

# **PM-855PC20N-AD** ZKBio Sense PTZ Series ZKBio Sense 5.5-inch 5 MP 20X Zoom Smart IP PTZ Camera



## **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-855PC20N-AD		
Image Sensor		1/2	.7" 5 MP CMOS Senso	r	
Max. Resolution	2592 (H) × 1944 (V)				
ROM			128 MB		
RAM			256 MB		
Scanning System			Progressive Scan		
Electronic Shutter Speed			1/5 s to 1/100,000 s		
Min. Illumination			⊚ F1.7 to F3.3 (AGC or ) Lux (IR on, B & W)	n, Color)	
S/N Ratio			> 52 dB		
IR Range			120 m		
White Light Range		30 m			
Illuminator On / Off Control			Auto / Manual		
Illuminator Number	$4 \times IR$ LED, $3 \times White$ Light 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, Mirror, Privacy mask, Log, Password reset				
Lens					
Lens Type		Motorized vari-focal			
Lens Mount	M32				
Mount Type	Board-in				
Focal Length	4.7 to 94 mm				
Max. Aperture	F1.7 to F3.3				
Optical Zoom	20X				
Field of View	64° (W) to 3.2° (T)				
Iris Type	Fixed				
Close Focus Distance			2 m		
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	Wide	482 m	228 m	111 m	61 m
	Telephoto	1060.0 m	420.4 m	210.0 m	105.8 m

D (T				
P/T Dan /Tilt Pango		$D_{2D}$ , $0^{\circ}$ to $260^{\circ}$ Tilt. $10^{\circ}$ to $00^{\circ}$		
Pan / Tilt Range		Pan: 0° to 360°, Tilt: -10° to 90°		
Pan Speed		0.1° to 200°/s		
Tilt Speed	0.1° to 180°/s			
Preset	225			
Preset Speed		10-Level selection		
Pattern Group	C 111 1 D	4		
Auto Mode	Support Idle motion, Powe	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	5 MP (2592 × 1944) / 4 MP	2 (2560 × 1440) / 2 MP (1920 × 1080) / 1.3 MP (1280 × 960) / 720 P (1280 × 720)		
	Main Stream	50 Hz (PAL): 25 fps (2592 × 1944, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz (NTSC): 30 fps (2592 × 1944, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)		
Max Video Frame Rate	Sub Stream	50 Hz (PAL): 25 fps (704 × 576, 640 × 480, 640 × 360)		
	Third Stream	60 Hz (NTSC): 30 fps (704 × 576, 640 × 480, 640 × 360) N/A		
Video Stream Capability		Dual streams		
Bit Rate Control		CBR / VBR		
		H.264: 896 Kbps to 8 Mbps		
Video Bit Rate		H.265: 1024 Kbps to 8 Mbps		
Day / Night		Auto (ICR) / Color / B & W		
BLC	Support			
HLC		Support		
WDR	120 dB 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 to 6)			
Defog	N/A			
Mirror	Support			
Image Rotation	0° / 180° / Horizontal / Vertical			
Privacy Masking	4 areas			
Corridor Mode	Support			
Digital Zoom	Support			
Anti-flicker	N/A			
Audio				
Built-in MIC	N/A			
Built-in Loudspeaker	N/A			
Audio Compression	G.711 ulaw			
Environment Noise Filtering	Support			
Audio Sampling Rate	8 kHz / 16 kHz / 32 kHz / 44.1 kHz / 48 kHz			
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		
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 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	Support		

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		
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 Rating	IP66		
Certifications			
Certificate	ISO9001, ISO14001, CE, FCC		

# **Ordering Information**

Туре	Model	Descripton
5 MP Smart IP PTZ Camera	PM-855PC20N-AD	ZKBio Sense 5 MP 20X Zoom Smart IP PTZ Camera



### Accessories

Optional Bracket	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount
Model	ZK-B64-1	ZK-B64-2	ZK-B64-4	ZK-B64-3
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