

DH-IPC-HDBW5442H-ZHE

4MP IR Vari-focal Dome WizMind Network Camera



Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,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

Driven by deep learning algorithms, Dahua WizMind S Series network camera offers a variety of intelligent functions that greatly improve the accuracy of audio and video analysis. It supports video metadata, smart sound detection, face detection, perimeter protection, people counting and more. The camera also adopts advanced image processing AI-Powered Image technology and has the Deeplight night vision effect. The camera is dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on the model).

Functions

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

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, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Smart Sound Detection

With deep learning algorithms, Dahua Smart Sound Detection technology can detect and identify the sound of screams, glass breaking, and more.

* The parameters and datasheets below can only be applied to 5442-Z-S3 series.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688×1520) @25/30 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; analog output; power output; supports max. 512 G Micro SD card, built-in dual Mic.
- 24 VAC/12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection, heater.
 - SMD 3.0.
 - · Anti-corrosion model optional.



People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

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.

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.

Protection (IP67, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera					
Image Senso	r	1/1.8" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		4 GB			
RAM		1 GB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.0006 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		Up to 40 m (131.23 ft) (IR)			
Illuminator On/Off Control		Auto; Zoomprio; Manual			
Illuminator Number		3 (IR LED)			
Angle Adjustment		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		ф14			
Focal Length		2.7 mm–12.0 mm			
Max. Apertu	re	F1.2			
Field of View	,	H: 114°–48°; V: 59°–27°; D: 143°–56°			
Iris Control		Auto			
Iris Control Type		P-Iris			
Close Focus Distance		1.75 m (5.74 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	60.4 m (198.16 ft)	24.2 m (79.40 ft)	12.1 m (39.70 ft)	6.0 m (19.69 ft)
	т	128.7 m (425.52 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)	12.9 m (42.32 ft)
	*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 table do not reflect intelligent function distances. For intelligent function distances, refer to installation and				

commissioning manual/project design tool.

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection
Smart Object Detection	Smart abandoned object; smart missing object
SMD	SMD 3.0

AcuPick	Uses deep learning algorithms and works with back- end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate targets.		
AISSA	Yes		
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.		
People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.		
Heat Map	Yes		
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.		
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
Smart Sound Detection	Yes		
Video			
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)		
Smart Codec	Smart H.265+; Smart H.264+		
AI Coding	AI H.265; AI H.264		
Video Frame Rate	Main stream: 2688 × 1520 (1 fps–25/30 fps) /1920 × 1080 (1 fps–50/60 fps) Sub stream: D1@(1–25/30 fps) Third stream: 1080p@(1–25/30 fps) Fourth stream: 720p@(1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.		
Stream Capability	4 streams		
Resolution	4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–16384 kbps; H.265: 12 kbps–11008 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	140 dB		
Scene Self-adaptation (SSA)	Yes		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		

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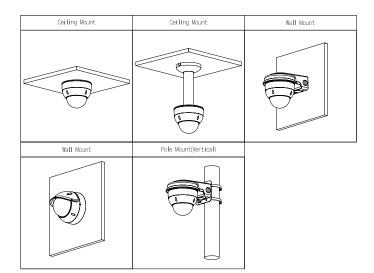
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disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object, missing object; loitering detection; people gathering; parking detection; external alarm; face detection; violage detection; external alarm; face detection; violage detection; external alarm; face detection; queue people number alarm; queue time alarm; security exceptionNetworkRU-45 (10/100 Enhancement Base-T)SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DMS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2PInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 80 M)StorageIE: IE 9 and later Chrome: Chrome 1D2 and later Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientIOS; AndroidCertificationConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CCF-Art 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14,	Alarm		
Network PortRJ-45 (10/100 Enhancement Base-T)SDK and APIYesNetwork ProtocolIPv4; 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; P2PInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14,	Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm;	
SDK and APIYesNetwork ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPPP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2PInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted bod; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CC-EMC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14,	Network		
Network ProtocolIPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTCP; RTCP; NTP; SMTP; FTP; SFTP; DHCP; DNS; DONS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2PInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CC: 4T CFR FCC Part 15, Subpart B UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14,	Network Port	RJ-45 (10/100 Enhancement Base-T)	
Network ProtocolSMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPOE; SNMP; P2PInteroperabilityONVIF (Profile S/Profile G/Profile T); CGIUser/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CC+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,	SDK and API	Yes	
User/Host20 (Total bandwidth: 80 M)StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-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,	Network Protocol	SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP;	
StorageFTP; SFTP; Micro SD card (support max. 512 GB); NASBrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-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,	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI	
BrowserIE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-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,	User/Host	20 (Total bandwidth: 80 M)	
BrowserChrome: Chrome 102 and later Firefox: Firefox 88 and laterManagement SoftwareSmartPSS Lite; DSS; DMSSMobile ClientiOS; AndroidCyber SecurityConfiguration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationsCE-LVD: EN62368-1 CCF-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,	Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS	
Mobile Client iOS; Android Cyber Security Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification Certification 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,	Browser	Chrome: Chrome 102 and later	
Cyber Security Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification Certification 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,	Management Software	SmartPSS Lite; DSS; DMSS	
Cyber SecuritySecurity logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certificationCertificationCertificationCertificationsCE-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,	Mobile Client	iOS; Android	
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,	Cyber Security	Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation	
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,	Certification		
	Certifications	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	1 channel (terminal)	
Audio Output	1 channel (terminal)	
Alarm Input	3 channels in: wet contact, 5mA 3V–5V DC	
Alarm Output	2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC	
Analog Output	1 channel (CVBS output: built-in 2 pin (testing))	
Power Output	12 VDC power output, max. current 165 mA, peak current 700 mA	
Power		
Power Supply	12 VDC/24 VAC/PoE (802.3at)/ePoE	
Dual Power Backup	When the power adapter and PoE provide power at the same time, disconnect one of them. The device will continue to work, but will not restart.	
Power Consumption	Basic: 4.1 W (12 VDC); 5.2 W (24 VAC); 5 W (PoE) Max. (Focus+WDR+ Intelligence on+IR on): 12.9 W (12 VDC); 15.8 W (24 VAC); 15.9 W (PoE) Heating: 3 W (12 VDC); 3.8 W (24 VAC); 3.9 W (PoE)	
Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	10%–95% (RH), non-condensing	
Protection	IP67; IK10	
Structure		
Casing Material	Metal	
Product Dimensions	Φ158 mm × 129.1 mm (6.22" × Φ5.08")	
Net Weight	1.1 kg (2.43 lb)	
Gross Weight	1.6 kg (3.53 lb)	

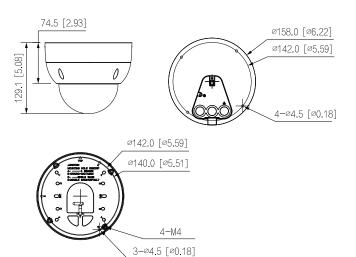
Wiz Mind S | DH-IPC-HDBW5442H-ZHE

Ordering Information

Туре	Model	Description
4MP Camera	DH-IPC-HDBW5442H-ZHE	4MP IR Vari-focal Dome WizMind Network Camera
	IPC-HDBW5442H-ZHE	4MP IR Vari-focal Dome WizMind Network Camera
Accessories (Optional)	PFB211W	Wall Mount Bracket
	PFA773	Wall Mount (sunshade)
	PFA152-E	Pole Mount Bracket
	PFA101	Mount Adapter
	PFB300C	Ceiling Mount Bracket
	PFB211WA	Anti-corrosion Wall Mount Bracket
	PFA152A-E	Anti-corrosion Pole Mount Braket
	PFA101A	Anti-corrosion Mount Adapter
	PFB300CA	Anti-corrosion Ceiling Mount Bracket
	PFM320D	12 VDC 2A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card



Dimensions (mm[inch])



Accessories

Optional:



PFB211W Wall Mount Bracket



PFA101 Mount Adapter



PFA152A-E Anti-corrosion Pole Mount Braket



PFM900-E Integrated Mount Tester





PFB300C Ceiling Mount Bracket



PFA101A Anti-corrosion Mount Adapter



TF-P100 MicroSD Memory Card





PFB300CA Anti-corrosion Ceiling Mount Bracket

PFB211WA Anti-corrosion Wall Mount Bracket



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