

PREDATOR

Predator Ultra Camera Product Range



**DESIGNED &
MANUFACTURED
IN THE UK**



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 8 targets simultaneously up to a range of 400m diameter. On detection, an alarm output can be integrated into a VMS or alarm monitoring station via TCP integration.

Using industry leading and World Class radar technology, the stand-alone Predator Radar scans 360 degrees once every second, to detect and track objects, whilst detections 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 (-50°C to +65°C with optional heater) 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 3x 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

Secure by Default

360 Vision Technology surveillance camera products & components have been issued with certification by the Surveillance Camera Commissioner, with requirements to ensure the best possible assurance of protection against cyber-attacks

Infrared (IR)

Infrared (IR) light cannot be seen with the human eye. When equipped with IR, Predator Ultra cameras can use the illumination to produce clear, evidential video quality images, whatever the lighting conditions. IR technology can be employed for covert applications, where operators require security measures to remain low key, or where the use of white light illumination may cause light pollution to nearby residents

IR

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



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Predator Radar 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 +65°C with optional heater		
Power	28-36VDC (12VDC and POE Options)		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	UKCA, CE & FCC approval: Ingress IP68: Impact IK10 : vibration & shock certified approvals. Independent power certification and Elexon Charge Codes available		
SIRIUS ILLUMINATION	IR & WHITE LIGHT		
IR75	IR 75 metres		
IR125	IR 125 metres		
IR100WL	IR 100 metres, WL 100 metres		
SIR110	110 850nm/70 940nm No Glow IR		
SIR160	160 850nm/100 940nm No Glow IR		
SIR140WL	140 850nm IR + White Light / 85 940nm No Glow IR		
250SWL	WL 250 metres		
SIR250WL	250 850nm IR + White Light / 150 940nm No Glow IR		
SIR275	275 850nm IR / 165 940nm No Glow IR		
CODEC	25/50fps	ASPECT	30/60fps
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 Streaming Codec, 2 independently configurable profiles		
Image Compression	H.264, MJPEG, H.265		
Protocols	TCP/IP, IPv4, ONVIF (S), 802.1x, SSL, HTTP, HTTPS, RTP, RTSP, 360SDK, QoS, IGMP v3, SNMP v3, NTP, FTP, Digest Authentication		
Compression levels	CBR, VBR		
RADAR FEATURES			
Maximum Range	200m Man/Vehicle Radius		
Range Resolution	1.5m		
Beamwidth - Azimuth	2°		
Beamwidth - Elevation	Spread Beam		
Field of View	360°		
Scan Rotation Rate	1 RPS		
Interface	100Mb Ethernet		
Mounting Height	3 - 6 metres		
Environmental	IP67 BS EN 60068-2-52		
Operating Frequency	24.05 - 24.25 GHz (license exempt ISM band)		
Operating Temp	-20°C to +60°C		
PoE	802.3af		
Compliance	CE Marked EN 301489 IEC 60950 EN 300440		

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 +65°C with optional heater		
Power	28-36VDC (12VDC and POE Options)		
Mounting options	Wall, Corner, Pole and Soffit		
Certification	UKCA, CE & FCC approval: Ingress IP68: Impact IK10 : vibration & shock certified approvals. Independent power certification and Elexon Charge Codes available		
WEIGHTS			
Predator Steel (No lamps)	14kg		
CODEC	25/50fps	ASPECT	30/60fps
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 Streaming Codec, 2 independently configurable profiles		
Image Compression	H.264, MJPEG, H.265		
Protocols	TCP/IP, IPv4, ONVIF (S), 802.1x, SSL, HTTP, HTTPS, RTP, RTSP, 360SDK, QoS, IGMP v3, SNMP v3, NTP, FTP, Digest Authentication		
Compression levels	CBR, VBR		

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	30x HD ULTRA	40x HD ULTRA
Colour/Mono	Yes	Yes
Imager (CMOS)	1/1.9" Sony Exmor	1/1.9" Sony 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
Min Sensitivity - colour	0.002 Lux	0.002 Lux
Min Sensitivity - mono 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 +65°C with optional heater	
Power	28-36VDC (12VDC and POE Options)	
Power POE	IEEE 802.3bt Class 5 POE (No lamps, 45W) or IEEE-802.3bt Class 8 POE (with restricted lamps, 90W)	
Mounting options	Wall, Corner, Pole and Soffit	
Certification	UKCA, CE & FCC approval: Ingress IP68: Impact IK10 : vibration & shock certified approvals. Independent power certification and Elexon Charge Codes available	
SIRIUS ILLUMINATION	IR & WHITE LIGHT (Nominal)	Standard Paint Options
SIR 110	110 850nm/70 940nm No Glow IR	Black
SIR 160	160 850nm/100 940nm No Glow IR	White
SIR 140WL	140 850nm IR + White Light/85 940nm No Glow IR	Cool Grey
250SWL	WL 250 metres	Mid Grey
SIR250WL	250 850nm IR + White Light/150 940nm No Glow IR	
SIR275	275 850nm IR/165 940nm No Glow IR	
SIR400	400 850nm IR/250 940nm No Glow IR	
SIR550S Spot	IR 550 metres	
WEIGHTS		
Predator (No LED's)	7.5kg	
Predator (Single LED array)	8kg	
Predator (Dual LED array)	8.5kg	
Predator (HMA, No LED's)	9.5kg	
Predator (Dual Long Range)	8.5kg	
CODEC	25/50fps	ASPECT
HD 1080p	1920x1080	16:9
HD 720p	1280x720	16:9
D1	720x576	4:3
VGA	640x480	4:3
QVGA	432x240	16:9
Distribution	Multi Streaming Codec, 2 independently configurable profiles	
Image Compression	H.264, MJPEG, H.265	
Protocols	TCP/IP, IPv4, ONVIF (S), 802.1x, SSL, HTTP, HTTPS, RTP, RTSP, 360SDK, QoS, IGMP v3, SNMP v3, NTP, FTP, Digest Authentication	
Compression levels	CBR, VBR	
SIRIUS ILLUMINATION	IR & WHITE LIGHT (Nominal)	Standard Paint Options
SIR 160	160 850nm/100 940nm No Glow IR	Black
SIR 140WL	140 850nm IR + White Light/85 940nm No Glow IR	White
250SWL	WL 250 metres	Cool Grey
SIR250WL	250 850nm IR + White Light/150 940nm No Glow IR	Mid Grey
SIR275	275 850nm IR/165 940nm No Glow IR	
WEIGHTS		
Predator ULTRA Dual View	10.5kg	

HMA: Hinged Mounting Adapter



Hinged Mounting Adapter (HMA) is designed to assist in the installation of the Predator allowing access to the cable connections 'hands free'.

Installers can now install the Predator using standard cables, so 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).

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Predator Ultra DualView Specification

PRODUCT SPECIFICATION	40x ULTRA 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 +65°C with optional heater	
Power	28-36VDC (12VDC and POE Options)	
Mounting options	Wall, Corner, Pole and Soffit	
Certification	UKCA, CE & FCC approval: Ingress IP68: Impact IK10 : vibration & shock certified approvals. Independent power certification and Elexon Charge Codes available	
CODEC	25/50fps	ASPECT
HD 1080p	1920x1080	16:9
HD 720p	1280x720	16:9
D1	720x576	4:3
VGA	640x480	4:3
QVGA	432x240	16:9
Distribution	Multi Streaming Codec, 2 independently configurable profiles	
Image Compression	H.264, MJPEG, H.265	
Protocols	TCP/IP, IPv4, ONVIF (S), 802.1x, SSL, HTTP, HTTPS, RTP, RTSP, 360SDK, QoS, IGMP v3, SNMP v3, NTP, FTP, Digest Authentication	
Compression levels	CBR, VBR	
SIRIUS ILLUMINATION	IR & WHITE LIGHT (Nominal)	Standard Paint Options
SIR 160	160 850nm/100 940nm No Glow IR	Black
SIR 140WL	140 850nm IR + White Light/85 940nm No Glow IR	White
250SWL	WL 250 metres	Cool Grey
SIR250WL	250 850nm IR + White Light/150 940nm No Glow IR	Mid Grey
SIR275	275 850nm IR/165 940nm No Glow IR	
WEIGHTS		
Predator ULTRA Dual View	10.5kg	



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