

DDF4910HDV-DN

IP Network Dome Camera, Vandal-resistant, 5-Megapixel, Full High-Definition, 1080p/30, Day/Night, PoE



Available from stock

Variant: 003473.405

The **DDF4910HDV-DN** is a **5-megapixel High-Definition** IP network dome camera with **Dallmeier Cam_inPIX®** technology built into a **vandal-resistant (IK10) enclosure**. The camera provides **real-time Full HD video (1080p/30)** using the **H.264** codec that is currently the most sophisticated standard for high-efficiency video compression.

Besides a comprehensive set of automatic and manual image optimization functions and many other setting options, it features automatic **Day/Night** operation supported by integrated **ambient light sensing** and a **removable IR cut filter (ICR¹⁾**.

According to requirements, the camera can be supplied conventionally with 12V DC or conveniently operated via **Power over Ethernet (PoE Class 0, IEEE 802.3af)** which allows for an easy, quick and cost-effective installation.

Features

- 1/2.5" 5-megapixel CMOS image sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- Real-time Full HD video (1080p/30)
- Automatic Day/Night switching using ambient light sensing and ICR¹⁾ function (switching threshold level adjustable)
- High light sensitivity of 0.45 lux (at F0.95, 50 IRE, ICR¹⁾ On)
- Resolution: SD (up to D1), HD (720p, 1080p, 2MP, 3MP, 4MP, 5MP)
- Video compression: H.264, MJPEG
- Frame rate up to 30 fps
- Simultaneous Dual- or Tri-Streaming
- Automatic White Balance (ATW, One-Push AWB)
- Automatic Gain Control (AGC)
- Automatic Electronic Shutter (AES)
- Comprehensive set of image optimization functions like brightness, contrast, saturation and sharpness
- 3D Digital Noise Reduction (3D DNR)
- Three different exposure metering modes:
 - Average metering (light information from entire scene),
 - Centre-weighted average metering and Spot metering
- Privacy Zone Masking (hiding/masking of protected areas)
- Flip function (horizontal, vertical or both)
- Digital Image Shift²⁾
- Motion detection³⁾ with selectable sensitivity
- Alarm notification via DaVid protocol³⁾, e-mail and FTP image upload
- Local video memory: SDHC card slot integrated³⁾
- Hybrid IP camera with analogue preview output
- Audio OUT⁴⁾ / Microphone IN⁴⁾
- Voltage supply with 12V DC or via PoE (Class 0, IEEE 802.3af)
- Low power consumption (max. 4.5 W)
- 3-axis adjustment
- Two available mounting variants:
 - in-ceiling mount (IM) or surface mount (SM)
- Available with different lens types
- Compact vandal-resistant (IK10) housing
- IP67 (surface mount variant)
- ONVIF compliant
- DIN EN 50130-4 compliant

Variants

003474.403	DDF4910HDV-DN-IM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, in-ceiling mount variant, F1.8 / 1.8–3 mm
003473.403	DDF4910HDV-DN-SM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, surface mount variant, F1.8 / 1.8–3 mm
003474.404	DDF4910HDV-DN-IM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, in-ceiling mount variant, F1.5 / 9–40 mm
003473.404	DDF4910HDV-DN-SM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, surface mount variant, F1.5 / 9–40 mm
003474.405	DDF4910HDV-DN-IM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, in-ceiling mount variant, F1.8 / 3.9–10 mm
003473.405	DDF4910HDV-DN-SM IP network dome camera, vandal-resistant, 5-megapixel, Full HD, 1080p/30, Day/Night, PoE, surface mount variant, F1.8 / 3.9–10 mm

Options

000428	Design Colours IM Cover Ring Cover ring for in-ceiling mount variant according to RAL or Pantone colour chart
001044	Tinted Bubble For in-ceiling and surface mount variant, 4.5"
001431	EvC-1 High-Speed Ethernet data transmission via coaxial cable
001678	Power Supply Unit (110–240 V AC -> 12 V DC) Universal power supply, 110–240 V AC to 12 V DC, 850 mA, plug adapter EU/UK/US/AUS
003694	Audio IN/OUT Y-Cable Connector FGA-30 3.5 mm stereo plug to 2× RCA jack incl. galvanic isolation

1) ICR = IR Cut Filter Removable

2) Provides digital fine alignment of image section (only applicable at resolutions less than 5MP)

3) Function is in preparation.

4) Audio IN/OUT Y-Cable Connector FGA-30 required (optionally available).

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Specifications

Sensor	
Type	1/2.5" 5-megapixel CMOS image sensor with Cam_inPIX® technology
Signal processing	Pure Digital Signal Processing
Image capture	Progressive Scan
Minimum illumination	ICR ⁵⁾ Off: 0.59 lux (F0.95, 50 IRE) ICR ⁵⁾ On: 0.45 lux (F0.95, 50 IRE) Max. 70 dB ⁶⁾
Dynamic Range	
Functions	
Day/Night switching	Using ambient light sensing and ICR ⁵⁾ function (switching threshold level adjustable)
B/W (black-and-white) mode	Automatic (in Night mode)
Automatic Electronic Shutter (AES)	1/30 – 1/2500 s (Auto Slow Shutter extends maximum exposure time to 1/5 s with AE Preset "Low light")
3D Digital Noise Reduction (3D DNR)	On/Off
Automatic Exposure (AE) Presets	Outdoor, Indoor, Low light
Exposure metering mode	Average metering (light information from entire scene), Centre-weighted average metering, Spot metering
Brightness adjustment	Automatic (ALC)/Manual
Gain control	Automatic (AGC)
White balance	ATW (Auto Tracking White Balance), One-Push AWB (Automatic White Balance)
Privacy Zone Masking	Yes (max. 20% of entire image)
Flip function	Horizontal, vertical or both
Digital Image Shift ⁷⁾	Yes
Motion detection ⁸⁾ (VMD)	With selectable sensitivity (5 levels)
Alarm notification	Via DaVID protocol (Dallmeier Video Protocol) to PGuard advance ⁸⁾ , e-mail, FTP image upload
Configuration	Via web browser
Languages	English, German, French, Spanish, Italian
Lens	
Mount	CS-mount
Auto iris control	Compatible with DC drive auto iris lenses
Type	<i>Specifications and available angles of view depending on variant (see "Lens Types" on page 3)</i>
Format and Encoding	
Video standard	SDTV (PAL/NTSC), HDTV (SMPTE 296M, SMPTE 274M)
Resolution	SD (up to D1), HD (720p, 1080p, 2MP, 3MP, 4MP, 5MP)
Video compression	H.264, MJPEG
Audio compression	G.711
Frame rate	Up to 30 fps at D1 Up to 30 fps at 720p Up to 30 fps at 1080p Up to 30 fps at 2MP Up to 15 fps at 3MP Up to 10 fps at 4MP Up to 10 fps at 5MP
Video bit rate	0.25 – 10 Mbps, CBR (constant bit rate) or VBR (variable bit rate)
Audio bit rate	64 kbps
Video streaming	Simultaneous Dual- or Tri-Streaming: H.264, MJPEG
Transfer format	Progressive (full image)
Live streaming transmission method	Unicast, Multicast
Miscellaneous	
Ambient light sensor	Integrated
Video output	1× BNC (CVBS, analogue SD video preview output, for local installation only)
Audio OUT (Mono) / Microphone IN (Mono)	1× 3.5 mm phone jack (for stereo plug) ⁹⁾ Mic IN: max. 63 mV (RMS), input resistance 10 kOhm, internal gain 20 dB SDHC card slot integrated ⁸⁾
Local video memory	1× RJ45, 10BASE-T/100BASE-TX-PoE
Ethernet	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, FTP, SMTP, RTP, RTCP
Ethernet protocols	
Electrical Data	
Voltage supply	12V DC ±10%, PoE (Class 0)
PoE standard	IEEE 802.3af
Power consumption	Max. 4.5W
Mechanical Data	
Dimensions	In-ceiling mount variant: approx. Ø 170 × H 135 mm (Ø 6.7 × H 5.3 inches) Surface mount variant: approx. Ø 153 × H 135 mm (Ø 6.0 × H 5.3 inches) In-ceiling mount variant: approx. 1200 g (2.6 lb) Surface mount variant: approx. 1100 g (2.4 lb)
Weight	3-axis White (standard variant) Clear (with black inner liner for discrete surveillance)
Adjustment	
Colour	
Bubble	
Environmental Conditions	
Operating temperature	In-ceiling mount variant (indoor): 0°C to +35°C (32°F to 95°F) Surface mount variant (in- and outdoor): -10°C to +40°C (14°F to 104°F) 0% – 90% RH, non-condensing IP67 (surface mount variant)
Relative humidity	
IP rating	
Approvals/Certifications	
Type	CE, FCC, ACA, UUV-Kassen, DIN EN 50130-4 compliant

5) ICR = IR Cut Filter Removable

6) According to the sensor manufacturer's specifications

7) Provides digital fine alignment of image section (only applicable at resolutions less than 5MP)

8) Function is in preparation.

9) Audio IN/OUT Y-Cable Connector FGA-30 required (optionally available).

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Lens Types

Lens F1.8 / 3.9–10 mm	
Type	5-Megapixel varifocal lens
Format	1/2"
Mount	CS-mount
Focal length	3.9–10 mm
Iris range	F1.8–360
Iris control	DC auto iris
Zoom	Manual
Focus	Manual
MOD (Minimum Object Distance)	0.3 m
IR corrected	Yes
Available angles of view ¹⁰⁾ (H × V) at wide end	approx. 62° × 44° at D1 NTSC approx. 62° × 52° at D1 PAL approx. 71° × 44° at 720p approx. 56° × 33° at 1080p approx. 48° × 37° at 2MP approx. 60° × 46° at 3MP approx. 66° × 52° at 4MP approx. 72° × 57° at 5MP
Available angles of view ¹⁰⁾ (H × V) at tele end	approx. 26° × 18° at D1 NTSC approx. 26° × 21° at D1 PAL approx. 31° × 18° at 720p approx. 23° × 13° at 1080p approx. 20° × 15° at 2MP approx. 25° × 19° at 3MP approx. 28° × 21° at 4MP approx. 31° × 24° at 5MP

Ultra Wide-Angle Lens F1.8 / 1.8–3 mm	
Type	5-Megapixel varifocal lens
Format	1/2.5"
Mount	CS-mount
Focal length	1.8–3 mm
Iris range	F1.8–Closed
Iris control	DC auto iris
Zoom	Manual
Focus	Manual
MOD (Minimum Object Distance)	0.5 m
IR corrected	Yes
Available angles of view ¹⁰⁾ (H × V) at wide end	approx. 105° × 82° at D1 NTSC approx. 105° × 93° at D1 PAL approx. 114° × 82° at 720p approx. 99° × 66° at 1080p approx. 88° × 72° at 2MP approx. 102° × 86° at 3MP approx. 110° × 93° at 4MP approx. 115° × 99° at 5MP
Available angles of view ¹⁰⁾ (H × V) at tele end	approx. 76° × 55° at D1 NTSC approx. 76° × 64° at D1 PAL approx. 86° × 55° at 720p approx. 70° × 43° at 1080p approx. 60° × 47° at 2MP approx. 73° × 58° at 3MP approx. 81° × 65° at 4MP approx. 87° × 71° at 5MP

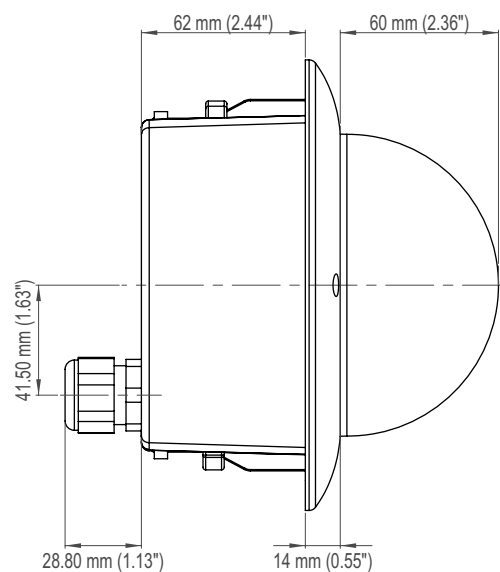
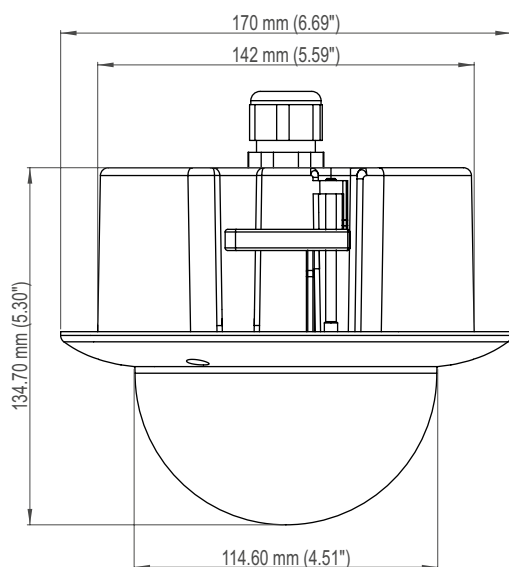
Telephoto Lens F1.5 / 9–40 mm	
Type	5-Megapixel varifocal lens
Format	1/2.5"
Mount	CS-mount
Focal length	9–40 mm
Iris range	F1.5–Closed
Iris control	DC auto iris
Zoom	Manual
Focus	Manual
MOD (Minimum Object Distance)	2.0 m
IR corrected	Yes
Available angles of view ¹⁰⁾ (H × V) at wide end	approx. 29° × 20° at D1 NTSC approx. 29° × 23° at D1 PAL approx. 34° × 20° at 720p approx. 26° × 15° at 1080p approx. 22° × 16° at 2MP approx. 28° × 21° at 3MP approx. 31° × 24° at 4MP approx. 35° × 26° at 5MP
Available angles of view ¹⁰⁾ (H × V) at tele end	approx. 6° × 4° at D1 NTSC approx. 6° × 5° at D1 PAL approx. 8° × 4° at 720p approx. 6° × 3° at 1080p approx. 5° × 3° at 2MP approx. 6° × 4° at 3MP approx. 7° × 5° at 4MP approx. 8° × 6° at 5MP

¹⁰⁾ All specifications ±5%. Minor deviations with lenses can be conditional of manufacturing and do not constitute a defect.

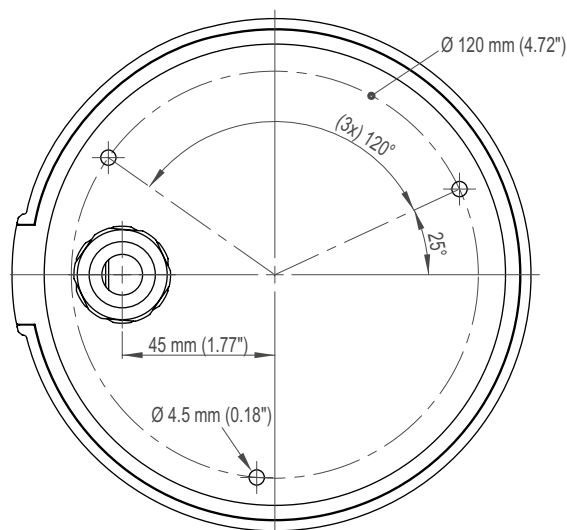
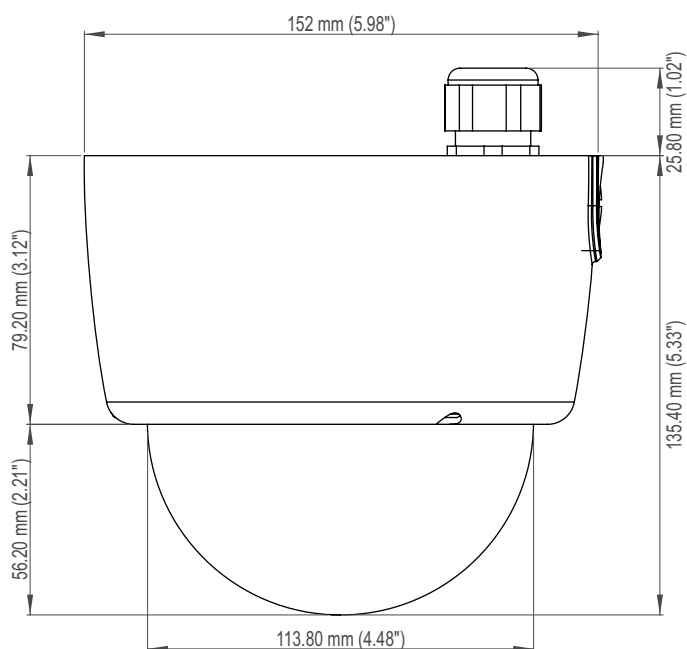
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Dimensions



In-ceiling mount variant



Surface mount variant