

PREDATOR ULTRA PTZ CAMERA FOR HIGHWAYS



Predator Ultra RCE
specifically tailored to
the application of
Highways surveillance

Predator Ultra RCE PTZ Camera for Highways

This RCE Highways variant of the Predator Ultra range of cameras is supplied as standard with the SONY ULTRA sensor technology with the massive 40x optical zoom option on the Colour/Mono Auto Focus camera module, providing 24/7 imaging performance. This option also features the true Hybrid video output capability delivering both high resolution analogue 4:3 images and IP encoded industry specific D1 resolution up to full HD 1080P wide screen.

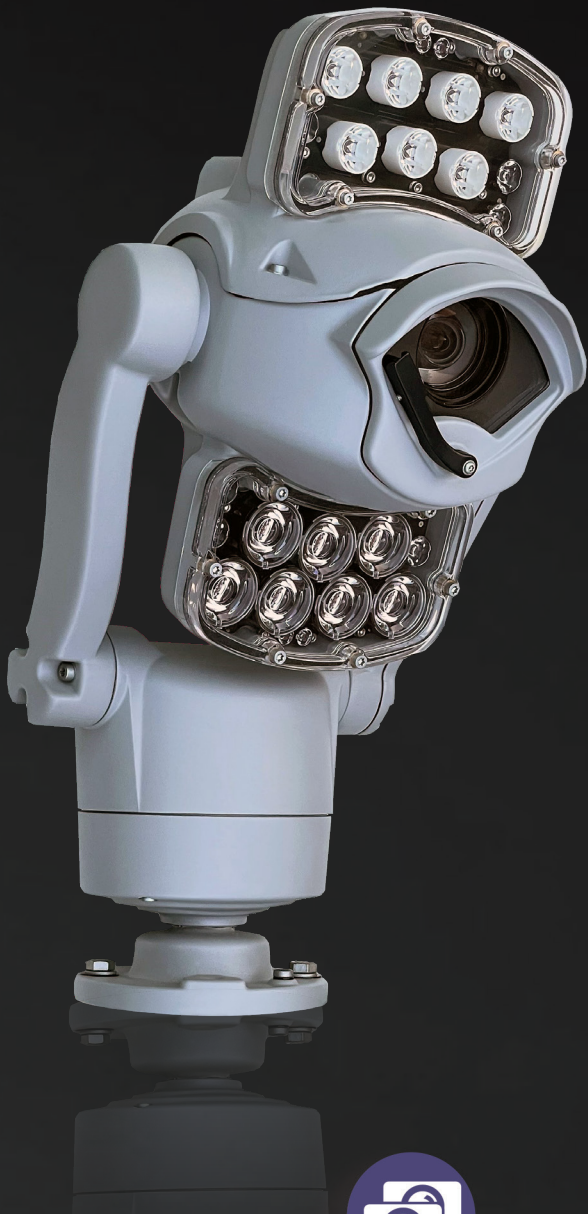
For zero light operation the Predator Ultra RCE is available with 360 Vision's Integrated Intelligent directional Sirius IR LED illuminators. Sirius LED illuminators offer up to 600m IR (850nm) range matching the camera zoomed Field of View with specific LED lens groups, plus regulating the power feed to adjust the illumination to the observed scene.

360 Vision's market leading low power management, Attack Detect automated repositioning system with Base Scan on Impact (BSI) and advanced image stabilisation are all standard features.

Additional options enabling compliance to National Highways MCE2625 camera performance specifications include integrated MIL Spec connect base, Alarm Inputs, On board recording, ONVIF protocols and IP Network configuration requirements. Built to withstand the performance requirements demanded for such applications, physically, mechanical and electrically including classifications such as the demanding Class B EMC Emissions Standard.

The Predator RCE is finished as standard with specific low reflectance, high durability paint coatings in RAL 7042 – Traffic Grey.

Further complementing the Highways Ultra RCE Predator are options for full stainless steel construction and additional Thermal imaging capability.




Support & Compatibility

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


Our standard warranty is 3 years, with extension and innovative Support Package options for 5 year and 7-year terms offering additional layers of benefit for customer framework and maintenance agreements.

We believe in our manufacturing quality, innovative design and market leading support all provided from our factory facility in Runcorn UK, delivering direct support to System Integrators and delivery partners throughout the World.




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 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 Thermal 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, 160 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




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




Attack Detect Feature

Predator Ultra RCE'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 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








Thermal Imaging

360 Vision Thermal Imaging technology can deliver high resolution images through smoke, dust, light fog, haze and the darkest of nights. Thermal imaging uses an object's heat trace to detect recently driven vehicles, hidden persons, recently disturbed ground, footprints and objects that are hidden to conventional camera technology



LED White Light

Predator Ultra RCE 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



DESIGNED & MANUFACTURED IN THE UK

Predator Ultra RCE PTZ Camera Specification

PRODUCT SPECIFICATION	40x HD ULTRA
Colour/Mono	Yes
Imager (CMOS)	1/1.9" Sony Exmor
Zoom - Optical + Digital	40x, 12x
Zoom - Total	480x
Pixels (Effective)	Approx 2.38 Megapixels
Horizontal view angle	60°(W) - 1.8°(T)
Lens Size	6 - 240mm
Min Sensitivity - colour	0.002 Lux
Min Sensitivity - mono Int	0.0002 Lux
Signal Noise Ratio	>50dB
Picture Flip	Yes
Picture Freeze	Yes
Hybrid Video Output	Full HD IP Codec and Composite Analogue Video
Analogue Video Output	1V pk to pk, 75Ω
Scanning	PAL or NTSC
PRODUCT FEATURES	
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
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
ILLUMINATION	
DL4	500 metre (Wide and Narrow) 850nm IR
DL5	600 metre (Wide and Spot) 850nm IR
WEIGHTS	
Predator (No LED's)	7.5kg
Predator (Dual Long Range)	8.5kg

CODEC	25/50fps	ASPECT	30/60fps
1080P	1920x1080	16:9	1920x1080
720P	1280x720	16:9	1280x720
576P	1024x576	16:9	1024x576
480P	720x480	3:2	720x480
240P	320x240	4:3	320x240
D1	720x576	4:3	720x480
VGA	640x480	4:3	640x480
SXGA*	1280x1024	5:4	1280x1024
XGA*	1024x768	4:3	1024x768
QVGA	320x240	4:3	320x240
Distribution*	Multi Streaming Codec, 2 independently configurable profiles		
Image Compression	H.264, MJPEG, H.265		
Protocols	TCP/IP, IPv4, ONVIF (S), 802.1x, MD5, TLS, PEAP, HTTP, HTTPS, RTP, RTSP, RTSP over HTTPS, 360SDK, QoS, IGMP v3, SNMP v3, NTP, FTP, Digest Authentication		
Compression levels	CBR, VBR		
Standard Paint Options	RAL		
Black	9005		
White	9003		
Traffic Grey	7042		

*some restrictions apply

MIL Spec Connector Base Option:

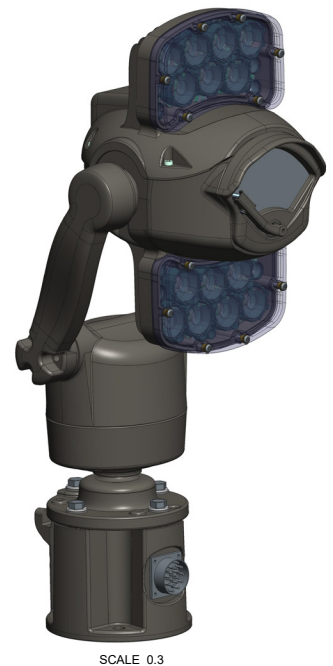
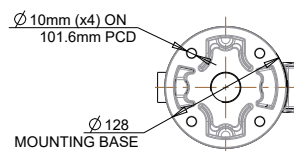
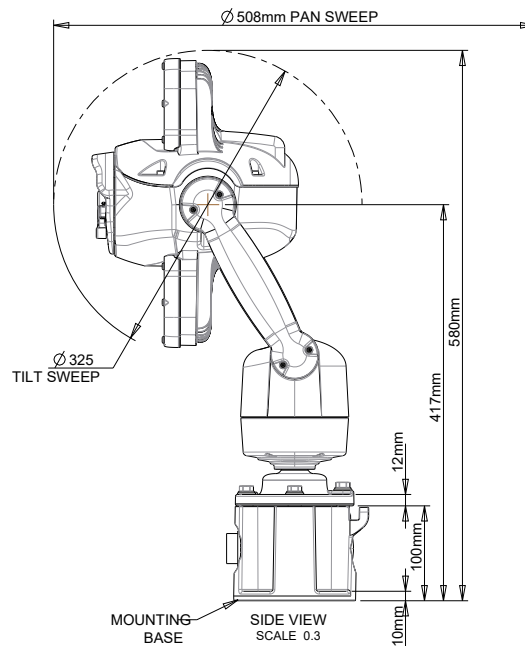
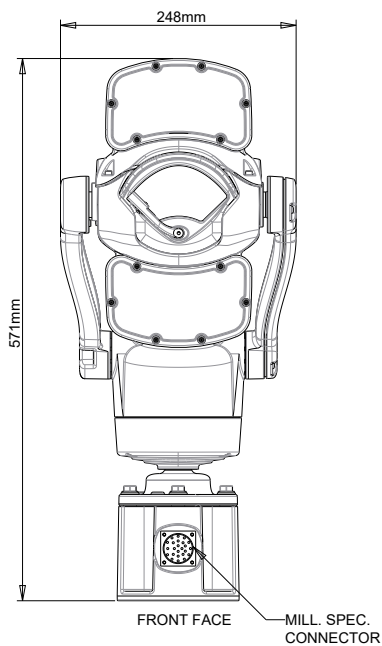


Predator can now be supplied with an integrated Highways compliant MIL Spec connector (MIL-DTL-26482 Series 2)

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Dimensions



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