



# Four Million Face Traffic Monitoring Cameras RP2 Product Specification

Version: Ver.1.0

### **Update Record**

	No.	Version	Update	Revise
	1	Ver.1.0	Initial	2022.05.18
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#### **Functional Features**

- Equipped with a built-in GPU chip, which supports deep learning algorithms and can effectively improve detection accuracy; Support IP67;
- 2. Support five intelligent resources switching: general behavior analysis, face detection, head count statistics, heat map, and three-dimensional behavioral analysis
- 3. Facial traffic statistics: support face detection, statistics of the number of people in double intelligent and parallel way. It also can capture the person's face on the video screen at the same time to achieve the number of people statistics;
- 4. Three-dimensional behavior analysis: through setting the detection area and departure time in the three-dimensional behavior analysis, it supports the detection of personnel leaving status, and when the personnel in the area leave the set area and exceed the set time threshold, it can trigger the alarm, capture the map and send an email; the number of alarms and alarm threshold can be set; it can detect up to 8 detection areas, and each area will be independently detected without interference;
- 5. General behavior analysis: support for area intrusion, tripwire intrusion, fast movement (support human vehicle classification and accurate detection), objects left behind, objects moved, wandering detection, people gathering, parking detection;
- 6. Supports a wide range of anomaly detection: motion detection, video masking, scene change, defocus detection, audio anomaly detection, no SD card, insufficient SD card space, SD card error, network disconnection, IP conflict, illegal access;
- 7. Support five-stream function with three-way HD video display

- 8. Adopts star-grade low illumination 4 megapixel 1/1.8 inch CMOS image sensor, with good low illumination effect and high image clarity;
- 9. Maximum output is 4 million (2688 x 1520) @ 25fps;
- Support H.265 encoding with high compression ratio for ultra-low bit-stream transmission;
- 11. Equipped with built-in high-efficiency warm light. Its maximum warm light monitoring distance 30m;
- 12. Support corridor mode, wide dynamic, 3D noise reduction, glare suppression, backlight compensation, digital watermark. It is suitable for different surveillance environments;
- 13. Support ROI, SMART H.264/H.265, flexible encoding, suit for different bandwidth and storage environments;
- 14. Support alarm 3 in 2 out, audio 1 in 1 out, 485, BNC, 256G SD card
- 15. Support AC24V/DC12V/POE power supply mode, support 12V power return, maximum current 165mA, convenient for engineering installation;

#### **Product Images**



#### **Product Parameters**

Parameter name	Parameter values	
Cameras		
Appearance	Gun type	
Sensor type	1/1.8-inch CMOS	
Pixels	4 MP	
Maximum resolution	2688×1520	
Scan method	Progressive scanning	
Electronic shutter	1/3s~1/100000s (manually or automatically adjustable)	
	0.001 Lux (in color mode); 0.0001 Lux (in B&W mode); 0 Lux	
Minimum Illumination	(when fill light is on).	
Signal-to-noise ratio	> 56dB	
Maximum fill light		
distance	15m (face detection distance) 40m (video monitoring distance)	
Fill light	4 (warm lights)	
Footage		
Type of lens	Motorized zoom	
Lens interface	φ14	
Lens focal length	3.5-12mm	
Lens aperture	F1.8	
Field angle	Horizontal: 114°~47° Vertical: 62°~26° Diagonal: 136°~54°	

Aperture control	Fixed aperture		
Aperture control	Tixed aperture		
Close up distance	1.2m		
Smart Items			
General behavioral			
analysis	Objects left behind; removal of objects		
Heat maps	Support		
	Professional Intelligence		
Profound mental	Support		
	Tripwire intrusion; area intrusion; fast movement (support for		
Perimeter precautions	human-vehicle classification and accurate detection); wandering		
	detection; people gathering; parking detection		
Face capturing	Support		
	Support face detection; tracking; preference; capture; reporting		
	the best face capture; face enhancement; face exposure; face		
40	attributes extraction; 6 attributes and 8 expressions, including		
Face detection	gender, age, glasses, expression (happy, surprised, normal, angry,		
race detection	sad, disgusted, confused, scared), mask, beard; face keying area		
	can be set: face, single inch photo; real-time capture; preferential		
	capture; quality first three capture strategies; face angle filtering		
	function; preferential duration can be set.		
Headcount	Support tripwire headcount, support area headcount, and		
Headcount	display and output daily, monthly and yearly statistical reports;		

	Support queue management functions and display and output
	daily, monthly and yearly statistical reports;
	Supports 4 tripwire headcounts, 4 in-area headcounts and 4
	queue management functions.
	Though setting the detection area and departure time in the
	three-dimensional behavioral analysis, it supports the detection
	of personnel leaving the area. When the personnel in the area
Stereo behavioral	leave the set area and exceed the set time threshold, the alarm
analysis	can be triggered, the map can be captured and an email can be
	sent; the number of alarms and the alarm threshold can be set;
	up to 8 detection areas can be set and each area can be detected
	independently without interfering with each other.
Intelligent Course	With Smart NVR, it can realize secondary intelligent retrieval,
Intelligent Search	analysis and condensed playback of event footage.
10	Video
Video compression	H.265; H.264; H.264H; H.264B; MJPEG (auxiliary stream support
standards	only)
Intelligent Coding	H.264: support; H.265: support
	50Hz Main stream (2688×1520@25fps), secondary stream (704×
Video fueros resta	576@25fps), third stream (1920 × 1080@11fps) Main stream
Video frame rate	(1920×1080@50fps), secondary stream (704×576@50fps), third
	stream (640 × 480@50fps) 60Hz Main stream (2688 ×

	1520@30fps), secondary stream (704×480@30fps), third stream
	(704×480@12fps) Main stream (2688×1520@30fps), Secondary
	stream (704×480@30fps), Third stream (704×480@12fps) Main
	stream (1920 × 1080@60fps), Secondary stream (352 ×
	240@60fps), Third stream (640×480@20fps)
Video bitrate	H.264: 32kbps ~ 8192kbps H.265: 32kbps ~ 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
writte balance	customization
Gain control	Manual; Automatic
Noise reduction	3D noise reduction
Default code stream at	
default resolution	4096kbps (2688×1520)
Anti-shake function	Electronic anti-shake
Fogging function	Support
lmage Flip	Support
	90°: 2688×1520; 2304×1296; 1080P (1920×1080) ; 1.3M (1280
Corridor model	×960) ; 720P (1280×720) ; D1 (704× 576/704×480) ; VGA
	(640×480); CIF (352×288/352×240) 270°: 2688×1520; 2304

	×1296; 1080P (1920×1080) ; 1.3M (1280×960) ; 720P (1280
	×720) ; D1 (704× 576/704×480) ; VGA (640×480) ; CIF (352
	×288/352×240)
Mirroring	Support
Privacy Shield	4 pieces
	Audio
Audio Interface	Support
Audio compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729;
standards	G.723
Audio sampling rate	8KHz/16KHz/32KHz/48KHz/64KHz
Alarm	
	No SD card; Insufficient SD card space; SD card error; Network
	disconnection; IP conflict; Illegal access; Motion detection; Video
	masking; Tripwire intrusion; Area intrusion; Rapid movement;
Alarm incidents	Item left behind; Item moved; Wandering detection; People
(5)	gathering; Parking detection; Leaving detection; Scene change;
	Audio anomaly detection; Face detection; Headcount in area;
	Headcount count; Headcount anomaly detection.
Network	
Network Interface	1 x (RJ-45 network port, supports 10M/100M network data)
National materials	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP;
Network protocols	DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP

Access standards	ONVIF (Profile S/Profile G); GB/T28181; CGI; AIPS Cloud
	Platform 4.0
Preview the maximum	
number of users	20 (total bandwidth: 88M)
Storage functions	Sysolution Cloud; FTP; Micro SD 卡 (support up to 256G); NAS
Browser	Support IE: IE8 or above Support Google: all Support Firefox: all
Diowaci	Support Apple: safari 12 or above
Function	
Image settings	Gamma, Saturation, Sharpness, Contrast, Brightness
OSD information overlay	Area overlays; channel headings; time headings; geolocation;
OSD Information overlay	font attributes; image overlays; custom overlays; face statistics
	Manual Recording; Video Detection Recording; Timed Recording;
Video mode	Alarm Recording Recording priority from highest to
video mode	lowest is Manual Recording > Video Detection Recording >
76	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;
Sale Mode	HTTPS encryption; IEEE 802.1x; network access control
Low light level	star-grade
Other functions	Off-duty testing

## **Working Parameters**

Power supply		
On a matin manality ma	Separate power ports for DC12V (±30%) & AC24V (±30%);	
Operating voltage	POE+ (802.3at)	
Power supply method	DC12V/AC24V/POE	
	Basic power consumption: 2.8W (DC12V); 4.5W (AC24V	
	active power); 4.3W (POE) Maximum power consumption	
Power consumption	(ICR switching, warm light brightest): 16.5W (DC12V); 21.6W	
	(AC24V active power); 20.5W (POE)	
Environment		
Operating temperature	-30°C~+60°C	
Working humidity	≤95%	
Protection class	IP67	
Structure		
Housing material	Metal + plastic	
Product size	2	
Product size	221.4mm×108.9mm×100.7mm (L x W x H)	
Package size	307mm×155mm×143mm (L x W x H)	
Net weight	1068g	
Gross weight	1256g	
Mounting method	Wall-mounted; suspended; riser-mounted; cross-mounted	

Power supply	Not standard
Footage	Standard
B	Supports DC12V power return with a maximum current of
Power return	165mA

#### **Dimension**

