



### Technical Specification

#### Camera

Image Sensor	1/2.8" CMOS
Effective Pixels	1920(H)×1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/4s~1/100000s NTSC: 1/3s~1/100000s
Minimum Illumination	0.004Lux/F1.6, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 20m (66feet)
IR On/Off Control	Auto / Manual
IR LEDs	8

#### Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	3.6mm (2.8mm Optional)
Max Aperture	F1.6
Angle of View	H: 86.9° (110°)
Focus Control	N/A
Close Focus Distance	1200mm (500mm) 47.2" (19.7")

#### DORI Distance

\*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm: 39m(128ft) 3.6mm: 55m(180ft)
Observe	63px/m (19px/ft)	2.8mm: 15m(49ft) 3.6mm: 22m(72ft)
Recognize	125px/m (38px/ft)	2.8mm: 8m(26ft) 3.6mm: 11m(36ft)
Identify	250ppm (76px/ft)	2.8mm: 4m(13ft) 3.6mm: 6m(20ft)

#### Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 60° Tilt: 0° ~ 80° Rotation: 0° ~ 360°
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#### Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC high definition video output / CVBS video output (DIP switch)
Day/Night	Auto (ICR) / Manual

OSD Menu	Multi-language
BLC Mode	BLC / HLC / WDR
WDR	120dB
Gain Control	AGC
Noise Reduction	2D / 3D
White Balance	Auto / Manual
Smart IR	Auto / Manual

#### Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
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#### Interface

Audio Interface	1ch in & Built-in Mic
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#### Electrical

Power Supply	12V DC ±30%
Power Consumption	Max. 3.6W (12V DC, IR on)

#### Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67 & IK10

#### Construction

Casing	Aluminium
Dimensions	Φ106mm×50.3mm (Φ4.17"×1.98")
Net Weight	0.31kg (0.68lb)
Gross Weight	0.45kg (0.99lb)

**Ordering Information**

Type	Part Number	Description
2MP Camera	DH-HAC-HDBW2241FP-A 2.8mm	2MP Starlight HDCVI IR Dome Camera, PAL
	DH-HAC-HDBW2241FP-A 3.6mm	2MP Starlight HDCVI IR Dome Camera, PAL
	DH-HAC-HDBW2241FN-A 2.8mm	2MP Starlight HDCVI IR Dome Camera, NTSC
	DH-HAC-HDBW2241FN-A 3.6mm	2MP Starlight HDCVI IR Dome Camera, NTSC
Accessories	PFA139	Junction box (For use alone)
	PFB204W	Wall mount (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFB204W junction box)
	PFM800-E	Passive HDCVI Balun
	PFM321	12V 1A Power Adapter
	PFM320	12V 2A Power Adapter
	PFM300	12V 2A Power Adapter

**Accessories**

Optional:



PFA139  
Junction box



PFB204W  
Wall mount



PFA152-E  
Pole mount



PFM800-E  
Passive HDCVI Balun



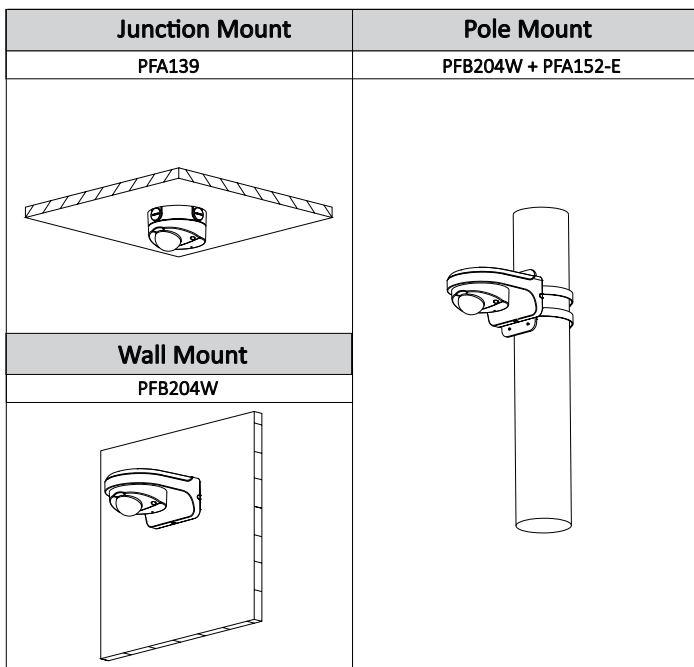
PFM321  
12V 1A Power Adapter



PFM320  
12V 2A Power Adapter



PFM300  
12V 2A Power Adapter



**Dimensions (mm/inch)**

