

PREDATOR

Predator Ultra Camera Product Range





Predator Radar

An integrated radar controlled, auto tracking and following camera with the power to automatically detect and continually track targets, the Award Winning Predator Radar provides the ultimate in surveillance camera performance.

Designed for short to medium range applications where the detection of objects or individuals is of paramount importance, such as within fenced and unfenced site perimeters, and sterile zones at prisons, borders, airports or military applications, Predator Radar can track up to 40 targets simultaneously up to a range of 400m diameter. Intelligent Time Share alarm handling also ensures that multi-object alarms can be handled proportionally or by priority.

Using industry leading and World Class radar technology, the stand-alone Predator Radar scans 360 degrees twice every second, to detect and track objects, whilst alarms are overlaid on screen. The camera's advanced radar detection is unaffected by weather conditions, so detection and alarm functionality continues even in adverse weather conditions such as rain, fog or snow.



Predator Stainless Steel

The Predator Stainless Steel camera includes all the popular features of the standard Predator but in a compact and robust housing, fabricated from anti-corrosion polished 316L stainless steel.

Designed to withstand the toughest of operational environments, Predator Stainless Steel is also competitively priced, with the high-performance package targeted to offer the advantages of extreme temperature (-40°C to +60°C) camera performance, but at a fraction of the cost of other stainless steel PTZ cameras.



Predator Ultra

The Predator Ultra range of cameras is supplied as standard with SONY STARVIS back-illuminated CMOS image sensor technology and as an option with ULTRA sensor technology.

With the option of 'Hybrid' analogue and HD imaging functionality, 360 Vision's future proof 'patent pending' Hybrid technology means that when a traditional surveillance installation moves to HD infrastructure, standard analogue 4:3 images (in HD Quality) can be replaced with Full HD 1080p widescreen images – at the flick of a switch and with no additional equipment required.

With a massive 30x/40x optical zoom and Auto Focus for zero light operation, Predator is available with 360 Vision's all-new Sirius IR and IR/white light LED illuminators. Sirius LED illuminators offer up to 550m IR viewing range, or up to 250m using the combined IR & white light LED model. In addition, 360 pre-sets, 16 tours and multiple control protocols are all built-in, to complete the camera's enviable specification.



Predator DualView

Predator DualView system's 30x/40x Zoom 'Target' camera supports the overview camera, combined with a separate 30x optical, ultra-low light Sony STARVIS Full HD 'Zoom' camera. Ideal for live monitored Public Space surveillance applications, such as town centres, container ports and transportation hubs, where an overview (of up to 90° field of view) of the incident/target area is desirable, Predator DualView system's 30x Zoom 'Target' camera supports the overview camera, being used to target and capture specific close-up scene evidence.

Predator DualView is designed to free CCTV operators to focus on gathering critical 'close-up' video evidence, to identify individuals and actions, whilst simultaneously capturing the wider view of any related critical activities occurring during an incident taking place.



Low Power

'Low Power Mode' for inactive periods of operation, 'Intelligent Illumination' and 'Night Setting Presets' to control the illumination activity and low consumption components that all add up to greatly reduced power device for applications such as solar, fuel, battery and other low voltage sensitive applications



On Board Recording

Recording options of up to 256Gb give network backup, time lapse, FTP and alarm recording. Network sensing automatically senses when connection is lost to ensure that full HD, real time images can be recorded inside the camera, ensuring no information is lost



Latest Camera Modules

All Predator Ultra cameras now benefit from a choice of either Starvis or ULTRA low light technology from the stunning new 1/1.9" ULL sensors. Larger sensor = brighter, crisper and more defined COLOUR images at night



Dual Camera Technology

With a flexible specification using Dual Camera Technology, Predator Ultra can be ordered in a wide range of camera formats including Dual 640 Thermal Cameras and Thermal camera plus 1080P HD colour/Mono camera. Combining two camera technologies in one unit ensures the greatest technical flexibility and application compatibility



360 Degree View

Continuous rotation pan, unobstructed 360 degree view, 180 degree tilt all contribute to unhindered views usually associated with Dome alternatives



Ruggedised

Unlike our competitors, a self-calibrating 'Attack Detect' mode senses any forced or unnatural movement and INSTANTLY re-calibrates to the correct position, ensuring alarm and positional presets are not compromised



Paint Options

Standard high quality paint finish and optional long life 'Extreme' paint finish for marine/coastal applications – ensuring the operational and aesthetic features of the Predator Ultra are protected



Attack Detect Feature

Predator Ultra's Attack Detect feature ensures if a physical attack is detected, the camera will automatically return to its original position – ensuring no loss of evidential footage



Direct Drive Mechanism

Unlike many competitor products that utilise belt based drive systems, Predator Ultra incorporates ultra reliable and extremely quiet Direct Drive mechanisms, resulting in long life, high (and consistent) preset accuracy and long term reliability



Dedicated Setup Apps

3 APPS for Discovery, Configuration and Update. With an innovative thumbnail index, select and program from one central Network point. No need for browser add-ins, security permissions or Internet necessary updates



Infrared (IR)

With standard (850nm) or our latest 940nm 'No Glow' option

Enjoy all the benefits of high powered Infrared illumination without the red glow from the LED's and avoid unwanted light pollution as well as unwanted attention to your site with our 'No Glow' Infrared technology



LED White Light

Predator Ultra offers a comprehensive range of white light illumination options - featuring distances up to 200m. White light offers powerful illumination for overt applications, intruder tracking and deterrence



Predator Radar Specification

PRODUCT SPECIFICATION	30 X HD ENHANCED LOW LIGHT		
Colour/Mono	Yes		
Imager (CMOS)	1 / 2.8-type Exmor		
Zoom Optical / Digital	30x, 12x		
Zoom Total	360x		
Pixels (Megapixels)	Approx. 2.13 Megapixels		
Horizontal view angle	2.3° (T) - 63.7° (W)		
Lens Size	4.3 - 129mm		
Mini Sensitivity - Colour	0.0013 Lux		
Mini Sensitivity - Mon Int	0.0008 Lux		
Signal Noise Ratio	>50dB		
Picture Flip	Yes		
Picture Freeze	Yes		
PRODUCT FEATURES	ALL Predator units have the following functions		
Focus / Iris	Auto/Manual		
Presets	360		
Tours	4 (max 90 presets per tour)		
Learned Patrols	4 mimic tours - up to 30 minutes duration each		
Privacy Zones	Up to 24		
Variable pan speed / coverage	0.1 - 120°/sec 360° continuous rotation, absolute positioning		
Variable tilt speed / coverage	0.1-120°/sec, 180° absolute positioning		
Auto Homing	Goes to preset, tour or mimic tour after prescribed time		
Col/Mono Changeover	4 levels -3 fixed, 1 custom/user defined		
Operating Temperature	-50° C to +60°C with optional heater		
Power	30 vdc-36 vdc , Radar connection (POE for Radar 10W Nominal Consumption)		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	CE & FCC approval; Ingress IP68; Impact IK10* ;Vibration & Shock certified approvals		
SIRRUS ILLUMINATION (Optional)	IR & WHITE LIGHT (Nominal)		RADAR FEATURES
IR 75	IR 75		Maximum Range
IR 125	IR 125		Range Resolution
IR 100WL	IR 100, WL 100		Beamwidth - Azimuth
SIR 110	IR 110		Beamwidth - Elevation
SIR 140WL	IR 140, WL 140		Targeting Tracking
250SWL	WL 250		Field of View
SIR250WL	IR 250, WL 250		Scan Rotation Rate
SIR275	IR 275		Interface
SIR400	IR 400		Mounting Height
SIR550	IR 550		Environmental
CODEC	25 FPS	ASPECT	30 FPS
HD 1080P	1920 x 1080	16:9	1920 x 1080
HD720P	1280 x 720	16:9	1280 x 720
D1	720 x 576	4:3	720 x 480
VGA	640 x 480	4:3	640 x 480
QVGA	432 x 240	16:9	432 x 240
Distribution	Multi Codec 2 streams		
Image Compression	H.264, MPEG4, MJPEG		
Protocols	ONVIF (S), TCP/IP, HTTP, HTTPS, QoS, RTP, RTSP, 360SDK, 802.1x, NTP, FTP		
Compression levels	CBR, VBR, CVBR		
WEIGHT			
Predator Radar (Top & Bottom WL) 12.6 KG			
* Impact IK10 applicable to camera only.			

Predator Stainless Steel Specification

PRODUCT SPECIFICATION	30X HD ENHANCED LOW LIGHT		
Colour/Mono	Yes		
Imager (CMOS)	1/2.8-type Exmor R		
Zoom - Optical + Digital	30x, 12x		
Zoom - Total	360x		
Pixels	Approx 2.13 Megapixels		
Horizontal view angle	2.3°(T) - 63.7°(W)		
Lens Size	4.3 - 129mm		
Min Sensitivity - colour	0.0013 Lux		
Min Sensitivity - mono Int	0.0008 Lux		
Signal Noise Ratio	>50dB		
Picture Freeze	Yes		
Picture Flip	Yes		
PRODUCT FEATURES	ALL PREDATOR units have the following functions		
Focus/Iris	Auto/Manual		
Presets	360		
Tours	4 (max 90 presets per tour)		
Learned Patrols	4 mimic tours - up to 30 minutes duration each		
Privacy Zones	Up to 24		
Variable pan speed/coverage	0.1 - 120°/sec, 360° continuous rotation, absolute positioning		
Variable tilt speed/coverage	0.1 - 120°/sec, 180°, absolute positioning		
Auto Homing	Goes to preset, tour or mimic tour after prescribed time		
Col/Mono Changeover	4 levels - 3 fixed, 1 custom/user defined		
Operating temperature	-50°C to +60°C with optional heater		
Power	24vac/30vdc		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	CE & FCC approval; Ingress IP68; Impact IK10; Vibration & Shock certified approvals		
WEIGHTS			
Predator Steel (No lamps)	14kg		
CODEC	25fps	ASPECT	30fps
HD1080p	1920x1080	16:9	1920x1080
HD720p	1280x720	16:9	1280x720
D1	720x576	4:3	720x480
VGA	640x480	4:3	640x480
QVGA	432x240	16:9	432x240
Distribution	Multi Codec 2 streams		
Image Compression	H.264, MPEG4, MJPEG		
Protocols	ONVIF (S), TCP/IP, HTTP, HTTPS, QoS, RTP, RTSP, 360SDK, 802.1x, NTP, FTP		
Compression levels	CBR, VBR CVBR		

Support & Compatibility


Our commitment to the ONVIF organisation also extends to constant and proactive direct communication with VMS leading VMS manufacturers to ensure FULL feature and operational compatibility.

Our standard warranty is 3 years. In addition, our NEW and innovative Support Package provides an extremely low cost 5 year Warranty Extension – offering additional layers of benefit for customers framework and maintenance agreements.

We believe in our manufacturing quality, we do not subscribe to the low cost/replace ideology so prevalent in our industry – let us show you how our FIXED FEE service will actually SAVE you money!



Predator Ultra Specification

PRODUCT SPECIFICATION	30 X HD ULTRA	40 X HD ULTRA	
Colour/Mono	Yes	Yes	
Imager (CMOS)	1 / 1.9" type Exmor	1 / 1.9" type Exmor	
Zoom Optical / Digital	30X, 12X	40x, 12x	
Zoom Total	360X	480X	
Pixels (Effective)	Approx. 2.38 Megapixels	Approx. 2.38 Megapixels	
Horizontal view angle	61.2° (W) - 2.32° (T)	60° (W) - 1.8° (T)	
Lens Size	6-180mm	6-240mm	
Mini Sensitivity - Colour	0.005 Lux	0.005 Lux	
Mini Sensitivity - Mon Int	0.0002 Lux	0.0002 Lux	
Signal Noise Ratio	>50dB	>50dB	
Picture Flip	Yes	Yes	
Picture Freeze	Yes	Yes	
PRODUCT FEATURES	ALL Predator units have the following functions		
Focus / Iris	Auto/Manual		
Presets	360		
Tours	4 (max 90 presets per tour)		
Learned Patrols	4 mimic tours - up to 30 minutes duration each		
Privacy Zones	Up to 24		
Variable pan speed / coverage	0.1 - 120°/sec 360° continuous rotation, absolute positioning		
Variable tilt speed / coverage	0.1-120°/sec, 180° absolute positioning		
Auto Homing	Goes to preset, tour or mimic tour after prescribed time		
Col/Mono Changeover	4 levels - 3 fixed, 1 custom/user defined		
Operating Temperature	-50° C to + 60°C with optional heater		
Power	30vdc-36vdc		
Power POE	Available on models SIR 110/160/140WL/275/250SWL using recommended PRED-POE-PSU IEEE802.30bt 90W.		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	CE & FCC approval; Ingress IP68; Impact IK10; Vibration & Shock certified approvals		
SIRIUS ILLUMINATION (Optional)	IR & WHITE LIGHT (Nominal)	Standard Paint Options	
SIR 110	110m 850nm / 70m 940nm No Glow IR	Black 9005	
SIR 160	160m 850nm / 100m 940nm No Glow IR	White 9003	
SIR 140WL	140m 850nm IR + White Light / 85m 940nm No Glow IR	Cool Grey 7035	
250 SWL	250m White Light Only	Mid Grey 7001	
SIR 250WL	250m 850nm IR + White Light / 150m 940nm No Glow IR	HMA: Hinged Mounting Adapter	
SIR 275	275m 850nm IR / 165m 940nm No Glow IR		
SIR 400	400m 850nm IR / 250m 940nm No Glow IR		
400SWL	400m White Light Only		
SIR 550 S	600m 850nm IR / 360m 940nm No Glow IR		
CODEC	25 FPS	ASPECT	30 FPS
HD 1080P	1920 x 1080	16:9	1920 x 1080
HD 720P	1280 x 720	16:9	1280 x 720
D1	720 x 576	4:3	720 x 480
VGA	640 x 480	4:3	640 x 480
QVGA	432 x 240	16:9	432 x 240
Distribution	Multi Codec 2 streams		
Image Compression	H.264, MPEG4, MJPEG		
Protocols	ONVIF (S), TCP/IP, HTTP, HTTPS, GoS, RTP, RTSP, 360SDK, 802.1x, NTP, FTP		
Compression levels	CBR, VBR, CVBR		
INSTALLATION	<p>Hinged Mounting Adapter (HMA) is designed to assist in the installation of the Predator allowing access to the cable connections "hands free"</p>  <p>Installers can now install the Predator using stand; no need for pre-made cables. Enabling the Predator to be positioned up to 100 metres from the power supply (dependent on Predator / cable specification)</p>		
LEGAL	<p>All trademarks are used courtesy of registered owners. PREDATOR ULTRA is a registered trademark of 360 Vision Technology Ltd/ The Manufacturer reserves the right to change specifications without notice.</p>		

Predator Ultra DualView Specification

PRODUCT SPECIFICATION	40xULTRA ULTRA LOW LIGHT	3x DUAL VIEW	
Colour/Mono	Yes	Yes	
Imager (CMOS)	1 / 1.9" Sony Exmor	1 / 2.8-type Exmor CMOS	
Zoom - Optical + Digital	40x, 12x	3x, 12x	
Zoom - Total	480x	36x	
Pixels	Approx 2.38 Megapixels	Approx 3.27 Megapixels	
Horizontal view angle	60°(W) - 1.8°(T)	90°(W) - 32°(T)	
Lens Size	6 - 240mm	3 - 9mm	
Min Sensitivity - colour	0.002 Lux	1 Lux	
Min Sensitivity - mono Int	0.0002 Lux	0.1 Lux	
Signal Noise Ratio	>50dB	>50dB	
Picture Flip	Yes	Yes	
Picture Freeze	Yes	No	
PRODUCT FEATURES	ALL PREDATOR units have the following functions		
Focus/Iris	Auto/Manual		
Presets	360		
Tours	4 (max 90 presets per tour)		
Learned Patrols	4 mimic tours - up to 30 minutes duration each		
Privacy Zones	Up to 24		
Variable pan speed / coverage	0.1 - 120°/sec, 360° continuous rotation, absolute positioning		
Variable tilt speed / coverage	0.1 - 120°/sec, 180°, absolute positioning		
Auto Homing	Goes to preset, tour or mimic tour after prescribed time		
Col/Mono Changeover	4 levels - 3 fixed, 1 custom/user defined		
Operating temperature	-50°C to +60°C with optional heater		
Power	24vac/30Vdc		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	IP67		
CODEC	25fps	ASPECT	30fps
HD1080p	1920x1080	16:9	1920x1080
HD720p	1280x720	16:9	1280x720
D1	720x576	4:3	720x480
VGA	640x480	4:3	640x480
QVGA	432x240	16:9	432x240
Distribution	Multi Codec 2 streams		
Image Compression	H.264, MPEG4, MJPEG		
Protocols	ONVIF (S), TCP/IP, HTTP, HTTPS, RTP, RTSP, 360SDK, GoS, 802.1x, NTP, FTP		
Compression levels	CBR, VBR CVBR		
SIRIUS ILLUMINATION	IR & WHITE LIGHT (Nominal)	Standard Paint Options	RAL
SIR 160	IR 160 metres	Black	9005
SIR 140WL	IR 140 metres, WL 140 metres	White	9003
250SWL	WL 250 metres	Cool Grey	7035
SIR250WL	IR 250 metres, WL 250 metres	Mid Grey	7001
SIR275	IR 275 metres		
WEIGHTS			
Predator ULTRA Dual View	10.5kg		



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360 Vision Technology Ltd

Unit 7 Seymour Court, Manor Park,
Runcorn, Cheshire WA7 1SY UK

T: +44 (0)1928 570000

info@360visiontechnology.com

www.360visiontechnology.com

