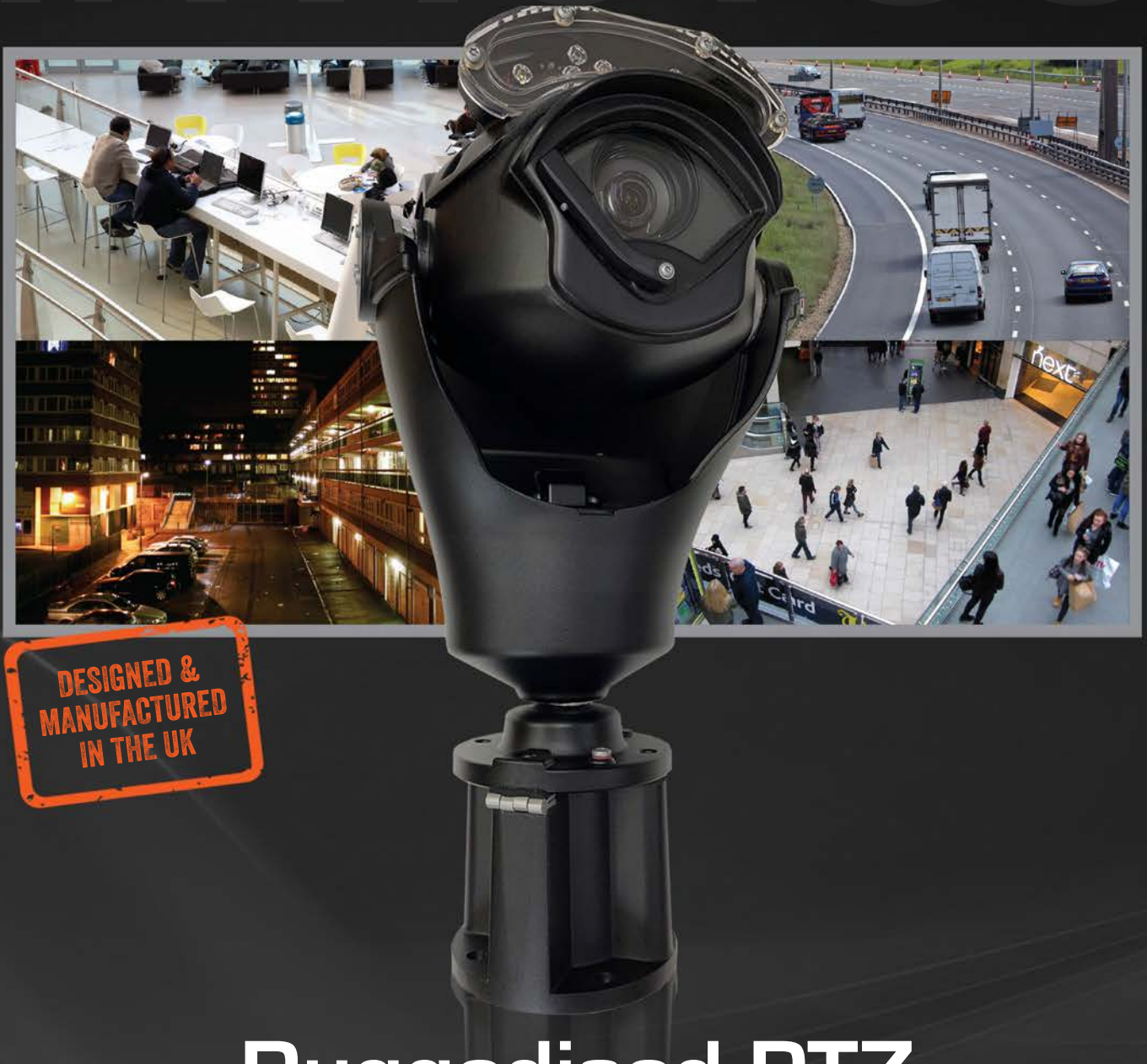


INVICTUS



**DESIGNED &
MANUFACTURED
IN THE UK**

Ruggedised PTZ Surveillance Camera HD only or Hybrid HD & Analogue

If you're looking for great video quality combined with low light performance, choice of 23x or 32x zoom, optional IR to c200m / IR & white light to c140m, and a very competitive price tag, Invictus is the ideal choice!

INVICTUS



* Invictus camera shown features optional TXA transmission module available with HD model only.

HD1080P or HYBRID

Multi stream 1080p (up to 60ips) allows flexibility for both live and record stream outputs via Industry compatible ONVIF or SDK connections.

Hybrid model offers HD with analogue video & RS485 control, allowing addition to legacy analogue systems without infrastructure upgrades. After infrastructure upgrades, customers benefit from stunning HD and IP control with no hardware changes.

Ruggedised

Our ruggedised IP67 Invictus cameras are designed to withstand harsh environments, such as extreme temperatures, dust, moisture, and vibrations.

In addition, IK10 is the highest impact protection rating for electrical enclosures, meaning they can resist 20 joules of external mechanical shock or impact.

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 adds up to greatly reduced power consumption for applications such as solar, fuel, battery and other low voltage sensitive applications. POE option also available.

IR & LED White Light

Invictus can be selected without lighting, with integrated IR only to c200m or with IR & white light to c140m.

IR is ideal to produce clear evidential video quality images, whatever the lighting conditions.

White light offers powerful illumination for overt applications, such as intruder tracking and anti-social behaviour deterrence.

On Board Recording

Optional full HD JPEG frame recording inside the camera. Trigger options include: network loss, alarm, preset position, scheduled, manual or always on recording.

File Transfer Protocol (FTP) option provides automated off camera recorded media transfer. Options for internal recording memory up to 256Gb, ensuring no information is lost. Can be used for Time-lapse event capture of construction site progress.

Latest Camera Module

All Invictus cameras are equipped with Sony's industry-leading Exmor R 1/2.8" sensor, delivering exceptional low-light performance and colour integrity.

Larger sensor = brighter, crisper and more defined colour images at night.

360 Degree View

Continuous rotation pan, unobstructed 360° view, 160° tilt all contribute to unhindered views usually associated with dome alternatives.

Attack Detect & Base Scan On Impact

Attack Detect & Base Scan on Impact features ensure that if a physical attack is detected, the camera will automatically recalibrate to its original position – ensuring alarms and positional presets are not compromised.

The camera will also look down and do an immediate 360° scan of the pole base to provide critical full video footage of the situation below.

Direct Drive Mechanism

Unlike many competitor products that utilise belt based drive systems, Invictus incorporates ultra reliable and extremely quiet direct drive mechanisms.

This results in long life, high and consistent preset accuracy and long term reliability.

Paint Options

Standard high quality black or white paint finish, with all RAL colours available as options.

Optional long life 'Extreme' paint finish for marine/coastal applications available too, ensuring that the operational and aesthetic features of the Invictus are protected.

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.

3 Year Warranty

Our standard warranty is 3 years.

In addition, our low cost 5 year warranty extension package offers peace of mind and additional layers of benefit for customers' framework and maintenance agreements.

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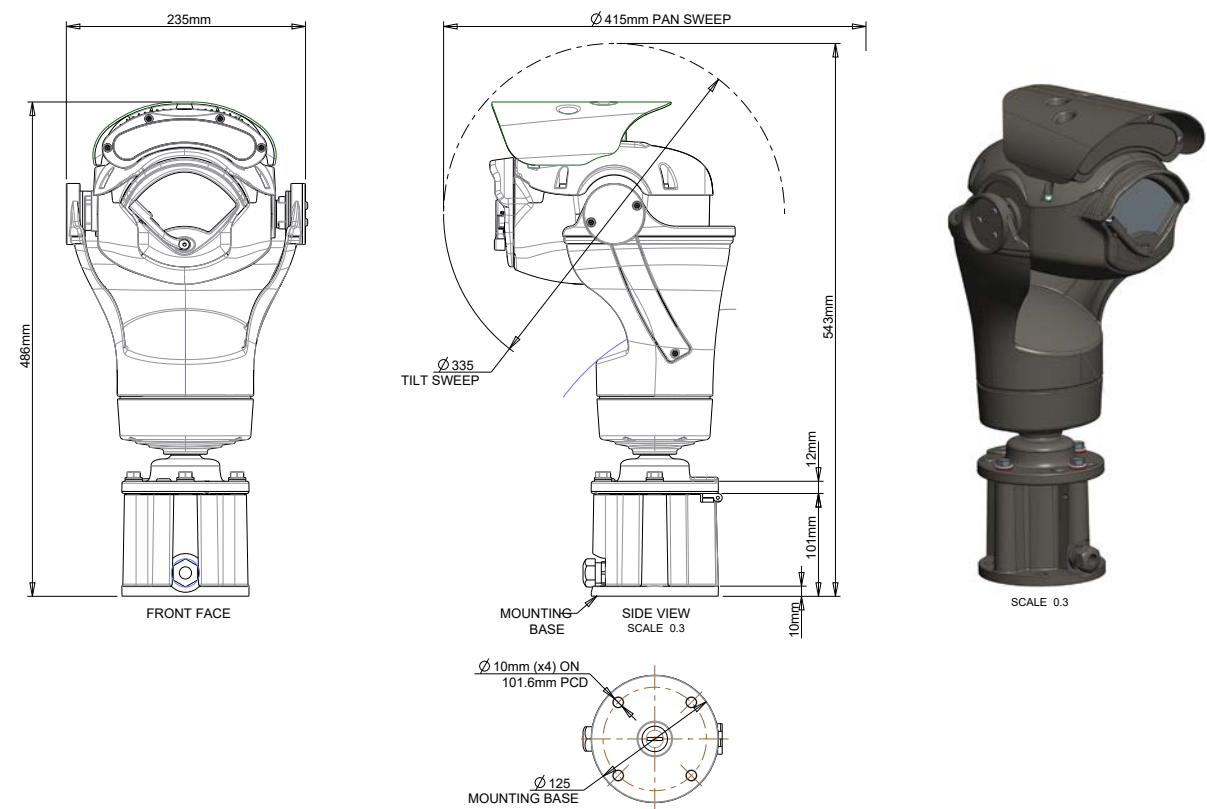
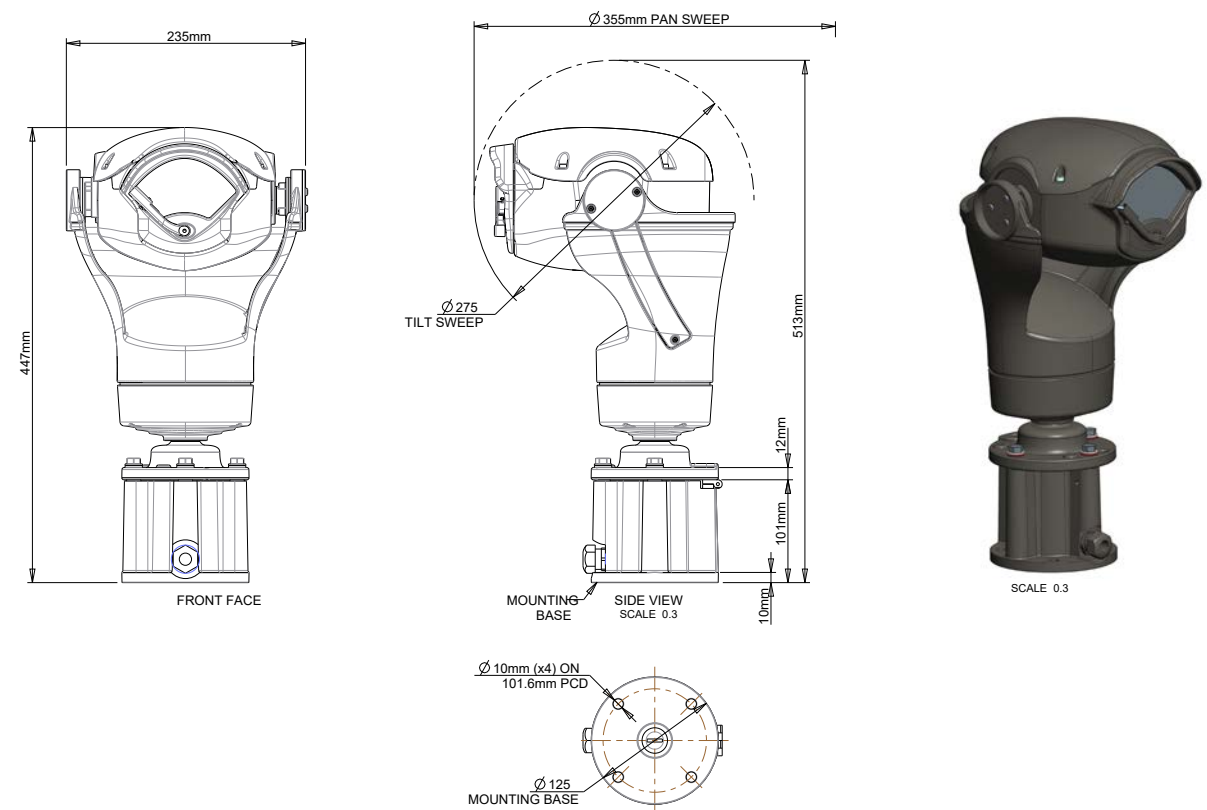
Camera Specifications

	INVICTUS 32x HD: 1080P HD, low light, wiper, black Part no INVHD3-32-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, black Part no INV3-32-B	INVICTUS 32x with 140m IR HD: 1080P HD, low light, wiper, IR, black Part no INVHD3-32-IR-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, IR, black Part no INV3-32-IR-B	INVICTUS 32x with 140m IR & WL HD: 1080P HD, low light, wiper, IR & white light, black Part no INVHD3-32-IRWL-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, IR & white light, black Part no INV3-32-IRWL-B	INVICTUS 32x POE HD: 1080P HD, low light, wiper, black, POE Part no INV3-32-B-POE HYBRID: Not available	INVICTUS 32x POE with 140m IR HD: 1080P HD, low light, wiper, IR, black, POE Part no INVHD3-32-IR-B- POE HYBRID: Not available	INVICTUS 32x POE with 140m IR & WL HD: 1080P HD, low light, wiper, IR & white light, black, POE Part no INV3-32-IRWL-B- POE HYBRID: Not available	INVICTUS 32x with 200m IR HD: 1080P HD, low light, wiper, long-range 200m IR, black Part no INVHD3-32-IR200-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, long-range 200m IR, black Part no INV3-32-IR200-B	<div>Key</div> <div><div>●</div> Standard</div> <div><div>○</div> Option</div> <div><div>◇</div> Additional Cost Option</div>
								<div>Notes</div>
Hybrid (Analogue Video and RS485) †	○	○	○	-	-	-	○	* Illumination can be programmed to 100, 80, 60, 40 or 20% Power Usage
Optical Zoom/Digital Zoom	32/12	32/12	32/12	32/12	32/12	32/12	32/12	
Weight (kg)	7.7	8.2	8.2	7.7	8.2	8.2	8.2	
Power Consumption (w)								
Idle (Power Saving Enabled)	12	12	12	12	12	12	12	* * Total Power Full Load excludes optional heaters
+ 100% Illumination *	-	25	25	-	25	25	25	
+ Full PTZW Control	11	11	11	11	11	11	11	
Total Power Full Load * *	23	48	48	23	48	48	48	
IR Illumination (850nm)		●	●		●	●	●	* * * Based on 25ips. See additional table for DORI and Frame integrated ranges
Range (m) * * *	-	140	140	-	140	140	200	
Top Angle°	-	30	30	-	30	30	30/10	
Bottom Angle°	-	-	-	-	-	-	-	
White Light Illumination	-	-	●	-	-	●	-	* * * * Recommended to be used with Washer Control Power Supply
Range (m)	-	-	140	-	-	140	-	
Top Angle°	-	-	30	-	-	30	-	
Bottom Angle°	-	-	-	-	-	-	-	
Options								† † For Covert ‘No Glow’ 940nm IR option see additional detail
Wiper	●	●	●	●	●	●	●	
Washer Control * * * *	○	○	○	○	○	○	○	
POE - Power Option (90w)	◇	◇	◇	●	●	●	◇	
Hinge Mount Adapter (HMA)	●	●	●	●	●	●	●	† † † Onboard JPG Recording options for 128 or 256Gb
Covert IR (940nm) in place of 850nm † †	-	◇	◇	-	◇	◇	◇	
On-board Recording † † †	◇	◇	◇	◇	◇	◇	◇	
Rainshield	●	●	●	●	●	●	●	
Sunshield	◇	◇	◇	◇	◇	◇	◇	Part No camera colour identification: B Black W White X Custom colour
Bird Spikes	◇	◇	◇	◇	◇	◇	◇	
Heater and Thermostat (-30°C, +14W)	◇	◇	◇	◇	◇	◇	◇	
Dual Heater and Thermostat (-40°C, +28W)	-	-	-	-	-	-	-	
TX/TXA - transmission over 4G/5G/ satellite/wireless	◇	◇	◇	-	-	-	◇	
Standard Paint								
Black (indicated by “B” in part no above)	●	●	●	●	●	●	●	
White (substitute “W” for “B” in part no above)	○	○	○	○	○	○	○	
Light Grey	◇	◇	◇	◇	◇	◇	◇	
Mid Grey	◇	◇	◇	◇	◇	◇	◇	
Bespoke	◇	◇	◇	◇	◇	◇	◇	
Extreme Paint								
Black	◇	◇	◇	◇	◇	◇	◇	
White	◇	◇	◇	◇	◇	◇	◇	
Bespoke	◇	◇	◇	◇	◇	◇	◇	

Camera Specifications

	INVICTUS 23x HD: 1080P HD, low light, wiper, black Part no INVHD3-23-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, black Part no INV3-23-B	INVICTUS 23x with 140m IR HD: 1080P HD, low light, wiper, IR, black Part no INVHD3-23-IR-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, IR, black Part no INV3-23-IR-B	INVICTUS 23x with 140m IR & WL HD: 1080P HD, low light, wiper, IR & white light, black Part no INVHD3-23-IRWL-B HYBRID: 1080P HD + analogue video & RS485 control, low light, wiper, IR & white light, black Part no INV3-23-IRWL-B	INVICTUS 23x POE HD: 1080P HD, low light, wiper, black, POE Part no INV3-23-B-POE HYBRID: Not available	INVICTUS 23x POE with 140m IR HD: 1080P HD, low light, wiper, IR, black, POE Part no INV3-23-IR-B-POE HYBRID: Not available	INVICTUS 23x POE with 140m IR & WL HD: 1080P HD, low light, wiper, IR & white light, black, POE Part no INV3-23-IRWL-B-POE HYBRID: Not available	<div>Key</div> <div>● Standard</div> <div>○ Option</div> <div>◇ Additional Cost Option</div>
							<div>Notes</div>
Hybrid (Analogue Video and RS485)†	○	○	○	-	-	-	* Illumination can be programmed to 100, 80, 60, 40 or 20% Power Usage
Optical Zoom/Digital Zoom	23/12	23/12	23/12	23/12	23/12	23/12	
Weight (kg)	7.5	8.0	8.0	7.5	8.0	8.0	
Power Consumption (w)							
Idle (Power Saving Enabled)	12	12	12	12	12	12	* * Total Power Full Load excludes optional heaters
+ 100% Illumination *	-	25	25	-	25	25	
+ Full PTZW Control	11	11	11	11	11	11	
Total Power Full Load * *	23	48	48	23	48	48	
IR Illumination (850nm)		●	●		●	●	* * * Based on 25ips. See additional table for DORI and Frame integrated ranges
Range (m) * * *	-	140	140	-	140	140	
Top Angle°	-	30	30	-	30	30	
Bottom Angle°	-	-	-	-	-	-	
White Light Illumination	-	-	●	-	-	●	* * * * Recommended to be used with Washer Control Power Supply
Range (m)	-	-	140	-	-	140	
Top Angle°	-	-	30	-	-	30	
Bottom Angle°	-	-	-	-	-	-	
Options							†† For Covert 'No Glow' 940nm IR option see additional detail
Wiper	●	●	●	●	●	●	
Washer Control * * * *	○	○	○	○	○	○	
POE - Power Option (90w)	◇	◇	◇	●	●	●	
Hinge Mount Adapter (HMA)	●	●	●	●	●	●	††† Onboard JPG Recording options for 128 or 256Gb
Covert IR (940nm) in place of 850nm††	-	◇	◇	-	◇	◇	
On-board Recording†††	◇	◇	◇	◇	◇	◇	
Rainshield	●	●	●	●	●	●	
Sunshield	◇	◇	◇	◇	◇	◇	Part No camera colour identification: B Black W White X Custom colour
Bird Spikes	◇	◇	◇	◇	◇	◇	
Heater and Thermostat (-30°C, +14W)	◇	◇	◇	◇	◇	◇	
Dual Heater and Thermostat (-40°C, +28W)	-	-	-	-	-	-	
TX/TXA - transmission over 4G/5G/satellite/wireless	◇	◇	◇	-	-	-	
Standard Paint							
Black (indicated by "B" in part no above)	●	●	●	●	●	●	
White (substitute "W" for "B" in part no above)	○	○	○	○	○	○	
Light Grey	◇	◇	◇	◇	◇	◇	
Mid Grey	◇	◇	◇	◇	◇	◇	
Bespoke	◇	◇	◇	◇	◇	◇	
Extreme Paint							
Black	◇	◇	◇	◇	◇	◇	
White	◇	◇	◇	◇	◇	◇	
Bespoke	◇	◇	◇	◇	◇	◇	

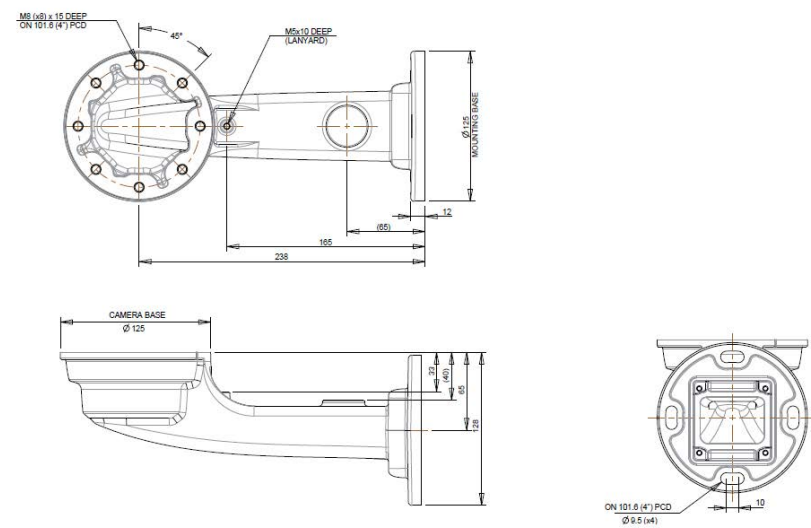
Dimensions



Invictus mounting bracket options

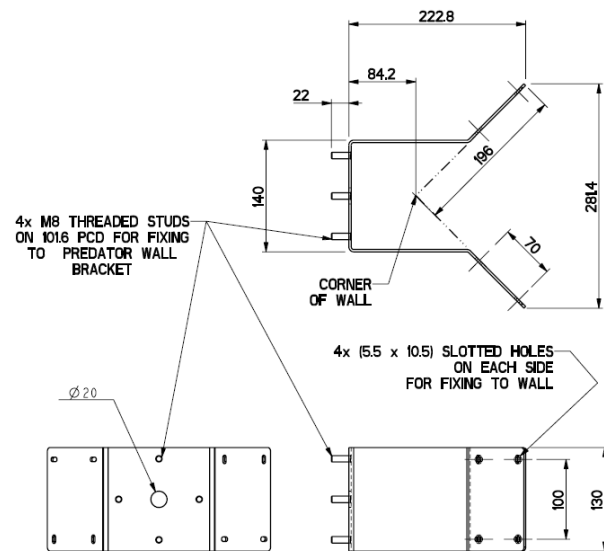
Invictus Wall Bracket
INV-WBRKT

Weight 1kg



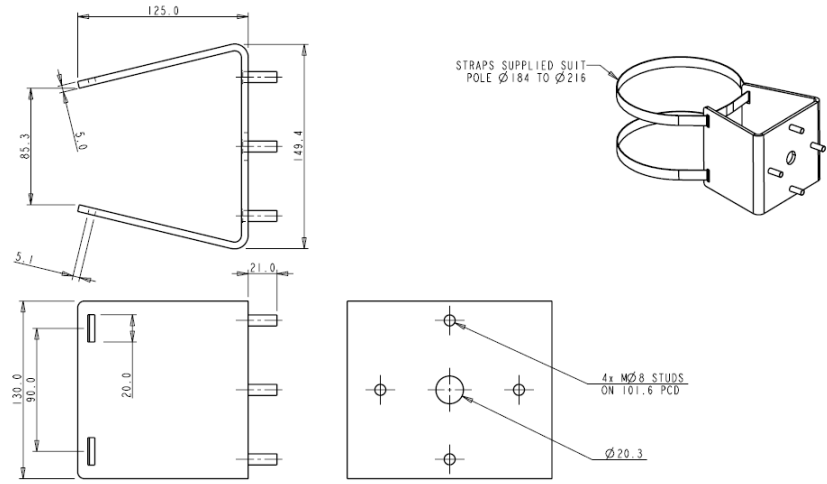
Invictus Corner Bracket
INV-CB100

Weight 2.2kg



Invictus Pole Mount Bracket
INV-PMB

Weight 2.5kg



INVICTUS

INVICTUS HYBRID: Simultaneous HD and Analogue in one PTZ camera

Analogue 4:3 700TV Lines



FROM THIS



Full HD 1080p



TO THIS

PRODUCT SPECIFICATION	23x	32x
Colour/Mono	Yes	Yes
Imager (CMOS)	1/2.8" Sony Exmor R	1/2.8" Sony Exmor R
Pixels (Megapixels)	Approx 2.38	Approx 2.38
Horizontal view angle	66.45° (W) - 3.26°(T)	66.45° (W) - 2.42°(T)
Lens Size	4.25 - 98mm	4.25 - 136mm
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 Invictus units have the following functions	
Analogue Protocols (Hybrid version)	360 Vision / Pelco D / Pelco P / Forward Vision baud rates 9600, 4800, 2400. Note - coax telemetry is NOT supported	
Analogue Video	1V pk-pk PAL/NTSC 25/30FPS (50/60 fields per second) 4:3 aspect ratio	
Focus/Iris	Auto/Manual	
Presets	101	
Tours	4 (max 90 presets per tour)	
Learned Patrols	4 mimic tours - up to 10 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, 160°, 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 or off	
Operating temperature	-30°C (with optional heater) to +65°C	
Power	22-36VDC as standard; POE option at cost (HD only)	
Mounting options	Wall, Corner, Pole and Soffit	
Certification	UKCA, CE & FCC approval: Ingress IP67; IK10 Independent power certification and Elexon Charge Codes available	
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	

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