

# EL-854N38I-E3

### 4MP Motorized Lens Face Detection Eyeball IP Camera



- 1/2.8" Sony STARVIS CMOS sensor
- H.265+ dual-stream encoding
- High-quality optical lens: 3.6-10.8mm
- 50m IR effective range
- Built-in PoE
- An embedded face detection algorithm
- Intelligent video analytics available
- Multiple web browsers supported
- Remote viewing with mobile application or VMS
- Lightning protection up to 6kV
- IP67 metal casing

## System Overview

BioPro Series 4MP IP cameras provide a cost-efficient solution that is powered by cutting-edge technology for crystal-clear video monitoring.

With an embedded face detection algorithm, the camera supports White/Black-list event alarm deployment under different scenarios.

The BioPro series also offers 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, which is more convenient and flexible for remote real-time viewing.

## **Functions**

#### H.265+

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

#### Protection

With its precise mechanical and rugged metal casing design, IP cameras of the BioPro 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**

ModelFlash / DR128Mb / 16bImage Sensor172.8° Sony STARVIS CMOSIR LED No.2Effective Pikels3.000000000000000000000000000000000000	Camera					
Effective Pixels     2592*1520     IR Distance     50m       Min. Illumination     Color: 0.11.ux@F1.7 (AGC ON) B/W: 0.001Lux@F1.7 (AGC ON) B/W: 0.001 CBR / MB/ (2502 x 1520) / 3MP (2304 x 1296) / 1080P (1920 x 1080) / 1080P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720) B/W: 0.004P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 960) / 1.3MP (1280 x 960) / 720P (1280 x 960) / 1.3MP (1280 x 960) / 720P (1280 x 960) / 1.3MP (1	Model	EL-854N38I-E3	Flash / DDR	128Mb / 1Gb		
Min. IlluminationColor: 0.1Lux@F1.7 (AGC ON) B.WW: 0.001Lux@F1.7 (AGC ON) B.F.S/N Ratio>>208LensImage: Single Constraint on the state of t	Image Sensor	1/2.8" Sony STARVIS CMOS	IR LED No.	2		
Nink midminationBAW: 0001Lux@F1.7 (AGC ON)SIN RatioSIN RatioLensLens TypeMotorizedApertureF1.7-F3.3Mount TypeBoard-inFOV29.8"-93.5"Focal Length3.6mm -10.8mmOptical Zoom3XVideo3X3XVideoTWDRSupportResolutionH2654, H.265, H.264WDRTWDRResolution1080P (1920 x 1080) / 13MP (2304 x 1296) / 13MP (2304 x 1296) / 13MP (1280 x 960) / 720P (1280 x 720)Day / NightSupportBitrate ControlCBR/VBRWhite BalanceSupportBitrate ControlCBR/VBRDefogN/AMulti-Stream: 4MP 025fps / 3MP 025fps / 1080P 025fps / 1080P 025fps / 720P 025fps / 1080P 025fps / 1080P 025fps / 720P 025fps / 1080P	Effective Pixels	2592*1520	IR Distance	50m		
Lens TypeMotorizedApertureF1.7-F3.3Mount TypeBoard-inFOV29.8°-93.5°Focal Length3.6mm 10.8mmOptical Zoom3.XVideo7.X3.XCompressionH265+, H265, H264WDRTWDRResolution4MP (2592 x 1520)/ 3MP (2304 x 1296) / 1.800P (1920 x 1080) / 1.3MP (1280 x 900) 720P (1280 x 720)Day/ NightSupportBitrate ControlCBR / VBRWhite BalanceSupportBitrate Control1024Kbps ~ 4MbpsDefogN/AMain Stream: 4MP (25fps / 3MP (25fps / 3	Min. Illumination		S/N Ratio	>52dB		
Mount Type     Board-in     FOV     29.8°-93.5°       Focal Length     3.6mm -10.8mm     Optical Zoom     3.X       Video	Lens					
Focal Length     Model     Optical Zoom     Main       Focal Length     M3.6mm-10.8mm     Optical Zoom     3X       Video     Compression     H.265+, H.265, H.264     WDR     TWDR       Resolution     MMP (2592 x 1520) / 3MP (2304 x 1296) / 1080P (1920 x 1080) / 1080P (19	Lens Type	Motorized	Aperture	F1.7~F3.3		
Video   Video     Compression   H.265+, H.265, H.264   WDR   TWDR     Resolution   4MP (2592 x 1520) / 3MP (2304 x 1296) / 1080P (1920 x 1080) / 1080P (1920 x 1080) / 1080P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720)   Day / Night   Support     Bitrate Control   CCBR / VBR   White Balance   Support     Bitrate Control   1024Kbps ~ 4Mbps   Defog   N/A     Multi-Streaming   Main Stream: 4MP@25fps / 3MP@25fps / 1080P@25fps / 1080P@25fps / 960P@25fps / 720P@25fps   Noise Reduction   2D/3D DNR     Multi-Streaming   Main Stream: N/A   Corridor Mode   Support     Motion Detection   Support   BLC   Support     Audio Compression   Grinta Stream: Si/A   Rol   4 areas     Privacy Mask   5 areas   Anti-flicker   Support     Intelligent Video   Face Detection/Line Crossing / Arce Detection/Lobect Left / VDU/Cot Campreson   Support	Mount Type	Board-in	FOV	29.8°~93.5°		
CompressionH.265+, H.265, H.264WDRTWDRResolution4MP (2592 x1520) / 3MP (2304 x 1290) / 13MP (1280 x 960) / 1200 x 1080) / 13MP (1280 x 960) / 200 / 20	Focal Length	3.6mm -10.8mm	Optical Zoom	3X		
Resolution4MP (2592 x 1520) / 3MP (2304 x 1296) / 1080P (1920 x 1080) / 1080P (1920 x	Video					
Resolution1080P (1920 x 1080) / 1.3MP (1280 x 960) / 720P (1280 x 720)Day / NightSupportBitrate ControlCBR / VBRWhite BalanceSupportBitrate1024Kbps ~ 4MbpsDefogN/AMain Stream: 4MP@25fps / 3MP@25fps / 1080P@25fps / 960P@25fps / 720P@25fpsNoise Reduction2D/3D DNRMulti-Stream: 10@25fps / VGA@25fps / CF@25fpsMiror/FlipSupportSub Stream: D1@25fps / VGA@25fps / CF@25fpKiror/FlipSupportMulti-Stream: N/ACorridor ModeSupportMotion DetectionSupportSupportIngital ZoomGSupportAudio CompressionGRol4 areasPrivacy MaskSa controlSupportInverseSa controlInverse<	Compression	H.265+, H.265, H.264	WDR	TWDR		
Bitrate   Image: Display stream: AMP @ 25 fps / 3MP	Resolution	1080P (1920 x 1080) /	Day / Night	Support		
Main Stream: 4MP@25fps / 3MP@25fps / 1080P@25fps / 960P@25fps / 720P@25fps     Noise Reduction     2D/3D DNR       Sub Stream: D1@25fps / VGA@25fps / CIF@25fps     Mirror/Flip     Support       Third Stream: N/A     Corridor Mode     Support       Motion Detection     Support     HLC     Support       Digital Zoom     Gridor Mode     Support     Support       Audio Compression     Gridor Mode     Support     Support       Privacy Mask     Gridor Mode     Support     Support       Intelligent Video     Face Detection / Line Crossing / Area Detection / Line Crossing / Line Crossing / Area Detection / Line Crossing / Line Crossing / Line Crossing / Line Crossing / Line	Bitrate Control	CBR / VBR	White Balance	Support		
Multi-StreamingNoise Reduction2D/3D DNRMulti-StreamingSub Stream: D1@25fps / YGA@25fps / CIF@25fpsMirror/FlipSupportSub Stream: D1@25fps / VGA@25fps / CIF@25fpsCorridor ModeSupportMotion DetectionSupportCorridor ModeSupportDigital ZoomSupportBLCSupportAudio CompressionG7.11uROI4 areasPrivacy MaskSace Detection / Line Crossing / Area Detection / Costing / SupportSupport	Bitrate	1024Kbps ~ 4Mbps	Defog	N/A		
Sub Stream: D1@25fps / VGA@25fps / CIF@25fps   Mirror/Flip   Support     Third Stream: N/A   Corridor Mode   Support     Motion Detection   Support   HLC   Support     Digital Zoom   G   Support   BLC   Support     Audio Compression   G7.11u   ROI   4 areas     Privacy Mask   Sace Detection / Line Crossing / Area Detectior / Line Crossing / Area Detection / Line Crossing / Area Detectior / Line Crossing / Area De	Multi-Streaming		Noise Reduction	2D/3D DNR		
Motion DetectionSupportHLCSupportDigital ZoomSupportBLCSupportAudio CompressionG7.11uROI4 areasPrivacy MaskSareasAnti-flickerSupportIntelligent VideoFace Detection / Line Crossing / Area Detection / Line Crossing / Line Cros		Sub Stream: D1@25fps / VGA@25fps / CIF@25fps	Mirror/Flip	Support		
Digital Zoom   Support   BLC   Support     Audio Compression   G7.11u   ROI   4 areas     Privacy Mask   5 areas   Anti-flicker   Support     IVA   Face Detection / Line Crossing / Area Detection / Costing / Area Detection / Costing / Area Detection / Costing / Cos		Third Stream: N/A	Corridor Mode	Support		
Audio Compression   G7.11u   ROI   4 areas     Privacy Mask   5 areas   Anti-flicker   Support     IVA   Face Detection / Line Crossing / Area Detection / Target Count / Object Left / Lost / VQD / Video Tamperin	Motion Detection	Support	HLC	Support		
Privacy Mask 5 areas Anti-flicker   IVA   Intelligent Video   Face Detection / Line Crossing / Area Detection / Jarget Count / Object Left / Logt / Video Tamperin	Digital Zoom	Support	BLC	Support		
IVA     Intelligent Video     Face Detection / Line Crossing / Area Detection / Target Count / Object Left / Lost / VQD / Video Tamperin	Audio Compression	G7.11u	ROI	4 areas		
Intelligent Video     Face Detection / Line Crossing / Area Detection / Target Count / Object Left / Lost / VQD / Video Tamperin	Privacy Mask	5 areas	Anti-flicker	Support		
	IVA					
	Intelligent Video	Face Detection / Line Crossing / Area Detection /	Target Count / Object Left / L	ost / VQD / Video Tampering		
Face Detection	Face Detection					
Face Templates     N/A     Face Quality Filtering     Support	Face Templates	N/A	Face Quality Filtering	Support		
Face Detected Per Frame30Detection AreaUser-defined		30	Detection Area	User-defined		
Detected Face Size     80x80 ~ 300x300 Pixels     Capture Response     ≤1s	Detected Face Size	80x80 ~ 300x300 Pixels	Capture Response	≤1s		

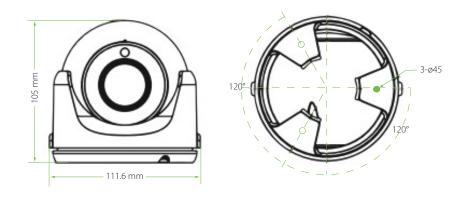
## EL-854N38I-E3

Network					
Protocol	TCP/IP, UDP, HTTP, DHCP, RTSP, NTP	Management Software (VMS)	AntarVis 2.0 ZKBioSecurity IVS ZKBioAccess 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					
Ethernet	1 RJ-45 port (10/100Mbps)	Reset Button	N/A		
Audio I/O	1/0	Micro-SD Slot	N/A		
Alarm I/O	N/A	ANR	N/A		
RS485	N/A	USB	N/A		
General					
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	0.40kg		
Dimensions	Φ111.6 * 105 (mm)	Gross Weight	0.64kg		

## **Order Information**

Camera	Model	Description
4MP Camera	EL-854N38I-E3	4MP Motorized Lens Face Detection Eyeball IP Camera

## **Dimensions (mm)**





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