Orisec

AAI SECURITY SYSTEMS

50 & 100 Series Detectors

Highly accurate detection performance with no compromise to false alarms. Multi-height optics allow mounting anywhere between 1.8m and 3.1m, with a coverage range of 15m. Standard PIR, Quad and Pet Friendly versions available. Grade 2.

200 Series Detectors

Digital signal processing provides superior detection performance and improved false alarm immunity. Interchangeable cartridges enable easy upgrading across the range. Standard PIR, Quad, Dual Technology and Pet Friendly versions available. Grade 2 and Grade 3 versions available.

300 Series Detectors

Anti-masking technology and additional wall tamper for heightened security. The superior choice for high-end residential and commercial installations. Anti-masking standard PIR, Quad, and Dual Technology versions available. Grade 3.

50 & 100 Series Detectors

Connectivity	WIRED	WIRED	WIRED	WIRED	WIRELESS	WIRELESS	WIRELESS
Product Name	IR-50	IR-100	QD-100	IR-100-PET	W-IR-100	W-QD-100	W-IR-100-PET
Description	Compact PIR	Compact PIR	Compact Quad PIR	Compact Pet Friendly PIR	Compact Wireless PIR	Compact Wireless Quad PIR	Compact Wireless Pet Friendly PIR
Detection Technology	PIR	PIR	Genuine Quad Element Pyro	35kg Pet Friendly PIR	PIR	Genuine Quad Element Pyro	35kg Pet Friendly PIR
Colours Available	White	White & Black	White	White & Black	White & Black	White	White
Slide to Fit Front Cover	✓	✓	✓	✓	✓	✓	✓
RFI Immunity up to 2.7GHz	✓	✓	✓	✓	✓	✓	✓
Optics	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed
Detection Areas	68	68	136	68	68	136	68
True Creep Zones	✓	✓	✓	✓	✓	✓	✓
Range	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°
Mounting Height	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	2.0m to 2.2m	1.8m to 3.1m	1.8m to 3.1m	2.0m to 2.2m
Selectable Built in EOL Resistors	-	✓	✓	✓	-	-	-
Remote LED Control	-	✓	✓	✓	✓	✓	✓
Pulse Count	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2
Temperature Compensation	✓	✓	✓	✓	✓	✓	✓
Tamper Detection Options	Lid	Lid	Lid	Lid	Lid & Wall	Lid & Wall	Lid & Wall
Ceiling/Wall Bracket Option	✓	✓	✓	✓	✓	✓	✓
Advanced Signal Processing	✓	✓	✓	✓	✓	✓	✓
Battery	-	-	-	-	CR123A 3V Lithium	CR123A 3V Lithium	CR123A 3V Lithium
Average Battery Life	-	-	-	-	> 2 Years	> 2 Years	> 2 Years
True Battery Reading	-	-	-	-	✓	✓	✓
Frequencies	-	-	-	-	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz
Digital Thermometer	-	-	-	-	✓	✓	✓
Frequency Hopping Technology	-	-	-	-	✓	✓	✓
Simple Enrolment	-	-	-	-	✓	✓	✓
2 Way Wireless Communications	-	-	-	-	✓	✓	✓
Dimensions (hwd)	97 x 60 x 40mm	97 x 60 x 40mm	97 x 60 x 40mm	97 x 60 x 40mm	97 x 60 x 40mm	97 x 60 x 40mm	97 x 60 x 40mm
Interchangeable Cartridges	-	-	-	-	-	-	-
Typical Wireless Range	-	-	-	-	> 150m Line of Sight	> 150m Line of Sight	> 150m Line of Sight
EN 50131-2-x	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2

200 Series Detectors

Connectivity	WIRED	WIRED	WIRED	WIRED	WIRED	WIRED	WIRED	WIRED
Product Name	IR-200	IR-200-PET	QD-200	TP-200	DT-200	DT-200-PET	DT-200-AC	IR-200-AM
Description	PIR	Pet Friendly PIR	Quad PIR	Twin PIR	Dual Technology PIR & MW	Pet Friendly Dual Technology	Dual Technology with Anti-Cloak Technology	Anti-Masking PIR
Detection Technology	PIR	35kg Pet Friendly PIR	Genuine Quad Element Pyro	Twin PIR	Dual Technology Combined Microwave (24GHz) / PIR	35kg Pet Friendly Dual Technology Microwave (24GHz) / PIR	Anti-Cloak Detection Dual Technology Microwave (24GHz) / PIR	Active IR Anti-Mask PIR
Slide to Fit Front Cover	✓	✓	✓	✓	✓	✓	✓	✓
RFI Immunity up to 2.7GHz	✓	✓	✓	✓	✓	✓	✓	✓
Optics	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed
Detection Areas	68	68	136	136	68	68	68	68
True Creep Zones	✓	✓	✓	✓	✓	✓	✓	✓
Range	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°
Mounting Height	1.8m to 3.1m	2.0m to 2.2m	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	2.0m to 2.2m	1.8m to 3.1m	1.8m to 3.1m
Selectable Built in EOL Resistors	✓	✓	✓	✓	✓	✓	✓	✓
Remote LED Control	✓	✓	✓	✓	✓	✓	✓	✓
Pulse Count	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2 or 3	Digital, 1 or 2	Digital, 1 or 2
Temperature Compensation	✓	✓	✓	✓	✓	✓	✓	✓
Tamper Detection	Lid & Wall	Lid & Wall	Lid & Wall	Lid & Wall	Lid & Wall	Lid & Wall	Lid & Wall	Lid & Wall
Ceiling/Wall Bracket Option	✓	-	✓	✓	✓	-	✓	✓
Advanced Signal Processing	✓	✓	✓	✓	✓	✓	✓	✓
Microwave Frequency	-	-	-	-	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	-
Anti-Masking	-	-	-	-	-	-	-	Active IR
Microwave Enable/Disable	-	-	-	-	✓	✓	✓	-
Dimensions (hwd)	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm
Interchangeable Cartridges	✓	✓	✓	✓	✓	✓	✓	✓
EN 50131-2-x	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2	Grade 3

200 Series Detectors

Connectivity	WIRED	WIRED	WIRELESS	WIRELESS	WIRELESS	WIRELESS	WIRELESS
Product Name	QD-200-AM	DT-200-AM	W-IR-200	W-IR-200R	W-IR-200-PET	W-QD-200	W-QD-200R
Description	Anti-Masking Quad PIR	Anti-Masking Dual Technology	Wireless PIR	Wireless PIR	Wireless Pet Friendly PIR	Wireless Quad PIR	Wireless Quad PIR
Detection Technology	Active IR Anti-Mask Genuine Quad Element Pyro	Active IR Anti-Mask Dual Technology Microwave (24GHz) / PIR	PIR	PIR	35kg Pet Friendly PIR	Genuine Quad Element Pyro	Genuine Quad Element Pyro
Slide to Fit Front Cover	✓	✓	✓	✓	✓	✓	✓
RFI Immunity up to 2.7GHz	✓	✓	✓	✓	✓	✓	✓
Optics	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed
Detection Areas	136	68	68	68	68	136	136
True Creep Zones	✓	✓	✓	✓	✓	✓	✓
Range	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°
Mounting Height	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	2.0m to 2.2m	1.8m to 3.1m	1.8m to 3.1m
Selectable Built in EOL Resistors	✓	✓	-	-	-	-	-
Remote LED Control	✓	✓	✓ Panel	✓ Panel	✓ Panel	✓ Panel	✓ Panel
Pulse Count	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2
Temperature Compensation	✓	✓	✓	✓	✓	✓	✓
Tamper Detection Options	Lid & Wall	Lid & Wall	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket
Ceiling/Wall Bracket Option	✓	✓	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)
Advanced Signal Processing	✓	✓	✓	✓	✓	✓	✓
Microwave Frequency	-	K-Band, 24.15-24.25 GHz	-	-	-	-	-
Anti-Masking	Active IR	Active IR	-	-	-	-	-
Self-Test	✓ Local & Remote	✓ Local & Remote	-	-	-	-	-
Wireless Repeater if Powered from 12V	-	-	-	✓	-	-	✓
Battery	-	-	CR123A 3V Lithium	CR123A 3V Lithium	CR123A 3V Lithium	CR123A 3V Lithium	CR123A 3V Lithium
Average Battery Life	-	-	> 2 Years	> 2 Years	> 2 Years	> 2 Years	> 2 Years
True Battery Reading	-	-	✓	✓	✓	✓	✓
Frequencies	-	-	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz
Digital Thermometer	-	-	✓	✓	✓	✓	✓
Frequency Hopping Technology	-	-	✓	✓	✓	✓	✓
Simple Enrolment	-	-	✓	✓	✓	✓	✓
2 Way Wireless Communications	-	-	✓	✓	✓	✓	✓
Dimensions (hwd)	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm	118 x 60 x 40mm
Interchangeable Cartridges	✓	✓	✓	✓	✓	✓	✓
Typical Wireless Range	-	-	> 150m Line of Sight	> 150m Line of Sight	> 150m Line of Sight	> 150m Line of Sight	> 150m Line of Sight
EN 50131-2-x	Grade 3	Grade 3	Grade 2	Grade 2	Grade 2	Grade 2	Grade 2

300 Series Detectors

Connectivity	WIRED	WIRED	WIRED	WIRELESS	WIRELESS	WIRED
Product Name	IR-300-AM	QD-300-AM	DT-300-AM	W-DT-300	W-DT-300-PET	SQ-300-AM
Description	Anti-Masking PIR	Anti-Masking Quad PIR	Anti-Masking Dual Technology	Wireless Dual Technology PIR & Microwave	Wireless Dual Technology PIR & Microwave	Sequential Confirmation* Dual Technology Anti-Masking
Detection Technology	Active IR Anti-Mask PIR	Active IR Anti-Mask Genuine Quad Element Pyro	Active IR Anti-Mask Dual Technology	Dual Technology Combined Microwave (24GHz) / PIR	35kg Pet Friendly Dual Technology Combined Microwave (24GHz) / PIR	Active IR Anti-Mask Dual Technology + PIR
Slide to Fit Front Cover	✓	✓	✓	✓	✓	✓
RFI Immunity up to 2.7GHz	✓	✓	✓	✓	✓	✓
Optics	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed	Multi Height Spherical Sealed
Detection Areas	68	136	68	68	68	68
True Creep Zones	✓	✓	✓	✓	✓	✓
Range	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°	15m x 90°
Mounting Height	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	1.8m to 3.1m	2.0m to 2.2m	1.8m to 3.1m
Selectable Built in EOL Resistors	✓	✓	✓	-	-	✓
Remote LED Control	✓	✓	✓	✓ Panel	✓ Panel	✓
Pulse Count	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2
Temperature Compensation	✓	✓	✓	✓	✓	✓
Tamper Detection Options	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket	Lid, Wall & Bracket
Ceiling/Wall Bracket Option	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)	✓ (DB-G3)
Advanced Signal Processing	✓	✓	✓	✓	✓	✓
Microwave Frequency	-	-	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz
Microwave Enable/Disable	-	-	✓	✓	✓	-
Anti-Masking	Active IR	Active IR	Active IR	-	-	Active IR
Self Test	✓ Local & Remote	✓ Local & Remote	✓ Local & Remote	-	-	✓ Local & Remote
Battery	-	-	-	CR123A 3V Lithium	CR123A 3V Lithium	-
Average Battery Life	-	-	-	> 2 Years	> 2 Years	-
True Battery Reading	-	-	-	✓	✓	-
Frequencies	-	-	-	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz	-
Digital Thermometer	-	-	-	✓	✓	-
Frequency Hopping Technology	-	-	-	✓	✓	-
Simple Enrolment	-	-	-	✓	✓	-
2 Way Wireless Communications	-	-	-	✓	✓	-
Dimensions (hwd)	132 x 64 x 40mm	132 x 64 x 40mm	132 x 64 x 40mm	132 x 64 x 40mm	132 x 64 x 40mm	175 x 67 x 46mm
Interchangeable Cartridges	✓	✓	✓	✓	✓	-
Typical Wireless Range	-	-	-	> 150m Line of Sight	> 150m Line of Sight	-
EN 50131-2-x	Grade 3	Grade 3	Grade 3	Grade 2	Grade 2	Grade 3

Ceiling Mount Detectors

Connectivity	WIRED	WIRED	WIRED	WIRED	WIRELESS	WIRELESS
Product Name	QD-360	DT-360	DT-360-AM	DT-360-AC	W-QD-360	W-DT-360
Description	360 Ceiling Mount Quad (PIR)	360 Ceiling Mount Quad (PIR) + Dual Technology	Anti-Masking 360 Ceiling Mount Quad (PIR) + Dual Technology	Anti-Cloak 360 Ceiling Mount Quad PIR + Dual Technology	Wireless 360 Ceiling Mount Quad (PIR)	Wireless 360 Ceiling Mount Quad (PIR) + Dual Technology
Detection Technology	Omni Directional Quad PIR	Dual Technology Combined Microwave (24GHz) / Quad PIR	Active IR Anti-Mask Dual Technology Combined Microwave (24GHz) / Quad PIR	Dual Technology Combined Microwave (24GHz) / Quad PIR	Omni Directional Quad PIR	Omni Directional Quad PIR + Dual Technology Combined Microwave (24GHz)
RFI Immunity up to 2.7GHz	✓	✓	✓	✓	✓	✓
Optics	Free-Form Frensel Lens	Free-Form Frensel Lens	Free-Form Frensel Lens	Free-Form Frensel Lens	Free-Form Frensel Lens	Free-Form Frensel Lens
Detection Areas	124	124	124	124	124	124
Range	Up to 10m Diameter (at 4.0m Mounting)	Up to 10m Diameter (at 4.0m Mounting)	Up to 10m Diameter (at 4.0m Mounting)	Up to 10m Diameter (at 4.0m Mounting)	Up to 10m Diameter (at 4.0m Mounting)	Up to 10m Diameter (at 4.0m Mounting)
Mounting Height	2.4m to 4.0m	2.4m to 4.0m	2.4m to 4.0m	2.4m to 4.0m	2.4m to 4.0m	2.4m to 4.0m
Selectable Built in EOL Resistors	✓	✓	✓	✓	-	-
Remote LED Control	✓	✓	✓	✓	✓ Panel	✓ Panel
Pulse Count	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2	Digital, 1 or 2
Temperature Compensation	✓	✓	✓	✓	✓	✓
Tamper Detection Options	Lid & Ceiling	Lid & Ceiling	Lid & Ceiling	Lid & Ceiling	Lid & Ceiling	Lid & Ceiling
Advanced Signal Processing	✓	✓	✓	✓	✓	✓
Microwave Frequency	-	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	K-Band, 24.15-24.25 GHz	-	K-Band, 24.15-24.25 GHz
Microwave Enable/Disable	-	✓	✓	✓	✓ Panel	✓ Panel
Anti-Masking	-	-	Active IR	-	-	-
Self Test	-	-	✓ Local & Remote	-	-	-
Battery	-	-	-	-	CR123A 3V Lithium	CR123A 3V Lithium
Average Battery Life	-	-	-	-	> 2 Years	> 2 Years
True Battery Reading	-	-	-	-	✓	✓
Frequencies	-	-	-	-	868.65MHz & 869.15MHz	868.65MHz & 869.15MHz
Digital Thermometer	-	-	-	-	✓	✓
Frequency Hopping Technology	-	-	-	-	✓	✓
Simple Enrolment	-	-	-	-	✓	✓
2 Way Wireless Communications	-	-	-	-	✓	✓
Dimensions (hwd)	108 x 108 x 31mm	108 x 108 x 31mm	108 x 108 x 31mm	108 x 108 x 31mm	108 x 108 x 31mm	108 x 108 x 31mm
Typical Wireless Range	-	-	-	-	> 150m Line of Sight	> 150m Line of Sight
EN 50131-2-x	Grade 2	Grade 2	Grade 3	Grade 2	Grade 2	Grade 2