



Nautilus PTZ Facts:

Designed from the outset to support operation in harsh environments

The new PTZ Camera achieves outstanding and ultra-reliable performance in an immensely rugged housing manufactured from diecast aluminium.

Each axis is driven directly without intermediate belts or gears by using a unique BLDC digital servo drives to give a previously unattainable level of positional accuracy, repeatability, wide dynamic range and smoothness – this results in military performance at commercial cost, with very long life leading to low cost of ownership.

A highly flexible platform accommodating a very wide range of analogue, HD and IP cameras with up to 40x zoom, as well as a wide range of new thermal cameras. The integral adaptive illuminator covers at least 150m, and rotation is continuous in both pan and tilt.

The Rugged PTZ camera platform designed for operation in harsh environments. The camera moves in every direction. This allows the illumination spread and intensity to be finely matched, thus freeing you from the need to flood an entire area with unnecessary lighting. The use of multiple LED infra-red and white emitter technology ensures long life, low power, low heat generation and sufficient brightness.



Brushless motor with less noise and no belt

Nautilus Specific Unique Features:

- Silent operation
- Aerodynamic design & Wind shear accreditation
- Light weight for the range
- Salt spray Anti-Corrosion
- Multi protocol
- Intelligent controllable IR & White Light
- Flat glass distortion free image
- Designed and manufactured in UK

Model Number	Description
LZ-NDNC18X	SD Analogue 18x, 1/4" Super HAD II CCD, 670 TVL, Wiper
LZ-NDNC18X-IR	SD Analogue 18x with IR & White light Illuminator, 1/4" Super HAD II CCD, 670 TVL, Wiper
LZN-NDNC30x	HD IP 30x, 2.1 megapixel 1/2.8" CMOS, Wiper
LZN-NDNC30X-IR	HD IP 30x with IR & White light Illuminator, 2.1 megapixel 1/2.8" CMOS, Wiper
LZ-NIJCB	Intelligent Junction Box
LZ-NSJCB	Standard Junction Box
LZ-10MUC	10m Cable

*Exact products and specifications shown may vary by geographic and subject to change without notice. Actual products may differ from the images appearing in the specification sheet. v1.2

Nautilus PTZ Rugged Camera Platform



- Available in IP, Analogue and Hybrid
- 18x/30x/40x (on request) zoom ratio
- Wash/Wipe option
- Die-cast aluminium housing
- Protected to IP67
- Direct drive, no backlash
- BLDC digital servo pan and tilt drive
- Outstanding accuracy and dynamic range
- Supports wide range of cameras
- Continuous rotation in both pan and tilt

SPECIFICATION-1

Model Number		HD colour day/night 30X	SD analogue colour day/night 18X 40X
Camera	Image Sensor	2.1 megapixel 1/2.8" CMOS	1/4" Super HAD II CCD
	Max. Resolution & Frame Rate	1920 x 1080p @ 25fps	670TVL
	Scanning system	Progressive scan	
	Minimum illumination	Colour: 0.5 Lux B/W: 0.01 Lux ICR on	Colour: 0.6 Lux B/W: 0.01 Lux ICR on
	S/W ratio	52dB	50dB
	ICR	Auto / manual	
	WDR	Yes	
	DNR	3D	2D / 3D
	BLC	On / Off	
	Privacy masking	Yes	
Protocols	CBC C-Dome, Overview, BBV485, Pelco D/P, Samsung SCC-3000, Sensormatic, Forward Vision MICI-300, VCL, Vicon, Pelco Coaxitron™, BBV UTC		
Lens	Lens	30:1, f = 4.3 to 129mm, F1.6 to F5.0	40:1, f = 3.06 to 122.4mm, F1.6 to F4.6
	F.O.V. (Field of View)	65.1-2.34°	60.0° to 1.6°
	Auto Focus	Yes	
	Exposure mode	Auto / manual	

Also available as Hybrid option 'Analogue HD & IP'

Model Number		FHD - IP	SD - Analogue
Encoder	Video compression	H.264	H.264, MPEG-4, MJPEG
	Encoder resolution	1080p / D1	D1, 4CIF, 2CIF, CIF
	FPS	25	
	Dualstream	Yes	
	Protocols	TCP/IP, HTTP, DCHP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP, FTP, QoS, HTTPS, IPv6	-
	Security	Password protected	
	ONVIF	Yes	-

Certifications and Approvals

CE-EN50130-4, EN61000-3-2 & 3-3, EN55022, EN60950-1

UL

FCC part 15

IK10

IP - IEC60529

Vibration IEC60068-2-6

Shock IEC60068-2-7

Sea spray BS EN 60068-2-52

Wind shear BS-6399-2

SPECIFICATION-2

	Ruggedized PTZ
Mechanical	
Construction	Ruggedized construction in die cast aluminium
Pan and tilt manual control speed	0.05 degree to 180 degrees/sec max (both axes)
Pan and tilt movement	360 degrees continuous rotation in both axis
Preset positions	250 with repeatable accuracy of >0.01°
Tours	100 preset tours and 8 mimic tours
Alarm I/O	8 alarm in 1 alarm out
OSD	Time, date and title display
Operating voltage	48VDC
Power consumption	10.8 Watts (nominal) unit with no lights / 25.6 Watts unit with lights operating / 141 Watts max. power with all auxiliaries and maximum load on motors
Operating temperature	10° C to 50° C (standard), -40° C to 50° C (low temperature option), 90% humidity (maximum)
Enclosure	Die-cast aluminium, colour RAL9002, or to meet customer's requirements, a range of scratch resistant windows to support thermal imager and visible light cameras.
Wiper	Yes
IP Rating	IP67
Dimension H x W x D	330 x 300 x 190mm (TBC)
Weight	7.1kg (with IR/White light Illuminator) / 6.8kg (without IR/White light Illuminator)
Shipping dimensions H x W x D	TBC
Shipping weight	TBC

Nautilus

Rugged PTZ Platform

