

# ES-852T22T-S6-MI-S

**BioSense Series** 

2MP BioSense Fixed Lens Eyeball IP Camera











Line Crossina



Intrusion Motio
Detection Detecti



Motion Object Lef



Object Left/ IP67 metal Remove casing

- 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 & Microphone
- Built-in micro-SD card slot (support max. 256GB)
- 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

## **System 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  $-30^{\circ}$ C to  $+60^{\circ}$ C,etc.

# **Technical Specification**

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Camera					
Model	ES-852T22				
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  TV System	Pan: 0°–360°  Tilt: 0°–90°  Rotation: 0°–360°  PAL/NTSC				
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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.26	54			
Resolution	1080P (1920*1080) / 1.3MP (1280*960) / 720P (1280*720) / D1 (704*576) / VGA (640*480) / Q720 (640*360)				
	Main stream	ream 50Hz (PAL): 25fps (1920*1080, 1280*960, 1280*720) 60Hz (NTSC): 30fps (1920*1080, 1280*960, 1280*720)			
Max Video Frame Rate	Sub stream	FOLIZ (DAL), 2Ffoc (704*F76 640*490 640*260)			
	Third stream	50Hz (PAL): 25fp	s (1920*1080, 128	0*960, 1280*720, 70 280*960, 1280*720, 7	)4*576)

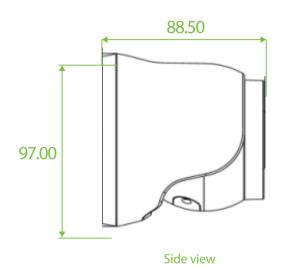
Video Stream Capability	Triple streams
Bit Rate Control	CBR/VBR
	H.264: 896kbps-6Mbps
Video Bit Rate	H.265: 1024Kbps ~ 6Mbps
Day/Night	Auto (ICR) / Color / B&W
BLC	Support
HLC	Support
WDR	True WDR
Scene Self-adaptation	Support
White Balance	Auto, Custom, Locked, Incandescent lamp, Warm light, Natural light, Fluorescent lamp
Gain Control	Low, Mid Iow, 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	Support
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 Analyti	ics
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	SD card error, 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	Upload to memory card/FTP, 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; securitylogs; 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 Proflie S/T/G			
User/Host	Up to 256 users can be added. 3 user levels: admin, operator and guest			
Network Storage	FTP, Micro SD card, auto network replenishment (ANR)			
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	Micro-SD card slot (support max. 256GB)			
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	Support			
ANR	Support			
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	97.00 x 88.50 (mm)			
Net Weight	0.42kg			
Gross Weight	0.60kg			
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**

Туре	Model	Descripton	
2MP IP Camera	ES-852T22T-S6-MI-S	2MP BioSense Fixed Lens Eyeball IP Camera	

# **Dimension (mm)**





# 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					







