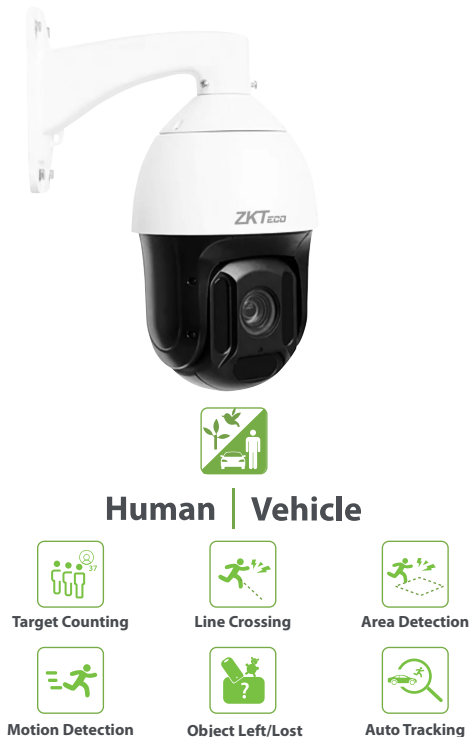


PM-852TC20N-AD | BioSense PTZ Series

BioSense 5.5-inch 2MP 20X Zoom Smart IP PTZ Camera



- 5.5-in casing
- 1/2.8" 2MP STARVIS CMOS Sensor
- H.265 triple stream encoding
- High quality 20X zoom integrated lens
- IR array LED, 120m IR effective range
- Built-in micro-SD card slot (support max. 256GB)
- Embedded intelligent classification algorithm based on computer vision technology
- Multiple intelligent video analytic features supported
- Human&Vehicle classification detection and auto tracking
- Remote viewing with mobile application and platform software
- IP66 metal casing

Product Overview

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

By using advanced & powerful CPU, couple with the embedded intelligent classification algorithm, the BioSense IP PTZ 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 auto tracking detection to linkage with speaker sound and strobe light for active deterrence warning.

The BioSense IP PTZ Cameras can support pan speed up to 200°/s, and tilt speed up to 180°/s, which can cover large HD video range and provide extremely clear details. It can be widely deployed in different scenario such as garden, park, 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 PTZ 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 and auto tracking to linkage with speaker sound and strobe light for active deterrence warning.

Auto Tracking

The BioSense Series IP PTZ Cameras can focus on the targets in a detection area and keep tracking for a certain period of time until the targets disappeared in the detection area.

True WDR

Powered by ZKTeco's powerful ISP algorithm and high quality sensor, the BioSense IP PTZ 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 IP66 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	PM-852TC20N-AD				
Image Sensor	1/2.8" 2MP STARVIS CMOS Sensor				
Max.Resolution	1920 (H)*1080 (V)				
ROM	128MB				
RAM	256MB				
Scanning System	Progressive Scan				
Electronic Shutter Speed	1/5s to 1/100,000s				
Min. Illumination	0.001Lux@F1.6 ~ F3.5 (AGC on, Color) 0 lux (IR on, B&W)				
S/N Ratio	>52dB				
IR Range	120 m				
White light range	30 m				
Illuminator On/Off Control	Auto / Manual				
Illuminator Number	4*IR LED , 3*White Light LED				
Strobe Light	N/A				
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	Motorized vari-focal				
Lens Mount	M32				
Mount Type	Board-in				
Focal Length	4.7 ~ 94mm				
Max. Aperture	F1.6 ~ F3.5				
Optical Zoom	20X				
Field of View	64°(W) ~ 3.2°(T)				
Iris Type	Fixed				
Close Focus Distance	2 m				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	Wide	450m	205m	99m	50m
	Telephoto	1060.0 m	420.4 m	210.0m	105.8 m
P/T					
Pan/Tilt Range	Pan: 0° ~ 360°, Tilt: -10° ~ 90°				

Pan Speed	0.1° ~ 200°/s
Tilt Speed	0.1° ~ 180°/s
Preset	255
Preset Speed	10-Level selection
Pattern Group	4
Auto Mode	Support Idle motion, Power-on auto detection, Rotation speed changes with optical zoom proportionally
Protocol	Pelco-D
Tour Group	8
A-B Scan Group	N/A

Video

Video Compression	H.265 / H.264	
Resolution	2MP (1920*1080) / 1.3MP (1280*960) / 720P (1280*720)	
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° / 180° / Horizontal / Vertical	
Privacy Masking	4 areas	
Corridor Mode	Support	
Digital Zoom	Support	
Anti-flicker	Support	

Audio

Built-in MIC	N/A
Built-in LoudSpeaker	N/A
Audio Compression	G.711u law
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

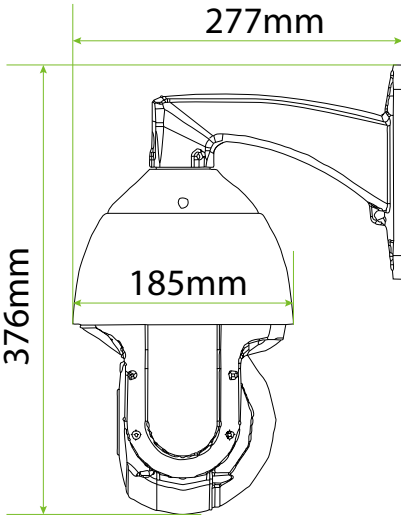
IVA (Perimeter Protection)	Target Count, Object Lost / Left Line Crossing, Area detection, Smart Motion Detection (human and vehicle targets classification)
Intelligent Search	Support fast retrieval by human & vehicle targets classification
Intelligent Video	Support fast retrieval by human & vehicle targets classification, playback and backup
Intelligent Tracking	Support auto tracking by human & vehicle targets classification
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
Alarm Linkage Actions	Upload to memory card / FTP, notify surveillance center, trigger recording, trigger capture, send email
Network	
Simultaneous Live View	Up to 10 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, 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, MacOS
P2P Cloud Service	Support
Port	
Audio Input	1
Audio Output	1
Alarm Input	2
Alarm Output	1
Interface	
Reset Button	Support
ANR	Support
USB	N/A
RS485	N/A

General	
Power	
Power Supply	PoE (IEEE802.3at,30W), DC 12V±10% 4A reverse polarity protection
Power Consumption	Basic 22W (12 VDC); 30 W (PoE)
Power Interface	Ø 5.5 mm coaxial power plug
Structure	
Casing Material	Aluminium Alloy+Plastics
Dimensions	376*185*277(mm)
Net Weight	5kg
Gross Weight	5.5kg
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	IP66
Certifications	
Certificate	ISO9001, ISO14001, CE, FCC

Ordering Information

Type	Model	Descripton
2MP Smart IP PTZ Camera	PM-852TC20N-AD	BioSense 2MP 20X Zoom Smart IP PTZ Camera

Dimension (mm)



Accessories

Optional:	Wall Mount Bracket	Celling Mount Bracket	Pole Mount Bracket	Corner Mount Bracket
Model	ZK-B64-1	ZK-B64-2	ZK-B64-4	ZK-B64-3
Picture				

