

CCTV | IP & Analogue PTZ

X3 STORM S - HYBRID





Key Features

- Ultra-tough, Electropolished 316 Stainless
 Steel rugged PTZ camera
- Dual IP and Analogue PTZ Camera
- Pelco P and D Telemetry
- ONVIF (Profile S, G & T) Compliant
- Adaptive White Light and IR (zoom-linked) operation
- VMS Integration, including Redvision
 VMS1000™
- Rugged Mounting Bracket Options
- Brushless Stepper Motors for Resilience and Durability
- SD Card recording option, up to 256GB.
- Long Life Silicone Wiper







X3 STORM rugged ball PTZ

The X3-STORM rugged, 4 Megapixel PTZ camera is designed for extreme environment surveillance applications. The camera body is precision-manufactured 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 long-life 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.

Dual Analogue and IP PTZ

The Hybrid X3-STORM can be used as either an IP or an analogue PTZ camera. This allows users to install the unit into sites with legacy analogue infrastructure, and keep the same HD camera for when an IP upgrade is permitted. The camera has coaxial video output, and Pelco P or D telemetry control; along with IP connectivity and ONVIF compliance.

Intuitive, operator control

The X3-STORM has intuitive, operator control, from fast pan and tilt speeds of up to 50° / second to speeds of less than 0.1° / second, for when an operator is precisely tracking a target. The STORM also features long-life, super-efficient, white-light and IR LED illumination technologies, for night-time operation.

3D positioning allows operators simple control of the X3-STORM PTZ. Quick and simple setup directly from the STORM's Web User Interface; or tracking targets by mouse click from a compatible control platform, latency and over run are no longer an issue.

VMS Integration Including Redvision VMS1000

ONVIF is an open industry standard that defines a communication protocol for IP-based video surveillance devices. This allows different manufacturers' cameras and video management software (VMS) to interoperate. Redvision VMS1000 is an ONVIF-compliant VMS that can be used to manage a wide range of IP cameras, with an enhanced SDK level integration into Redvision's cameras.

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.

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.

Extensive features

The X3-STORM has an extensive range of features including three video streams for recording, visualisation, set-up and servicing; H265, H264 and MJPEG compression; optional 256GB 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.

Night-Time Performance

The Redvision X3-STORM rugged, ball PTZ cameras have infra-red (IR) and white light illumination options, using long-life, super-efficient LEDs. Detection tests show that the X3-STORM performs up to 300m. The X3-STORM has Osram adaptive illumination, automatically adjusting IR and white light intensity in proportion to zoom and scene content. White light can be switched on as a visual deterrent to intruders.

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.



Image	Part Code and Description
	RVX3S - HYB: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, WIPER - Electropolished finish RVX3S - HYB-ALM: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, 4 alarm inputs, 2 alarm outputs, WIPER - Electropolished finish
	RVX3S-HYB-IR: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, IR, WIPER - Electropolished finish RVX3S-HYB-ALM-IR: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, 4 alarm inputs, 2 alarm outputs, IR, WIPER - Electropolished finish
	RVX3S-HYB-IRWL: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, IR and White Light, WIPER - Electropolished finish RVX3S-HYB-ALM-IRWL: 30:1 4MP Hybrid IP and Analogue, 316 Stainless Steel Zoom Ball PTZ, 4 electropolished
	Analogue, 316 Stainless Steel Zoom Ball PTZ, 4 alarm inputs, 2 alarm outputs, IR/ White Light, WIPER - Electropolished finish



Brackets and Accesories

Image	Part Code and Description	Drawing
	RVX3-STANDOFF: 120 mm Standoff mount bracket	шш 021 Ø 125 mm
	RVX3-WALL: Wall mount bracket	284 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	289
6.5.0	RV-HYB-PSU: 24V DC PSU for X2/X3/X4 Hybrid Camera	
Other	RVX3-SD: Factory fitted 128 GB on board SD - MUST BE ORDERED WITH CAMERA RVX3-PC4: 4mm Polycarbonate Ball Window Option RVX3-3PC4: 4mm Polycarbonate Ball Window and 3mm Polycarbonate Lamp Window option RVX3-CNR: Stainless Steel Corner Mount adapter for RVX3-WALL - Electropolished finish	



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°, H: 41.6° ~ 1.7°
Optical Zoom	30x
Focus Control	Auto/Manual
PTZ	
Pan/Tilt Range	Pan: 360° continuous Tilt: 150°
Manual Control Speed	Pan: 0.1° ~ 50°/s, Tilt: 0.1° ~ 50°/s
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: 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 / Brightness / Saturation / Sharpness / Contrast / Exposure Control / Scene
Noise Reduction	2D/3D DNR
Region of Interest	Off/On (8 Zone, Rectangle)
Privacy Masking	Supported

Network	
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, G & T), SDK, CGI
Streaming Method	Unicast
Max. User Access	10 Users
Edge Storage	Built-in Micro SD slot, up to 256G
Web Viewer	Microsoft Windows: ≤IE11, Chrome, Firefox, Microsoft Edge MacOS: Chrome, Firefox
Analogue Connectivity	,
Coaxial Video	CVBS
Telemetry	Pelco P and D
Intelligence & Alarm	
Auto Tracking	Supported
Alarm	Motion alarm, Disk alarm, Day/Night switch alarm, Network alarm, Audio abnormal alarm, Alarm push
Electrical and Physica	
Power Supply	24VDC via RVX2 PSU module; input 100~240VAC 50/60Hz.
Power Consumption	24VDC: 50W.
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	ASTM B117 1000 hour Salt-Spray Test
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
Colour	Electropolished Stainless Finish. Custom RAL made to order.
Lighting & DORI	
Illumination Range	IR (850nm) to 300m White Light to 250m
DORI Category	Distance covered
Detection	IR Light: 300m White Light: 250m
Observation	IR Light: 250m White Light: 200m
Recognition	IR Light: 150m White Light: 150m
Identify	IR Light: 75m White Light: 75m







