



Pedestrian Flow Monitoring Camera

RP1

Product Specification

Update Record

No.	Version	Update	Revise
1	Ver.1.0	Initial	2022.05.18

The document is subject to change without prior notice.

SHENZHEN SYSOLUTION TECHNOLOGY CO., LTD

Functional Features

1. Equipped with a built-in GPU chip, which supports deep learning algorithms and can effectively improve detection accuracy;
2. Support three intelligent resources switching: general behavior analysis, face detection, and head count statistics;
3. Support face detection: supporting tracking, choosing the preferences, capturing, reporting the optimal face capture, face enhancement, face exposure;
4. Support intelligent detection: area intrusion, tripwire intrusion, fast movement (support human vehicle classification and accurate detection), objects left behind, objects moved, wandering detection, people gathering, parking detection, heat map;
5. Support audible and visual alarm linkage, which can trigger linked audible alarms and flashing lights when an alarm is generated;
6. Support head count: entry/exit headcount, and can generate headcount daily/monthly/yearly reports, exported reports; queue management; head count statistic in the area;
7. Adopts star-grade low illumination 4 megapixel 1/2.7 inch CMOS image sensor, with good low illumination effect and high image clarity;
8. Maximum output is 4 million (2688 x 1520) @ 25fps;
9. Support H.265 encoding with high compression ratio for ultra-low bit-stream transmission;
10. Equipped with built-in high-efficiency warm light and IR fill light. Its maximum IR

monitoring distance is 80m, maximum warm light monitoring distance 30m;

11. Supportcorridor mode, wide dynamic, 3D noise reduction, glare suppression, backlight compensation, digital watermark. It is suitable for different surveillance environments;
12. Support ROI, SMART H.264/H.265, flexible encoding, suit for different bandwidth and storage environments;
13. Support one-key disarm, unified disarm control for email, audio, lighting and other event linkage items within a custom set time period;
14. Support built-in MIC and speaker, up to 256G Micro SD card;
15. Support DC12V/POE power supply;
16. Support IP67 protection level.

Product Images



Product Parameters

Parameter name	Parameter values
Cameras	
Appearance	Gun type
Sensor type	1/2.7-inch CMOS
Pixels	4 MP
Maximum resolution	2688×1520
Scan method	Progressive scanning
Electronic shutter	1/3s~1/100000s (manually or automatically adjustable)
Minimum Illumination	0.002 Lux (in color mode); 0.0002 Lux (in B&W mode); 0 Lux (when fill light is on).
Signal-to-noise ratio	> 56dB
Maximum fill light distance	80m (IR video monitoring distance) 30m (warm light video monitoring distance) 10m (warm light face detection distance)
Fill light	2 (infra-red lights) 2 (warm lights)
Footage	
Type of lens	Fixed focal length
Lens interface	M12
Lens focal length	3.6mm
Lens aperture	F1.6
Field angle	84° horizontal x 44° vertical x 100° diagonal

Aperture control	Fixed aperture
Close up distance	0.8m
Smart Items	
General behavioral analysis	Objects left behind; removal of objects
Heat maps	Support
Professional Intelligence	
Profound mental	Support
Perimeter precautions	Tripwire intrusion; area intrusion; fast movement (support for human-vehicle classification and accurate detection); wandering detection; people gathering; parking detection
Face capturing	Support
Face capturing	Support face detection; tracking; preference; capture; reporting the best face capture; face enhancement, face exposure; face keying area can be set: face, single inch photo; real-time capture, preference capture, quality first three capture strategy; face angle filtering function; preference length can be set
Headcount	Support the counting of people entering, leaving and passing, and display and output daily, monthly and yearly statistical reports; support the counting of people in the area statistics, 4 rules configuration, statistics and linkage alarm for the limited number of people in the area and detention time;

	support queue management, 4 rules configuration, statistics and linkage alarm for the limited number of people in the queue and queue time
Intelligent Search	With Smart NVR, it can realize secondary intelligent retrieval, analysis and condensed playback of event footage
Video	
Video compression standards	H.265; H.264; H.264H; H.264B; MJPEG (auxiliary stream support only)
Intelligent Coding	H.264: support; H.265: support
Video frame rate	50Hz Main stream (2688 × 1520@25fps), secondary stream (704 × 576@25fps), third stream (1280 × 720@25fps) 60Hz Main stream (2688 × 1520@30fps), secondary stream (704 × 480@30fps), third stream (1280×720@30fps)
Video bitrate	3Kbps ~ 8192Kbps
Day and night conversion	ICR automatic switching
Backlight compensation	Support
Strong light suppression	Support
Wide Dynamic	120dB
White balance	Automatic; Natural light; Street light; Outdoor; Manual; Zone

	customization
Gain control	Manual; Automatic
Noise reduction	3D noise reduction
Default code stream at default resolution	2048kbps (2688×1520)
Fogging function	Support
Image Flip	Support
Corridor model	90°/270° (supported at 1080P resolution and below)
Mirroring	Support
Privacy Shield	4 pieces
Audio	
Built-in MIC	Support
Built-in speakers	Support
Audio compression standards	G.711a; G.711Mu; PCM; G.726; AAC; G722.1; MPEG2-Layer2
Audio sampling rate	8 KHz; 16 KHz; 32 KHz
Alarm	
Alarm incidents	No SD card; Insufficient SD card storage; SD card error; Network disconnection; IP conflict; Illegal access; Motion detection; Video masking; Tripwire intrusion; Area intrusion; Fast movement; Item left behind; Item moved; Wandering detection; People gathering; Parking detection; Scene change; Audio anomaly detection; Voltage

	<p>detection; Face detection; SMD; Number of people in area statistics;</p> <p>Stranding alarm; Number of people statistics; Number of people anomaly detection; Number of people in queue; Queuing time;</p> <p>Security anomaly; Light alarm; Sound alarm (with 21 languages to choose, support user-defined language import)</p>
Network	
Network Interface	1 x (RJ-45 network port, supports 10M/100M network data)
Network protocols	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP
Access standards	ONVIF (Profile S/Profile G/Profile T) ; CGI; GB/T28181 (dual national standard) ; GA/T1400; AIPS 4.0 cloud platform;
Preview the maximum number of users	20 (total bandwidth: 64M)
Storage functions	AIPS 4.0 cloud platform; FTP; SFTP; Micro SD card (supports up to 256G); NFS
Browser	IE support: IE9 and above; Google support: Chrome 42 and above; Firefox support: Firefox 48.0.2 and above
Docking platform	NVR5X、NVR4X、IVSS、EVS、DSS7016D-I、SmartPSSPlus、Yunrui、AIPS 4.0 cloud platform
Network Security	Stream Encryption; Firmware Encryption; Configuration Encryption; Digest; WSSE; Account Lockout; Security Logging; IP/MAC Address

	Filtering; X.509 Certificate Generation and Import; syslog; HTTPS; 802.1x; Trusted Boot; Trusted Execution; Trusted Upgrade
Function	
Image settings	Brightness; Contrast; Sharpness; Saturation; Gamma
OSD information overlay	Time; access; geolocation; pictures; face statistics
Video mode	Manual Recording; Video Detection Recording; Timed Recording; Alarm Recording Recording Recording priority from highest to lowest is Manual Recording > Video Detection Recording > Timed Recording
Max. Micro SD card	256GB
Restore default	Supports one-click restoration of default configuration
User Management	Supports maximum 20 users
Safe Mode	Authorized username and password; MAC address binding; HTTPS encryption; IEEE 802.1x; network access control
Low light level	star-grade
Other functions	Light alarm; audible alarm; intelligent fill light

Working Parameters

Power supply	
Operating voltage	DC12V ($\pm 30\%$) ; POE+ (802.3at)
Power supply method	DC12V/POE
Power consumption	Basic power consumption: 4.2W (DC12V); 5W (POE); Maximum power consumption (H.265+IR+Intelligent+Wide Dynamic+Alarm Speaker White): 11.1W (DC12V); 13.4W (POE)
Environment	
Operating temperature	-40°C~+60°C
Working humidity	$\leq 95\%$
Protection class	IP67
Structure	
Housing material	Metal + plastic
Product size	218.3mm×108.2mm×96.0mm (L x W x H)

Package size	307mm×155mm×143mm (L x W x H)
Net weight	669.5g
Gross weight	865.0g
Mounting method	Wall-mounted; suspended; riser-mounted; cross-mounted
Power supply	Not standard
Footage	Standard

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Dimensional Drawings

