	Dual Channel			
Operating Voltage Range	7.8 - 16V DC				
Current Consumption (at 12V)	8ma	8ma	19ma	19ma	
Tamper Switch	N/C Contact, Opens on Cover Removal, 28V DC 0.1A (Maximum)				
Alarm Output(s)	1 x N/C			2 x N/C	
Detection Speed	0.15 - 3.6m/sec				
Pulse Count	Adjustable Pulse Count via Internal Jumpers / DIP Switch – 1-Auto				
Sensitivity Adjustment	PIR Sensitivity		PIR Sensitivity Microwave Range		
Alarm Period	2 Seconds				
LED Indication	Red LED - On during alarm		PIR LED, Microwave/BG LED, Alarm LED		
Warm-up Period	60s (± 10s)				
Temperature Compensation	Yes - No False Alarm (Temperature change 1°C per minute from 25°C to 40°C)				
Operating Temperature	-20 to +60°C		-20 to +50°C		
Environmental Humidity	95% Non-Condensing				
RFI Protection	30V/m 10-1000MHz				
EMI Protection	50,000V				
Pet Immunity (Kg)	Selectable 15Kg or 25Kg				
PIR Dimensions h x w x d (mm)	90 x 59 x 37		121 x 60 x 37		
Weight (g)	40		120		
Carton Dimensions h x w x d (mm)	91 x 61 x 40		122 x 61 x 40		
Packed Weight (g)	45		125		
Image Pickup					
TV System					
Camera Pixel Resolution					
Number of TV Lines					
Minimum Illumination					
Video Output					
Electronic Shutter Speed					
Power Supply					
Lens					
Audio Output Level					
Audio Frequency Response					
Mounting Height	1.8 - 2.4m				
Physical Mounting	Corner/wall mounted. Optional dual-purpose Ceiling/Wall Mounting Bracket available separately (Part No. 8IR150)				
Colour	Matt White (RAL 9003)				
Coverage	18m x 18m, 89.4°		15m x 15m, 89.4°		
Part Number	8IR100	8IR105	8IR110	8IR140	

	ACTIV8 BG	ACTIV8 MONO	ACTIV8 COLOUR	ACTIV8 360°	ACTIV8 CURTAIN
	Quad Element PIR Glass Break Glass and Shock	Quad Element PIR Mono Pinhole Camera	Quad Element PIR Colour Pinhole Camera	Quad Element PIR 360° PIR	Dual Element Mirror Curtain PIR
		Single Channel		Dual Channel	
	17ma	115ma	135ma	9ma	7ma
		1 x N/C, 1 x N/O		1 x N/C	
	PIR Sensitivity Glass/Shock Sensitivity	PIR Sensitivity			
		Red LED - On during alarm		20s (± 5s)	
				-20 to +60°C	
				110 (d) x 45 (h)	70 x 35 x 36
	110	130	130	118	25
		122 x 61 x 75		112 x 112 x 47	71 x 36 x 38
	115	135		123	27
		1/3" CCD			
		PAL	CCIR		
		500 (H) x 582 (V)			
		380	420		
		0.5 Lux. F2.0	0.5 Lux. F1.2		
		1.0V ptp, 75 Ohm			
		1/50 - 1/100,000 sec			
		12V DC			
		4.3mm (CON)			
		1V ptp, 600 Ohm			
		20Hz to 20kHz			
				3m	2m
		Complete with Ceiling/Wall Mounting Bracket		Ceiling mounted	Ceiling/wall mounted
		18m x 18m, 89.4°		20m radius, 360° at 3.6m height	8m curtain 8m x 1m coverage
	8IR115	8IR120	8IR125	8IR135	8IR130



## ADE



Novar ED&S Ltd The Arnold Centre Paycocke Road Basildon Essex SS14 3EA United Kingdom		Website <a href="http://www.ade.co.uk">www.ade.co.uk</a>
Customer Service Tel 01268 563000	Customer Service Fax 01268 563563	Literature Helpline 0870 240 3387
Email <a href="mailto:ade_orderenquiries@novar.com">ade_orderenquiries@novar.com</a> or <a href="mailto:ade_technical@novar.com">ade_technical@novar.com</a>		Technical Helpline 01268 563247
Registered office: Novar House 24 Queens Road Weybridge Surrey KT13 9UX Registered No. 189291		Literature Ref: ADE-ACT8/04-04-01



**III Response III**

Novar Intelligent Building Systems offers a uniquely comprehensive range of solutions for specifiers and installers of fire, security, building management, datacoms and electrical installation products and is equipped to provide a single source solution for all your requirements