

# Infrared Motion Sensor

## MOTION DETECTORS

Model No.: DDT7306



### Features:

Fully protected 4 beams MW (microwave) head + dual-element infrared (DDT-7306) Fully protected 4 beams MW (microwave) head + dual-element infrared +fuzzy logic analysis (DDT-7306ATC) The MW transmission adopts the most advanced plane Antenna FET oscillator. Its fully-protected structure admits it to operate in any severe environment. Omni-bearing automatic temperature compensation. Super capability of resistance to intermittent alarm. 44 high density far transmitting region with down viewing, elimination of detection blind angle. Adoption of Doppler effect + energy analysis The use of double-layer screen techniques resists to various radiation interference effectively Integrated LED display Optional single mode alarm

### Technical Specification:

Model	DDT-7306
Detecting Distance	18m*18m
Installation method/height	Hanging/1.8-3m
Detection method	Doppler floating (MW) PIR
Detection speed	0.2-7m/s
Frequency of MW (GHz)	10.687 G
Tamper switch	NC 50mA/24VDC
Alarm output	NC500mA/30VDC
Operating voltage/currency	7.5-16VDC/static25mA alarm20mA
Operating temperature/humidity	-25°C --+65°C /relevant humidity over 95%
Anti EMI	> 30v/m 10MHz---1000MHz
Anti- light interference	> 8000LUX
Physical appearance & dimension	119*71*42mm

Model No.: DDT-7360



### Features:

Cavity MW head+ Dual Infrared Beams The MW adopts stable cavity shape, which is with high stability and long life. Unique digital filter circuit with strong capability of resistance to interference. 44 high density far transmitting region belts, effective elimination of detection blind angle Adoption of Doppler effect + energy analysis Multi layers flexibility adjustment admits it to operate in various situation. The use of multi-layer screen techniques resists to various radiation interference effectively Crust and ceiling tamper switch Detecting scale: diameter18m, 360°

### Technical Specification:

Model	DDT-7360
Detecting Distance	Diameter 18m
Installation method	Top absorption style
Installation height	2.4m height, 9m diameter region; 4.5m height, 18m diameter region
Tamper switch	NC 100mA/30VDC
Alarm output	NC100mA/30VDC
Operating voltage	7.5-16VDC
Operating currency	Static25mA alarm20mA
Operating temperature/humidity	-25°C + 65°C/ 5%- 95%RH (relevant humidity)
Anti EMI	> 30v/m 10MHz---1000MHz
Anti- light interference	> 8000LUX
Physical appearance & dimension	172*172*60.5mm

Model No.:DDT15



### Features:

Dual PYRO sensor, hard lens detecting efficiency and wrong alarm elimination MW detection based on Doppler style MW detecting module group with fine-tuning antenna VLSI electronic circuit with revolving speed spectrum analysis Free calibration of installation height With ?° AND?± & ?° OR?± two alarm functions \* Inter-microwave and PIR flexibility adjustable BI style temperature compensation Detecting scale: 18m\*18m

### Technical Specification:

Model	DDT-15
Detection distance	18m*18m
Installation way	Wall-hanging
Sensor	Low noise, high flexibility dual beams rectangle infrared
MW frequency	2.45GHz
MW output	Min+5dBm IERP
Tamper switch	NC., cover detached , open circuit,0.10A 28VDC
Alarm output	NC.,0.10A 28VDC
Detecting speed	0.2m/s-3.5m/s
Operation voltage	8.2-16VDC
Flexibility	Grade 2, adjustable
Operation temperature	-20°C --+50°C
Operation humidity	5%-95%RH(relevant humidity)
Alarm period	2+/-1sec
Anti-visible light	Halogen direct ray and reflex from 2.4m without interference
Anti-RFI	30v/m (10MHz-1000MHz)
Anti-EMI	50000V
MW harmonic emission	-20dBm

Model No.:DDT235M



### Features:

Advanced "true motion recognition" technology, which can recognize the intruder from other interfering factors Up-to-date optical circuit design - column lens, super sensitivity Full-ranged automatic temperature compensation, super wrong alarm resistance Innovative appearance design, European and America up-to-date popular style Different colors for option (coral red, sea blue, dark green, cyan, classic white)

### Technical Specification:

Model	DDT-235M DDT-235DMF DDT-235DMT
Detection distance	12m*12m 12m*12m 12m*12m
Sensor	Low noise, high sensitivity, Anti-RFI/EMI Dual-E PIR
Intelligent mode	DMF DMT
MW frequency	Non-MW Non-MW Non-MW
Detecting speed	0.2m/s-3.5m/s
Sensitivity	Self-adaption of frequency tracing
Alarm-output NC	Contact rating AV/DC 28V/0.2mA
Supply& current	9-15V/ DC 30mA
Temp & humidity	-30° C-70° C 5%-95% (RH)
PIR zones	9+5=14 9+5=14
Installation height	1.8m-2.4m
Installation way	Wall-mounting
Tamper output NC	Contact rating AV/DC 28V/0.2mA
Pet immunity	15Kg 25Kg 25Kg
Anti-white light	>=8000LUX
Anti-RFI/EMI	10V/m(10MHz-100MHz)
Apply range	Indoor
relay	Solid state relay

# Infrared Motion Sensor

## MOTION DETECTORS

Model No.: DDT-220T/TC



CE

### Features:

Passive Infrared & Microwave, MCU  
Self adaptive detecting technique can eliminate interferences factors.  
Professional Fresnel lens made of optical materials are used, which is with high flexibility and stable function.  
Patent "visual area molding technique" improves the favorable matching between microwave and infrared visual area.  
Fully protected insects resisting beam system  
Novel and practical walking test mode, MW & PIR can be tested separately  
Accessories: twist installation bracket, (SMB-10), Lens groupware for choice, plane installation groupware.

### Technical Specification:

Model	DDT-220T/TC
Detecting Distance	18m*18m
Installation method/height	Hanging/1.8-3m
Detection method	Doppler floating (MW) PIR
Detection speed	0.2-7m/s
Frequency of MW (GHz)	10.687 G
Tamper switch	NC. 50mA/24VDC
Alarm output	NC500mA/30VDC
Operating voltage/currency	7.5-16VDC/static25mA alarm20mA
Operating temperature/humidity	-25°C ~+65°C /relevant humidity over 95%
Anti EMI	> 30v/m 10MHz---1000MHz
Anti- light interference	> 8000LUX
Physical appearance & dimension	119*71*42mm

Model No.: DDT-700



CE

### Features:

Cavity MW head+ Dual Infrared Beams  
The MW adopts stable cavity shape, which is with high stability and long life.  
Unique digital filter circuit with strong capability of resistance to interference.  
44 high density far transmitting region belts, effective elimination of detection blind angle  
Adoption of Doppler effect + energy analysis  
Multi layers flexibility adjustment admits it to operate in various situation.  
The use of multi-layer screen techniques resists to various radiation interference effectively  
Crust and ceiling tamper switch  
Detecting scale: diameter18m, 360°

### Technical Specification:

Model	DDT-700
Detecting Distance	Diameter 18m
Installation method	Top absorption style
Installation height	2.4m height, 9m diameter region; 4.5m height, 18m diameter region
Tamper switch	NC.100mA/30VDC
Alarm output	NC100mA/30VDC
Operating voltage	7.5-16VDC
Operating currency	Static25mA alarm20mA
Operating temperature/humidity	-25C ~+65C/ 5%-95%RH (relevant humidity)
Anti EMI	> 30v/m 10MHz---1000MHz
Anti- light interference	> 8000LUX
Physical appearance & dimension	172*172*60.5mm

Model No.:DDT-7300



CE

### Features:

Adopts self-designed DSP chip with TMD (True Motion Recognition) technology  
Dual PIR + Quadruple MW + Intelligence  
Doppler effects + energy analysis.  
Adopts advanced "true motion tracing and recognition" technology.  
Pet immunity below 30kg  
Its automatic temperature compensation strengthens its prevention to wrong alarm  
Multi grades sensitivity adjustable  
Professional lens for UV resistance.  
Big or small pets can be resisted; fit for different environment

### Technical Specification:

Model	DDT-7300
Detecting Distance	18m*18m 18m*18m 18m*18m
Sensor	Low noise, high sensitivity, Anti-RFI/EMI Dual-E PIR
Intelligent mode	DMF DMT
MW frequency	10.525/10.687GHz
Detecting speed	0.2m/s-3.5m/s
Sensitivity	Self-adaption of frequency tracing
Alarm output	NC Contact rating AV/DC 28V/0.2mA
Supply & Current	9-15V/DC 30mA
Temp & humidity	-30°C-70°C 5%-95% (RH)
PIR zones	> 30v/m 10MHz---1000MHz
Anti- light	interference 44 or 38
Installation height	1.8m-2.5m
Installation way	Wall-mounting
Tamper output	NC Contact rating AV/DC 28V/0.2mA
Pet immunity	20Kg 20Kg
Anti-white light	>=8000LUX
Anti-RFI/EMI	30V/m(10MHz---100MHz)
Apply range	Indoor
Relay	Solid state relay

Model No.:DDT-85



CE

### Features:

Digital DDT-85 is also very dependable when used outdoor with its particular severe-weather-protecting design and anti-pets function after technical test.  
Reliable function of resistance to wrong alarm  
Dual optical filter system  
Protecting lens anti-UV  
Remarkable anti-small animals function (Max: 40kg/ 90Lbs)  
Digital dual contra-positional detection  
Multi-layered flexibility adjustment Instruction: size: 748KB  
Double optical equipments(2 pairs of contra-positional elements sensors)  
Dual operation mode(Digital RPE-LPT siting & digital RPE-LPT NE siting or groovy relay operation)  
Detection scale:11m(35ft)\*11m(35ft):90° viewing angle

### Technical Specification:

Model	DDT-85
Detection distance	11m*11m
Installation way	Wall-hanging
Sensor	Low noise, high flexibility dual beams rectangle infrared * 2
Installation height	2.0-2.7m
Tamper switch	N.C., cover detached, open circuit, 0.10A 28VDC
Alarm output	N.C., 0.15A 28VDC
Detecting speed	0.2m/s-3.5m/s
Operation voltage	9-16VDC
Flexibility	Grade 2, adjustable
Operating temperature	-25°C ~+65°C
Operating humidity	5%-95%RH (relevant humidity)
Region	(12+12+12+12+6+1)=55
Anti-visible light	> 10000LUX
Anti-RFI/EMI	10v/m (10MHz-1000MHz)
Dimension	175*83*70mm (W*H*D)

# Infrared Motion Sensor

Model No.: DDT86



CE

**Features:**

Wire and wireless compatible  
 Multi grades sensitivity adjustable  
 Its K-Band technology can prevent wrong alarm better and increase the sensitivity.  
 Adopts self-designed DSP chip with DMF (Digital Matrixing Focus) technology.  
 Dual PIR + MW + Intelligent  
 Professional lens with UV resistance  
 Adopts parabola viewfinder, distance and angle can be adjusted flexibly, which has matched the sensitivity far and near.  
 Remarkable small animals immunity below 30kg  
 Self-adaption style detection doorsill technology, effective clearance of external interference  
 Motion intrusion direction selectable, can recognize the master from the illegal intruder

**Technical Specification:**

Model	DDT86
Detection distance	12m*12m 12m*12m 12m*12m
Sensor	Low noise, high sensitivity, Anti-RFI/EMI Dual-E PIR
Intelligent mode	DMF DMT
MW frequency	10.525GHz 10.525GHz 10.525GHz
Detecting speed	0.2m/s-3.5m/s
Sensitivity	Self-adaption of frequency tracing
Alarm-output	NC Contact rating AV/DC 30V/0.1mA
Supply & current	7.5-15V/DC 30mA
Temp & humidity	-30° C-70° C 5%-95% (RH)
PIR zones	9+5+3=17
Installation height	1.8m-2.4m
Installation way	Top-mounting
Tamper output	NC Contact rating AV/DC 28V/0.2mA
Pet immunity	20Kg 30Kg
Anti-white light	>=8000LUX
Anti-RFI/EMI	20V/m(10MHz-100MHz)
Apply range	Indoor
relay	Solid state relay

Model No.: DG55



CE

**Features:**

Dual element sensor  
 12m (40ft) X 12m (40ft); 110° viewing angle

Model No.:DG65



CE

**Features:**

Digital Dual Opposed Detection  
 Interlock Sensor Geometry  
 Quad element sensor  
 12m (40ft) X 12m (40ft); 110° viewing angle  
 12m (40ft) X 12m (40ft); 110° viewing angle

Model No. :DG73



CE

**Features:**

Extremely reliable and false-alarm free  
 Dual optics (2 dual opposed element sensors)  
 Provides superior pet immunity using a patented combination of advanced optics and digital processing technologies  
 Immune to pets weighing up to 40kg (90lbs)  
 Digital Dual Opposed Detection  
 11m (35ft) X 11m (35ft); 90° viewing angle

# Infrared Motion Sensor

Model No.: DG85



**Features:**

The Digigard DG85 combines a special weatherproof design and the proven technology of our Digigard High-Security Motion Detector with Pet Immunity (DG75) to provide the same reliable protection--outdoors. Impact and temperature resistant casing(-35°C to 50°C / -31°F to 122°F)  
Extremely reliable and false-alarm free  
Dual Optical Filtering System  
UV protected lens  
Patented Animal Immunity (up to 40kg/90lbs)  
Dual optics (2 dual opposed element sensors)  
Digital Dual Opposed Detection  
Multi-level sensitivity adjustment  
Two operational modes (addressable for DigiPlex and DigiPlexNE or conventional relay operation)  
11m (35ft) X 11m (35ft); 90° viewing angle

Model No.: DG55



**Features:**

Digital microwave detection  
Once the PIR validates that a signal meets alarm conditions, Digital Vision uses microwave signals to confirm the results before generating an alarm  
Adjustable microwave range  
14m (45ft) X 14m (45ft); 90° viewing angle

Model No.:476+



**Features:**

Extremely high EMI and RFI rejection  
PCB uses only surface mount components  
Solid-state relay  
11m (35ft) X 11m (35ft); 110° viewing angle

Model No.:460



**Features:**

Adjustable lens position (0° or 10°)  
Selectable operational voltage (12Vdc or 24Vdc)  
Adjustable alarm signal duration  
Detects hand-sized objects for card access applications: 2m X 1.5m (7ft X 5ft)  
Detects body-sized objects for security applications: 6m X 4.5m (20ft X 15ft)

# Infrared Motion Sensor

Model No.: DG465



**Features:**

7m X 6m (24ft X 20ft) at 2.4m (8ft)  
10.7m X 6m (35ft X 20ft) at 3.7m (12ft)  
360° viewing angle

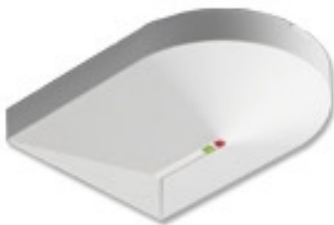
Model No.: DG466



**Features:**

The Paradome DG466 differentiates between incoming and outgoing movements, which is ideal for protecting open balconies and patio doors.  
Two dual element sensors (determine if movement is incoming or outgoing)  
One incoming detection relay output  
One outgoing detection relay output  
Adjustable return delay timer (exit and reenter without causing an alarm)  
Patented Digital Detection  
67cm (2.2ft) X 4.8m (16ft) and 60cm (2ft) X 4.8m (16ft)

Model No.:456



**Features:**

Full audio and infrasonic spectrum analysis  
7 frequency digital filters, digital amplifier gain and frequency fluctuation assessment  
Impact and shock wave analysis  
High-immunity to RFI and EMI signals  
Adjustable sensitivity: covers up to 9m (30ft) when set to high and up to 4.5m (15ft) when set to low  
TestTrek (459) used for testing available separately  
Anti-tamper switch

Model No.:950



**Features:**

High-sensitivity piezoelectric element  
Five sensitivity settings  
2.5m (8ft) protection range  
Anti-tamper switch

# Infrared Motion Sensor

Model No.: 469



**Features:**

3 in 1: ceiling, wall or corner mount bracket  
Ensures optimal coverage

Model No.: 461



**Features:**

The 461 is the smallest and most elegant digital curtain-pattern PIR detector using advanced digital True Motion Detection Technology. Once motion signal is received, it compares and analyses the signal with the true motion signal in database memory and ignores extraneous noises in order to eliminate false alarm. Detailed coverage patterns and mounting alternatives are given in Figures 2 through 6 below.

Suitable for protection of window, door, balcony and ceiling  
Vertical or horizontal protection  
Microprocessor controlled  
True Motion Detection Technology  
Adjustable range 2-6m  
Fire resistance casing

**Technical Specification:**

Model	461
Sensor	Low noise high sensitivity dual element rectangular PIR sensor
Sensing Speed	0.2-6m/second
Operating Temperature	-10°C to 50°C
Power Source	DC10-16V, 12.5mA
Lens	Fresnel vertical protection lens
Protection Range	Distance: 2m, 4m, 6m selectable
Mounting Height	Height: 3.6m Max 3.6m
Mounting	Wall mount or ceiling mount
RFI Protection	Anti.RFI > 20V/m to 1000MHz
Alarm Indication	Red LED on
Alarm Period	3 seconds
Alarm Output	Normal close, 20 ohm internal
Tamper Protection	resistance, 24Vdc 0.1A Normal close, open circuit when cover is removed, contact 0.1A, 24Vdc
Weight	30g
Dimension	28x70x25mm (WxHxD)

Model No.:DPS-55



**Features:**

Battery powered and no wiring required;  
Preventing false alarm function: it can be set that sense once to emit or sense twice to emit;  
Sense and emit indicator;  
Low-battery indicate: when the battery energy is below 7V, the low-battery LED will flash once a second and remind you replace the battery;  
Possessing power switch.

**Technical Specification:**

DC9V	Power Supply
315MHz or 433MHz	Frequency
30uA	Static Current
110	Sense Angle
0.6-1.5m/s	Sense Motion Speed
-20-+40C	Work Temperature
2m	Installation Height
<30m	Emit Distance
R&TTE	Certificate