# IPC-MD133E-IR-2.8



### 3MP IR Mini-Dome Network Camera













- · 1/3" 3Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 20fps@3M(2048x1536)&25/30fps@1080P(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, IK10, PoE

### **System Overview**

The IPC-MD133E-IR- IR Megapixel Fixed MiniDome camera delivers 3MP resolution with a choice of 2.8mm or 3.6mm wide angle lens options. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

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## IPC-MD133E-IR-2.8

### 3MP IR Mini-Dome Network Camera

### **Functions**

### True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

### **Regions of interest**

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

### **Smart IR**

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

### **Image Flip**

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

### **Environmental**

With a temperature range of -30 °C to +60 °C (-22°F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

### Protection

Supporting ±10% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer

### Smart H.264+

Delivering high quality video without straining the network, Smart

H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.





# 3MP IR Mini-Dome Network Camera

Camera           Image Sensor         1/3" 3Megapixel progresive CMOS           Effective Pixels         2304H)x1536(V)           RAM/ROM         256MB/16MB           Scanning System         Progressive           Minimum Illumination         0.1Lux/F2.0(color), 0Lux/F2.0(IR on)           S/N Ratio         More than 50dB           IR Distance         Distance up to 30m(98ft)           IR On/Off Control         Auto/ Manual           IR LEDs         24           Lens         Lens           Mount Type         Board-in           Focal Length         2.8 mm           Max. Aperture         F2.0/F2.0           Angle of View         H98°/T7", V51'/41"           Focus Control         Fixed           Close Focus Distance         N/A           PTZ         Pan/Tilk Range         Pan:0" ~355" ;Tilt:0" ~65" ;Rotation:0" ~355"           Video         Video           Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048×1536)(2304×1296)/1080P(1920 x108)(717(4×576/704×480)/CIF(352×288/352×240)           PTame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           Bit Rate Control         CBR/VBR           Bit Rate </th <th><b>Technical Specification</b></th> <th></th>	<b>Technical Specification</b>	
Effective Pixels         2304H)x1536(V)           RAM/ROM         256MB/16MB           Scanning System         Progressive           Minimum Illumination         0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)           S/N Ratio         More than 50dB           IR Distance         Distance up to 30m(98ft)           IR On/Off Control         Auto/ Manual           IR LEDs         24           Lens         Lens Type           Fixed         Mount Type           Board-in         Focal Length           Max. Aperture         F2.0/F2.0           Angle of View         H:98*/77*, V:51*/41*           Focus Control         Fixed           Close Focus Distance         N/A           PTZ         Pan:0* ~355*; Till:0* ~65*; Rotation:0* ~355*           Video         Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         x1080/1.3M(1280x960)720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	Camera	
RAM/ROM         256MB/16MB           Scanning System         Progressive           Minimum Illumination         0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)           S/N Ratio         More than 50dB           IR Distance         Distance up to 30m(98ft)           IR On/Off Control         Auto/ Manual           IR LEDS         24           Lens         Lens Type           Mount Type         Board-in           Focal Length         2.8 mm           Max. Aperture         F2.0/F2.0           Angle of View         H:98*/77*, V:51*/41*           Focus Control         Fixed           Close Focus Distance         N/A           PTZ           Pan/Tilt Range         Pan:0* ~355*; Tilt:0* ~65*; Rotation:0* ~355*           Video           Compression         H:264+/H:264           Streaming Capability         2 Streams           Resolution         3M(2048*1536)(2304*1296)/1080P(1920*1280*720)/D1(704*576/704*480)/CIF(352*288/352*240)           Frame Rate         D1/CIF(1 ~25/30fps)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	Image Sensor	1/3" 3Megapixel progresive CMOS
Scanning System	Effective Pixels	2304H)x1536(V)
Minimum Illumination  S/N Ratio  More than 50dB  IR Distance  Distance up to 30m(98ft)  IR On/Off Control  Auto/ Manual  IR LEDS  Lens  Lens Type  Fixed  Mount Type  Board-in  Focal Length  Max. Aperture  F2.0/F2.0  Angle of View  H.98*/77*, V:51*/41*  Focus Control  Close Focus Distance  N/A  PTZ  Pan/Tilt Range  Pan:0* ~355*; Tilt:0* ~65*; Rotation:0* ~355*  Video  Compression  H.264+/H.264  Streaming Capability  2 Streams  Am(1 ~ 20fps)/2M (1 ~ 25/30fps)s)  Bit Rate  Day/Night  Auto(ICR) / Color / B/W	RAM/ROM	256MB/16MB
S/N Ratio         More than 50dB           IR Distance         Distance up to 30m(98ft)           IR On/Off Control         Auto/ Manual           IR LEDS         24           Lens         Lens Type           Fixed         Mount Type           Board-in         Pocal Length           Max. Aperture         F2.0/F2.0           Angle of View         H98*/77*, V51*/41*           Focus Control         Fixed           Close Focus Distance         N/A           PTZ         Pan/Tilt Range           Pan/Tilt Range         Pan:0* ~355* ;Tilt:0* ~65* ;Rotation:0* ~355*           Video         Compression           H.264+/H.264         Streaming Capability           Resolution         3M(2048*1536)(2304*1296)/1080P(1920 *1080P(1920 *1080P(1)20 *108	Scanning System	Progressive
IR Distance	Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)
R On/Off Control   Auto/ Manual	S/N Ratio	More than 50dB
IR LEDs       24         Lens       Fixed         Mount Type       Board-in         Focal Length       2.8 mm         Max. Aperture       F2.0/F2.0         Angle of View       H:98°/77°, V:51°/41°         Focus Control       Fixed         Close Focus Distance       N/A         PTZ       Pan/Tilt Range       Pan:0° ~355°; Tilt:0° ~65°; Rotation:0° ~355°         Video       Video         Compression       H.264+/H.264         Streaming Capability       2 Streams         Resolution       3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)         Frame Rate       3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)         Frame Rate       D1/CIF(1 ~ 25/30fps)         Bit Rate Control       CBR/VBR         Bit Rate       H264:24K ~ 8192Kbps         Day/Night       Auto(ICR) / Color / B/W	IR Distance	Distance up to 30m(98ft)
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Lens Type         Fixed           Mount Type         Board-in           Focal Length         2.8 mm           Max. Aperture         F2.0/F2.0           Angle of View         H:98*/77*, V:51*/41*           Focus Control         Fixed           Close Focus Distance         N/A           PTZ           Pan/Tilt Range         Pan:0° ~355°; Tilt:0° ~65°; Rotation:0° ~355°           Video           Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048*x1536)(2304*x1296)/1080P(1920 ×1080)/1.3M(1280*y60)720P(1280*720)/D1(704*x576/704*x480)/CIF(352*x288/352*x240)           Frame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           D1/CIF(1 ~ 25/30fps)         D1/CIF(1 ~ 25/30fps)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	IR LEDs	24
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Focal Length         2.8 mm           Max. Aperture         F2.0/F2.0           Angle of View         H:98°/77°, V:51°/41°           Focus Control         Fixed           Close Focus Distance         N/A           PTZ           Pan/Tilt Range         Pan:0° ~355°; Tilt:0° ~65°; Rotation:0° ~355°           Video           Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)           Frame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           Bit Rate Control         CBR/VBR           Bit Rate         H264·24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	Lens Type	Fixed
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Pan/Tilt Range         Pan:0° ~355°; Tilt:0° ~65°; Rotation:0° ~355°           Video         Video           Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)           Frame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           D1/CIF(1 ~ 25/30fps)         D1/CIF(1 ~ 25/30fps)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	Close Focus Distance	N/A
Video           Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)           Frame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           D1/CIF(1 ~ 25/30fps)         D1/CIF(1 ~ 25/30fps)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	PTZ	
Compression         H.264+/H.264           Streaming Capability         2 Streams           Resolution         3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)           Frame Rate         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)           D1/CIF(1 ~ 25/30fps)           Bit Rate Control         CBR/VBR           Bit Rate         H264:24K ~ 8192Kbps           Day/Night         Auto(ICR) / Color / B/W	Pan/Tilt Range	Pan:0° ~355° ;Tilt:0° ~65° ;Rotation:0° ~355°
Streaming Capability       2 Streams         3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)/20P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)         3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)         Frame Rate       D1/CIF(1 ~ 25/30fps)         Bit Rate Control       CBR/VBR         Bit Rate       H264:24K ~ 8192Kbps         Day/Night       Auto(ICR) / Color / B/W	Video	
Resolution 3M(2048×1536)(2304×1296)/1080P(1920 ×1080)/1.3M(1280×960)720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)  3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)  Frame Rate D1/CIF(1 ~ 25/30fps)  Bit Rate Control CBR/VBR  Bit Rate H264:24K ~ 8192Kbps  Day/Night Auto(ICR) / Color / B/W	Compression	H.264+/H.264
Resolution       ×1080)/1.3M(1280×960)720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)         Frame Rate       3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)         D1/CIF(1 ~ 25/30fps)         Bit Rate Control       CBR/VBR         Bit Rate       H264:24K ~ 8192Kbps         Day/Night       Auto(ICR) / Color / B/W	Streaming Capability	2 Streams
Frame Rate  D1/CIF(1 ~ 25/30fps)  Bit Rate Control  CBR/VBR  Bit Rate  H264:24K ~ 8192Kbps  Day/Night  Auto(ICR) / Color / B/W	Resolution	×1080)/1.3M(1280×960)720P(1280×720)/
D1/CIF(1 ~ 25/30fps)  Bit Rate Control  CBR/VBR  Bit Rate  H264:24K ~ 8192Kbps  Day/Night  Auto(ICR) / Color / B/W	Frame Rate	3M(1 ~ 20fps)/2M (1 ~ 25/30fps)s)
Bit Rate H264:24K ~ 8192Kbps  Day/Night Auto(ICR) / Color / B/W		D1/CIF(1 ~ 25/30fps)
Day/Night Auto(ICR) / Color / B/W	Bit Rate Control	CBR/VBR
	Bit Rate	H264:24K ~ 8192Kbps
BLC Mode BLC / HLC / DWDR	Day/Night	Auto(ICR) / Color / B/W
	BLC Mode	BLC/HLC/DWDR

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image	Support
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;Bonjour;802.1x;Multicast;ICMP;IGMP;
Interoperability	ONVIF, PSIA, CGI
Interoperability Streaming Method	ONVIF, PSIA, CGI Unicast / Multicast
Streaming Method	Unicast / Multicast
Streaming Method  Max. User Access	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant
Streaming Method  Max. User Access  Edge Storage	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording
Streaming Method  Max. User Access  Edge Storage  Web Viewer	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000) UL:UL60950-1
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Certifications	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000) UL:UL60950-1
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Interface	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000)  UI:UL60950-1  FCC: FCC Part 15 Subpart B
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Certifications  Interface  Video Interface	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Certifications  Interface  Video Interface  Audio Interface	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000)  UI:UL60950-1  FCC: FCC Part 15 Subpart B  N/A  N/A
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Certifications  Interface  Video Interface  Audio Interface  RS485	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000)  UL:UL60950-1  FCC: FCC Part 15 Subpart B  N/A  N/A
Streaming Method  Max. User Access  Edge Storage  Web Viewer  Management Software  Smart Phone  Certifications  Certifications  Interface  Video Interface  Audio Interface  RS485  Alarm	Unicast / Multicast  10 Users/20 Users  NAS(Network Attached Storage),Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS,Easy4ip  iPhone, iPad, Android Phone  CE (EN 60950:2000)  UL:UL60950-1  FCC: FCC Part 15 Subpart B  N/A  N/A



# IPC-MD133E-IR-2.8

### 3MP IR Mini-Dome Network Camera

### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	Ф109.9mm × 81mm (4.33" x 3.19")
Net Weight	0.34Kg (0.75lb)
Gross Weight	0.47Kg (1.04lb)

### Accessories

### **Optional:**







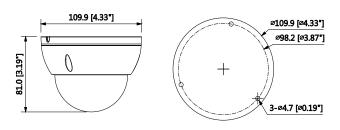




PFA152

# Junction Mount PFA136 PFB203W + PFA152 Wall Mount PFB203W

### Dimensions (mm/inch)



### Winic Technologies USA Inc.

42 Central avenue, Farmingdale, New York 11735

Tel: +631-396-0800 Fax: +631-396-0805

Email:sales@winictech.com

www.winictech.com