

Technical Specification

Camera

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|--------------------------|---|
| Image Sensor | 1/2.8" CMOS |
| Effective Pixels | 1920(H)×1080(V), 2MP |
| Scanning System | Progressive |
| Electronic Shutter Speed | PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s |
| Minimum Illumination | 0.004Lux/F1.6, 30IRE, 0Lux IR on |
| S/N Ratio | More than 65dB |
| IR Distance | Up to 40m (130feet) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 2 |

Lens

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| Lens Type | Fixed lens / Fixed iris |
| Mount Type | Board-in |
| Focal Length | 3.6mm (2.8mm, 6mm Optional) |
| Max Aperture | F1.6 |
| Angle of View | H: 86.9° (110°/52.8°) |
| Focus Control | N/A |
| Close Focus Distance | 1200mm (500mm, 2200mm) 47.2" (19.7"/ 86.6") |

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) 6mm:83m(272ft) |
| Observe | 63px/m (19px/ft) | 2.8mm: 15m(49ft) 3.6mm:22m(27ft) 6mm:33m(108ft) |
| Recognize | 125px/m (38px/ft) | 2.8mm: 8m(26ft) 3.6mm: 11m(36ft) 6mm: 17m(56ft) |
| Identify | 250px/m (76px/ft) | 2.8mm: 4m(13ft) 3.6mm:6m(20ft) 6mm:8m(26ft) |

Pan / Tilt / Rotation

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|-------------------|---|
| Pan/Tilt/Rotation | Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotation: 0° ~ 360° |
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Video

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|------------|-------------------------------------|
| Resolution | 1080P (1920×1080) |
| Frame Rate | 25/30fps@1080P, 25/30/50/60fps@720P |

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| 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

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|----------------|---|
| 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

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

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|-------------------|---------------------------|
| Power Supply | 12V DC ±30% |
| Power Consumption | Max. 6.7W (12V DC, IR on) |

Environmental

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| Operating Conditions | -40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above -40°C (-40°F) |
| Storage Conditions | -40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH |
| Ingress Protection & Vandal Resistance | IP67 |

Construction

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|--------------|---------------------------------------|
| Casing | Aluminium |
| Dimensions | 179.9mm×70mm×70mm (7.08"×2.76"×2.76") |
| Net Weight | 0.30kg (0.66lb) |
| Gross Weight | 0.41kg (0.90lb) |

Ordering Information

| Type | Part Number | Description |
|-------------|--------------------------|--|
| 2MP Camera | DH-HAC-HFW2241EP-A 2.8mm | 2MP Starlight HDCVI IR Bullet Camera, PAL |
| | DH-HAC-HFW2241EP-A 3.6mm | |
| | DH-HAC-HFW2241EP-A 6mm | |
| | DH-HAC-HFW2241EN-A 2.8mm | 2MP Starlight HDCVI IR Bullet Camera, NTSC |
| | DH-HAC-HFW2241EN-A 3.6mm | |
| | DH-HAC-HFW2241EN-A 6mm | |
| Accessories | PFA121 | Junction box (For use alone or with PFA152-E pole mount) |
| | PFA152-E | Pole mount (For use with PFA121 junction box) |
| | PFM800-E | Passive HDCVI Balun |
| | PFM321 | 12V 1A Power Adapter |
| | PFM320 | 12V 2A Power Adapter |
| | PFM300 | 12V 2A Power Adapter |

Accessories

Optional:



PFA121
Junction box



PFA152-E
Pole mount



PFM800-E
Passive HDCVI Balun



PFM321
12V 1A Power Adapter



PFM320
12V 2A Power Adapter



PFM300
12V 2A Power Adapter

