4MP Starlight 42X Optical

IP67 PTZ IP Camera



Key Features

- 42X 4MP 1/1.8" Starlight Progressive Scan CMOS
- Remotely reset the system and upgrade firmware through the network
- Support 12VDC power adapter
- Worm gear and worm drive, with self-locking function
- Protection grade: IP67



Wide range of rotation, high speed
Pan Range:360° Continuous
Tilt Range:-90~90°
Speed(H/V):30°/S



Precision parts for longer life

- Worm gear precision machining
 With self-locking function
- High reliability and long service life



Remote cleaning window, clear image

- Support for configuring water tanks and nozzles
 Support for calling special presets, background control
- Water shortage alarm function



Wide working temperature, Smart defogging

- Built-in temperature control chip, silicone heater
- High temperature:60°C±2°C,Low temperature:-40°C±2°C
- Built-in Smart defrost and defogging parts



Built-in antenna, stainless steel handle

- Built-in 4G/wifi antenna to prevent transportation and construction damage
- Equipped with stainless steel handle, easy to transport and install



Waterproof and breathable, pressure balanced

- 2 waterproof breathable valves built into the shield
- Balanced pressure and better sealing performance

Product Highlight

- High reliability, protection grade IP67;
- Remotely reset the system and upgrade firmware through the network;
- Support GPS/Beidou, dual-mode positioning and time calibration (optional);
- Worm gear and worm drive, with self-locking function



Technical parameters

| Model | SVN-42PTX900D-V2 | |
|----------------------|---|--|
| Camera | | |
| Sensor | 1/1.8" Starlight Progressive Scan CMOS | |
| Total pixels | 4.0MP | |
| Minimum illumination | Color:0.0005 Lux @ (F1.8, AGC ON); B/W:0.0001Lux @ (F1.8, AGC ON) | |

| AperturePIRISDay/Night SwitchICR cut filterDigital zoomIcKLensF-6.1*256m, 42x optical zoomLens apertureF-1.35*6.4, automatic / manualHorizontal Field of View61.28-2.06* (wide-tele)Minimu Working Distance100mm (wide-tele)Zoom SpeedApproximately 4.5s(optical, wide-tele)Compression StandartWide Science (Wide-tele)Video CompressionH.265 / H.264H.265 TypeBaseline Profile / Main Profile / High ProfileH.265 TypeBaseline Profile / Main Profile / High ProfileH.265 TypeBaseline Profile / Main Profile / High ProfileH.265 TypeBaseline Science (Wide-Tele)Maino Stirate22 Kbps-16KbpsAudio CompressionG.711a/G.711/G.72.21/G.725/MP212/AAC/PCMAudio Bitrate50Hz: 255p (2688*1520, 1920*1080, 1280*960, 1280*720)BaseSaturation, Brightness, Contrast and Sharpness can be adjusted via the citerit-side or browseBICSupportBurgeSupportExposure ModeAt/ Aperture Priority / Shutter Priority / Manual ExposureForus ModeAuto matic, manual, timing, alarm triggerBynynight SwitchAutomatic, manual, timing, alarm triggerBynynight SatellSupportDaynight SatellSupportDaynight SatellSupport SitellBynynight SatellSupport SitellBynynight SatellSupport SitellBynynight SatellSupport SitellBynynight SatellSupport SitellDaynight SatellSup | Shutter | 1/25s to 1/100,000s; Support delayed shutter | | |
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| Image SettingsSaturation, Brightness, Contrast and Sharpness can be adjusted via the client-side or browseBLCSupportExposure ModeAE / Aperture Priority / Shutter Priority / Manual ExposureFocus ModeAuto Focus / One Focus / Manual Focus / Semi-Auto FocusArea Exposure / FocusSupportDefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H)0.1~25°/SPositioning accuracy0.15°3D functionSupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | | 60Hz: 30fps (2688*1520, 1920*1080, 1280*960, 1280*720) | | |
| Interfactclient-side or browseBLCSupportExposure ModeAE / Aperture Priority / Shutter Priority / Manual ExposureFocus ModeAuto Focus / One Focus / Manual Focus / Semi-Auto FocusArea Exposure / FocusSupportDefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport three streams and four fixed areasPrzPan Range360° ContinuousSpeed (H)0.1~25°/SPositioning accuracy0.15°Positioning accuracy0.15°Automatic ruiseSupport, focal length matching with PTZ speed, 8 cruise scansAutomatic ruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/Off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Third Stream | 50Hz: 25fps (704 x 576); 60Hz: 30fps (704 x 576) | | |
| BLCSupportExposure ModeAE / Aperture Priority / Shutter Priority / Manual ExposureFocus ModeAuto Focus / One Focus / Manual Focus / Semi-Auto FocusArea Exposure / FocusSupportDefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120d8Picture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZParPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionSupport, but functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport real-time angle return or query angle return function | Image Settings | Saturation, Brightness, Contrast and Sharpness can be adjusted via the | | |
| Exposure ModeAE / Aperture Priority / Shutter Priority / Manual ExposureFocus ModeAuto Focus / One Focus / Manual Focus / Semi-Auto FocusArea Exposure / FocusSupportDefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZParPan Range360° ContinuousSpeed (H)0.1~25'/STilt Range-90~90°Speed (V)0.1~25'/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECL0+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | | client-side or browse | | |
| Focus ModeAuto Focus / One Focus / Manual Focus / Semi-Auto FocusArea Exposure / FocusSupportDefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return function | BLC | Support | | |
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| DefogSupportImage StabilizationSupportDay/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZPan RangeSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Focus Mode | Auto Focus / One Focus / Manual Focus / Semi-Auto Focus | | |
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| Day/Night SwitchAutomatic, manual, timing, alarm trigger3D Noise ReductionSupportWDR120dBPicture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | Defog | Support | | |
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| WDR120dBPicture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | Day/Night Switch | Automatic, manual, timing, alarm trigger | | |
| Picture Overlay SwitchSupport BMP 24-bit image overlay, customizable areaRegion of InterestSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H) $0.1 \sim 25°/S$ Tilt Range-90~90°Speed (V) $0.1 \sim 25°/S$ Positioning accuracy $0.15°$ 3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | 3D Noise Reduction | Support | | |
| Region of InterestSupport three streams and four fixed areasPTZPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | WDR | 120dB | | |
| PTZPan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | Picture Overlay Switch | Support BMP 24-bit image overlay, customizable area | | |
| Pan Range360° ContinuousSpeed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | Region of Interest | Support three streams and four fixed areas | | |
| Speed (H)0.1~25°/STilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | PTZ | | | |
| Tilt Range-90~90°Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupportAngle controlSupport | Pan Range | 360° Continuous | | |
| Speed (V)0.1~25°/SPositioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Speed (H) | 0.1~25°/S | | |
| Positioning accuracy0.15°3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Tilt Range | -90~90° | | |
| 3D functionsupports the functions of picture frame enlargement, target locking and field centerInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Speed (V) | 0.1~25°/S | | |
| 3D functioncenterInformation displayTime OSDAutomatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Positioning accuracy | 0.15° | | |
| Automatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | 3D function | | | |
| Automatic cruiseSupport, focal length matching with PTZ speed, 8 cruise scansWatch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Information display | Time OSD | | |
| Watch functionOn/off, automatically call the preset point after staying in the idle state for a specified timeRemote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | | Support, focal length matching with PTZ speed, 8 cruise scans | | |
| Remote upgradeSupport remote upgrade of movement and gimbal at the same timecommunication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Watch function | On/off, automatically call the preset point after staying in the idle state for a | | |
| communication protocolPECLO+VISCAReal-time angle returnSupport real-time angle return or query angle return functionAngle controlSupport | Remote upgrade | | | |
| Real-time angle return Support real-time angle return or query angle return function Angle control Support | | | | |
| Angle control Support | - | | | |
| | | | | |
| רובאבר אטווונג / כרמואב בי אוועטרג באט אווטרוג | Preset points \ cruise | Support 255 preset positions | | |

| storage | Support up to 256g microSD / SDHC / SDXC memory card | |
|----------------------------|---|--|
| Network | | |
| Protocols | TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,NTP,SMTP,SNMP,IPv6 | |
| Interface Protocol | ONVIF(PROFILE S, PROFILE G) | |
| Intelligent Calculation | 0.8T | |
| PTZ Interface | | |
| Communication Interface | 1 channel adaptive RJ45 Ethernet port | |
| RS485 controller interface | Support adaptive Pelco-P, Pelco-D and other protocols, baud rate 2400, 4800, 9600, 19200 optional | |
| External input | 1 channel alarm input | |
| Output port | 1 channel alarm output / 1 channel relay output | |
| Auxiliary function | | |
| Smart wiper | Manual control, speed gear is optional | |
| Fan/heating | Real-time temperature detection, pure physical detection | |
| Waterproof respirator | Built-in 2 waterproof respirators to reduce fog and condensation | |
| GPS positioning | GPS/Beidou, dual-mode positioning and time adjustment (optional) | |
| General | | |
| Power Supply | DC12V/3.0A | |
| Working Environment | -40°C~60°C,0~95%(no condensation) | |
| Protection level | IP67, built-in 4000V lightning protection, anti-surge and anti-surge protection | |
| Installation method | Column, wall, corner | |
| Entry cable | Side outlet | |
| Dimension | L342.0mm×W205.0mm×H290.0mm | |
| Product weight | 8kg | |
| Bearing weight | ≤3kg (Including module protective cover) | |
| Bearer mode | Side load | |







