



## Product characteristics

- 1 / 1.8 inch 8 million super starlight, sensor
- 4MP / 8MP resolution dual-mode switching
- Maximum support is 63 x optical zoom, 16 x digital zoom
- 500 meters laser light, 300 meters infrared light, 30 meters white light light
- Lance color 0.002 Lux @ F 1.6; black and white 0.001 Lux @ F 1.6
- Support ordinary monitoring, intelligent monitoring, face capture three modes
- Support tripping line, double mixing line, perimeter, item left, item lost, wandering, parking, running, heat diagram 9 behavior analysis
- Support face binding, face capture, face capture rate > 98%
- Built-in speaker, custom voice, can achieve propaganda and voice warning
- Built-in laser, can linkage laser drive away
- Built-in heat treatment device to reduce the temperature of the ball machine and prevent fog in the ball machine
- Support 3D positioning function, can realize click tracking and amplification
- preset 500, cruise 16, scan 8
- Support 110M / 100M network port, support alarm 8 in 2 out, support audio 1 in 1 out, maximum support 512G TF card, built-in hard reset
- Support world SDK, Onvif, G B28181 access, support G AT1400
- Standard with the windshield wiper function
- Horizontal 360° continuous rotation, vertical rotation angle-21°~90°
- IP66, TVS 4000V, lightning protection, surge prevention, surge wave prevention
- Maximum power is 58W
- Operating temperature is -40°C ~70°C
- Power supply adaptability DC36V ± 25%

## technical specifications:

camera	
imaging sensor	A 1 / 1.8-inch 8-megapixel super-star sensor
pixel	4 million / 8 million dual mode
Resolution switching	Support 4 million / 8 million dual mode, the switch needs to restart
Main code stream resolution and frame rate	4 Million mode P system: 25 fps (2560x1440,2304x1296,1920x1080,1280x720) N system: 25 fps (2560x1440,2304x1296,1920x1080,1280x720) The 8 million model P system: 25 fps (3840x2160,3072x1728,2560x1440,2304x1296,1920x1080,1280x720) N system: 30 fps (3840x2160,3072x1728,2560x1440,2304x1296,1920x1080,1280x720)
Substream resolution and frame rate	P system: 25 fps (704x576,704x288,352x288,640x360) N system: 30 fps (704x480,704x240,352x240,640x360)
Three-code flow resolution and frame rate	P system: 25 fps (1920x1080,1280x720,704x576,704x288,352x288,640x480) N system: 30 fps (1920x1080,1280x720,704x480,704x240,352x240,640x480)
Main code stream default code rate	4 million mode, 4M; 8 million mode, 6M
The lens focal length	4 million mode: 5.7-359mm; 8 million mode: 5.7-250mm
Double	4 million mode: 63X; 8 million mode: 44X
The lens doubles in speed	4 million mode: about 7 seconds (wide Angle-Wangfar); 8 million mode: about 5 seconds (wide Angle-Wangfar)
Horizontal field of view angle	4 million mode: 60°~1.54°; 8 million mode: 60°~2.31°
The lens is close to the camera	1000-3000mm (wide Angle-far)
lens aperture	F1.6 ~ F 5.0
minimal illumination	Color: 0.002 Lux @ (F1.6, AGC ON); Black and white: 0.001 Lux @ (F1.6, AGC ON)
electronic shutter	1/1s ~ 1/100000s
Color turned black	Adaptive / color / black / white / timing, default adaptive
White balance mode	Automatic / semi-automatic / manual / sunny / natural light / warm light / fluorescent light / incandescent light / locked white balance, default automatic
Exposure mode	Automatic / manual / aperture priority / shutter priority, default automatic
Image adjustment	Image brightness, contrast, saturation, and color are adjustable
Picture superposition	Support 200200 size BMP 24 bit image superposition, optional area
Privacy block	Dynamic, 24-block, multi-color Mosaic is available
area-of-interest	The ROI supports 7 rectangular 3D fixed key areas for each of the main and secondary code streams, and supports 1 rectangular dynamic tracking ROI
OSD character	Support 16 * 16 / 24 * 24 / 32 * 32 / 48 * 48 / 64 * 64 / 96 * 96 adaptive scale superposition Support 14 formats time, date, week superposition

	Supports additional character superposition of 5 regions (maximum 127 characters or 42 Chinese), 5 lines for each area Vector, lattice library type optional, default vector White / black / red / blue / green, optional color, default white
image processing	Support strong light suppression, fog transmission, 3D noise reduction, backlight compensation, mechanical wide dynamic, anti-shaking; Wide dynamic and anti-shake are only supported and mutually exclusive in monitoring mode;
<b>major function</b>	
Resource model	Monitoring mode, intelligent monitoring, and face capture
Intelligent analysis	Including tripping line, double mixing line, perimeter, items left, items lost, wandering, parking, running, heat map, crowd gathering, number of statistics, value post detection, safety helmet detection, license plate detection, smoke detection
Face capture	Support face person binding The capture rate is not less than 98%, the minimum pixel and the maximum pixel of the detection face can be set, and the detection area can be set Through the preset bit cruise to achieve multi-area capture
warn	Built-in speaker, can realize propaganda and voice warning; system voice 10, custom voice 25; Built-in red, blue and white warning light, can achieve linkage warning; Built-in warning laser, can link laser warning and support manual on / off
windshield wiper	support
follow the tracks of	Manual tracking, panoramic tracking, behavior analysis and alarm linkage tracking
The guard position	Warden linkage preset position, scan, cruise, mode path
timed task	Preset point / mode path / cruise scan / automatic scan and other functions
Reflug function	support
Refers to the north function	support
report form statistics	Face statistics, heat map statistics
Abnormal alarm	Audio exception detection, video loss alarm, screen virtual focus, scene change, IP address conflict, full storage capacity, storage read and write error, MAC address conflict, FTP server exception
<b>mechanical behavior</b>	
Manual speed	Horizontal: 0.1°~200° / s (stepless variable speed); vertical 0.1°~120° / s (stepless variable speed)
Preset bit maximum speed	Level: 240° / s; level: 180° / s;
Preposition accuracy	±0.1°
Horizontal rotation Angle	And 360° for continuous rotation
Vertical rotation Angle	-21° -90° (default-13°)
Focus length and speed automatic matching function	The control speed is automatically adjusted according to the length of the focal length
presetting bit	500
Automatic cruise track	16, each can add 32 preset points

Automatically scan the path	Article 8
Pattern path	8, learn 600 second paths or 1000 instructions
<b>Interface performance</b>	
network interface	110M / 100M Adaptive Ethernet RJ 45 interface
API	Onvif 、GB/T28181、GA/T1400、R TSP
The RS485 control interface	The semi-duplex mode supports the adaptive TD, PELCO-P and PELCO-D (additive) protocols
Alarm input / output	8 alarm input; 2 alarm output; support alarm linkage PTZ / TF card recording / trigger switch output / laser / white light / voice
Audio input / output	1 audio input, audio peak: 2-2.4V [p-p], input impedance: 1 K $\Omega$ $\pm$ 10%; 1 audio output, linear level, impedance: 600 $\Omega$
Local storage function	Built-in TF card slot, the maximum support of 512G
Analog video port	1 BNC header (commissioning for use)
Reset interface	Support hard reset
<b>Coding mode</b>	
Video compression standard	S+265、H.265、H.264 (High profile, Main profile, Baseline), the default H.265
Audio compression algorithm	G.711A/G.711U / ADPCM _ D / AAC _ LC, default G.711A
Audio sampling rate	8 kHz / 32 kHz / 48 kHz, default 8 kHz
Video compression code rate	32K ~ 16Mbps
Video transmission mode	Three yards flow
<b>Complementary light function</b>	
Laser distance	500m
laser wave length	850nm
Infrared distance	300m
Infrared wavelength	850nm
Infrared Angle	Varifold match, far / medium / near
Infrared light brightness	Brightness adjustable
White light distance	30m
<b>Other functions</b>	
browser	IE8、IE9、IE10、IE11, Chrome8+,Firefox3.5+、Edge、Safari
language	Support both in Chinese and English
networking protocol	HTTP、TCP/IP、HTTPS、DHCP、DNS、DDNS、Easy DDNS、NTP、UpnP 、802.1X、QoS、IPv6、UDP、PPPOE、SNMP
IP address	Support static, dynamic IP address, MTU customization, network card customization
user permission	Support 32 users, divided into 4 levels: administrator, browse, browse + control, browse + control + Settings
Black and white list	Each supported 48
telemangement	Remote network upgrade

General specification	
levels of protection	IP66, TVS 6000V lightning protection, surge prevention, prevention of sudden waves
working temperature	-40°C ~ 70°C
Working humidity	0~95% (no condensation)
Store temperature and humidity	-40°C ~70°C; 0~95% (no condensation)
weight	Gross weight: 17.15kg, net weight: 12.75kg
product size	Φ308*506mm
source	DC36V ±25%
power	58W MAX

## product size:

