ES-852T22C-S6-S | BioSense Series

2MP BioSense Fixed Lens Eyeball IP Camera

- 1/2.8" 2MP STARVIS CMOS Sensor
- H.265 triple stream encoding
- High-quality optical lens: 3.6mm
- 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 6K V
- IP67 metal casing

Target Counting | **Line Crossing** | **Intrusion Detection** | **Motion Detection** | **Object Left/ Remove** | **IP67** **IP67 Metal Casing**

Products 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 Camers 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-852T22C-S6-S
Image Sensor	1/2.8" 2MP Sony STARVIS CMOS
Max.Resolution	1920(H)*1080(V)
ROM	128MB
RAM	256MB
Scanning System	Progressive Scan
Electronic Shutter Speed	1/5 s to1/100,000 s
Min. Illumination	0.0001Lux@F1.6 (AGC on, Color) 0 lux (IR on, B&W)
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	3.6mm
Max. Aperture	F1.6
Optical Zoom	N/A
Field of View	FOV: 90° Horizontal: 88° Vertical: 45° Diagonal: 105°
Iris Type	Fixed
Close Focus Distance	1.5 m

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	3.6mm	50 m	19.2 m	10m	4.3 m

Video

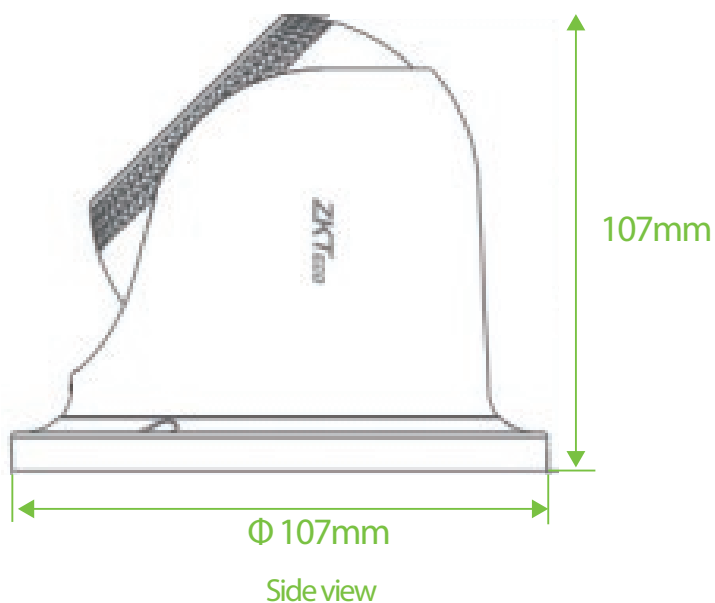|		
Video Compression	H.265 / H.264	
Resolution	1080P (1920*1080) / 1.3MP (1280*960) / 720P (1280*720) / D1 (704*576) / VGA (640*480) / Q720 (640*360)	
Max Video Frame Rate	Main stream	50Hz (PAL): 25fps (1920*1080, 1280*960, 1280*720) 60Hz (NTSC): 30fps (1920*1080, 1280*960, 1280*720)
	Sub stream	50Hz (PAL): 25fps (704*576, 640*480, 640*360) 60Hz (NTSC): 30fps (704*576, 640*480, 640*360)
	Third stream	50Hz (PAL): 25fps (1920*1080, 1280*960, 1280*720, 704*576) 60Hz (NTSC): 30fps (1920*1080, 1280*960, 1280*720, 704*576)

Video Stream Capability	Triple streams
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 896kbps–6Mbps H.265: 1024Kbps ~ 6Mbps
Day/Night	Auto (ICR) / Color / B&W
BLC	Support
HLC	Support
WDR	True WDR
Scene Self-adaptation	Support
White Balance	Auto, Custom, Locked, 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; IP filtering; trusted boot; trusted execution; trusted upgrade; password protection; complicated password; 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 ≦3W (12 VDC); 4.5 W (PoE)
Power Interface	Ø 5.5 mm coaxial power plug

Structure

Casing Material	Aluminium Alloy
Dimensions	107 * 107 * 78 (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)
Ingress Protection Rating	IP67

Certifications

Certificates	ISO9001, ISO14001, CE, FCC

Ordering Information

Type	Model	Descripton
2MP IP Camera	ES-852T22C-S6-S	2MP BioSense Fixed Lens Eyeball IP Camera

Dimension (mm)

107mm

Φ 107mm

Side view

Accessories

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