



CCTV | IP PTZ

X3 STORM



Key Features

- Ultra-tough, Electropolished 316 Stainless Steel rugged PTZ camera
- PoE 90W (802.3bt Midspan) Version available
- Adaptive White Light and IR (zoom-linked) operation
- VMS Integration, including Redvision VMS1000
- Rugged Mounting Bracket Options
- Brushless Stepper Motors for Resilience and durability
- ONVIF Compliant
- SD Card recording option, up to 1TB.







X3 STORM Rugged PTZ Camera

The X3-STORM rugged, 4 Megapixel PTZ camera is designed for extreme environment surveillance applications. The camera body is precisionmanufactured from Electropolished 316 Stainless-Steel, with toughened, optically flat glass (polycarbonate option available), making it highly resistant to vandalism and demanding environmental conditions. It has a longlife silicone wiper as standard and high-efficiency, adaptive, long-range white-light and IR LED illumination as options, for exceptional night-time and lowlight operation.

Everything about the X3-STORM rugged, ball PTZ is of high quality. All moving parts are designed to last; from its long-life, silicone wiper through to the motor technology used in its pan and tilt mechanism and its 30x optical zoom camera module, with exceptional low-light performance. The camera is perfectly balanced, minimising component wear and giving a mean time before failure (MTBF) rating of 7 years.

Ultimate Resilience

The X3-STORM is designed for the ultimate in resilient, rugged surveillance camera applications, such as Coastal, Heavy Industrial, Tunnels, Highways, Mining and Petrochemical environments. All exterior components are made from 316 grade Stainless Steel, resulting in excellent corrosion resistance when exposed to the elements.

The unique manufacture of the X3-STORM uses an investment casting process, with critical tolerance machining to ensure incredible precision with minimal material wastage.

Simple Install, Maintenance Free

The X3-STORM is designed for easy installation and configuration. A complete range of brackets, mounts and cable extensions allow upright or hanging installation in any environment.

The X3-STORM mounting bracket has a 4" PCD mount with M8 clearance holes. A complete range of brackets, mounts and cable extensions are also available, which are electropolished 316 Stainless Steel.

The X3-STORM utilises a tooled silicone wiper option to keep the camera's view through the flat, scratch-resistant window free of water and dirt. A linkage-free, sprung steel mechanism reduces wiper wear and a polycarbonate window gives an even tougher option. Wiper activation is by a button press on VMS systems, including the VMS1000, or by pre-set.

Comprehensive Feature Set

The X3-STORM has an extensive range of features including four video streams for recording, visualisation, set-up and servicing; H265, H264 and MJPEG compression; optional 1TB maximum SD card-based edge storage; ONVIF compliance to Profile S and G; 400 pre-sets, 12 tours, 12 scans, 6 tracks and 20 privacy masks; alarms, motion detection, intelligent analytics; and its operating temperature range is -40°C to 70°C. A 90W PoE version (802.3bt Midspan) offers quick and easy connectivity via RJ45 socket, operating over a full 100m Cat 5e span.

Exceptional Night Vision

The X3 SOTMR offers powerful infrared (IR) and white light illumination via long-life LEDs. With Osram adaptive illumination technology, the intensity of lighting automatically adjusts based on zoom level and scene conditions to ensure optimal exposure and clarity without overexposure.

Equipped with a high-sensitivity 1/2.8" CMOS sensor, the X2 STORM delivers superb low-light imaging down to 0.01 Lux in colour and 0.001 Lux in monochrome. DORI performance tests indicate effective recognition and identification up to 300 metres. The white light can also be triggered manually or automatically as a visible deterrent to potential intruders.

Intelligent auto-PTZ tracking

The X2 COMBAT includes intelligent auto-PTZ tracking capabilities. It can autonomously follow people or vehicles within the scene, dynamically adjusting zoom and focus to keep the subject clearly in view.



Image	Part Code and Description	
	RVX3S: PTZ, WIPER	30:1 4MP, 316 Stainless Steel Zoom Ball
	RVX3S-POE: PTZ, WIPER. High-Po	30:1 4MP, 316 Stainless Steel Zoom Ball DE (802.3bt Midspan) 60W
		30:1 4MP, 316 Stainless Steel Zoom Ball 2 alarm outputs, WIPER
	RVX3S-IR: Ball PTZ, IR, WIPER	30:1 4MP, 316 Stainless Steel Zoom
	1	30:1 4MP, 316 Stainless Steel Zoom Ball h-PoE (802.3bt Midspan) 90W
	RVX3S-ALM-IR: PTZ, 4 alarm inputs, 2	30:1 4MP, 316 Stainless Steel Zoom Ball 2 alarm outputs, IR, WIPER
	RVX3S-IRWL: PTZ, IR/ White Light,	30:1 4MP, 316 Stainless Steel Zoom Ball WIPER
		30:1 4MP, 316 Stainless Steel Zoom Ball , WIPER. High-PoE (802.3bt Midspan)
		30:1 4MP, 316 Stainless Steel Zoom Ball 2 alarm outputs, IR/ White Light, WIPER



Brackets and Accesories

Image	Part Code and Description	Drawing
	RVX3-STANDOFF: 120 mm Standoff mount bracket	шш 027
	RVX3-WALL: Wall mount bracket	286 mm
	RVX3-VISOR : Sun & rain Visor (only applies when camera is mounted in upright position)	224 mm
16	RVX2-WASH: Washer nozzle kit – compatible with standard CCTV wash pumps	280
	RVX2-PSU: 24V DC PSU for X2/X3/X4 non alarm and alarm ball PTZ	
	RV-POE-INJ-90W : 90W Single Port Multi-Gig Power over Ethernet Midspan IEEE 802.3bt Compliant Power Injector	ॐ ≈ σ
Other	RVX3-SD, RVX3-PC4	



Technical Specification

Camera		
Image Sensor	1/2.8" Progressive Scan CMOS	
Effective Pixels	2592(H)×1520(V)	
Electronic Shutter	Auto/Manual, 1/5 ~ 1/20,000s	
Min. illumination	Color: 0.01 Lux @ (F1.6, AGC ON) B/W: 0.001 Lux, 0 Lux (IR LED ON)	
S/N Ratio	55 dB	
Day/Night	Auto(ICR)/Day / Night/Timing	
Wide Dynamic Range	True WDR	
IR On/Off Control	Auto/Manual	
Lens		
Focal Length	5.3 ~ 159mm	
Max. Aperture	F1.6 ~ F4.3	
Angle of View	H: 55° ~ 2.3°, V: 41.6° ~ 1.7°	
Optical Zoom	30x	
Digital Zoom	16x	
Focus Control	Auto/Manual	
PTZ		
	Pan: 360° continuous Tilt: 150°	
Pan/Tilt Range	Fair. 300 Continuous Filt. 130	
Manual Control	Pan: 0.1° ~ 50°/s, Tilt: 0.1° ~ 50°/s	
Speed		
Preset Speed	Pan: 50°/s, Tilt: 50°/s	
Presets	400	
PTZ Mode	6 Track, 12 Scan, 12 Tour (up to 32 presets per tour)	
3D Positioning	Supported	
Power-Off Memory	Supported	
PTZ Status Display	Supported	
Idle Motion	Activate Preset/ Scan/ Tour/ Track if there is no command in the specified period	
Video		
Encoding	H.264 / H.265 / MJPEG / Smart Encode	
Max. Resolution	4MP (2592×1520)	
Streaming Capability	3 Streams	
Stream/Frame Rate	Stream1: 2592×1520, 2560×1440, 2304×1296, , 1920×1080, 1280×720 @ 25/30fps Stream2: 1920×1080, 1280×720, D1, VGA, 640×360, CIF, QVGA @ 25/30fps Stream3: VGA, CIF, QVGA @ 25/30fps	
Bit Rate Control	CBR/VBR	
Bit Rate	Stream1: 200kbps~12Mbps Stream2: 10kbps~3Mbps Stream3: 10kbps~1.5Mbps	
Image Setting	HLC / BLC / Defog / WDR / Anti-shake (DIS) / Brightness / Saturation / Sharpness / Contrast / Exposure Control / Scene	
Noise Reduction	2D/3D DNR	
Region of Interest	Off/On (8 Zone, Rectangle)	

Network		
Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP, TLS/SSL, IGMP, DNS, DDNS, ICMP, QOS	
Interoperability	ONVIF (Profile S, Profile G, Profile T), SDK, CGI	
Streaming Method	Unicast	
Max. User Access	10 Users	
Edge Storage	Built-in Micro SD slot, up to 1TB	
Web Viewer	Microsoft Windows: ≤IE11, Chrome, Firefox, Microsoft Edge MacOS: Chrome, Firefox	
Intelligence & Alarm		
Auto Tracking	Supported	
Alarm	Motion alarm, Disk alarm, Day/Night switch alarm, Network alarm, Audio abnormal alarm, Alarm push	
Intelligent Video Analytics (IVA)	Intrusion, Single Line Crossing, Double Line Crossing, Multi-Loitering, Retrograde, Illegal Parking, Personnel Count, Smart Motion, Intelligent Object Tracking, Smoke and Flame Detection	
IVA on Preset	Supported	
Electrical and Physica	al .	
Power Supply	24VDC via RVX2 PSU module; input 100~240VAC 50/60Hz. PoE Version: RJ45 socket, takes power & data (90W)	
Power Consumption	24VDC: 50W. PoE: 802.3BT Midspan 90W (LED models)	
Dimensions	Non-Lamp models: 386 x 211 x 214mm Lamp models: 386 x 313 x 214mm	
Weight	14kg without lamps, 18kg with lamps	
Operating Temperature	-40°C ~ +70°C	
Impact Rating	Meets IK10 standards (with Polycarbonate window fitted)	
Corrosion Testing	BS EN ISO 9227:2022 1000 Hours Salt Spray	
Ingress Protection	Meets IP68 standards, NEMA 4x requirements	
Vibration Testing	TEN 50556:2011, clauses 6.3.2 & 11 (Table 3, Class AL2) EN 60068-2-64- 2008 Test Fh	
EMC	BS EN 55032:2015+A11:2020, Class A BS EN 50130-4:2011+A1:2014	
Camera Body	316 Stainless-Steel	
Wiper Blade	Tooled Silicone	
Colour	Electropolished Stainless Finish. Custom RAL made to order.	
Lighting & DORI		
Illumination Range	IR (850nm) to 300m, White Light to 250m	
DORI Category	Distances calculated as per IEC 62676-4:	
Detection (25PPM)	Wide: 99.5m, Tele: 2,583.7m	
0	Wide: 20.0m, Tole: 1.022 Fr-	

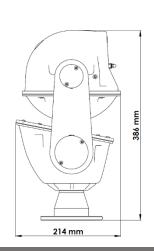
Wide: 39.8m, Tele: 1,033.5m

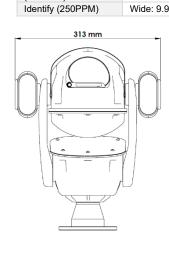
Wide: 19.9m, Tele: 517.0m



Supported

Privacy Masking

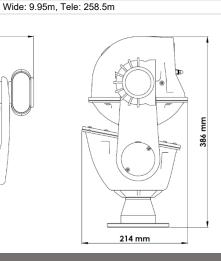




Observation (62.5PPM)

Recognition

(125PPM)







Environmental	
Cold Test	EN 60068-2-1:2007 Test Ae -40°C
Dry Heat Test	EN 60068-2-2:2007 Test Be +70°C
Damp Heat Test, Cyclic Test	EN 60068-2-30:2005 Test Db
Vibration Test	EN 50556:2018 Section 6.3.2 & Table 4 Class AL & Section 6.3.1.5 & EN 60068-2-64:2008 Test Fh
IPX8	IEC 60529:1989+A1:1999+A2:2013+COR1:2019
IP6X	IEC 60529:1989+A1:1999+A2:2013+COR1:2019
Salt Spray	BS EN ISO 9227:2022 1000 Hours Salt Spray

EMC Emission	
Conducted Emissions at Mains Power Port (150kHz-30MHz)	EN 55032:2015+A11:2020+A1:2020
Asymmetric Mode Conudcted Emissions (150kHz-30MHz)	EN 55032:2015+A11:2020+A1:2020
Radiated Emissions (30MHz – 1GHz)	EN 55032:2015+A11:2020+A1:2020
Radiated Emissions (Above 1Ghz)	EN 55032:2015+A11:2020+A1:2020
Harmonic Current Emission	EN IEC 61000-3-2:2019+A1:2021
Voltage Fluctuations and Flicker	EN 61000-3-3:2013+A1:2019+A2:2021

EMC Immunity	
Electrostatic Discharge	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Radiated Immunity (80MHz-1GHz, 1800MHz, 2600MHz, 3500MHz, 5000Mhz)	EN 55035:2017+A11:2020
Radiated Immunity (80MHz-2.7GHz)	EN 50130-4:2011+A1:2014
Electrical Fast Transients & Burst at AC Power Port	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Electrical Fast Transients & Bursts at Signal Port	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Surge at AC Power Port	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Surge at Signal Port	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Conducted Immunity at AC Power Port (150kHz-80MHz)	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Conudcted Immunity at Signal Port (150kHz-80MHz)	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Voltage Dips and Interruptions	EN 55035:2017+A11:2020 & EN 50130-4:2011+A1:2014
Mains Supply Voltage Variations	EN 50130-4:2011+A1:2014