

# **PM-852TC33N-AD** ZKBio Sense PTZ Series ZKBio Sense 5.5-inch 2 MP 33X Zoom Smart IP PTZ Camera



- 5.5 inches metal and plastic casing
- 1/2.8" 2 MP STARVIS CMOS Sensor
- H.265 triple streams encoding
- High quality 33x zoom integrated lens
- IR array LED, 150 m IR effective range
- Built-in micro-SD card slot (support max. 256 GB)
- 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 protection rating for waterproof and dustproof

### **Product OverView**

ZKBio Sense Series IP PTZ Cameras are the front-end cameras of smart video surveillance solutions released by ZKTeco based on the Deep-Learning algorithm and Computer Vision technology.

By using advanced and powerful CPU, coupled with the embedded intelligent classification algorithm, ZKBio Sense Series IP PTZ Cameras can accurately detect and recognize 3 key types of targets: humans, vehicles and objects. Meanwhile, they can effectively filter out other useless objects, such as animals, leaves, shadows, and rain, so as to reduce false alarms. In addition, auto tracking detection is linked with audio alert and white light for active deterrence warning.

ZKBio Sense Series IP PTZ Cameras 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. They can be widely used in different scenes 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)

ZKBio Sense Series IP PTZ Cameras support multiple intelligent video analytic functions, such as Line Crossing, Target Counting, Object Lost / Left, Area Detection, and Smart Motion Detection, which are based on human and vehicle targets classification. Also, these smart functions can link auto tracking with speaker sound and white light for active deterrence warning.

#### Auto Tracking

ZKBio Sense 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 disappear from the detection area.

#### True WDR

Powered by ZKTeco's powerful ISP algorithm and high-quality sensor, ZKBio Sense Series IP PTZ Cameras are built-in with true WDR feature, which can present excellent images in extreme contrast lighting environment.

#### ANR (Only for SD card models)

When the network between ZKBio Sense Series IP PTZ Cameras and ZKBio Sense Series NVRs is interrupted, videos can be automatically saved on the SD card of the front end, and then uploaded to the back end after the network is restored, so as to avoid video loss.

#### Protection

With precise mechanical and rugged metal casing, ZKBio Sense Series IP PTZ Cameras can stand against water and dust with industrial IP66 protection rating, and support to work in various harsh outdoor environments such as temperature range -30 °C to +60 °C, etc.

## **Technical Specification**

Camera					
Model			PM-852TC33N-AD		
Image Sensor		1/2.8″ 2	MP STARVIS CMOS	5 Sensor	
Max. Resolution			1920 (H) × 1080 (V)	)	
ROM			128 MB		
RAM			256 MB		
Scanning System			Progressive Scan		
Electronic Shutter Speed			1/5 s to 1/1 00,000 s	S	
Min. Illumination		0.001 Lux	@ F1.6 to F3.5 (AGC 0 lux (IR on, B & W)	Con, Color)	
S/N Ratio			> 52 dB		
IR Range			150 m		
White Light Range			30 m		
Illuminator On / Off Control			Auto / Manual		
Illuminator Number		$4 \times IR$	LED, 3 $\times$ White Lig	ht LED	
Strobe Light			N/A		
Smart IR			Support		
Angle Adjustment for Installation	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 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, Mirro	r, Privacy mask, Log	g, Password reset	
Lens					
Lens Type	Motorized vari-focal				
Lens Mount			M32		
Mount Type	Board-in				
Focal Length			4.5 to 148.5 mm		
Max. Aperture	F1.6 to F3.5				
Optical Zoom	33X				
Field of View	66.1° (W) to 2.46° (T)				
Iris Type	Fixed				
Close Focus Distance			0.7 to 4.5 m		
	Lens	Detect	Observe	Recognize	Identify
IDORI Distance	Wide	650 m	405 m	129 m	70 m
	Telephoto	2090.0 m	801.4 m	399.0 m	189.8 m
P/T				22210.111	102.0111
Pan / Tilt Range		Panel	0° to 360°, Tilt: -10° 1	to 90°	
Pan Speed		i ail.	0.1 ° to 200°/s		
Tilt Speed	0.1° to 2007s 0.1° to 180°/s				
•					
Preset	255				
Preset		10-Level selection			
Preset Speed					
	<b>C</b>		4	Rotation speed chan mally	

Protocol		Pelco-D			
Tour Group	8				
A-B Scan Group		N/A			
Video	IW A				
Video Compression		H.265 / H.264			
Resolution	2 MP	(1920 × 1080) / 1.3 MP (1280 × 960) / 720 P (1280 × 720)			
Resolution		50 Hz (PAL): 25 fps (1920 × 1080, 1280 × 960, 1280 × 720)			
	Main Stream	60 Hz (NTSC): 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)			
Max Video Frame Rate	Culo Ctroopo	50 Hz (PAL): 25 fps (704 × 576, 640 × 480, 640 × 360)			
	Sub Stream	60 Hz (NTSC): 30 fps (704 × 576, 640 × 480, 640 × 360)			
	Third Stream	50 Hz (PAL): 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576) 60 Hz (NTSC): 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576)			
Video Stream Capability	Triple streams				
Bit Rate Control	CBR / VBR				
Video Bit Rate	H.264: 896 Kbps to 6 Mbps H.265: 1024 Kbps to 6 Mbps				
Day / Night					
BLC	Auto (ICR) / Color / B & W				
HLC	Support				
WDR	Support				
Scene Self-adaptation	True WDR				
White Balance	Support				
Gain Control	Auto, Custom, Locked, Incandescent lamp, Warm light, Natural light, Fluorescent lamp				
Noise Reduction		Low, Mid low, Mid, Mid high, High			
	2D/3DNR				
Motion Detection	Smart / Ordinary (4 areas)				
Region of Interest (ROI)	Support (4 areas, Level 1 to 6)				
Defog Mirror	N/A				
	Support				
Image Rotation	0° / 180° / Horizontal / Vertical				
Privacy Masking Corridor Mode	4 areas				
Digital Zoom	Support				
Anti-flicker	Support				
Audio		Support			
		N/A			
Built-in MIC	N/A				
Built-in LoudSpeaker	G.711 ulaw				
Audio Compression					
Environment Noise Filtering	Support 8 kHz / 16 kHz / 32 kHz / 44.1 kHz / 48 kHz				
Audio Sampling Rate					
Audio Bit Rate	64 Kbps (G.711 ulaw)				
Intelligent Video Analytics					
IVA (Perimeter Protection)	Target Counting, Object Lost / Left, Line Crossing, Area Detection, Smart Motion Detection (human and vehicle targets classification)				
Intelligent Search	Support fast retrieval by human and vehicle targets classification				
Intelligent Video	Support fast retrieval by human and vehicle targets classification, playback and backup				
Intelligent Tracking	Support auto tracking by human and vehicle targets classification				

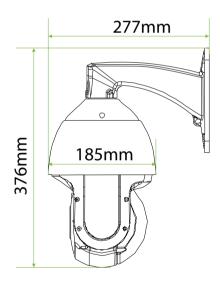
Face Detection					
Face Templates	N/A				
•	N/A				
Face Quality Filtering	N/A				
Face Detected Per Frame					
Detection Area	N/A				
Detected Face Size	N/A				
Capture Response	N/A				
Basic Alarm Event					
Basic Alarm Event	SD card error, Network disconnection, IP conflict, Illegal access, Motion detection, Video tampering, External alarm				
Basic Alarm Event	Target Counting, 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. 256 GB)				
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, 30 W), DC 12 V $\pm$ 10% 4 A reverse polarity protection				
Power Consumption	Basic 22 W (12 VDC); 30 W (PoE)				
Power Interface	Ø 5.5 mm coaxial power plug				
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Structure				
Casing Material	Aluminium Alloy + Plastics			
Dimensions	376 × 185 × 277 (mm)			
Net Weight	5 kg			
Gross Weight	5.5 kg			
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**

Туре	Model	Descripton		
2 MP Smart IP PTZ Camera	PM-852TC33N-AD	ZKBio Sense 2 MP 33X Zoom Smart IP PTZ Camera		

## Dimension (mm)



## **Accessories**

Optional	Junction Box	Junction Box with Straight Bracket	Celling Mount Bracket	Pole Mount Bracket	Corner Mount Bracket
Model	ZK-B40-7	ZK-B48-1	ZK-B48-2	ZK-B40-4	ZK-B40-3
Picture				11	



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