

ES-855P21C-S8-S | BioSense Series 5MP BioSense Fixed Lens Eyeball IP Camera



- 1/2.7" 5MP CMOS Sensor
- H.265 Dual stream encoding
- High-quality optical lens: 2.8mm
- 30m IR effective range
- Built-in PoE
- Embedded intelligent classification algorithm based on computer vision technology
- Multiple intelligent video analytic features
- Support multiple browsers web client
- Remote viewing with mobile application and platform software
- Lightning protection up to 6KV
- IP67 metal casing

Product Overview

BioSense Series IP Camera is the front-end of intelligent video surveillance solution released by ZKTeco based on the Deep-Learning algorithm and Computer Vision technology.

By using advanced and powerful CPU, couple with the embedded intelligent classification algorithm based on computer vision technology, the BioSense IP Cameras can accurately detect and recognize 3 key types of target: human, vehicles and objects, meanwhile effectively filter out the other useless objects such as: animals, leaves, shadows, and rain, etc to reduce the false alarms, and more focusing on the important alarms.

The BioSense IP Camera can greatly help to improve the efficiency and safety of the entire video surveillance system, can be widely used in different scenario such as smart school, office, industrial park, community, public security, etc.

Core Features

H.265 HEVC

H.265 is an evolutionary optimization of the traditional H.264, it includes a series of encoding strategy such as ROI, smart 2D/3D noise reduction, etc. Delivering high quality video with up to 70% lower bandwidth.

IVA (Intelligent Video Analytics)

The BioSense IP Cameras support multiple intelligent video analytic functions: Target Counting, Object Lost/Left, and the Line Crossing, Area detection, Smart Motion Detection supports human and vehicle targets classification.

True WDR

Powered by ZKTeco's powerful ISP algorithm and high quality sensor, the BioSense Series IP Cameras are built-in with true wide dynamic range feature, can present excellent picture images at extreme contrast lighting environment.

ANR (Only for SD card models)

While the connection lost between IPC and NVR, the video will be saved in SD card. The saved video will be auto replenished to NVR when network recovers to avoid any video lost.

Protection

With precise mechanical and rugged metal casing design, the BioSense Series IP Cameras can stand against water and dust with industrial IP67 rank, and support to work at variety of harsh outdoor environments such as temperature range -30°C to +60 °C,etc.

Technical Specification

Camera						
Model	ES-855P21C-S8-S					
Image Sensor	1/2.7" 5MP CMOS					
Max.Resolution	2592(H)*1944(V)					
ROM	128MB					
RAM			256MB			
Scanning System			Progressive Scan			
Electronic Shutter Speed			1/5 s to1/100,000 s			
Min. Illumination		0.001	Lux@F1.6 (AGC on, Cc 0 lux (IR on, B&W)	blor)		
S/N Ratio			>52dB			
IR Range			30 m			
Illuminator On/Off Control			Auto/Manual			
Illuminator Number			2*IR LED			
Smart IR			Support			
Angle Adjustment for Installation	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					
TV System	PAL/NTSC					
Image Settings	Trigger mode, Brightness, Contrast, Saturation, Hue, Sharpness, AGC, White balance, Gamma, Backlight mode, adjustable by platform software or web browser					
Software Reset Default	Support					
General Function	Heartbeat, Mirror, Privacy mask, Log, Password reset					
Lens						
Lens Type	Fixed Lens					
Lens Mount	M12					
Mount Type	Board-in					
Focal Length	2.8mm					
Max. Aperture	F1.6					
Optical Zoom	N/A					
Field of View	FOV: 110° Horizontal: 113° Vertical: 60° Diagonal: 130°					
Iris Type	Fixed					
Close Focus Distance	1.5 m					
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	43 m	16 m	9 m	4 m	
Video						
Video Compression			H.265 / H.264			
Resolution	5MP(2592*1944) / 4MP(2560*1440) / 3MP(2304*1296) / 1080P (1920*1080) / 1.3MP (1280*960) / 720P (1280*720) / D1 (704*576) / VGA (640*480) / Q720 (640*360)					

	Main stream:	50Hz (PAL): 25fps (2592*1944,1920*1080, 1280*960, 1280*720) 60Hz (NTSC): 30fps (2592*1944,1920*1080, 1280*960, 1280*720)		
Max Video Frame Rate	Sub stream:	50Hz (PAL): 25fps (704*576, 640*480, 640*360)		
	Third stream:	60Hz (NTSC): 30fps (704*576, 640*480, 640*360) N/A		
Video Stroom Conshility	Dual streams			
Video Stream Capability	CBR/VBR			
Bit Rate Control	H.264: 192kbps–8Mbps			
Video Bit Rate	H.265: 224Kbps ~ 8Mbps			
Day/Night	Auto (ICR) / Color / B&W			
BLC	Support			
HLC		Support		
WDR		True WDR		
Scene Self-adaptation		Support		
White Balance	Auto, Custom, Locke	ed, Incandescent lamp, Warm light, Natural light, Fluorescent lamp		
Gain Control		Low, Mid low, Mid, Mid high, High		
Noise Reduction		2D / 3D NR		
Motion Detection	Smart /Ordinary (4 areas)			
Region of Interest (ROI)	Support (4 areas, Level 1~6)			
Defog	N/A			
Mirror	Support			
Image Rotation	0°/90°/180°/270°/Horizontal/Vertical			
Privacy Masking	4 areas			
Corridor Mode	Support			
Digital Zoom	Support			
Anti-flicker	N/A			
Audio				
Built-in MIC		N/A		
Audio Compression	G.711ulaw			
Environment Noise Filtering	Support			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz			
Audio Bit Rate	64 Kbps (G.711ulaw)			
Intelligent Video Analytics				
IVA (Perimeter Protection)	Target Count, Object Lost/Left, Line Crossing, Area detection, Smart Motion Detection (human and vehicle targets classification)			
Intelligent Search	Embedded intelligent classification algorithm based on computer vision technology			
Intelligent Video	Support fast retrieval by human & vehicle targets classification, playback and backup			
Face Detection				
Face Templates	N/A			
Face Quality Filtering	N/A			
Face Detected Per Frame	N/A			
Detection Area	N/A			
Detected Face Size		N/A		
Capture Response	N/A			

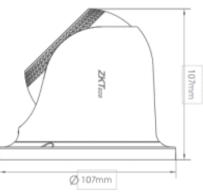
Alarm				
Basic Alarm Event	Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, External alarm			
Smart Alarm Event	Target Count, Object Lost/Left,			
	Line Crossing, Area detection, Smart Motion Detection (human and vehicle targets classification)			
Alarm Linkage Actions	notify surveillance center, trigger recording, trigger capture, send email			
Network				
Simultaneous Live View	Up to 15 channels			
Network	1 RJ45 10 M/100 M self-adaptive Ethernet port			
SDK and API	Support SDK, API and ONVIF			
Cyber Security	Video encryption; firmware encryption; configuration encryption; account lockout; security logs; l filtering; trusted boot; trusted execution; trusted upgrade; password protection; complicated passw basic and digest authentication for HTTP/HTTPS; TLS; IP address filter; Security Audit Log			
Protocol	TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, NTP, UPnP, SMTP, IPv4, UDP, SSL/TLS, PPPoE, SNMP, WebSocket			
Interoperability	ONVIF Profile S/T/G			
User/Host	Up to 256 users can be added. 3 user levels: admin, operator and guest			
Network Storage	FTP			
Web Browser	IE / Edge /Firefox / Chrome / Safari			
Management Software	AntarVis 2.0/ZKBioSecurity IVS/ZKBioAccess IVS/ZKBio CVSecurity/ZKBio CVAccess			
Mobile Application	AntarView Pro+ (iOS & Android)			
On-Board Storage	N/A			
Operation System	Windows			
P2P Cloud Service	Support			
Port				
Audio Input	N/A			
Audio Output	N/A			
Alarm Input	N/A			
Alarm Output	N/A			
Interface				
Reset Button	N/A			
ANR	N/A			
USB	N/A			
RS485	N/A			
General				
Power				
Power Supply	PoE (IEEE802.3af,Class 3), DC 12V±10% reverse polarity protection			
Power Consumption	Basic \leq 3W (12 VDC); 4.5 W (PoE)			
Power Interface	Ø 5.5 mm coaxial power plug			
Structure				
Casing Material	Aluminium Alloy			
Dimensions	Φ107 * 107 (mm)			
Net Weight	0.30kg			
Gross Weight	0.45kg			

Environment	
Operating Conditions	–30 °C to +60 °C (–22 °F to +140 °F)/ Humidity 95% or less (non-condensing)
Storage Conditions	–30 °C to +60 °C (–22 °F to +140 °F) /Humidity 95% or less (non-condensing)
Protection Grade	IP67
Certifications	
Certificates	ISO9001;ISO14001;CE; FCC

Ordering Information

Туре	Model	Descripton
5MP IP Camera	ES-855P21C-S8-S	5MP BioSense Fixed Lens Eyeball IP Camera

Dimension (mm)



Accessories

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Optional:	Junction Box	Junction Box with Straight Bracket	Junction Box with Bent Bracket	Corner Mount Bracket	Pole Mount Bracket
Model	GB01	GB02	GB03	MT03	MT04
Picture					

