functional characteristics

· High performance 2 megapixel 1/2.7 inch high resolution CMOS sensor

· Support ICR infrared filter automatic switching, automatic color to black function, realize day and night monitoring

· Support intelligent infrared function to effectively prevent close-range infrared overexposure;

· Supports a maximum infrared illumination distance of 20 meters;

· Support automatic exposure, automatic white balance function, suitable for various scene monitoring;

· PTZ control

· The product has been tested by-10℃~+55℃ high and low temperature cold and hot cycle test, easily coping with harsh environment;

· Supports DC12V±25% wide voltage supply;

· Protection class IP66;

· Support coaxial view control function

on-product information	product model	C280
	parameter	Infrared fixed focus waterproof pan-tilt camera
	product SKU	
	Hardware version number	
camera	pixel	2MP （1080*1920）
	Maximum image size	1080*1920
	frame rate	25fps
	Computing power	1TOPS （INT8） 1 TOPS = 10^{12} TOPS (1 trillion integer operations per second)
	signal system	PAL/NTSC
	Digital noise	2D noise reduction

	reduction	
	Backlight compensation	support
	Wide Dynamic	Greater than 105dB
	noise-signal ratio	Greater than 62dB
	automatic gain	support
	white balance	voluntarily
	Strong light inhibition	
	Switch the threshold day and night	Soft light sensitivity: less than 2Lux during day and night; more than 4Lux during night and day
	Day and night switching mode	ICR infrared filter type
	Minimum low light	0.01Lux (colour)/ 0lux (IR on)
	electronic shutter	1/12.5 (1/15) seconds to 1/50,000 seconds
	P/N make	
picture	Image sensor type	2.0 Mega CMOS,1/2.7″
	Image sensor technology	BSI / FSI
	resolution ratio	HD 1080*1920 Standard definition 640 by 360
	Code stream type	Variable bit stream
	Image Settings	Supports HD/SC; supports mirroring
Audio and video compression	Video compression standard	H.265(Main Profile)/H.264
	code check	HD: 1Mbps Standard definition: 512kbps
	Bit rate type	Variable bit rate
	Audio sampling rate	8Khz
	Audio bit rate	128kbps
	Audio	G.711A

	compression standard	
camera lens	Camera interface type	M12
	Focal length of the lens	3.6mm
	Focus type	fixed focal length
	Aperture type	Set the aperture to fixed
	lens aperture	F2.0
	Depth of field range	2.8 mm: 1 m~∞ 4 mm: 1.2 m~∞ 6 mm: 2.8 m~∞ 8 mm: 4.4 m~∞
	angle of field	Horizontal Angle (H-FOV) 90°
	Scope of surveillance	40 square (optimal monitoring range)
fill-in light	Night vision type	Black and white night vision
	lamp panel	Three white lights
	Power (per lamp)	1W
	Night vision lighting method	Infrared lighting, white light lighting
	Infrared wavelength	850nm (visible) / 940nm (infrared)
	Light levels are measured in lumens	300lm (lumens)
	colour temperature	4500K
	Infrared night vision range	Twenty meters
Cloud Terrace	Rotate the view horizontally	355°
	Vertical rotation perspective	95°

	Speed (Speed)	13°/ s
	Torque (Torque)	0.1 - 0.5 N · m
	Interfaces (Interface)	SPI/I2C interface
AI algorithm	Mobile detection	support
	Humanoid detection	support
	Car shape detection	/
	Face detection	/
	Regional detection	/
	passenger flow statistics	/
	Alien sound detection	/
	Gesture detection	/
	Cry detection	/
	Flame detection	/
	Baby face cover detection	/
	Package inspection	/
	Humanoid tracking	support
	Pet tracking	/
Camera features	Alarm linkage	Intelligent sound and light alarm (built-in buzzer + flash), APP message reminder
	Physical occlusion	Supports one-click physical blocking
	Privacy shield	Supports five custom areas
	Customize alarm voice	nonsupport
	Two-way voice	nonsupport
	Voice commands	nonsupport
network	Bluetooth	BLW 5.0

settings	standard	
	Wireless standards	IEEE 802.1 1b/g/n/ax 1T1R
	frequency range	2.4 GHz/5GHz
	channel bandwidth	Supports 40MHz
	Distribution network mode	AP hotspot networking / Bluetooth networking
	Support agreement	TCP/IP,HTTP,DHCP,DNS，MQTT，P2P，RTSP
	Voice assistant	not have
	WiFi transmission distance	
	firmware upgrade	
Video storage	local-storage	Hard disk video recorder
	Local mode	Full-time video/alarm video
	Local storage resolution	Master stream/substream
	Local storage format	MP4/M3U8
	Cloud storage	nonsupport
Interface/key	Wired network port	
	High-definition video output	1x BNC coaxial HD, in accordance with HDTVI standard
	memory interface	
	Audio input	
	Audio output	
	key	
	pilot lamp	
General norms	Product material	cabinet
	classification of waterproof	IP66, waterproof and dustproof

	Working temperature, humidity	-20℃~55℃, humidity less than 90% (no condensation)
	power suppl	DC12V±25%
	Power interface	Type Ø 5.5 mm round mouth
	size （mm）	120*86*126
	weight （g）	
	way to install	Wall mounting/hanging/pole (accessories include screws)
	Supports clients	App：Zosi Smart PC end ： AVSS (For example, remote viewing, alarm push, and multi-device management)
	security certificate	FCC，CE
	data security	GDPR compliance (EU user data protection) / ISO 27001 (Information security management system)
	List of packaging components	Camera host, power adapter, screw pack, instruction manual
	usage scenario	Home interior/outdoor/shops