

# WatchOUT™ eXtreme

## Reliable Outdoor Detection

Providing reliable intruder detection in outdoor environments is a huge challenge, that has been met above all expectations by the award winning WatchOUT™. Based on market demand, the improved WatchOUT™ eXtreme provides better 24-hour protection against vandalism, with both Active IR Anti-mask and Proximity alerts. This together with RISCO Group's unique outdoor detection technologies - Sway Recognition™ and Digital Correlation™ - take WatchOUT's performance to the extreme.

... Because being No. 1 is a commitment. To Care.



### Highlights

- 4 detection channels: 2 Microwave and 2 PIR
- Coverage: Wide angle: 15m (50') 90°, Long-range: 23m (75') 5°, Barrier: 15m (50') 5°
- Pet friendly up to 70cm (2'4") animal height
- Microwave anti-collision allows back-to-back installation
- Protective hood and IP65 environment rating
- Unique Remote Control and Diagnostics
- Opto relays for defeating large magnets
- **New!** Analytic Anti-mask with both Active IR and Proximity alerts

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G R O U P

Creating Security Solutions.  
*With Care.*

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## WatchOUT™ eXtreme incorporates cutting edge technologies for reliable performance in harsh outdoor environments

### Unique Detection Technologies

WatchOUT eXtreme's selective event recognition is enabled by 4 detection channels



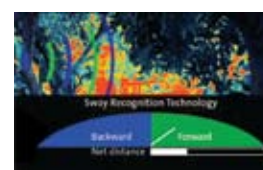
#### Sway Recognition™ Technology

Powered by two Microwave channels

Trend-setting technology that recognizes and excludes objects that sway but do not travel such as bushes, swaying signs, etc.

The two microwave channels distinguish between microwave pulses of approaching and receding targets, thus measuring the target's net travel distance.

Objects that sway but don't travel are cancelled out, and only real intrusion threats are detected.



#### Digital Correlation™ Technology

Powered by two PIR Channels

Digital Correlation™ Technology ensures that only targets that cause similar and correlated signals in both PIR channels are potential threats.

Two independent PIR channels with separate lenses create a vertically interlacing detection pattern, achieving high false alarm immunity even in unstable outdoor environments.

Rapid temperature changes, reflections and pets - which due to their size cannot be in both PIR detection patterns at the same time - are cancelled out.



For more information view the WatchOUT movie at [www.riscogroup.com/Movies.aspx](http://www.riscogroup.com/Movies.aspx)

### 24-Hour Protection against Vandalism

The new WatchOUT™ eXtreme version now provides better 24 hour protection against sabotage and masking



#### Analytic Anti-mask with both Active IR and Proximity alerts

**Active IR Anti-Mask** now detects both masking of the lens itself and bags or rags hung over the hood.



#### Proximity Anti-Sabotage

issues an alert before the detector is damaged or masked. Unique use of both microwave channels identifies approaching individuals - with directional and proximity analysis.



#### Remote Control and Diagnostics

Installing WatchOUT™ on the Bus of ProSYS™ Integrated Security System enables remote parameter setting and advanced diagnostics, from the ProSYS™ keypads or via the upload/ download software.

Parameters such as Detection Sensitivity, MW range, LEDs on/off, etc. can be set remotely. Remote interrogation of WatchOUT™ includes power supply voltage input level, PIR and microwave signal and noise levels.

Up to 128 WatchOUT™ detectors can be installed on the Bus of ProSYS™ Version 7 and above. This advantage simplifies installation and saves on wiring costs, as only 4 wires enable full functionality and serial connection.



## Whatever the application, WatchOUT™ provides the optimal solution

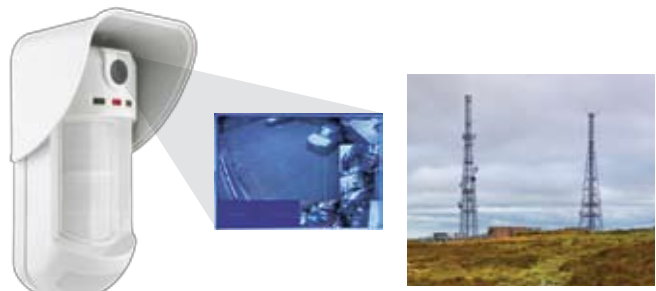
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### WatchOUT™ with Camera

WatchOUT™ detectors enable inclusion of a high-definition camera for viewing the cause of the alarm. Outdoor detector cameras are ideal in applications where budget is limited. It is more cost-effective to install a WatchOUT™ with camera than a separate weatherproof camera.

#### WatchOUT™ is ideal for protecting remote antenna sites

WatchOUT™ is the only outdoor detector that is reliable enough for protecting remote sites in harsh outdoor environments. From WatchOUT™ connected on the ProSYS™ Bus through IP or GSM/GPRS to SynopSYS™ in the Control Room, RISCO Group has the perfect solution.



### Wireless WatchOUT™

Enjoy WatchOUT's benefits without the hassle of wiring!

Wireless WatchOUT™ is the wireless version of WatchOUT™ PIR outdoor detector. It incorporates unique technologies such as Digital Correlation™ Technology for detecting objects that create similar and correlated signals in both PIR channels, and Active IR for Anti-masking, making it the only wireless outdoor detector with anti-mask.

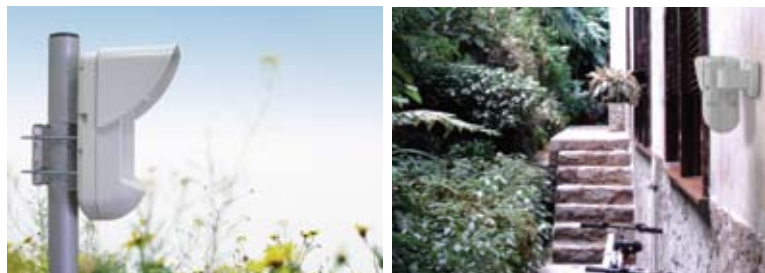
Installing 2-Way Wireless WatchOUT™ with RISCO Group's Agility™ provides the ultimate wireless security solution.



### Installation Flexibility ensures precise coverage

WatchOUT™ detectors offer exceptional installation flexibility, enabling precise coverage of the protected terrain. WatchOUT™ eXtreme is now also much easier to install with the hood attached to the cover for easier access to terminal block wiring, snap on swivel and more.

With the Anti-Collision feature that helps achieve optimal and cost-effective coverage, WatchOUT™ can be installed face-to-face or back-to-back. WatchOUT's flexible installation is also due to the detector's variable mounting height - from 1.0m to 2.7m (3' to 8') - and to the wide range of available swivels: wall swivel, barrier swivel, conduit bracket and pole adaptor bracket.



# WatchOUT™ Specifications

	WatchOUT DT eXtreme	WatchOUT PIR	Wireless WatchOUT
<b>Detection method</b>	Two microwave and two PIR channels	Two PIR channels	Two PIR channels
<b>Wide angle coverage</b>	15m (50ft) 90°	12m (40ft) 90°	12m (40ft) 90°
<b>Long-range coverage</b>	23m (75ft) 5°	23m (75ft) 5°	23m (75ft) 5°
<b>Barrier coverage</b>	15m (50ft) 5°	15m (50ft) 5°	15m (50ft) 5°
<b>RISCO Group System Addressable Bus Detector</b>	✓	✓	-
<b>Digital Correlation™ Technology with 2 PIR channels</b>	✓	✓	✓
<b>Sway Recognition™ Technology with 2 microwave channels</b>	✓	-	-
<b>Active IR Anti-mask</b>	✓ With improved analytics	-	✓
<b>Anti-Sabotage</b>	Directional proximity alert using 2 microwave channels	-	-
<b>Mounting height</b>	1m to 2.7m (3'3" to 8'10") 2.2m (7'2") for Barrier and Long Range lenses		
<b>Pet immunity</b>	Animals up to 70cm (2'4") head height with no weight limitation		
<b>Dirty lens alert</b>	✓	-	-
<b>Day/Night output</b>	-	Form C relay activated via photocell	-
<b>Operating voltage</b>	9-16 VDC		2 X 3VDC Lithium Batteries
<b>Current consumption</b>	45mA typical, 70mA maximum Relay mode at 12V	42mA typical, 65mA maximum Relay mode at 12V	
	30mA typical, 55mA maximum Bus mode at 12V	37mA typical, 61mA maximum Bus mode at 12V	
<b>Alarm contact</b>	NC, 100mA, 24 VDC		-
<b>Tamper contact</b>	NC, 100mA, 24 VDC		-
<b>Mask/Fault contact</b>	NC, 100mA, 24 VDC	-	-
<b>Dirty lens output</b>	70mA open collector	-	-
<b>RF immunity according to EN50130-4</b>	40V/m from 30MHz to 2 GHz		20V/m (80MHz to 2GHz)
<b>Environment rating</b>	IP 65		
<b>Operating temperature</b>	-30°C to 60°C (-22°F to 140°F)		-25°C to 60°C (-13°F to 140°F)
<b>Dimensions including hood (LxWxD)</b>	230mm x 121mm x 123mm (9" x 4.76" x 4.85")		

## Ordering Information

Part Number	Description
WatchOUT 315DT	WatchOUT DT c/w standard swivel and 3 replacement lenses
WatchOUT 312PR	WatchOUT PIR c/w standard swivel and 3 replacement lenses
WL X312	2-Way Wireless WatchOUT c/w standard swivel and 3 replacement lenses
WL T312	Wireless WatchOUT c/w standard swivel and 3 replacement lenses
RA300B	Barrier swivel for installation 90° to the mounting surface
RA300P	Pole adaptor for professional installation on poles
RA300C	Conduit adaptor for installation with wiring external to the wall, when not using the standard swivel
RA300SC	Swivel Metal Conduit for installation with wiring external to the wall, when using the standard swivel
RA300HS	WatchOUT Demo housing & swivel - without electronics; for demo display or "screcrow" installation
WatchOUT VC1	WatchOUT cover with adaptor for WATEC CCD camera (camera not included)

## Coverage Patterns

**Wide-angle lens**

Side view 15m (50')

Top view 90° 15m (50')

12m (40') for PIR and Wireless models

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**Barrier lens**

Top view 15m (50') 5°

Side view 15m (50')

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**Long-range lens**

Top view 23m (75') 5°

Side view 23m (75')

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**Pet immune lens for installations below 1.7m (5'7")**

Side view 15m (50')

12m (40') for PIR and Wireless models



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