

DS-2SR7C432IWG-B/R16/14

Smart Radar integrated with Box Camera



- - Hikvision's smart radar-camera combo, featuring radar data and video integration, ensures comprehensive detail coverage.
- - Both panoramic and detail lenses use back-illuminated sensors, significantly improving image quality compared to traditional front-illuminated sensors in cameras by increasing light intake.
- - Panoramic mode supports perimeter radar with an effective radar perimeter range of 60m, and achieves more accurate perimeters under adverse weather and low-light conditions.
- - Suitable for various perimeter applications, including roads, residential areas, industrial parks, airports, and hazardous water areas.
- - Supports radar interface for target display, capable of showing up to 30 targets simultaneously.
- - Offers dual-channel zone intrusion detection, line-crossing detection, enter-region detection, and exit-region detection for intelligent surveillance, with tracking.
- - Equipped with a built-in heater glass for efficient fog removal.
- - Both detail and panoramic views support maximum 2560 x 1440@30fps high-definition video output.
- - Features an efficient array of supplementary lighting, with the detail camera's infrared illumination reaching up to 150m, white light reaching 30m, and the panoramic illumination reaching up to 30m.
- - Supports 32x optical zoom and 16x digital zoom.
- - Offers ultra-low-light performance, with [Panorama] color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light; [Detail] color: 0.005 Lux @ (F1.6, AGC ON), monochrome: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR.
- - Compatible with Hikvision SDK, open network video interface, ISAPI, GB/T28181, ISUP, and EZVIZ protocols.
- - IP66 rated, robust against interference, suitable for severe electromagnetic environments, complies with GB/T17626.2/3/4/5/6 Level IV standards.
- - Supports dual-input single-output alarms, a single-input single-output audio interface, and microSD card storage of up to 512GB.



Specifications

Radar	
Detection Range	60 m
Horizontal Angle	60°
Maximum Number of Detectable Targets	30
Radar Perimeter Intelligence	Supported
Basic Parameters	
Sensor Type	【Panoramic】1/1.8" progressive scan CMOS, 【Details】1/2.8" progressive scan CMOS
Shutter	1 s~1/30,000 s
Minimum Illumination	【Panoramic】 Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light; 【Details】 Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux @ (F1.5, AGC ON), 0 Lux with IR
Slow Shutter	Supported
Focusing Mode	Semi-automatic/manual/auto
Day/Night Mode	Automatic ICR color to B/W
Day/Night Switching Method	Day, Night, Auto, Timer switching
Backlight Compensation	Supported
Wide Dynamic Range	Supported true Wide Dynamic Range (WDR)
Strong Light Suppression	Supported
3D Noise Reduction	Supported
Through-the-Fog	Supported
Electronic Image Stabilization	Supported
Regional Exposure	Supported
Regional Focus	Supported
Image Settings	Support for Saturation, Brightness, Contrast, Sharpness
Image Parameter Switching	【Panoramic】 Supported; 【Details】 Supported
White Balance	Auto White Balance (AWB), Auto Tracking White Balance (ATWB), Sodium, Fluorescent, Indoor, Outdoor, Manual White Balance, Lock White Balance
Digital Zoom	16x
Optical Zoom	32x
Privacy Masking	Supports mosaic, supports multiple color settings, 【Panoramic】 8 zones, 【Details】 24 zones
Signal-to-Noise Ratio	> 52dB
General Functions	Image, password protection, watermark technology, IP address filtering
Lens	
Focal Length	【Panorama】 "4mm; 【Detail】 5.9mm ~ 188.8mm, 32x optical zoom
Optical Zoom Speed	【Detail】 Approximately 5.6s
Field of View	【Panorama】 Horizontal Field of View: 88.7, Vertical Field of View: 44.7 【Detail】 Horizontal Field of View: 60.2°~2.3° Diagonal Field of View: 67.4°~2.6° Diagonal Field of View: 67.4° ~ 2.6°
Maximum Aperture Number	【Panorama】 F1.0; 【Detail】 F1.5
Supplemental Lighting	
Lighting Distance	【Panorama】 30m White Light 【Details】 30m White Light, 150m Infrared
Pan/Tilt	
Pan Range	360°
Tilt Range	-15°-90° (auto flip)
Pan Speed	Pan control speed: 0.1°-160°, adjustable speed; preset speed for horizontal: 240°/s
Tilt Speed	Tilt control speed: 0.1°-120°/s, adjustable speed; preset speed for vertical: 200°/s

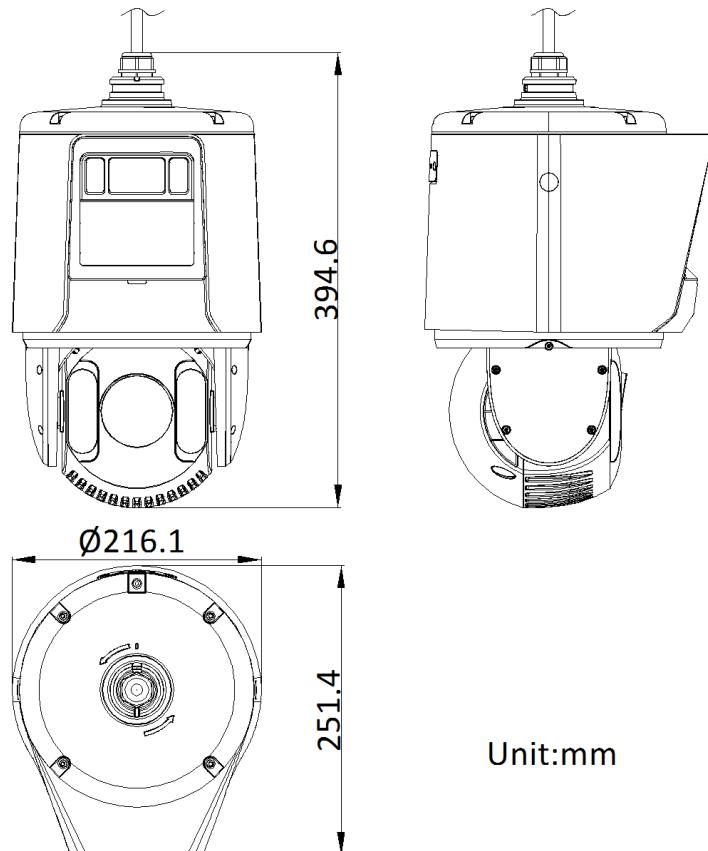
Proportional Zoom	Support
Number of Preset Positions	300
Patrol Scanning	8 routes, each can add 32 preset points
Preset Scanning	4 routes
Power-On Memory	Support
Watchdog Function	Preset / Pattern Scan / Tour Scan / Auto Scan / Vertical Scan / Random Scan / Frame Scan / Panorama Scan
3D Positioning	Support
Preset Video Freeze	Support
Scheduled Tasks	PTZ calibration, preset, pattern scan, tour scan, auto scan, vertical scan, random scan, frame scan, panorama scan, PTZ restart, auxiliary output, power off
Video	
Maximum Image Size	【Panorama】 2560×1440 , 【Details】 2560×1440
Type of Stream	Main stream, Sub-stream, Third stream
Main Frame Rate and Resolution	<p>【Panorama】</p> <p>50 Hz : 25 fps (2560×1440 , 1920×1080 , 1280×960 , 1280×720)</p> <p>60 Hz : 30 fps (2560×1440 , 1920×1080 , 1280×960 , 1280×720)</p> <p>【Details】</p> <p>50 Hz : 25 fps (2560×1440 , 1920×1080 , 1280×960 , 1280×720)</p> <p>60 Hz : 30 fps (2560×1440 , 1920×1080 , 1280×960 , 1280×720)</p>
Sub-stream Frame Rate and Resolution	<p>【Panorama】</p> <p>50 Hz : 25 fps (704×576 , 640×480 , 352×288)</p> <p>60 Hz : 30 fps (704×480 , 640×480 , 352×240)</p> <p>【Details】</p> <p>50 Hz : 25 fps (704×576 , 640×480 , 352×288)</p> <p>60 Hz : 30 fps (704×480 , 640×480 , 352×240)</p>
Third Stream Frame Rate and Resolution	<p>【Panorama】</p> <p>50 Hz : 25 fps (1920×1080 , 1280×960 , 1280×720 , 704×576 , 640×480 , 352×288)</p> <p>60 Hz : 30 fps (1920×1080 , 1280×960 , 1280×720 , 704×480 , 640×480 , 352×240)</p> <p>【Details】</p> <p>50 Hz : 25 fps (1920×1080 , 1280×960 , 1280×720 , 704×576 , 640×480 , 352×288)</p> <p>60 Hz : 30 fps (1920×1080 , 1280×960 , 1280×720 , 704×480 , 640×480 , 352×240)</p>
Video Compression Standards	H.265,H.264,MJPEG
Video Compression Bitrate	32 kbps~16384 kbps
H.264	Baseline Profile, Main Profile, High Profile
H.265	Main Profile
Smart 264	Supported
Smart 265	Supported
SVC	Supported
ROI	The main code stream, sub-code stream, and the third code stream support 8 ROI areas.
Audio	
Audio Compression Standards	G.711alaw,G.711ulaw,G.722.1,G.726,MP2L2,AAC-LC,PCM,MP3
Audio Compression Bitrate	MP2L2 :32 kbps ,40 kbps ,48 kbps ,56 kbps ,64 kbps ,80 kbps ,96 kbps ,112 kbps ,128 kbps ,144 kbps ,160 kbps ,192 kbps ,224 kbps ,256 kbps ,320 kbps ; AAC-LC :16 kbps ,32 kbps ,64 kbps ; MP3 :8 kbps,16 kbps ,24 kbps ,32 kbps ,40 kbps ,48 kbps ,56 kbps ,64 kbps ,80 kbps ,96 kbps ,112 kbps ,128 kbps ,144 kbps ,160 kbps ,192 kbps ,224 kbps ,256 kbps ,320 kbps ;
Audio Sampling Rate	AAC-LC :16kHz ,32kHz ,48kHz ;MP2L2 :16kHz ,32kHz ,48kHz ;MP3 :8kHz ,16kHz ,32kHz ,48kHz ; PCM :8kHz ,16kHz ,32kHz ,48kHz
Environmental Noise Filtering	Supported

Intelligence	
Face Capture	Supports detection and snapshot of different targets, with a maximum of 5 targets detected simultaneously. Supports rapid snapshot mode and optimal snapshot mode.
Routine Events	Motion detection, tamper alarm, alarm input, alarm output, abnormal device detection.
Smart Events	Region intrusion detection, line crossing detection, entering region detection, leaving region detection, audio anomaly detection.
Smart Tracking	Manual tracking, panoramic tracking, event tracking, takeover tracking.
Smart Recording	Network disconnection resume transmission, smart post-search.
Alarm Linkage	Linked tracking, preset points, patrol scanning, pattern scanning, SD card recording, alarm output, email, upload center, FTP upload.
Network	
Network Storage	NAS (NFS, SMB/ CIFS), ANR
Supported Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, WebSocket, WebSockets
Interface Protocols	Software integration Open API, open network video interface, ISAPI, Hikvision SDK, third-party management platform access, GB/T28181 protocol, supports video library, supports EZVIZ access, ISUP
Maximum Stream Channels	20 channels
User Management	32
Security Management	Authorized usernames and passwords, as well as MAC address binding, HTTPS encryption, IEEE 802.1x network access control, IP address filtering
Client	Supports iVMS-4200 client
Browser Compatibility	IE11+, Chrome57+, Firefox52+, Safari12+, Edge79.0.309.65+
Interfaces	
Network Interface	RJ45 network port, auto-adaptive 10M/100M network data
SD Card Expansion	Built-in Micro SD card slot, supports Micro SD/Micro SDHC/Micro SDXC cards (up to 512GB supported)
Alarm Input	2 alarm input channels
Audio Input	1 audio input channel, audio peak: 2-2.4V[p-p], input impedance: 1 kΩ±10%
General Specifications	
Environmental Use Guidelines	<ol style="list-style-type: none"> Do not use the equipment in environments with vibration or impact, such as in vehicles, trains, ships, port cranes, large mining machinery, etc.; Do not use the equipment in environments with strong corrosion, strong acid, or high alkalinity, such as on offshore islands, offshore platforms, marine vessels, chemical plants, fumigation areas, or within 5 kilometers of the coast in special corrosive environments; Do not apply the equipment in environments with strong electromagnetic interference, such as the main transmission direction of broadcast tower antennas, switch-on areas of substations, the vicinity of power grid transmission lines, overhead contact lines of tracks, radars, medical magnetic resonance imaging, or near the antennas of 4G/5G/FM base stations in high-frequency radiation environments with strong electromagnetic interference; Do not use the equipment in environments with extreme heat, extreme cold, heavy dust, or long-term high humidity. Refer to the temperature and humidity requirements for operation.
Power Supply	DC36 V ± 25%, Max. power consumption 35 W
Operating Temperature and Humidity	-30°C-65°C; Humidity less than 90%
Factory Settings Restore	Support
Defogging	Heated glass defogging
Materials	ADC12, PC, PC+10%GF
Dimensions	Ø220 × 382.1 mm
Weight	6 kg
Certifications	
Protection	IP66; strong interference resistance, suitable for harsh electromagnetic environments, meets GB/T17626.2/3/4/5/6 level 4 standards

▪ Model

DS-2SR7C432IWG-B/R16/14

▪ Dimension



▪ Accessory

▪ Recommended Purchasing

DS-1602ZJ DS-1602ZJ	DS-1602ZJ-corner DS-1602ZJ-corner	DS-1602ZJ-pole DS-1602ZJ-pole	DS-1661ZJ DS-1661ZJ	DS-2681ZJ Omnidirectional joint for PTZ dome camera
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DS-1681ZJ-2 Dome camera audio-visual warning ceiling mount bracket	DS-1618ZJ-R/B Dome camera audio-visual warning wall mount bracket	DS-1661ZJ-R/B Dome camera audio-visual warning pole mounting with hoop		
				