STAINLESS STEEL PREDATOR ULTRA THERMAL CAMERA

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Thermal Ruggedised High Speed Pan, Tilt & Zoom Camera



Stainless Steel Predator Ultra Thermal Camera

Thermal imaging CCTV surveillance cameras from 360 Vision Technology deliver high-resolution images in all environments, and can see through smoke, dust, light fog, haze and darkness.

The ideal choice for effective 24-hour surveillance and intrusion detection, Predator Thermal cameras include analogue and 1/1.9" Sony HD equipped models that deliver incredible colour or mono images during the hours of darkness.

Heat based thermal imaging can be used to detect recently driven vehicles and hidden persons, recently disturbed ground, footprints and hidden objects with heat traces. In addition, thermal imaging CCTV can be used in process control, where accurate fault detection via thermal imaging can be used to detect potential health & safety issues.

Stainless Steel Predator Ultra Thermal 'Hybrid' camera option available

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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 customer framework and maintenance agreements.

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

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

Technology With a flexible specification using Dual

Dual Camera

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

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

360 Degree View

unobstructed 360 degree view, 160 degree tilt all contribute to unhindered views usually associated with Dome alternatives

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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 are protected

Attack Detect Feature

Predator Ultra Thermal'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

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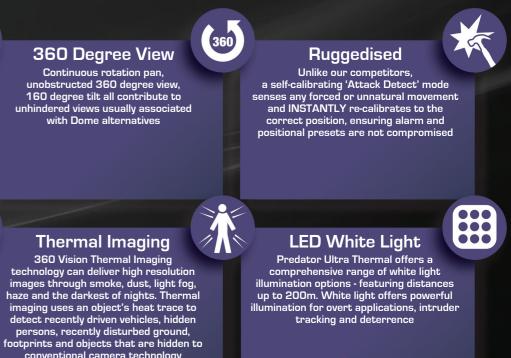
360 Vision Thermal Imaging technology can deliver high resolution images through smoke, dust, light fog, haze and the darkest of nights. Thermal imaging uses an object's heat trace to detect recently driven vehicles, hidden

conventional camera technology





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!



HD RANGE		40 X HD UI	LTRA
Colour/Mono		YES	
Imager	1 / 1.9" Type Exmor		
Zoom Optical / Digital	40 x, 12 x		
Pixels (Effective)	Approx 2.38 Megapixels		
Horizontal view angle		60(W)°-1.8	З°(Т)
Lens Size		6-240 m	m
Min Sensitivity - Colour		0.002 Lu	x
Min Sensitivity - Mono Int		0.0002 L	ux
Signal Noise Ratio		>50 dB	
Picture Flip		YES	
Picture Freeze		YES	
PRODUCT FEATURES - All Predator C	ameras have the follow	ing functions	
Stainless Steel		316 stainless	ssteel
Focus/Iris	Auto / Manual		nual
Presets	360		
Tours	4	(Man 90 Preset	spertour)
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 Change over	4 Levels 3 fixed, 1 custom / user defined		
Operating Temperature	- 50 °C to + 60 °C with optional heater		
Power	24Vdc to 36 Vdc		
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		
SIR110	IR Only		
SIR 160	IR Only		
SIR 275	IR Only		
SIR 140 WL	IR / White light Combination		
SIR250WL	IR / White light Combination		
CODEC	25 FPS	ASPECT	30 FPS
HD 1080P	1920×1080	16:9	1920 × 1080
HD 720P	1280×720	16:9	1280×720
D1	720×576	4:3	720 × 480
VGA	640 x 480	4:3	640×480
QVGA	432×240	16:9	432×240
Distribution	Multi Codec 2 Streams		
Image Compression	H.264, MPEG4, MJPEG		
Protocols	ONVIF (S), TCP/IP, HTTP, HTTPS, QoS, RTP, RTSP, 360SDK, 802.1× (MD5, TLS, PEAP) NTP, FTP, SNMP.		
Compression Levels	CBR, VBR, CVBR		

THERMAL RANGE	SM	320	SM	640	TC	336	ТС	640
Thermal Imager			Unco	oled Vox N	/icroboloi	meter		
FPA / Digital Video Display	320×	256	640:	x512	336	x 256	640	x512
Pixel Pitch		12	μM			17	'μM	
Spectral Band				7.5-1	35 µM			
Full Frame Rate		60 Hz E	Baseline		25 / 50 Hz (PAL)			
Exporting Frame Rates		N,	/A		25/50 Hz (PAL)			
Sensitivity (NETD)	Industrial <30mK Performance <50mK Commercial <60mK							
Scene Range (High Gain)	+0°C + 140 °C			-25°C+100°C		-25°C+135°C		
Scene Range (Low Gain)		+0°C +	500 °C			-40°C ·	+ 550 °C	
PAL/NTSC				YE	ES			
Image Optimizer	YES							
Digital Detail Enhancement	YES							
Polarity Control (Black Hot / White Hot)	YES							
Colour Monochrome Palettes (LUTS)	YES							
Digital Zoom (Continuous)	N/A			2x,4x		2x,8x		
Operating Temperatures	-4 0° C to +180 ° C							
Power (Thermal ONLY)	1 w Max			1 w Max		1.2w Max		
Certification (Thermal ONLY)	Safety Mark : CE approval: Ingress: IP68 Certified							
Video Output	$1Vp$ to p 75 Ω Ohm							
TC 336 THERMAL	9mm	13mm	19mm	25mm	35mm	50mm	60mm	100mm
HFOV (Horizontal Field of View)	35°	25°	17°	13°	9.3 °	6.5°	5.5°	3.3°
TC 640 THERMAL	9mm	13mm	19mm	25mm	35mm	50mm	60mm	100mm
HVOF (Horizontal Field of View)	69°	45°	32°	25°	18°	12.4°	10.4°	6.2°
	0.0	4.0		0.4	1.0	4.0		
SM 320 THERMAL	2.3mm	4.3mm	6.3mm		14mm	18mm		
HFOV (Horizontal Field of View) SM 640 THERMAL	92° 4.9mm	50° 8.7mm	34° 14mm	24° 18mm	16° 24mm	12° 36mm		
HVOF (Horizontal Field of View)	95°	50°	32°	24°	18°	12°		
	33	30	52	24	10			
Standard Paint Options	RAL							
Black	9005							
White	9003							

7035

7001

Cool Grey Mild Grey



Detection, Recognition, Identification of Human Target using 336 Pixel Core

9mm lens	Detection approx. 205m
	Recognition approx. 52m
1	Identification approx. 28m
13mm lens	Detection approx. 300m
	Recognition approx. 74m
	Identification approx. 37m
19mm lens	Detection approx. 450m
	Recognition approx.112m
	Identification approx. 56m
35mm lens	Detection approx. 780m
	Recognition approx. 200m
	dentification approx. 100m
50mm lens	Detection approx. 1.0km
1	Recognition approx. 250m
	Identification approx. 128m
65mm lens	Detection approx. 1.45km
	Recognition approx. 370m
	Identification approx. 170m
100mm lens	Detection approx. 2.1km
	Recognition approx. 540m
	Identification approx. 270m

Detection, Recognition, Identification of Vehicle with 2.3 critical dimension using 336 Pixel Core

9mm lens	Detection approx. 590m
	Recognition approx. 150m
	Identification approx. 74m
13mm lens	Detection approx. 840m
	Recognition approx. 215m
	Identification approx. 108m
19mm lens	Detection approx. 1.3km
	Recognition approx. 330m
	Hentification approx. 165m
35mm lens	Detection approx 2.15km
	Recognition approx. 560m
	Identification approx. 280m
50mm lens	Detection approx. 2.6km
	Recognition approx. 700m
	Identification approx. 350m
65mm lens	Detection approx. 3.9km
	Recognition approx. 1 km
	Identification approx. 530m
100mm lens	Detection approx. 5.3km
	Recognition approx. 1.5km
	Identification approx. 760m

Detection, Recognition, Identification of Human Target using 640 Pixel Core

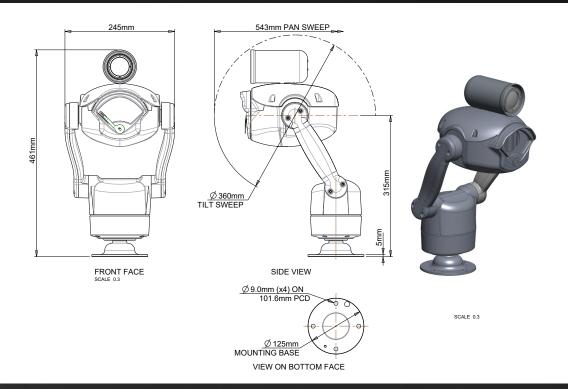
13mm lens	Detection approx. 390m
	Recognition approx. 95m
	Identification approx.47m
25mm lens	Detection approx. 820m
	Recognition approx. 210m
	Identification approx. 104m
35mm lens	Detection approx. 960m
	Recognition approx. 245m
	ldentification approx. 122m
50mm lens	Detection approx. 1500m
	Recognition approx. 380m
	Identification approx. 190m
65mm lens	Detection approx. 1.9km
	Recognition approx. 490m
	Identification approx. 245m
100mm lens	Detection approx: 2450m
	Recognition approx. 650m
	Identification approx. 330m

Detection, Recognition, Identification of Vehicle with 2.3 critical dimension using 640 Pixel Core

13mm lens	Detection approx. 1080m
	Recognition approx. 275m
	Identification approx. 140m
25mm lens	Detection approx. 2200m
	Recognition approx. 580m
	Identification approx. 290m
35mm lens	Detection approx. 2550m
	Recognition approx. 680m
	Identification approx. 340m
50mm lens	Detection approx. 3,9km
	Recognition approx. 1080m
	Identification approx. 540m
65mm lens	Detection approx. 4.8km
	Recognition approx. 1350m
	Identification approx. 680m
100mm lens	Detection approx. 6km
	Recognition approx. 1750m
	Identification approx. 900m

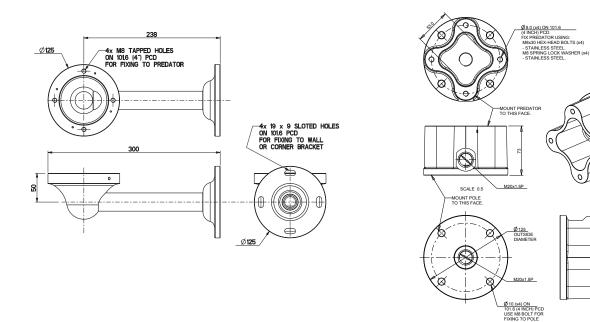


Predator with no lamps Weight: 14kg



Predator Bracketry Wall Bracket Weight: 3kg

Pole Mount Adapater (PMA) Weight: 3.6kg







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