

IPC221ER-DF36 1.3MP WDR Network IR Bullet

Camera



Key Features

Optics

- Day/night functionality
- Smart IR technology
- Up to 120 dB WDR (Wide Dynamic Range)
- 3D DNR (Digital Noise Reduction)
- Optical glass window with higher light transmittance
- IR anti-reflection window to increase the infrared transmittance

Compression

- Dual streams
- ROI (Region of Interest)
- 9:16 corridor mode
- Customized OSD

Network

- NAA (Network Auto-Adaptability) to cope with up to 5% network packet loss
- UNP(Universal Network Passport) patented technology for NAT traversal
- Dual direct-to-iSCSI data block storage
- ONVIF Conformance

Structure

- Support PoE power supply
- Wide temperature range: -30°C to 60°C (-22°F to 140°F)
- Wide voltage range of ±25%
- IP66-rated

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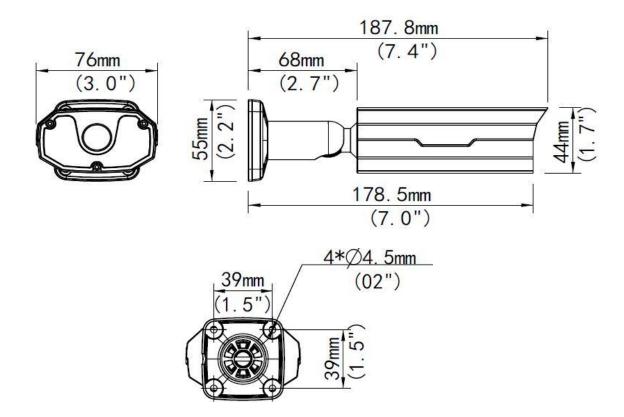


Specifications

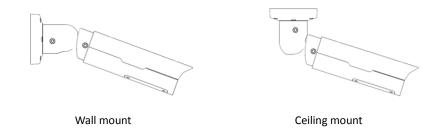
Sensor		IPC221ER-DF36	
Shutter	Camera		
Shutter	Sensor	1/3", 1.3Megapixel, progressive scan CMOS	
Day/Night In-cut filter with auto switch (ICR)	Shutter		
Day/Night In-cut filter with auto switch (ICR)	Lens	3.6mm@F1.8; Angle of View (H): 76°	
Color: 0.06 Lux (F1.8, 50/RE)	Day/Night		
Black & White: 0.03Lux (F1.8, SORE)			
Image Rotation Support WDR 120dB Video 1280 × 960 Max. Resolution 1280 × 960 Video Compression H.264 MUPEG Frame Rate 9609 (1280*960) 30 fps; 720P (1280*720) 30 fps; D1 (720*576) 25 fps 9:16 Corridor Mode Support 80!(Region of Interest) Support Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Audio Compression G.7.11 Towaya Talking Support Storage Back-end Storage Network Dual direct-to-iSCSI data block storage Network Network Protocois L2TP,IPV4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio cable Aution / O 1/1 Alarm I/O 1/1 Network 10M/100M Base-TX Ethermet General Power Supply 12V DC or PDE (IEEE802.3 af) Power consu	Min. Illumination		
WDR 120dB Video Video Video Compression H.264,MVPEG Frame Rate 960P (1280°960) 30 fps; 720P (1280°720) 30 fps; D1 (720°576) 25 fps 9-16 Corridor Mode Support ROI(Region of Interest) Support Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Compression G.711 Now-way Talking Support Storage Dual direct-to-ISCSI data block storage Network Description of Interests Protocols L2TP,IPV4,IGMP,ICMP,ARP,TCP,IDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIP, IMOS,API Interface Audio cable Input: impedance 35 kΩ; amplitude 2 V (p-p) Output: impedance 35 kΩ; amplitude 2 V (p-p) Alarm I/O 1/1 Network 10M/100M Base-TX Ethermet Ceneral Power Supply 12 V DC or POE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 13.78 ×76 ×44 mm (T A" × 3.0" × 1.7")	S/N	>50dB	
Video Max. Resolution 1280 × 960 Video Compression H.264,MIPEG Frame Rate 960P (1280°960) 30 fps; 720P (1280°720) 30 fps; D1 (720°576) 25 fps 9:16 Corridor Mode Support BO((Region of Interest) Support Video Straming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-ISCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Input: impedance 35 kC; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet General Power Cupply Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 ×76 ×44 mm (7.4" × 3.0" × 1.7")	Image Rotation	Support	
Max. Resolution 1280 × 960 Video Compression H.264.MIPEG Frame Rate 960P (1280*960) 30 fps; 720P (1280*720) 30 fps; D1 (720*576) 25 fps 9:16 Corridor Mode Support ROI(Region of Interest) Support Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-ISCSI data block storage Network L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPDE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Input: impedance 35 kΩ; amplitude 2 V [p-p] Audio I/O 1/1 Network 10M/100M Base-TX Ethernet General 12 V DC or PoE (IEEE802.3 af) Power Consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 ×76 ×44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30°C ~ 460°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)	WDR	120dB	
Video Compression H.264,MJPEG Frame Rate 960P (1280°960) 30 fps; 720P (1280°720) 30 fps; D1 (720°576) 25 fps 9:16 Corridor Mode Support ROI(Region of Interest) Support Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,IDP,DHCP,PPPDE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio I/O Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 35 kΩ; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet Ceneral Power Supply Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 ×76 ×44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) <td colspan="3">Video</td>	Video		
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9:16 Corridor Mode ROI(Region of Interest) Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPP0E,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio Cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1/1 Network 10M/100M Base-TX Ethernet General Power Supply Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) Weight 0.58 kg (1.28 lb) Working Environment Jun 100	Video Compression	H.264,MJPEG	
ROI(Region of Interest) Support	Frame Rate	960P (1280*960) 30 fps; 720P (1280*720) 30 fps; D1 (720*576) 25 fps	
Video Streaming Dual OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio ————————————————————————————————————	9:16 Corridor Mode	Support	
OSD Up to 8 OSDs Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPDE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio cable Audio Integration Audio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet General Power Supply Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 ×76 ×44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30"C ~ +60"C (-22" F ~ 140"F), Humidity ≤ 90% RH(non-condensing)	ROI(Region of Interest)	Support	
Privacy Mask Up to 4 areas Audio Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPDE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet General Power Supply 12 V DC or PoE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 ×76 ×44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30"C ~ +60"C (-22" F ~ 140"F), Humidity ≤ 90% RH(non-condensing)	Video Streaming	Dual	
Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1/1 Network 10M/100M Base-TX Ethernet General Power Supply 12 V DC or PoE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 × 76 × 44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30°C ~ +60°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)	OSD	Up to 8 OSDs	
Audio Compression G.711 Two-way Talking Support Storage Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio αble Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1/1 Network 10M/100M Base-TX Ethernet General Power Supply 12 V DC or PoE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 × 76 × 44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30°C ~ +60°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)	Privacy Mask	Up to 4 areas	
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StorageBack-end StorageDual direct-to-iSCSI data block storageNetworkProtocolsL2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIPCompatible IntegrationONVIF, IMOS,APIInterfaceAudio I/OAudio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p]Alarm I/O1 / 1Network10M/100M Base-TX EthernetGeneralPower Supply12 V DC or PoE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W)Dimensions (L × W × H)187.8 × 76 × 44 mm (7.4" × 3.0" × 1.7")Weight0.58 kg (1.28 lb)Working Environment-30°C ~ +60°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)	Audio Compression	G.711	
Back-end Storage Dual direct-to-iSCSI data block storage Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio I/O Audio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet General Power Supply Dimensions (L × W × H) 187.8 × 76 × 44 mm (7 A'' × 3.0" × 1.7") Dimensions (L × W × H) 187.8 × 76 × 44 mm (7 A'' × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30" C ~ +60"C (-22" F ~ 140"F), Humidity ≤ 90% RH(non-condensing)	Two-way Talking	Support	
Network Protocols L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP Compatible Integration ONVIF, IMOS,API Interface Audio cable Input: impedance 35 kΩ; amplitude 2 V [p-p] Output: impedance 600 Ω; amplitude 2 V [p-p] Alarm I/O 1 / 1 Network 10M/100M Base-TX Ethernet General Power Supply 12 V DC or PoE (IEEE802.3 af) Power consumption: 3.5 W (with IR on: extra 4W) Dimensions (L × W × H) 187.8 × 76 × 44 mm (7.4" × 3.0" × 1.7") Weight 0.58 kg (1.28 lb) Working Environment -30°C ~ +60°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)	Storage		
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Compatible Integration ONVIF, IMOS,API Interface Audio cable Input: impedance $35 \text{ k}\Omega$; amplitude 2 V [p-p] Output: impedance 600Ω ; amplitude 2 V [p-p] Alarm I/O $1/1$ Network $10M/100M$ Base-TX Ethernet General Power Supply	Network		
$\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$	Protocols	L2TP,IPv4,IGMP,ICMP,ARP,TCP,UDP,DHCP,PPPoE,RTP,RTSP,Qos,NTP,FTP,HTTP,SNMP,SIP	
$Audio I/O \begin{tabular}{ll} Audio cable \\ Input: impedance 35 k\Omega; amplitude 2 V [p-p] \\ Output: impedance 600 \Omega; amplitude 2 V [p-p] \\ Alarm I/O \begin{tabular}{ll} 1/1 \\ Network \begin{tabular}{ll} 10M/100M Base-TX Ethernet \\ \hline General \\ Power Supply \begin{tabular}{ll} 12 V DC or PoE (IEEE802.3 af) \\ Power consumption: 3.5 W (with IR on: extra 4W) \\ Dimensions (L × W × H) \begin{tabular}{ll} 187.8 × 76 × 44 mm (7.4" × 3.0" × 1.7") \\ Weight \begin{tabular}{ll} 0.58 kg (1.28 lb) \\ Working Environment \end{tabular} \begin{tabular}{ll} -30 ° C ~ +60 ° C (-22 ° F ~ 140 ° F), Humidity ≤ 90% RH(non-condensing) \\ \hline \end{tabular}$	Compatible Integration	ONVIF, IMOS,API	
Audio I/O Input: impedance $35 \text{ k}\Omega$; amplitude 2 V [p-p] Output: impedance 600Ω ; amplitude 2 V [p-p] Alarm I/O $1/1$ Network $10\text{M}/100\text{M}$ Base-TX Ethernet General	Interface		
Output: impedance 600Ω ; amplitude 2 V [p-p] Alarm I/O $1/1$ Network $10\text{M}/100\text{M Base-TX Ethernet}$ General Power Supply $\frac{12 \text{ V DC or PoE (IEEE802.3 af)}}{\text{Power consumption: } 3.5 \text{ W (with IR on: extra 4W)}}$ Dimensions (L × W × H) $187.8 \times 76 \times 44 \text{ mm } (7.4^{"} \times 3.0^{"} \times 1.7^{"})$ Weight $0.58 \text{ kg } (1.28 \text{ lb})$ Working Environment $-30^{\circ}\text{C} \sim +60^{\circ}\text{C } (-22^{\circ}\text{F} \sim 140^{\circ}\text{F})$, Humidity $\leq 90\%$ RH(non-condensing)		Audio cable	
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Network 10M/100M Base-TX Ethernet General Power Supply			
Network 10M/100M Base-TX Ethernet General Power Supply	Alarm I/O	1/1	
Power Supply			
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Working Environment −30°C ~ +60°C (-22°F ~ 140°F), Humidity ≤ 90% RH(non-condensing)			
	Ingress Protection	IP66	



Dimensions



Installation



Accessories

Installation mode	Accessories	Description
Wall mount	Mounting pedestal is included in the Product package	
Ceiling mount	Mounting pedestal is included in the Product package	

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^{*}Product specifications and availability are subject to change without notice.