

# PDC491225H

# 2MP 25x Starlight IR PTZ HDCVI Camera



- · 1/2.8" 2Megapixel Exmor R CMOS
- · Powerful 25x optical zoom
- Starlight technology
- · 120dB true WDR, 3D DNR
- · Max. 25/30fps@1080P, 25/30/50/60fps@720P
- · IR distance up to 100m
- · IP66









#### **System Overview**

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the PDC49 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 25/30 fps, with 25x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. PDC49 series PTZ is equipped with smooth control, high quality image and good protection, which make it can meet small and medium size of video surveillance applications.

### **Functions**

#### Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

# Starlight Technology

Thanks to our experience and expertise in hardware and software development, the camera is equipped with the latest image processing algorithm, high performance hardware and high quality optical components, which make the camera have very exellent low light performance. In most conditions, this camera can deliver clear, bright and low-noise color images.

## Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

## Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

#### Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Gain Control

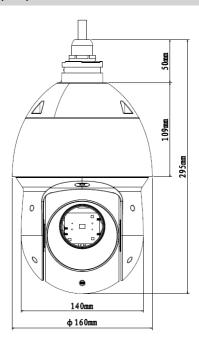
Noise Reduction

Auto / Manual

Ultra DNR (2D/3D)

Filip   180"	itte Series   1 DC			
Image Semons	Technical Specification		Digital Zoom	16x
Effective Protect   1920(Pt x 1080(V), 2 Megapheris   Certifications   C	Camera		Flip	180°
Scanning system	Image Sensor	1/2.8" Exmor R CMOS	Privacy Masking	Up to 24 areas
Certifications   Cert	Effective Pixels	1920(H) x 1080(V), 2 Megapixels	Certifications	
Interface   Inte	Scanning System		Certifications	FCC: Part15 subpartB,ANSI C63.4-2014
Minimum Illimination         Color 0.005Lux@F1.6 (N.R.m.)           5/N Ratio         More than 55d8         4 Video Interface         1 channel in           B Col/Off Control         Auto/Manual         R5485         1           IR LEDS         6         Alarm         2/1           Lens         Lens         Electrical           Lens         F1.6 ~ F4.4         Power Supply         DC 12V/3A           Angle of View         15.52.7 ~ 2.4*         Environmental           Optical Zoom         25x         Description         40°C ~ 70°C (40°F ~ 158°F) Less than 90°C record Control           Close Fours Distance         100mm 1000mm         Vandal Resistance         N/A           Close Fours Distance         100mm 1000mm         Vandal Resistance         N/A           PTZ         Construction         Power Supply         Casing           Manual Control Speed         Pan. 0.1 ~ 200° /s; Till: 0.1 ~ 120° /s         Casing         Metal           Manual Control Speed         Pan. 0.1 ~ 200° /s; Till: 0.1 ~ 120° /s         Net Weight         4/28(8.82lb)           Presets         300         Gross Weight         4.28(8.82lb)           Presets         300         Gross Weight         4.28(8.9.0lb)           Presets         300         G	Electronic Shutter Speed	1/3s~1/300,000s	Interface	UL. UL00950-1+CAN/C5A C22.2,N0.00950-1
More than 558	Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)		1
R Distance	S/N Ratio	More than 55dB		
R Cov/Off Control   Auto/Manual   Alarm   2/1	IR Distance	Distance up to 100m (328ft)		
RELEDS   S   S	IR On/Off Control	Auto/Manual		
Power Supply	IR LEDs	6		2/1
Asmin-120mm Max. Aperture F1.6 ~ F4.4 Angle of View H: 59.2" ~ 2.4" Optical Zoom 25x Optical Zoom 100mm 100m	Lens			
Max. Appleture F1.6~F4.4 Angle of View H: 59.2° ~ 2.4° Optical Zoom 25x Op	Focal Length	4.8mm~120mm		
Angle of View Angle of View Optical Zoom 25x Optical Zoom Auto/Manual Close Focus Distance 100mm* 1000mm  Construction  PTZ Pan/Tilt Range Pan: 0** 360* endiess; Tilt: -15** 90*, auto flip 180* Manual Control Speed Pan: 0** 200* /s; Tilt: 0.1** -120* /s Preset Speed Pan: 0** 2100* /s; Tilt: 200* /s Preset Speed Pan: 240* /s; Tilt: 200* /s Preset Speed Pattern, 8 Tour, Auto Pan, Auto Scan Speed Setup Human-oriented focal Length / speed adaptation Auto restore to previous PTZ and lens status after power failure Idle Motion Auto restore to previous PTZ and lens status after power failure  Wideo Video Video Video Video United Scan Speed Setup United Speed	Max. Aperture	F1.6 ~ F4.4	Power Consumption	13W,20W (IR on)
Focus Control Auto/Manual Ingress Protection IP66  Close Focus Distance 100mm* 1000mm  PTZ  Pan/Tilk Range Pan: 0* ~ 360* endless; Tilt: -15* ~ 90*, auto flip 180* Casing Metal  Manual Control Speed Pan: 0* ~ 200* /s; Tilt: 0.1* ~ 120* /s  Preset Speed Pan: 240* /s; Tilt: 200* /s  Presets 300  PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation  Auto restore to previous PTZ and lens status after power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fpsg=1080P, 25/30/50/60fpsg=720P  Video Output 1-channel BNC HDCVI high definition video output/  CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Angle of View	H: 59.2° ~ 2.4°	Environmental	
Focus Control Close Focus Distance 100mm* 1000mm 100mm* 1000mm 100mm* 1000mm 100mm* 1000mm 100mm* 1000mm 100mm* 1000mm 100mm* 1000mm* 10000mm* 1000mm* 1000mm* 1000mm* 1000mm* 1000mm* 1000mm* 1	Optical Zoom	25x	Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 90%
Close Focus Distance 100mm* 1000mm PTZ  Pan/Tilk Range Pan: 01* ~360* endless; Tilt: -15* ~90*, auto flip 180* Manual Control Speed Pan: 0.1* ~200* /s, Tilt: 0.1* ~120* /s  Preset Speed Pan: 240* /s, Tilt: 200* /s  Preset Speed Presets  300 PTZ Mode S Pattern, 8 Tour, Auto Pan, Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation Power up Action Power failure Power up Action Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/O (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output (switchable) Day/Night Auto(ICR) / Color / B/W  OSD Menu Backlight Compensation BLC / HLC / WDR (120dB)	Focus Control	Auto/Manual	Ingress Protection	IP66
Pan/Tilk Range Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180° Manual Control Speed Pan: 0.1° ~ 200° /s; Tilt: 0.1° ~ 120° /s Preset Speed Pan: 240° /s; Tilt: 200° /s Preset Speed Pan: 240° /s; Tilt: 200° /s Presets 300 PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan Speed Setup Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after power fallure Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition) Video Resolution 1080P(1920×1080)/720P(1280×720) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable) Day/Night Auto(ICR) / Color / B/W OSD Menu Backlight Compensation BLC / HLC / WDR (120dB)	Close Focus Distance	100mm~ 1000mm	Vandal Resistance	N/A
Pan/Tilk Range Pan: 0° 360° endless; Tilt: .15° 90′, auto flip 180°  Manual Control Speed Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s  Preset Speed Pan: 240° /s; Tilt: 200° /s  Presets 300  PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation  Auto restore to previous PTZ and lens status after power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation  Dimensions	PTZ		Construction	
Pan: 0.1" 200" /s; Tilt: 0.1" 2120" /s Preset Speed Pan: 240" /s; Tilt: 200" /s Presets  300  PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after power failure Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720) Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBs standard definition video output (switchable) Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Pan/Tilt Range	Pan: $0^{\circ}$ ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°	Casing	Metal
Presets 300  Presets 300  First Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation  Auto restore to previous PTZ and lens status after power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Manual Control Speed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s	Dimensions	Ф160(mm) x 295(mm)
Presets 300  PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan  Speed Setup Human-oriented focal Length/ speed adaptation  Auto restore to previous PTZ and lens status after power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 2-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Preset Speed	Pan: 240° /s; Tilt: 200° /s	Net Weight	4kg(8.82lb)
Speed Setup Human-oriented focal Length/ speed adaptation  Power up Action Auto restore to previous PTZ and lens status after power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 2-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Presets	300	Gross Weight	4.2kg(9.26lb)
Power up Action Auto restore to previous PTZ and lens status after power failure  Idle Motion Command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	PTZ Mode	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		
power failure  Idle Motion Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period  Protocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Speed Setup	Human-oriented focal Length/ speed adaptation		
rotocol DH-SD, Pelco-P/D (Auto recognition)  Video  Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Power up Action	·		
Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Idle Motion			
Resolution 1080P(1920×1080)/720P(1280×720)  Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Protocol	DH-SD, Pelco-P/D (Auto recognition)		
Frame Rate 25/30fps@1080P, 25/30/50/60fps@720P  Video Output 1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Video			
1-channel BNC HDCVI high definition video output/ CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Resolution	1080P(1920×1080)/720P(1280×720)		
CVBS standard definition video output (switchable)  Day/Night Auto(ICR) / Color / B/W  OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P		
OSD Menu Support  Backlight Compensation BLC / HLC / WDR (120dB)	Video Output			
Backlight Compensation BLC / HLC / WDR (120dB)	Day/Night	Auto(ICR) / Color / B/W		
	OSD Menu	Support		
White Balance Auto,ATW,Indoor,Outdoor,Manual	Backlight Compensation	BLC / HLC / WDR (120dB)		
	White Balance	Auto, ATW, Indoor, Outdoor, Manual		

## **Dimensions (mm)**



Power Box Mount	Pole Mount	
PFB305W + PFA140	PFB305W + PFA150	
Corner Mount	Parapet Mount	
PFB305W + PFA151	PFA111+ PFB303S	

**Junction Mount** 

PFB305W + PFA120

**Ceiling Mount** 

PFA111 + PFB300C

## **Accessories**

Included:



PFB305W Wall Mount

Optional:



PFA111 Mount Adapter



DC12V/3A Power Supply



PFA140 Power box



PFB300C Ceiling Mount



Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount