



Traffic Flow Statistics Camera RP3

Datasheet

Update

NO.	Version	Update	Revise
1	Ver.1.0	Initial Publish	2022.05.18

Documets are subject to change without prior notice..

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Functions And Features

1. build in GPU chip, support deeply learning algorithm to effectively improve detection accuracy.
2. The three intelligences, i.e. illegal stop snapshot, checkpoint snapshot and electronic police, are mutually exclusive and support intelligent multi scene cruise for time-sharing reuse.
3. Illegal snapshot: it supports a\b\c\d illegal parking snapshot. The snapshot distance radius: 140m (multi scene) and 66m (single scene); Support adaptive multi scene cruise detection.
4. Capture of checkpoints: support vehicle checkpoints, pressing the white line, pressing the yellow line, retrograde, illegal lane change, vehicle congestion, vehicle occupation, yellow card occupation, driving without following the lane, speeding, under speed, not wearing seat belts, traffic congestion, and cover 1 motorway +1 non motorway license plate.
5. Electronic police: Car checkpoints, white lines, yellow lines, retrograde, illegal lane changing, traffic congestion, vehicles occupying the road, yellow cards occupying the road, not following the lane, speeding, illegal U-turns, illegal reversing, not giving way to pedestrians, not following the guide arrows, and supporting the coverage of 1 motorway +1 non motorized license plate.
6. Support 33x optical zoom and 16x digital zoom.
7. 2 megapixel 1/1.9 inch CMOS sensor.
8. Support super star light level ultra-low illumination, color: 0 001Lux@F1.5 Black and white: 0 0001Lux@F1.5.

9. Support h.265 coding to realize ultra-low code stream transmission.
10. Built in 220m infrared lamp light filling, using the matching algorithm between magnification and infrared lamp power, the light filling effect is more uniform.
11. continuous rotation in the horizontal direction and $-20^{\circ} \sim 90^{\circ}$ automatic turnover in the vertical direction for 180° continuous monitoring without monitoring blind area.
12. support 300 preset positions, 8 cruise paths and 5 patrol paths.
13. support 1 channel audio input and 1 channel audio output.
14. Built in 7-channel alarm input and 2-channel alarm output, supporting alarm linkage function.
15. Support IP67 protection grade, 8000v lightning protection, surge protection and surge protection.
16. Support AC24V $\pm$ 25% wide voltage input.

Product Pictures



Product Parameters

Type	Parameters
Camera	
Type	RP3
Sensor type	1/1.9 inches CMOS
Pixels	200,0000
Maximum resolution	1920×1080
Electronic shutter	1/1s~1/30000s
Minimum illumination	colorful: 0.001Lux@F1.5 white and black: 0.0001Lux@F1.5 0Lux (enable infrared light)
Maximum fill distance	220m (infrared)
Fill lamp control	Magnification priority / manual /SmartIR/ off
Number of fill lamps	10numbers (Infrared lamp)
Fill light type	Infrared
Camera lens	
Focal length	5.8mm~191.4mm

Lens aperture	F1.5~F4.8
Field angle	horizontal: 60.1°~ 3.2° vertical: 35.3°~1.8° diagonal: 67.9°~3.7°
Optical zoom	33X
Close range	0.1m~1m
Zoom speed	About 4.9s
Pan tilt	
Rotation range	Horizontal: 0°~360°continue rotate vertical: -20°~+90°Auto flip180° then keep monitoring
Keying speed	Horizontal: 0.1°/s~200°/s Vertical: 0.1°/s~53°/s
Preset point speed	Horizontal: 240°/s Vertical: 128°/s
Preset point	300 numbers
Cruise control	There are 8 lines, can add 32 preset points for each line.
Automatic tracking	5 lines
Automatic line scanning	5 lines
Power off memory	support
Idle action	Line scan; Cruise; Patrol; Preset
PTZ agreement	DH-SD Pelco-P/D(Auto recognition)

Scheduled task	Line scan; Cruise; Patrol; Preset
Preset point video freezing	Support
positioning	Support
Visual domain function	Support
Professional intelligence	
Intelligent classification	Special intelligence
Illegal parking	Capture distance radius: 140m (multi scene) and 66m (single scene) support a\b\c\d illegal parking capture; Support adaptive multi scene cruise detection; It supports vehicle type, body color, vehicle logo, vehicle series, license plate, license plate color and other motor vehicle attribute recognition.
Bayonet snap	It supports the coverage of 1 motor vehicle lane +1 non motor vehicle license plate, and supports the detection and capture of the following behaviors: Car checkpoints, white line pressing, yellow line pressing, retrograde, illegal lane changing, vehicle congestion, vehicle occupation, yellow card occupation, non following Lane driving, over speed, under speed, not wearing seat belts, and traffic congestion; Support the following vehicle feature recognition: license plate, license

	plate color, body color, vehicle type, vehicle logo, vehicle line, vehicle speed, annual inspection mark, tissue box, perfume box, pendant, seat belt status, sun visor status, face matting, driver smoking status, and driver calling status.
Electronic police	It supports the coverage of 1 motorway +1 non motorway license plate. It supports the detection and capture of the following behaviors: Vehicle bayonet, white line, yellow line, retrograde, illegal lane change, vehicle congestion, vehicle occupation, yellow card occupation, non following Lane driving, over speed, illegal U-turn, illegal reverse, failing to yield to pedestrians, and non following guide arrows. It supports the identification of the following vehicle characteristics: license plate, license plate color, body color, vehicle type, vehicle logo, and vehicle line
Intelligent description	The three intelligences, i.e. illegal stop snapshot, checkpoint snapshot and electronic police, are mutually exclusive and support time-sharing reuse of intelligent multi scene cruise.
Video	
Video compression standard	MJPEG; H.264H; H.264M; H.264B; Smart H.264; H.265; Smart H.265
Default code stream at	4096Kbps (1920×1080)

default resolution	
Video frame rate	50Hz Main code stream (1920×1080@50fps) , Main code stream (1280×960@50fps) , Main code stream (1280×720@50fps) Secondary code stream1 (704 × 576@25fps) , Secondary code stream1 (352 × 288@25fps) Secondary code stream2(1920×1080@25fps),Secondary code stream2 (1280×960@25fps) , Secondary code stream2 (1280×720@25fps) , Secondary code stream2 (704×576@25fps) , Secondary code stream2 (352×288@25fps) 60Hz main code stream (1920×1080@60fps) , main code stream (1280×960@60fps) , main code stream (1280 × 720@60fps) Secondary code stream1 (704 × 480@30fps) , Secondary code stream1 (352×240@30fps) Secondary code stream2 (1920×1080@30fps) , Secondary code stream2 (1280×960@30fps) , Secondary code stream2 (1280×720@30fps) , Secondary code stream2 (704×480@30fps) , Secondary code stream2 (352×240@30fps)
Bitstream control	Variable bitstream / fixed bitstream
Day night conversion	ICR Automatic switching / electronic color to black
Backlight compensation	Support

Wide dynamic	Support
Glare suppression	Support
The white balance	Automatic / indoor / outdoor / tracking / manual / sodium lamp / natural light / street lamp
Gain control	Auto / manual
Noise reduction	2D noise reduction / 3d noise reduction
Areas of interest ROI	Support
Shake Reduction	Electronic anti shake
Fog penetration function	Electronic fog transmission
Digital zoom	16X
Privacy masking	Up to 24 areas, and up to 8 areas on the same screen, supporting 8 colors
Signal to noise ratio	≥55dB
Audio	
Audio	G.711a; G.711Mu; AAC; G7221; G726; MP2L2; G729

compression standard	
Network	
Network interface	1 个 (RJ-45Network port, support 10M/100Mnetwork data)
Network protocol	TCP; PPPoE; RTP; RTCP; ARP; IGMP; SNMPv1/v2c/v3(MIB-2); SNMP; ICMP; UPnP; FTP; Qos; 802.1x; IPv6; DDNS; DNS; DHCP; NTP; SMTP; UDP; RTSP; IPv4; HTTPS; HTTP
Access standard	SDK; CGI; GB/T28181; ONVIF
Preview maximum users	20 个 (total band width: 64M)
Storage function	AIPS4.0; SD Card
Browser	Support ie:ie7 and above; Support Google: no version limit; Support Firefox: no version limit; Apple support: no version restrictions
Functions	
SVC	Time domain
Area focusing	Support
OSD Information	Access; Time; Preset point; Temperature; PTZ coordinates; Zoom; Due north; Geographical location; picture

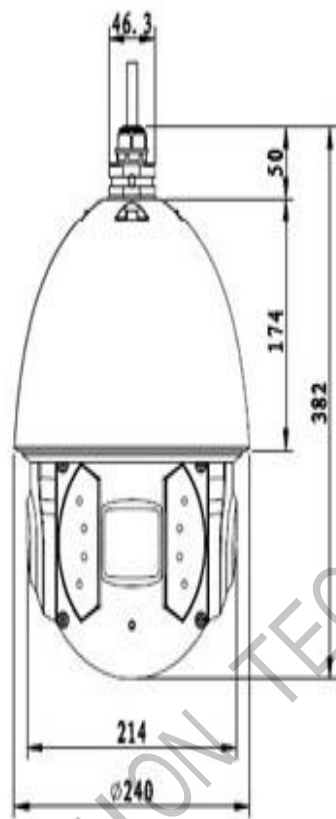
Superposition	
Safe mode	Authorized user name and password; MAC address binding; HTTPS encryption; IEEE802.1x; Network access control.
User management	Support 19 users at most; Multi level user permission management
Interfaces	
RS-485 Port	1 (baud rate range: 1200bps~9600bps)
Audio input	1 line (LINE IN; naked cable)
Audio output	1 line (LINE OUT; naked cable)
Alarm interface	7 in and 2 out
Voice intercom	Support
Alarm input	7 lines, Switching value input (0~5V DC)
Alarm output	2 lines
Alarm linkage	Snapshot; Preset point; Cruise; Patrol; Video recording; Trigger switching value output; Send mail
Alarm events	Dynamic detection / video occlusion; Audio detection; Network disconnection detection; IP conflict detection; Memory card status detection; Storage space detection

Working Parameters

Power	
Power supply	AC24V/3A±25% (standard)
Consumption	Basic consumption: 20W maximum consumption : 32W (Fill light on)
Environment	
Working temperature	-40°C~+70°C
Working humidity	≤95%
Degree of protection	IP67 ; TVS 8000V Lightning protection, surge protection and surge protection
Structure	
Size	382.0mm×Φ240.0mm (height×diameter)
Net weight	5.8kg
Gross weight	8kg
Installation type	Wall mounting; Hoisting; Pole installation; Cross bar assembly
Accessories	Standard power supply: with adapter block: with optional wall mounting: dh-pfb306w wall mounting: dh-pfb303w+ adapter block hoisting: dh-pfb300c+ adapter block upright mounting: dh-pfa150+dh-pfb303w+ adapter block crossbar mounting:

	dh-pfa150+dh-pfb300c+ adapter block
Filter items	
Ball machine size	6 inches
Interfaces type	RS485 port; RJ45 port
H.265	Support
Starlight level	Superstarlight
Other features	Illegal parking; Electronic police; Vehicle structure

Dimension



Unit: mm

