# 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 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 anticorrosion 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 closeup scene evidence.

Predator DualView is designed to free CCTV operators to focus on gathering critical 'closeup' 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

Products

'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

## 00

#### 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



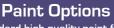
### 360 Degree View

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



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



### 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	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		R units have	e the following fu	ınctions			
Focus/Iris	Auto/Manual						
Presets	360						
Tours	4 (max 90 pres	sets per to	ırì				
Learned Patrols			ninutes duration	each			
Privacy Zones	Up to 24	ap 30 00 111					
Variable pan speed/							
coverage  Variable tilt speed/				, absolute positioning			
coverage  Auto Homing		0.1 - 120°/sec, 180°, absolute positioning  Goes to preset, tour or mimic tour after prescribed time					
	·			rescribed di Ne			
Col/Mono Changeover	4 levels - 3 fixed	·					
Operating temperature	-50°C to +65°C						
Power	28-36VDC (12						
Mounting options	Wall, Corner, Po			. 11/40			
Certification				mpact IK10 : vibration & sl in Charge Codes available	nock certified approvals.		
SIRIUS ILLUMINATION	IR & WHITE LIG	HT		RADAR FEATURES			
IR75	IR 75 metres		IR 75 metres				
IR125	IR 125 metres	IR 125 metres		Maximum Range	200m Man/Vehicle		
IR100WL	IR 100 metres	IR 100 metres, WL 100 metres			Radius		
SIR110		, WL 100 m	netres	Range Resolution	Radius  1.5m		
0.11110	110850nm/7			Range Resolution Beamwidth - Azimuth	Radius 1.5m 2°		
SIR160	110850nm/7 160850nm/1	70 940nm N	No Glow IR	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation	Radius  1.5m  2°  Spread Beam		
	160 850nm/1	70 940nm   1 00 940nm 3 + White Lig	No Glow IR n No Glow IR	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View	Radius  1.5m  2°  Spread Beam  360°		
SIR160 SIR140WL	160 850nm/1 140 850nm IF 85 940nm No	70 940nm   1 00 940nm R + White Lig Glow IR	No Glow IR n No Glow IR	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate	Radius  1.5m  2°  Spread Beam  360°  1 RPS		
SIR160 SIR140WL 250SWL	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre	70 940nm ( 100 940nm R + White Lig Glow IR es	No Glow IR n No Glow IR ght/	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet		
SIR160 SIR140WL	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF	70 940nm M 1 00 940nm R + White Lig Glow IR es R + White Lig	No Glow IR n No Glow IR ght/	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres		
SIR160 SIR140WL 250SWL SIR250WL	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N	70 940nm M 1 00 940nm R + White Lig Glow IR es R + White Lig Io Glow IR	No Glow IR n No Glow IR ght/	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52		
SIR160 SIR140WL 250SWL SIR250WL SIR275	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N	70 940nm M 100 940nm R + White Lig Glow IR es R + White Lig Io Glow IR	No Glow IR n No Glow IR ght/	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR	70 940nm N 100 940nm R + White Lig Glow IR es R + White Lig Io Glow IR I/165 940r	No Glow IR n No Glow IR ght/ ght/ ann No Glow IR 30/60fps	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080	70 940nm N 1 00 940nm R + White Lig Glow IR es R + White Lig Io Glow IR I / 165 940r ASPECT	No Glow IR n No Glow IR ght/ ght/ nm No Glow IR 30/60fps 1920x1080	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720	70 940nm N 100 940nm R + White Lig Glow IR es R + White Lig to Glow IR 1/165 940r ASPECT 16:9	No Glow IR n No Glow IR ght/ ght/ nm No Glow IR 30/60fps 1920x1080 1280x720	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)  -20°C to +60°C		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p D1	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720 720x576	70 940nm N 100 940nm R + White Lig Glow IR es R + White Lig Io Glow IR 1/165 940r ASPECT 16:9 16:9	No Glow IR n No Glow IR ght/ ght/ nm No Glow IR 30/60fps 1920x1080 1280x720 720x480	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp  PoE	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3 - 6 metres  IP67 BS EN 60068-2-52  24.05 - 24.25 GHz (license exempt ISM band) -20°C to +60°C  802.3af  CE Marked		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p D1 VGA	160 850nm// 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720 720x576 640x480	70 940nm N 1 00 940nm R + White Lig Glow IR es R + White Lig Io Glow IR I / 165 940r ASPECT 16:9 16:9 4:3	No Glow IR  No Glow IR  ght/  ght/  m No Glow IR  30/60fps  1920x1080  1280x720  720x480  640x480	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)  -20°C to +60°C  802.3af  CE Marked EN 301489 IEC 60950		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p D1	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720 720x576 640x480 432x240	70 940nm N 100 940nm R + White Lig Glow IR es R + White Lig to Glow IR 2/165 940r ASPECT 16:9 4:3 4:3	No Glow IR n No Glow IR ght/ ght/ nm No Glow IR 30/60fps 1920x1080 1280x720 720x480 640x480 432x240	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp  PoE	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)  -20°C to +60°C  802.3af  CE Marked EN 301489		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p D1 VGA QVGA Distribution	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720 720x576 640x480 432x240 Multi Streamin configurable pr	70 940nm N 100 940nm R + White Lig Glow IR es R + White Lig Io Glow IR 7165 940r ASPECT 16:9 4:3 4:3 16:9 Ig Codec, 2 in offiles	No Glow IR n No Glow IR ght/ ght/ nm No Glow IR 30/60fps 1920x1080 1280x720 720x480 640x480 432x240	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp  PoE	Radius		
SIR160 SIR140WL  250SWL SIR250WL  SIR275 CODEC HD1080p HD720p D1 VGA QVGA	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm No 275 850nm IR 25/50fps 1920x1080 1280x720 720x576 640x480 432x240 Multi Streamin configurable pr	70 940nm N 100 940nm N R + White Lig Glow IR es R + White Lig Io Glow IR 7/165 940r ASPECT 16:9 16:9 4:3 4:3 16:9 g Codec, 2 in offiles c, H.265	No Glow IR  No Glow IR  ght/  ght/  m No Glow IR  30/60fps  1920x1080  1280x720  720x480  640x480  432x240  independently	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp  PoE	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)  -20°C to +60°C  802.3af  CE Marked EN 301489 IEC 60950		
SIR160 SIR140WL 250SWL SIR250WL SIR275 CODEC HD1080p HD720p D1 VGA QVGA Distribution	160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N 275 850nm IR 25/50fps 1920x1080 1280x720 720x576 640x480 432x240 Multi Streamin configurable pr	70 940nm N 100 940nm N R + White Lig Glow IR es R + White Lig Io Glow IR 7/165 940r ASPECT 16:9 4:3 4:3 4:3 16:9 g Codec, 2 in coffles is, H.265 DNVIF (S), 80 RTP, RTSP, SNMP v3, N	No Glow IR  No Glow IR  ght/  ght/  m No Glow IR  30/60fps  1920x1080  1280x720  720x480  640x480  432x240  independently  02.1x, SSL, 360SDK,	Range Resolution  Beamwidth - Azimuth  Beamwidth - Elevation  Field of View  Scan Rotation Rate  Interface  Mounting Height  Environmental  Operating Frequency  Operating Temp  PoE	Radius  1.5m  2°  Spread Beam  360°  1 RPS  100Mb Ethernet  3-6 metres  IP67 BS EN 60068-2-52  24.05-24.25 GHz (license exempt ISM band)  -20°C to +60°C  802.3af  CE Marked EN 301489 IEC 60950		

## **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 follow	ing 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					
\(\langle \langle \lan	approvals. Independent power certification and Elexon Charge Codes available					
WEIGHTS						
Predator Steel (No lamps)  CODEC	14kg   ASPECT   30/60fps					
HD1080p	1920x1080	16:9	30/60fps 1920x1080			
HD720p						
D1	1280x720 16:9 1280x720					
VGA	720x576 4:3 720x480					
QVGA	640x480 4:3 640x480					
Distribution	432x240 16:9 432x240					
	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 $\vee$ 3, SNMP $\vee$ 3, 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**

Predator Oldra Sp							
PRODUCT SPECIFICATION	30x HD ULTRA			40x HD ULTRA			
Colour/Mono	Yes			Yes			
Imager (CMOS)	1/1.9" Sony Ex	xmor		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						
PRODUCT FEATURES	ALL PREDATO	)R units ha	ve the following f	unctions	<b>/es</b> ns		
Focus/Iris	Auto/Manual						
Presets	360						
Tours	4 (max 90 pres	sets per to	ourì				
Learned Patrols		•	minutes duratio	n each			
Privacy Zones	Up to 24						
Variable pan speed/coverage	'	c. 360° cor	ntinuous rotatio	n, absolute positioning	a		
Variable tilt speed/coverage			solute positionir		0		
Auto Homing			-	prescribed time			
Col/Mono Changeover			m/user defined	p. ecc. ibed oil lie			
	-50°C to +65°C		·				
Operating temperature Power							
Power POE	28-36VDC (12			5\4\1 ca   EEE 000 0b+	Class R DOF		
Power PUE	(with restricted		-	5W) or IEEE-802.3bt	Class & PUE		
Mounting options	Wall, Corner, P	ole and So	offit				
Certification	UKCA, CE & FO	CC approv	al: Ingress IP68:	Impact IK10 : vibration	on & shock certified		
Certification				Impact IK10 : vibration and Elexon Charge			
Certification SIRIUS ILLUMINATION		ependent p	oower certificati		e Codes available		
	approvals. Inde	ependent p SHT (Nomin	oower certificational)	on and Elexon Charge	e Codes available		
SIRIUS ILLUMINATION SIR110 SIR160	approvals. Inde IR & WHITE LIG 110850nm/7	ependent p SHT (Nomin 70 940nm 100 940n	oower certificati nal) n No Glow IR m No Glow IR	on and Elexon Charge Standard Paint Opt	ions RAL		
SIRIUS ILLUMINATION SIR1 10	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/1	ependent p GHT (Nomin 70 940nm 100 940n R + White L	oower certificati nal) n No Glow IR m No Glow IR	on and Elexon Charge Standard Paint Opt Black	e Codes available ions RAL 9005		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL	approvals. Inde IR & WHITE LIG 110850nm/7	ependent p 3HT (Nomin 70 940nm 100 940n R + White L Glow IR	oower certificati nal) n No Glow IR m No Glow IR	on and Elexon Charge Standard Paint Opt Black White	e Codes available ions RAL 9005 9003		
SIRIUS ILLUMINATION SIR110 SIR160	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/7 140 850nm IF 85 940nm No WL 250 metre	ependent p GHT (Nomin 70 940nm 100 940n R + White L Glow IR es	oower certificati nal) n No Glow IR m No Glow IR .ight/	on and Elexon Charge Standard Paint Opt Black White Cool Grey	e Codes available ions RAL 9005 9003 7035		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/1 140 850nm IF 85 940nm No	ependent p GHT (Nomin 70 940nm 100 940n R + White L Glow IR es R + White L	oower certificati nal) n No Glow IR m No Glow IR .ight/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm IF 85 940nm No WL 250 metre 250 850nm IF	ependent p GHT (Nomin 70 940nm 1 00 940n R + White L Glow IR es R + White L Jo Glow IR	oower certificational)  No Glow IR  m No Glow IR  Light/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035 7001		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL SIR250WL	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/7 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N	ependent p GHT (Nomin 70 940nm 1 00 940n R + White L Glow IR es R + White L Jo Glow IR	oower certificational) INO Glow IR IM NO Glow IR Light/ Light/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035 7001		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL SIR250WL SIR275	approvals. Inde IR & WHITE LIG 110 850nm/ 160 850nm/ 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm N	ependent p GHT (Nomin 70 940nm 100 940n R + White L Glow IR es R + White L Jo Glow IR /165 940	oower certificational) INO Glow IR IM NO Glow IR Light/ Light/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035 7001		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL SIR250WL SIR275 SIR400	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/7 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm No 275 850nm IR	ependent p GHT (Nomin 70 940nm 100 940n R + White L Glow IR es R + White L Jo Glow IR /165 940	oower certificational) INO Glow IR IM NO Glow IR Light/ Light/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035 7001		
SIRIUS ILLUMINATION SIR110 SIR160 SIR140WL 250SWL SIR250WL SIR275 SIR400 SIR550S Spot	approvals. Inde IR & WHITE LIG 110 850nm/7 160 850nm/7 140 850nm IF 85 940nm No WL 250 metre 250 850nm IF 150 940nm No 275 850nm IR	ependent p GHT (Nomin 70 940nm 100 940n R + White L Glow IR es R + White L Jo Glow IR /165 940	oower certificational) INO Glow IR IM NO Glow IR Light/ Light/	Standard Paint Opt Black White Cool Grey Mid Grey	e Codes available ions RAL 9005 9003 7035 7001		
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ati	tion and Elexon Charge Codes available				
	Standard Paint Options	RAL			
	Black	9005			
	White	9003			
	Cool Grey	7035			
	Mid Grey	7001			

#### HMA: Hinged Mounting Adapter

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).

Il 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.

## **Predator Ultra DualView Specification**

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PRODUCT SPECIFICATION	40x ULTRA ULTRA LOW LIGHT		3x DUAL VIEW				
Colour/Mono	Yes		Yes				
Imager (CMOS)	1/1.9" Sony Exmor	1,	1/2.8-type Exmor CMOS				
Zoom - Optical + Digital	40x, 12x	3	3x, 12x				
Zoom-Total	480x	3	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	1 Lux				
Min Sensitivity - mono Int	0.0002 Lux	0	D.1 Lux				
Signal Noise Ratio	>50dB	>5	50dB				
Picture Flip	Yes	Y	Yes				
Picture Freeze	Yes	N	lo				
PRODUCT FEATURES	ALL PREDATOR units have the	following functions	6				
Focus/Iris	Auto/Manual						
Presets	360						
Tours	4 (max 90 presets per tour)						
Learned Patrols	4 mimic tours - up to 30 minute	es 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 t	tour after prescrib	ed time				
Col/Mono Changeover	4 levels - 3 fixed, 1 custom/use	er 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		30/60fps				
HD1080p	1920×1080	16:9	1920x1080				
HD720p	1280x720	16:9	1280x720				
D1	720x576	4:3		720×480			
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						
SIRIUS ILLUMINATION	IR & WHITE LIGHT (Nominal)	Standard F	aint Options	RAL			
SIR160	160 850nm/100 940nm No	Glow IR	Black		9005		
SIR140WL	140 850nm IR + White Light/	White		9003			
	85 940nm No Glow IR		Cool Grey				
250SWL	WL 250 metres		Mid Grey		7001		
SIR250WL	250 850nm IR + White Light / 150 940nm No Glow IR						
SIR275	275 850nm IR / 165 940nm No Glow IR						
WEIGHTS							
Predator ULTRA Dual View	10.5kg						
			_				











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