



# DH-PSDW81642M-A360-D440-S3

16 MP Multi-Sensor 360° Panoramic PTZ Hubble WizMind Network Camera



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals

#### **Series Overview**

The Panoramic Network Camera + PTZ Camera can splice up to a 360° horizontal view to give you a wider view. Working with high-speed PTZ, the camera can display the details. With advanced video analysis algorithm, the camera supports linkage between panorama and details, and situation analysis.

## **Functions**

## **Panoramic Splicing**

With advanced splicing algorithm, Dahua Panoramic Splicing technology deletes overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image can be up to 360°, which largely improves surveillance efficiency and user experience. Generally, after splicing, the field of view of eight-sensor camera can be 360°.

## **Smart Tracking**

With advanced algorithm, Dahua network camera can detect targets, track targets with speed dome, and view details.

#### **Perimeter Protection**

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire and intrusion) are largely reduced.

#### **Crowd Density**

With deep learning algorithm, Dahua Crowd Density technology can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

- Channel 1 (Panoramic): 8 × 2 MP 1/1.8" CMOS image sensors. Field of View:Horizontal: 1 × 360°, Vertical: 103°.
- Channel 2 (PTZ): 1 × 4 MP 1/1.8" CMOS image sensors.
- Channel 2 (PTZ): 40x optical zoom, 16x digital zoom.
- · Channel 2 (PTZ): Illumination distance up to 400 m.
- Channel 1 (Panoramic): Three switchable intelligent resources: Perimeter protection, Crowd map, Vehicle density.
- · Channel 2 (PTZ): Three switchable intelligent resources: Perimeter protection, Video metadata, Face recognition.
- AR panorama technology; various AR tags can be overlaid.
- · Smart tracking. GPS/BDS positioning.
- · Smart H265+/H264+ encoding.
- WDR, 3D NR, HLC, BLC, applicable to various monitoring scenes.
- · Alarm: 7 in, 3 out; audio: 2 in, 2 out; 1 channel BNC, 1 channel RS-485 (baud rate can be set). supports max. 512 G SD card.

























#### Vehicle Density

With deep learning algorithm, Dahua Vehicle Density technology analyses the vehicle situation in the image, such as vehicle number in selected area. You can set threshold, and when the number is larger or smaller than the threshold, it triggers linkage.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

#### Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

#### **AR Panorama**

Dahua AR panorama technology generates wide-field of view through panoramic merging and splicing. The software overlaps the cameras as tags in the image. Click the tag to display the corresponding camera video, which makes monitoring visual and convenient, and improves command efficiency.

## Region of Interest (ROI)

Dahua Regions Of Interest (ROI) technology allows you to select the monitoring area of interest to improve image effect in the selected area.

## **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

## Scene

Applicable to various industries such as traffic, culture, education, health, public security and more

Channel 1 (Panoramic): 1/1.8" 2 Megapixel progressive

# **Technical Specification**

#### Camera

Image Sensor	CMOS Channel 2 (PTZ): 1/1.8" 4 Megapixel progressive CMOS
Pixel	Channel 1 (Panoramic) : 16 MP Channel 2 (PTZ): 4 MP
Max. Resolution	Channel 1 (Panoramic): 8192 (H) × 1800 (V) Channel 2 (PTZ): 2560 (H) × 1440 (V)
ROM	Channel 1 (Panoramic): 8 GB Channel 2 (PTZ): 8 GB
RAM	Channel 1 (Panoramic): 4 GB Channel 2 (PTZ): 2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	Channel 1 (Panoramic): 0.0005 lux@F1.0 (Color,30 IRE) 0.0001 lux@F1.0 (B/W,30 IRE) Channel 2 (PTZ): 0.001 lux@F1.4 (Color,30 IRE) 0.0005 lux @F1.4(B/W,30 IRE); 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Channel 1 (Panoramic): No Channel 2 (PTZ): Up to 400 m (1312.34 ft)
Illuminator On/Off Control	Auto; Manual; Zoomprio
Illuminator Number	Channel 1 (Panoramic): No Channel 2 (PTZ): 7 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0° to 360° Tilt:-11° to 90°
Built-in Battery	Channel 1 (Panoramic): Horizontal welding/lithium battery/3 V Channel 2 (PTZ): Horizontal welding/lithium battery/3 V
Lens	
Lens Type	Channel 1 (Panoramic) : Fixed-focal Channel 2 (PTZ): Vari-focal
Lens Mount	Channel 1 (Panoramic) : M16 Channel 2 (PTZ): Module
Focal Length	Channel 1 (Panoramic) : 2.8 mm Channel 2 (PTZ): 5.5 mm—220 mm
Max. Aperture	Channel 1 (Panoramic) : F1.0 Channel 2 (PTZ): F1.4
Field of View	Channel 1 (Panoramic): H: 360° V: 103° Channel 2 (PTZ): H: 2.2°-61.8° V: 1.3°-36.3° D: 2.4°-69.2°

Iris Control		Channel 1 (Panoramic): No Channel 2 (PTZ): P-iris			
Close Focus Distance		Channel 1 (Panoramic): 1.4 m (4.59 ft) Channel 2 (PTZ): 0.5 m-2 m (1.64 ft-6.56 ft) (T to W)			
	Lens	Detect	Observe	Recognize	Identify
	Channel 1 (Panoramic)	57.9 m (189.96 ft)	23.2 m (76.11 ft)	11.6 m (38.06 ft)	5.8 m (19.03 ft)
DORI Distance	Channel 2 (PTZ)	3030 m (9940.94 ft)	1204 m (3950.13 ft)	606 m (1988.19 ft)	303 m (994.10 ft)
2.starrec	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this				

#### **Smart Event**

1) (6	Channel 1 (Panoramic): Yes	
IVS	Channel 2 (PT7): Yes	

table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design

## Intelligence

Intelligence	
Intelligence Description	Channel 1 (Panoramic): Perimeter protection, crowd map, vehicle density. Channel 2 (PTZ): Perimeter protection, video metadata, face recognition
IVS (Perimeter Protection)	Channel 1 (Panoramic): Tripwire; intrusion; parking detection Channel 2 (PTZ):Tripwire; intrusion; parking detection; crossing virtual fence, fast moving, abandoned object, missing object, crowd gathering, loitering detection
Face Recognition	Channel 1 (Panoramic): No Channel 2 (PTZ): Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot) Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 10,000 face pictures
Vehicle Density	Channel 1 (Panoramic): Vehicle density; parking upper limit; traffic congestion alarm Channel 2 (PTZ): No
Crowd Distribution Map	Channel 1 (Panoramic):Crowd map, global crowd density; crowd density in area; people counting in area; Channel 2 (PTZ): No
Video Metadata	Channel 1 (Panoramic): No Channel 2 (PTZ): Motor vehicle, non-motor vehicle, face, and human body detection; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: License plate, plate color, vehicle type, vehicle color, vehicle logo, vehicle model/ year, sun visor, seatbelt., smoking, calling, ornament, and annual inspection sticker. Non-motor vehicle attributes: Type, vehicle color, number of people, top type and color, and hat. Human body attributes: Top and bottom type and color, bag, hat, gender, and umbrella. Face attributes: Gender, age, expressions, glasses, face mask, and bread
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

Wideo Compression	Video	
Smart Codec         Smart H.265+           Channel 1 (Panoramic):	Video Compression	
Wideo Frame Rate         Main stream: 2092 x 1800 @(1−25/30 fps) sub stream: 2048 x 452 @ (1−25/30 fps) third stream: 3840 x 832 @ (1−25/30 fps) channel 2 (PTZ): mxin stream: 2560x1440@ (1−25/30 fps) sub stream: 704x576@ (1−25/30 fps) sub stream: 704x576@ (1−25/30 fps) sub stream: 704x576@ (1−25/30 fps)           Stream Capability         3 streams           Channel 1 (Panoramic): Main stream: 8192 x 1800; 7680 x 1680; 5760 x 1264; 4096 x 900 sub stream: 2560 x 1440; 1920 x 1080; 1280 x 960; 1280 x 720 sub stream: 7560 x 1440; 1920 x 1080; 1280 x 960; 1280 x 720 sub stream: 7204 x 576; 640 x 480; 352 x 288 third stream: 1920 x 1080; 1280 x 960; 1280 x 720           Bit Rate Control         CBR/VBR           Video Bit Rate         Channel 1 (Panoramic): H 264: 96 kb/s−32768 kb/s Channel 2 (PTZ): H,264: 32 kb/s−15872 kb/s L,265: 12	Smart Codec	
Channel 1 (Panoramic):   Main stream: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4096 × 900     sub stream: 2048 × 452     third stream: 2560 × 1440; 1920 × 1080; 1280 × 960; 1280 × 720     sub stream: 704 × 576; 640 × 480; 352 × 288     third stream: 1920 × 1080; 1280 × 960; 1280 × 720     sub stream: 704 × 576; 640 × 480; 352 × 288     third stream: 1920 × 1080; 1280 × 960; 1280 × 720     Bit Rate Control   CBR/VBR	Video Frame Rate	Main stream: 8192 × 1800 @(1–25/30 fps) sub stream: 2048 × 452 @ (1–25/30 fps) third stream: 3840 × 832 @ (1–25/30 fps) Channel 2 (PTZ): Main stream: 2560×1440@ (1–25/30 fps) sub stream: 704×576@ (1–25/30 fps)
Main stream: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4096 × 900   sub stream: 2048 × 452   third stream: 3840 × 332; 2560 × 560   Channel 2 (PTZ): Main stream: 2560 × 1440; 1920 × 1080; 1280 × 960; 1280 × 720   sub stream: 704 × 576; 640 × 480; 352 × 288   third stream: 1920 × 1080; 1280 × 960; 1280 × 720   Stream: 704 × 576; 640 × 480; 352 × 288   third stream: 1920 × 1080; 1280 × 960; 1280 × 720   Stream: 704 × 576; 640 × 480; 352 × 288   third stream: 1920 × 1080; 1280 × 960; 1280 × 720   Stream: 704 × 576; 640 × 480; 352 × 288   third stream: 1920 × 1080; 1280 × 960; 1280 × 720   Stream: 720	Stream Capability	3 streams
Channel 1 (Panoramic): H.264: 96 Kb/s-32768 Kb/s H.265: 38 Kb/s-29362 Kb/s Channel 2 (PTZ): H.264: 32 Kb/s-15872 Kb/s H.265: 12 Kb/s-9472 Kb/s H.265: 12 Kb/s-9472 Kb/s Day/Night  Channel 1 (Panoramic): No Channel 2 (PTZ): ICR  BLC  Yes  HLC  Yes  WDR  Channel 1 (Panoramic): DWDR Channel 2 (PTZ): 120 dB  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Motion Detection  OFF/ON (4 areas, rectangular)  Default Bit Rate with Default Resolution  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): No Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Resolution	Main stream: 8192 × 1800; 7680 × 1680; 5760 × 1264; 4096 × 900 sub stream: 2048 × 452 third stream: 3840 × 832; 2560 × 560 Channel 2 (PTZ): Main stream: 2560 × 1440; 1920 × 1080; 1280 × 960; 1280 × 720 sub stream: 704 × 576; 640 × 480; 352 × 288
Video Bit Rate  H.264: 96 Kb/s–32768 Kb/s H.265: 38 Kb/s–29362 Kb/s Channel 2 (PTZ): H.264: 32 Kb/s–15872 Kb/s H.265: 12 Kb/s–9472 Kb/s  Day/Night  Channel 1 (Panoramic): No Channel 2 (PTZ): ICR  BLC  Yes  HLC  Yes  WDR  Channel 1 (Panoramic): DWDR Channel 2 (PTZ): 120 dB  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Motion Detection  OFF/ON (4 areas, rectangular)  Default Bit Rate with Default Resolution  Region of Interest (Rol)  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Bit Rate Control	CBR/VBR
BLC  Yes  HLC  Yes  Channel 1 (Panoramic): DWDR Channel 2 (PTZ): 120 dB  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control  Auto; Manual  Noise Reduction  Default Bit Rate with Default Resolution  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Video Bit Rate	H.264: 96 Kb/s–32768 Kb/s H.265: 38 Kb/s–29362 Kb/s Channel 2 (PTZ): H.264: 32 Kb/s–15872 Kb/s
WDR  Channel 1 (Panoramic): DWDR Channel 2 (PTZ): 120 dB  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Auto; Manual  Noise Reduction  3D NR  Motion Detection  Default Bit Rate with Default Resolution  Region of Interest (Rol)  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Day/Night	
WDR  Channel 1 (Panoramic): DWDR Channel 2 (PTZ): 120 dB  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Auto; Manual  Noise Reduction  3D NR  Motion Detection  OFF/ON (4 areas, rectangular)  Default Bit Rate with Default Resolution  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	BLC	Yes
White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Auto; Manual  Noise Reduction  3D NR  Motion Detection  Default Bit Rate with Default Resolution  Region of Interest (RoI)  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (RoI)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	HLC	Yes
Custom  Gain Control  Auto; Manual  Noise Reduction  3D NR  Motion Detection  OFF/ON (4 areas, rectangular)  Default Bit Rate with Default Resolution  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800)  Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (Rol)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	WDR	
Noise Reduction3D NRMotion DetectionOFF/ON (4 areas, rectangular)Default Bit Rate with Default ResolutionChannel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)Region of Interest (RoI)Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)Image StabilizationChannel 1 (Panoramic): No Channel 2 (PTZ): NoDefogChannel 1 (Panoramic): No Channel 2 (PTZ): Optical defogPrivacy MaskingChannel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)Image CorrectionChannel 1 (Panoramic): No Channel 2 (PTZ): NoAudioAudio Compression	White Balance	
Motion Detection  OFF/ON (4 areas, rectangular)  Default Bit Rate with Default Resolution  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (RoI)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Gain Control	Auto; Manual
Default Bit Rate with Default Resolution  Channel 1 (Panoramic): 6144 kb/s (8192 × 1800) Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (RoI)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Noise Reduction	3D NR
Default Resolution  Channel 2 (PTZ): 6144 kb/s (2560 × 1440)  Region of Interest (RoI)  Channel 1 (Panoramic): Yes (4 areas) Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Motion Detection	OFF/ON (4 areas, rectangular)
Channel 2 (PTZ): Yes (8 areas)  Image Stabilization  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default		
Channel 2 (PTZ): No  Defog  Channel 1 (Panoramic): No Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Region of Interest (RoI)	
Channel 2 (PTZ): Optical defog  Privacy Masking  Channel 1 (Panoramic): 4 areas Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  Audio Compression  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Image Stabilization	
Channel 2 (PTZ): 24 areas (8 for each preset)  Image Correction  Channel 1 (Panoramic): No Channel 2 (PTZ): No  Audio  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Defog	,
Audio Compression  Channel 2 (PTZ): No  PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Privacy Masking	
Audio Compression PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default	Image Correction	,
	Audio	
Audio Sampling 8 kHz; 16 kHz; 32 kHz; 48 kHz; 64 kHz	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723, G.711a by default
	Audio Sampling	8 kHz; 16 kHz; 32 kHz; 48 kHz; 64 kHz

Alarm	
Alarm Event	Channel 1 (Panoramic): External alarm; No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; voltage detection; motion detection; video tampering; scene changing; audio detection; intensity change; tripwire; intrusion; parking detection; crowd density; traffic congestion; parking upper limit Channel 2 (PTZ): Tripwire; intrusion; parking detection; crossing virtual fence, fast moving, abandoned object, missing object, crowd gathering, loitering detection; face recognition; video metadata
Network	
Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P
Interoperability	ONVIF (Profile S/Profile G/ Profile T); CGI
User/Host	20 (Total bandwidth: 400 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS; SMB
Browser	IE: IE11 Chrome Firefox
Management Software	SmartPSS Lite; DSS
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –11° to 90°, auto flip 180°
Manual Control Speed	Pan: 240°/s Tilt: 100°/s
Telephoto Speed Limit	Yes
Positioning Accuracy	Pan: 0.1° Tilt: 0.1°
Positioning Accuracy Automatic Calibration	Yes
Remote Lens Reset	Yes
Remote PTZ Reset	Yes
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset; Pattern; Tour; Scan
Time Task	Yes
3D Positioning	Yes

PTZ Limit

Position Display	Yes
Information Display	Yes
Time Display	Yes
PTZ Restart	Yes
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14
Port	
RS-485	1 (baud rate range:1200 bps–115200 bps)
Audio Input	2 channels (terminal)
Audio Output	2 channels (terminal)
Alarm Input	7 channels in: 5mA 3V–5V DC
Alarm Output	3 channels out: 1,000mA 30V DC/500mA 50V AC
Analog Output	1 channel (CVBS output: BNC)
Power	
Operating Voltage	36 VDC (±50%)
Power Supply	36 VDC
Power Consumption	Basic: 59 W (36 VDC) Max. (Basic power consumption + WDR + intelligence of + IR on + PTZ operation ): 99 W (36 VDC)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +70 °C (-40°F to +158°F)
Storage Humidity	≤95%
Protection	IP67; IK10
Structure	
Casing	Metal + plastic
Product Dimensions	Ф383 mm × 462 mm (15.08" × Ф18.19")
Packaging Dimensions	500 mm × 500 mm × 658 mm (19.69" × 19.69" × 25.91" (L × W × H)
Net Weight	14.4 kg (31.75 lb)

20.3 kg (44.75 lb)

Included

Included

NA

Wall mount; ceiling mount; pole mount

Gross Weight

Power Adapter

**Power Output** 

Installation

Lens

Ordering Information		
Туре	Model	Description
16MP Camera	DH-PSDW81642M- A360-D440-S3	16 MP Multi-Sensor 360° Panoramic PTZ Hubble WizMind Network Camera
	PSDW81642M- A360-D440-S3	16 MP Multi-Sensor 360° Panoramic PTZ Hubble WizMind Network Camera
	ADS-180EL-36-1 360180E	Power Adapter
	PBW059-00	Mount Adapter
	PFB710C-SG	Ceiling Mount Bracket
Accessories	PFB710W-SG	Wall / Pole Mount Bracket
	PFB7320W-SG	Wall / Pole Mount Bracket
	PFA153-SG	Pole Mount Bracket
	TF-P100	MicroSD Memory Card

## **Accessories**

# Included:





ADS-180EL-36-1 360180E Power Adapter

PBW059-00 Mount Adapter

# Optional:



PFB710C-SG Ceiling Mount Bracket



PFB710W-SG Wall/Pole Mount Bracket



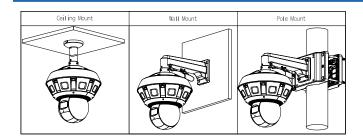
PFB7320W-SG Wall / Pole Mount Bracket



PFA153-SG Pole Mount Bracket



TF-P100 MicroSD Memory Card



# Dimensions (mm[inch])

