

# BL-8520385 | BioEco Series

### 2MP Motorized Lens Face Detection Bullet IP Camera















- 1/2.9" 2MP CMOS sensor
- · H.265 dual stream encoding
- High quality optical lens: 3.35~10.05mm
- 50m IR effective range
- Built-in PoE
- Embedded face detection algorithm
- · White/Black list alarm deployment
- Intelligent video analytics available
- Multiple web browsers supported
- P2P cloud remote viewing by Mobile Application/VMS
- Lightning protection up to 6kV
- IP67 metal casing

### **System Overview**

BioEco Series is a super cost-efficient solution that is powered by cutting-edge technology for crystal clear video monitoring with embedded face detection algorithm, the camera supports White/Black list event alarm deployment in different scenarios. The camera also supports multiple industry-leading Intelligent video analytic functions, such as Face Detection, Line Crossing, Intrusion, Object Left/Lost, Counting for smart event alarms. The P2P cloud function is built-in for every device, allowing more convenient and flexible remote real-time viewing and monitoring.

### **Functions**

#### H.265

H.265 technology is an evolutionary optimization of traditional H.264; it includes a series of encoding strategies such as dynamic ROI, smart 2D&3D noise reduction, and so on, for delivering high-quality videos, and significantly saving up to 70% bandwidth and storage.

#### **Protection**

With the precise mechanical and rugged metal casing design, IP cameras of the BioEco series rated IP67 could stand against water and dust for a long time.

With 10% of input voltage tolerance, the cameras could work safely under extreme or unstable power conditions.

With a working temperature range from -30°C to 60°C, the cameras could adapt to a variety of harsh outdoor environments.

## **Technical Parameters**

Model         BL-852/038S         Flash / DDR         128Mib / 512Mib           Image Sensor         1/2.9° CMOS         IR LED No.         2           Effective Pixels         1920*1080         IR Distance         50m           Min. Illumination         Color; 0.11 Lax@F1.2 (AGC ON) RW. 0.0011 Lax@F1.2 (AGC ON) RW. 0.0011 Lax@F1.2 (AGC ON) S/N Ratio         52dB           Lens         Lens         For         F1.7~F3.0           Mount Type         Board-in         FOV         38*~101*           Focal Length         3.35mm−10.05mm         Optical Zoom         3X           Video           Compression         H.265.7H264         WDR         DWDR           Resolution         11880 (1920 × 1080) 1.3M (1280 × 960) 7.20P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / WBR         White Balance         Support           Bitrate Control         CBR / WBR         White Balance         Support           Multi-Streaming         1080PQ-25(ps. / 900PQ-25(ps. / 90	Camera						
Effective Pixels         1920*1080         IR Distance         50m           Min. Illumination         Color; 0.1 Lux@F12 (AGC ON) BAW: 0.001 Lux@F12 (AGC ON)         S/N Ratio         >52dB           Lens         Lens Type         Motorized         Aperture         F1.7~F3.0           Mount Type         Board-In         FOV         38°~101°           Focal Length         3.35mm~10.05mm         Optical Zoom         3X           Video           Compression         H.265 / H.264         WDR         DWDR           Resolution         1.380 (1280 × 960) 1.380 (1280 × 960) 2.180 (1280 × 960) 2.180 (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265 : 1336Kbps - 4Mbps 1.265 : 1336Kbps - 4Mbps 1.264 (1792Kbps - 4Mbps 1.265 (153 / 960P@25fps / 720P@25fps /	Model		BL-852O38S	Flash / DDR	128Mb / 512Mb		
Min. Illumination         Color; 0.11 Lux@F1.2 (AGC ON) B/W: 0.001 Lux@F1.2 (AGC ON)         S/N Ratio         >52dB           Lens         Lens Type         Motorized         Aperture         F1.7~F3.0           Mount Type         Board-in         FOV         38°~101°           Focal Length         3.35mm~10.05mm         Optical Zoom         3X           Video           Compression         H.265 / H.264         WDR         DWDR           Resolution         1.384 (1280 × 960) 1.384 (1280 × 960) 720P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265: 1336(kbps - 4Mbps 14.264: 1792/kbps - 4Mbps 14.264: 1792/kbps - 4Mbps 14.264: 1792/kbps - 4Mbps 1680/e025/fps / 720P@25/fps / 960P@25/fps / 720P@25/fps / 060P@25/fps	Image Sensor	1/2.9" CMOS		IR LED No.	2		
Lens         Lens Type         Motorized         Aperture         F1.7~F3.0           Mount Type         Board-in         FOV         38°~101°           Focal Length         3.35mm~10.05mm         Optical Zoom         3X           Video           Compression         H.265 / H.264         WDR         DWDR           Resolution         1080P (1920 × 1080) 1.3M (1280 × 960) 27.20P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265: 1536Kbps - 4Mbps H.264: 1792Kbps - 4Mbps H.264: 1792Kbps - 4Mbps H.264: 1792Kbps - 4Mbps         Defog         Support           Multi-Streaming         Main stream   1080P@25fps / 720P@25fps   960P@25fps / 720P@25fps           Mirror/Flip         Support           Multi-Streaming         Sub stream   1080P@25fps / 720P@25fps           Mirror/Flip         Support           Motion Detection         Support         HLC         N/A           Motion Detection         Support         BLC         Support           Audio Compression         G7.11u         ROI         4 areas           Privacy Mask         5 areas         Anti-flicker         Support           IVA           Intelligent Video	Effective Pixels	1920*1080		IR Distance	50m		
Mount Type	Min. Illumination			S/N Ratio	>52dB		
Mount Type         Board-in         FOV         38°~101°           Focal Length         3.35mm~10.05mm         Optical Zoom         3X           Video         Video           Compression         H.265 / H.264         WDR         DWDR           Resolution         1080P (1920 × 1080) 1.3M (1280 × 960) 720P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265: 1536Kbps - 4Mbps H.264: 1792Kbps - 4Mbps H.265: 1536Kbps - 4Mbps H.265: 1536Kbps - 4Mbps H.266: 1792Kbps - 4Mbps H.266: 1792Kbp	Lens						
Focal Length         3.35mm~10.05mm         Optical Zoom         3X           Video         Video         Bush (1920 × 1080)         DWDR         DWDR           Resolution         1.38M (1280 × 960) 720P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265: 1536Kbps - 4Mbps H.264: 1792kbps - 4Mbps H.264: 1792kbps - 4Mbps         Defog         Support           Multi-Streaming         Sub stream Poor (1680 Poor 25fps / 720P@25fps)         Noise Reduction         2D/3D DNR           Multi-Streaming         Sub stream Poor (16925fps / 720P@25fps)         Mirror/Flip         Support           Motion Detection         Support         HLC         N/A           Digital Zoom         Support         BLC         Support           Audio Compression         G7.11u         ROI         4 areas           Privacy Mask         5 areas         Anti-flicker         Support           IVA           Intelligent Video         Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering         Facial Detection           Facal Detection         30         Detection Area         User-defined	Lens Type		Motorized	Aperture	F1.7~F3.0		
Video         Video         DWDR         DWDR           Resolution         1080P (1920 × 1080) 1.3M (1280 × 960) 720P (1280 × 720)         Day / Night         Support           Bitrate Control         CBR / VBR         White Balance         Support           Bitrate         H.265: 1536Kbps - 4Mbps H.264: 1792Kbps - 4Mbps         Defog         Support           Main stream         1080P@25fps / AMbps         Noise Reduction         2D/3D DNR           Multi-Streaming         Sub stream         D1@25fps / VGA@25fps / Noise Reduction         2D/3D DNR           Motion Detection         Support         Mirror/Flip         Support           Motion Detection         Support         HLC         N/A           Digital Zoom         Support         BLC         Support           Audio Compression         G7.11u         ROI         4 areas           Privacy Mask         5 areas         Anti-flicker         Support           IVA           Intelligent Video         Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering           Facial Detection         Face Quality Filtering         Support           Face Templates         N/A         Face Quality Filtering         Support	Mount Type		Board-in	FOV	38°~101°		
Compression   H.265 / H.264   WDR   DWDR	Focal Length	3.3	35mm~10.05mm	Optical Zoom	3X		
Resolution     1080P (1920 × 1080) 1.3M (1280 × 960) 720P (1280 × 720)     Day / Night     Support       Bitrate Control     CBR / VBR     White Balance     Support       Bitrate     H.265: 1536Kbps - 4Mbps H.265: 1792Kbps - 4Mbps H.265: 1792Kbps - 4Mbps H.265: 1792Kbps - 4Mbps P.660P@25fps / 960P@25fps / 960P@25fps / 960P@25fps / 720P@25fps     Noise Reduction     2D/3D DNR       Multi-Streaming     Sub stream D1@25fps / VGA@25fps / 960P@25fps / 720P@25fps     Mirror/Flip     Support       Motion Detection     Support     HLC     N/A       Digital Zoom     Support     BLC     Support       Audio Compression     G7.11u     ROI     4 areas       Privacy Mask     5 areas     Anti-flicker     Support       IVA       Intelligent Video     Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering       Facial Detection       Face Templates     N/A     Face Quality Filtering     Support       Face Detected per Frame     30     Detection Area     User-defined	Video						
Resolution     1.3M (1280 × 960) 720P (1280 × 720)     Day / Night     Support       Bitrate Control     CBR / VBR     White Balance     Support       Bitrate     H.265: 1536Kbps - 4Mbps H.264: 1792Kbps - 4Mbps     Defog     Support       Main stream     1080P@25fps / 960P@25fps / 960P@25fps / 720P@25fps     Noise Reduction     2D/3D DNR       Multi-Streaming     Sub stream     D1@25fps / VGA@25fps / CIF@25fps     Mirror/Flip     Support       Motion Detection     Support     HLC     N/A       Digital Zoom     Support     BLC     Support       Audio Compression     G7.11u     ROI     4 areas       Privacy Mask     5 areas     Anti-flicker     Support       IVA       Intelligent Video     Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering       Facial Detection       Face Templates     N/A     Face Quality Filtering     Support       Face Detected per Frame     30     Detection Area     User-defined	Compression	H.265 / H.264		WDR	DWDR		
Bitrate H.265: 1536Kbps - 4Mbps H.264: 1792Kbps - 4Mbps P.264: 1792Kbps - 4Mbps P.265ps / 960P@25fps / 720P@25fps / 720P@25fps / Olige Reduction P.2D/3D DNR  Multi-Streaming Sub stream D1@25fps / VGA@25fps / CIF@25fps / CI	Resolution	1.3M (1280 × 960)		Day / Night	Support		
H.264: 1792Kbps - 4Mbps  Main stream 1080P@25fps / 960P@25fps / 960P@25fps / 720P@25fps / Mirror/Flip  Sub stream N/A  Motion Detection  Motion Detection  Support  Motion Detection  Support  HLC  N/A  Digital Zoom  Support  BLC  Support  Audio Compression  G7.11u  ROI  4 areas  Privacy Mask  5 areas  Anti-flicker  Support  IVA  Intelligent Video  Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering  Facial Detection  Face Templates  N/A  Face Quality Filtering  Support  User-defined	Bitrate Control	CBR / VBR		White Balance	Support		
Multi-Streaming  Sub stream    D1@25fps / VGA@25fps / CIF@25fps   Mirror/Flip   Support	Bitrate	· · ·		Defog	Support		
Third stream N/A Corridor Mode Support  Motion Detection Support HLC N/A  Digital Zoom Support BLC Support  Audio Compression G7.11u ROI 4 areas  Privacy Mask 5 areas Anti-flicker Support  IVA  Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering  Facial Detection  Face Templates N/A Face Quality Filtering Support  Tace Detected per Frame  Support  Detection Area  User-defined				Noise Reduction	2D/3D DNR		
Motion Detection Support BLC Support Audio Compression G7.11u ROI 4 areas Privacy Mask 5 areas Anti-flicker Support  IVA Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering Facial Detection Face Templates Face Detected per Face Detection Area User-defined	Multi-Streaming	Sub stream		Mirror/Flip	Support		
Digital Zoom Support BLC Support Audio Compression G7.11u ROI 4 areas Privacy Mask 5 areas Anti-flicker Support  IVA Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering Facial Detection Face Templates N/A Face Quality Filtering Support User-defined		Third stream	N/A	Corridor Mode	Support		
Audio Compression G7.11u ROI 4 areas Privacy Mask 5 areas Anti-flicker Support  IVA Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering  Facial Detection Face Templates N/A Face Quality Filtering Support Face Detected per Frame  30 Detection Area User-defined	Motion Detection	Support		HLC	N/A		
Privacy Mask 5 areas Anti-flicker Support  IVA  Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering  Facial Detection  Face Templates N/A Face Quality Filtering Support  Face Detected per Frame 30 Detection Area User-defined	Digital Zoom	Support		BLC	Support		
Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering  Facial Detection  Face Templates N/A Face Quality Filtering Support  Face Detected per Frame 30 Detection Area User-defined	Audio Compression	G7.11u		ROI	4 areas		
Intelligent Video     Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering       Facial Detection     Face Templates     N/A     Face Quality Filtering     Support       Face Detected per Frame     30     Detection Area     User-defined	Privacy Mask	5 areas		Anti-flicker	Support		
Facial Detection       Face Templates     N/A     Face Quality Filtering     Support       Face Detected per Frame     30     Detection Area     User-defined	IVA						
Face Templates N/A Face Quality Filtering Support Face Detected per Frame 30 Detection Area User-defined	Intelligent Video Face Detection / Line Crossing / Intrusion / Object Left / Lost/Counting / Video Tampering						
Face Detected per Frame  Detection Area  User-defined	<b>Facial Detection</b>						
Frame Oser-defined	Face Templates	N/A		Face Quality Filtering	Support		
Detected Face Size   80x80~300x300 Pixels   Capture Response   ≤1s			30	Detection Area	User-defined		
	Detected Face Size	80x8	80~300x300 Pixels	Capture Response	≤1s		

Network					
Protocol	TCP/IP,UDP,HTTP,DHCP,RTSP,NTP	Management Software (VMS)	AntarVis 2.0 ZKBioSecurity IVS BioAccess IVS		
Interoperability	ONVIF Profile S, SDK, API	Operation System	Windows		
Max. Online Users	3	Mobile APP	AntarView Pro		
Web Browser	IE / Firefox / Chrome / Safari	P2P Cloud Service	Support		
Note: Video streaming is not available for Firefox/Chrome/Safari					
Interface					

**Reset Button** 

Micro-SD Slot

ANR

USB

1 RJ-45 port (10/100Mbps)

1/0

N/A

N/A

# General

RS485

Ethernet

Audio I/O

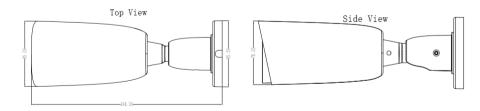
Alarm I/O

Power Supply	PoE (IEEE802.3af), DC 12V±10%	Working Temperature	-30°C ~ 60°C
Power Consumption	<3W	Working Humidity	10% ~ 90%
Ingress Protection	IP67	Net Weight	0.50kg
Dimensions (L*W*H)	246 * 85 * 76 (mm)	Gross Weight	0.64kg

### **Order Information**

Camera	Model	Description
2MP Camera	BL-852O38S	2MP Motorized Lens Face Detection Bullet IP Camera

## **Dimensions (mm)**





V1. 0 2020. 08. 27

N/A

N/A

N/A

N/A