BOLiN

EX1000HD
Intelligent Long Range Laser Pan Tilt Camera

EX1000HD Series of HD IP Long Range PTZ Cameras are specially designed for outdoor with intelligent PTZ features.

With ultra sensitive CMOS sensors with various zoom ratio optical modules, images with the highest picture qualities are possible. With hardened casing and high precision engineering, these cameras can operate in the most extreme conditions including under high humidity and wet weather.

EX1000HD Series of HD IP Long Range PTZ Cameras will provide quality and stability to set the industry's standard for high performance HD IP PTZ dome cameras.

| HD-SDI | IP | Full HD 1080 | D&N | WDR | PTZ | IP 67 | PoE |

ONVIF

Key Features

High Definition Picture Quality : 4K、3MP、1080P、720P

High Zoom Ratio Lens : 20X、30X

High Speed Smooth Pan Tilt System : Horizontal 360 Degrees Continuous Rotation, Vertical 120 Degrees

Temperature Control System: Operating Temperature -40°C to +60°C

Various New Selection : Intelligent Adaptive Laser Illumination, Auto Day Night Transition, Image Stabilizer, WDR

Various Video Analytics : Motion Tracking, Object Left Behind, Traffic Violations, Auto Tracking, Counting, Illegal Line Crossing

High Precision Mechanical Design

High Definition Optical Glass
Double Sided Coating
External Coating for Water Resistance

High Definition Optical Glass from Switzerland, complete with Double Sided Coating prevents water seepage and increases light penetration of up to an additional +5%. This latest optical glass is also dust and water moisture resistant.
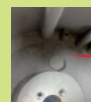
Uniquely designed Hardened Metal Alloy casing is suitable for extreme weather conditions. Tilt angle is up to +30 degrees and down angle is up to -90 degrees. This greatly increases the camera's monitoring areas and overcomes the usual limited viewing angles of ordinary speed domes.

Waterproof seal

Waterproof Shaft and Oil Seal with special Stainless Steel structure will improve water resistance. This will allow cameras to achieve up to IP67 industrial standards.

Using Water Proof Breathable Valve

This allows Pressure Equalization internally and externally. This will not only protect the internal sensitive sensors and optical block but at the same time, reduce moisture build up inside the dome glass casing.
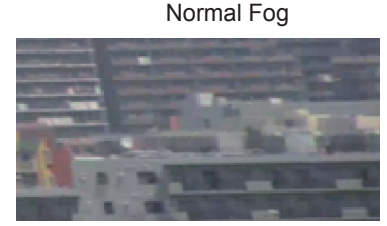
Using High Precision Bearings, we can ensure both smooth and high precision mechanical rotation of our speed domes.

Stainless Steel High Precision Ball Bearing Assembly prolongs camera life as well as prevent corrosion.

High Precision Stepping Motors and Gears ensure Smooth Movement, Stability, Precision and Low Noise.

Image Enhancement Functions

Normal WDR

Normal HD Effect

Normal Fog

Super WDR

Improved Picture Effects

Initiate Defog Function

Intelligent Laser Illumination: According to various zoom ratio, the laser will be synchronized with different angle illumination. This will satisfy various low light environment monitoring.

Adaptive Laser Illumination Distance: Up to 500 Meters

Day Night Switching Function: IR-Cut

Guard Tour Presets: Predefine 4 zones. When a defined zone detects motion, camera will automatically move to that respective area for the defined dwell period and then return to home position.

Preset Time Task Activation: For 7 days a week, set up to 8 periods of specific task movements. Automatically set up these task movements.

Image Stabilizer Function: Under slight moving conditions of the camera, this function will stabilize picture for quality recording of video.

Video Analytics

License Plate Recognition
Car Model Recognition

Target Object Loss or
Object Left Behind

Traffic Violations

Smoke Detection

Facial Recognition

Traffic Flow Counting

Auto Tracking, Illegal Line Crossing and Illegal or Abnormal Movement and Assembly.

Flexible Combinations

Signal Output

IP
HD-SDI
CVBS
WiFi
4G

Installation Methods

Wall Mount

Pole Mount

Hoisting Installation

Wall Corner Mount

BOLiN

Mechanical Specification

Pan / Tilt Angle	Horizontal：±360 degrees continous pan（Highest Speed: 220 degrees / sec） Vertical: +30degrees to -90 degrees (Max Speed:160 degrees/sec)
Preset Position	255（Speed：300 degrees / sec）
Home Position	Support
Cruise	Can support up to 8 different path movements
Environmental	IP67
Adaptive Laser Illuminator	According to various zoom ratio, the laser will be synchronized with different angle illumination. This will satisfy various low light environment monitoring. Adaptive laser illumination distance is up to 300 ~ 500 Meters.
Operating Temperature	-40℃ to +60℃
Operating Humidity	100% Suitable for Use
Power Input	AC24V（POE: Optional）
Power Consumption	10W（Close Laser Beams） 30W（Open Laser Beams）
Dimension	Φ183×424mm
Weight	11.5KG

Camera Specification

	20X S	20X B	30X	20X Starlight	30X / 3MP
Image Sensor	1/2.8" CMOS 2.38MP	1/2.8" CMOS 2MP	1/2.8" CMOS 2.38MP	1/2.8" CMOS 2MP	1/1.9" CMOS 2MP	1/2.8" CMOS 3MP
Lens	4.7~94mm	4.7~94mm	4.3 ~ 129mm	5 ~ 150mm	6.8~136mm	4.5~135mm
Horizontal Angle of View	59.5°(W)~3.3°(T)	62°(W)~3.1°(T)	63.7°(W)~2.3°(T)	62.9°(W)~2.3°(T)	69°(W)~4.1°(T)	61.5°(W)~2.1°(T)
Aperature	F1.6(W)~F3.5(T)	F1.6(W)~F3.3(T)	F1.6(W)~F4.7(T)	F1.6(W)~F4.8(T)	F1.6（W)~F3.4（T)	F1.6(W)~F4.8(T)
Min. Illumination	0.05 lux (F1.6, Color) 0.001 lux (F1.6, B/W)	0.025 lux (F1.6, Color) 0.0025 lux (F1.6, B/W)	0.19 lux (F1.6, Color) 0.02 lux (F1.6, B/W)	0.025 lux (F1.6, Color) 0.0025 lux (F1.6, B/W)	0.003 lux (F1.6, Color) 0.0011 lux (F1.6, B/W)	0.03 lux (F1.6, Color) 0.01 lux (F1.6, B/W)
Shutter Speed	1/1~1/10000s	1/6~1/8000s	1/1~1/10000s	1/6~1/8000s	1/6~1/8000s	1/6~1/8000s
Resolution	1080P60,1080P50,1080P30, 1080P25,1080i60,1080i50, 720P30,720P25	1080P30,1080P25, 720P30,720P25	1080P60,1080P50,1080P30, 1080P25,1080i60,1080i50, 720P30,720P25	1080P30,1080P25, 720P30,720P25	1080P30,1080P25, 720P30,720P25	1080P30,1080P25, 720P30,720P25
Focus	Auto、Push					
White Balance	Auto、Manual					
Exposure	Auto、Manual、Shutter、Iris、Indoor 50HZ、Indoor 60HZ					
Day / Night	Support					
BLC	Support					
WDR	Support					
Defog	Support					
Noise Reduction	2D/3D					
S/N Ratio	≥50db					

IP Specification

Video Compression	MJPEG、H.264 High Profile
Frame Rate	1080P（1920*1080）MAX:60 FPS、720P(1280*720) MAX:30 FPS、D1(720*576) MAX:25 FPS
Protocols	IPv4、IGMP、ICMP、ARP、TCP、UDP、DHCP、PPPoE、RTP、RTSP、QoS、DNS、DDNS、NTP、FTP、UPnP、HTTP、SNMP、SIP、GB/T28181、ONVIF IP Auto Adaptations, Effective monitoring even under data loss environment
Multi-stream	3 data stream function will satisfy various bandwith, frame rates and storage requirements in real time
Audio Compression	AAC-LC Broadband Audio EncodingAudio Quality
Special Function	UNP Technique, resolve Private Network NAT throughput, support movement testing, audio testing, various intelligent functions.
OSD	Customized OSD, Support Side Hook and Artistic Font
Storage	Support 32GB Local Storage（Optional）

HD-SDI Signal and Control

HD-SDI	Signal Fluctuations 800mv -/+10% (external cable extension requirements 75-5, 128 twisted pair shielding , coaxial cable)
Signal Format	1080P60、1080P50、1080P30、1080P25、1080i60、1080i50、720P60、720P50、720P30、720P25
Control Protocol	Pelco RS-485

All models and specifications are subject to change without notice.

Ordering Information

BLC-EX1020HD-L5S	BLC-EX1030HD-L5S	（HD-SDI Signal）
BLC-EX1020HD-L5SN	BLC-EX1030HD-L5SN	（HD-SDI + IP Signal）
BLC-EX1020HD-L5N	BLC-EX1030HD-L5N	（IP Signal）

BLC-EX1020HD-L5NXG   20X Starlight Low Ilumination camera using large 1.9 inch high sensitivity CMOS sensor with customized large aperature zoom lens. This allows the camera to achieve high sensitivity even under low light conditions to monitor and record high quality images.

BLC-EX1030HD3M-L5N   30X 3MP Ultra Low Light camera using the latest new generation high sensitivity 3MP CMOS sensors. Picture quality is up to 2048 x 1536 resolution. Low light condition recordings are greatly improved when compared to traditional cameras.

Installation Diagram

423.00

183.09

Pendant Mount

Upright Mount