

# DDF4900HDV

IP Network Dome Camera, Vandal-resistant, 3-Megapixel, High-Definition, 1080p, Electr. Day/Night



**Available from stock**  
Variant: 000434.405

The ideal entry into the world of HD!

The **DDF4900HDV** is a **vandal-resistant 3-megapixel High-Definition** colour IP network dome camera. It provides real-time HD video in a compact and discrete dome enclosure with an integrated camera/lens combination. It utilizes Dallmeier's **Cam\_inPIX®** technology which provides for balanced picture quality under variable high contrast lighting conditions. Low-light, Slow Shutter and electronic Day/Night<sup>1)</sup> operation are all supported with varifocal lens options in support of the most demanding of surveillance conditions.

## Features

- 1/2.5" 5-megapixel CMOS image sensor with Cam\_inPIX® technology
- Pure Digital Signal Processing
- High light sensitivity of 1.6lux (at F1.0, 50IRE)
- Electronic Day/Night switching<sup>1)</sup>
- Comprehensive set of image optimization functions like AWB, AGC and Slow Shutter
- Resolution: SD (D1), HD (720p, 1080p, 2MP, 3MP)
- Video compression: H.264, MJPEG
- Frame rate up to 30fps
- Simultaneous Dual- or Tri-Streaming
- Motion detection with selectable sensitivity<sup>2)</sup>
- 3D Digital Noise Reduction (3D DNR)
- Alarm notification via FTP image upload<sup>2)</sup>
- Local video memory: SDHC card slot integrated<sup>2)</sup>
- Hybrid IP camera with analogue preview output
- Microphone input
- Voltage supply with 12V DC or via PoE (Class 0)
- Low power consumption (max. 4W)
- 3-axis adjustment
- Two available mounting variants: in-ceiling mount (IM) or surface mount (SM)
- Available with different lens types
- Compact vandal-resistant housing
- IP67 (surface mount variant)
- ONVIF compliant
- DIN EN 50130-4 compliant

Variants	
000433.403	<b>DDF4900HDV-IM</b> In-ceiling mount variant, F1.8 / 1.8–3 mm
000434.403	<b>DDF4900HDV-SM</b> Surface mount variant, F1.8 / 1.8–3 mm
000433.404	<b>DDF4900HDV-IM</b> In-ceiling mount variant, F1.5 / 9–40 mm
000434.404	<b>DDF4900HDV-SM</b> Surface mount variant, F1.5 / 9–40 mm
000433.405	<b>DDF4900HDV-IM</b> In-ceiling mount variant, F1.8 / 3.9–10 mm
000434.405	<b>DDF4900HDV-SM</b> Surface mount variant, F1.8 / 3.9–10 mm

Options	
000428	<b>Design Colours IM Cover Ring</b> Cover ring for in-ceiling mount variant according to RAL or Pantone colour chart
001044	<b>Tinted Bubble</b> For in-ceiling and surface mount variant, 4.5"
001431	<b>EvC-1</b> High-Speed Ethernet data transmission via coaxial cable
001678	<b>Power Supply Unit (110–240 V AC -&gt; 12V DC)</b> Universal power supply, 110–240 V AC to 12V DC, 850 mA, plug adapter EU/UK/US/AUS

1) The electronic Day/Night switching is not realised through a removable IR cut filter (ICR). Therefore, there is no increased sensitivity to infrared illumination in night mode.  
2) Function is in preparation.

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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	1.6 lux (F1.0, 50 IRE)
Dynamic Range	Max. 70 dB <sup>3)</sup>

### Functions

Day/Night switching	Electronic
B/W mode	Automatic (in Night mode)
Automatic shutter speed	1/30 s to 1/1000 s
3D Digital Noise Reduction (3D DNR)	On/Off
Brightness adjustment (ALC/AE)	Automatic/manual
Automatic gain control (AGC)	Yes
White balance	AWB (Automatic White Balance)
Motion detection <sup>4)</sup> (VMD)	With selectable sensitivity (5 levels)
Alarm notification <sup>4)</sup>	Via 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 standards	SDTV (PAL/NTSC), HDTV (SMPTE 296M, SMPTE 274M)
Resolution	SD (D1), HD (720p, 1080p, 2MP, 3MP)
Video compression	H.264, MJPEG
Frame rate	Up to 30 fps at D1 Up to 30 fps at 720p Up to 15 fps at 1080p Up to 15 fps at 2MP Up to 15 fps at 3MP (MJPEG)
Video bit rate	0.25–8 Mbps, CBR (constant bit rate) or VBR (variable bit rate)
Video streaming	Simultaneous Dual- or Tri-Streaming: H.264, MJPEG
Transfer format	Progressive (full image)
Transmission methods	Unicast, Multicast

### Miscellaneous

Video output	1× BNC (analogue CVBS video preview SD output, for local installation only)
Audio OUT (Mono) / Microphone IN (Mono)	1× 3.5 mm phone jack (for stereo plug) Mic IN: max. 63 mV (RMS), input resistance 10 kOhm, internal gain 20 dB
Local video memory	SDHC card slot integrated <sup>4)</sup>
Ethernet	1× RJ45, 10BASE-T-/100BASE-TX-PoE
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, FTP <sup>4)</sup> , SMTP <sup>4)</sup> , RTP, RTCP

### Electrical Data

Voltage supply	12V DC ±10%, PoE (Class 0)
PoE standard	IEEE 802.3af
Power consumption	Max. 4W

### Mechanical Data

Dimensions	In-ceiling mount variant: approx. Ø170 × H135 mm (Ø6.7 × H5.3 inches) Surface mount variant: approx. Ø153 × H135 mm (Ø6.0 × H5.3 inches)
Weight	In-ceiling mount variant: approx. 1200 g (2.6 lb) Surface mount variant: approx. 1100 g (2.4 lb)
Adjustment	3-axis
Colour	White (standard variant)
Bubble	Clear

### 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)
Relative humidity	0% – 90% RH, non-condensing
IP rating	IP67 (surface mount variant)

### Approvals/Certifications

Type	CE, UVV-Kassen, DIN EN 50130-4 compliant
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3) According to the sensor manufacturer's specifications

4) Function is in preparation.

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## Lens Types

Lens F1.8 / 3.9–10 mm	
Type	3-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 <sup>5)</sup> (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
Available angles of view <sup>5)</sup> (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

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 <sup>5)</sup> (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
Available angles of view <sup>5)</sup> (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

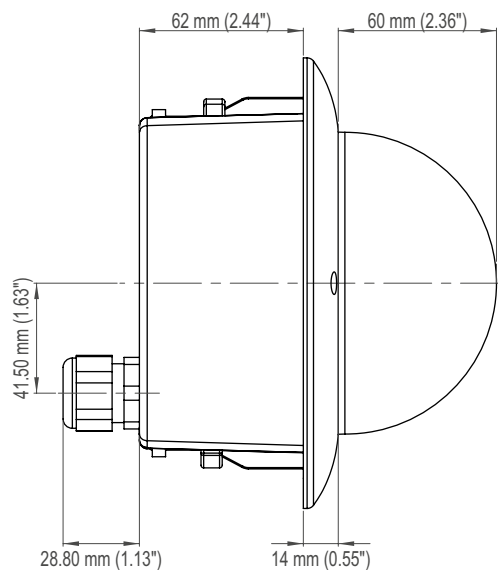
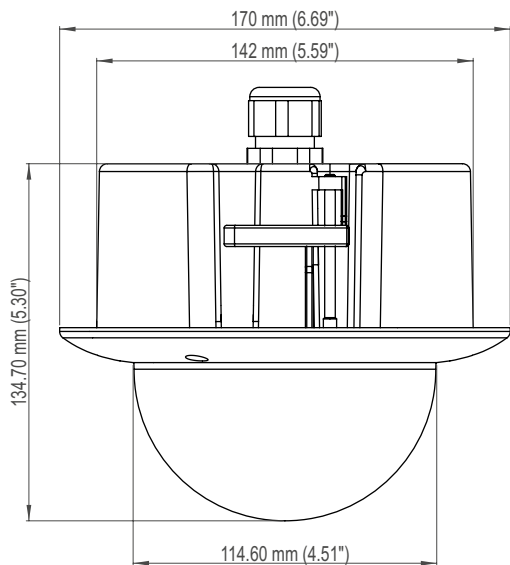
Ultra Wide-Angle Lens F1.8 / 1.8–3 mm	
Type	5-Megapixel varifocal lens
Format	1/2.5"
Mount	CS-mount
Focal length	1.8–3 mm
Iris range	F1.8–Closed
Iris control	DC auto iris
Zoom	Manual
Focus	Manual
MOD (Minimum Object Distance)	0.5 m
IR corrected	Yes
Available angles of view <sup>5)</sup> (H × V) at wide 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
Available angles of view <sup>5)</sup> (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

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

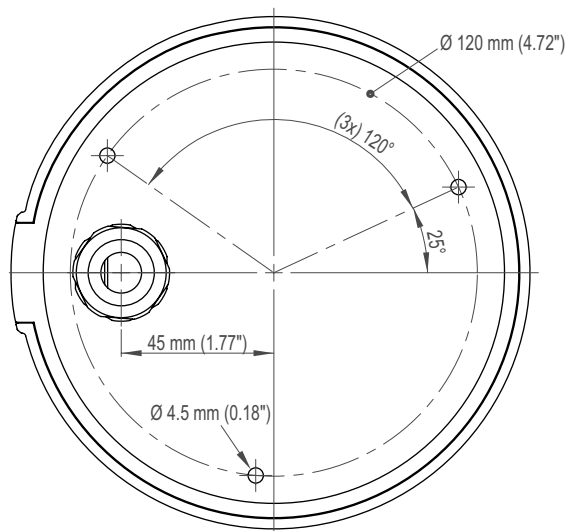
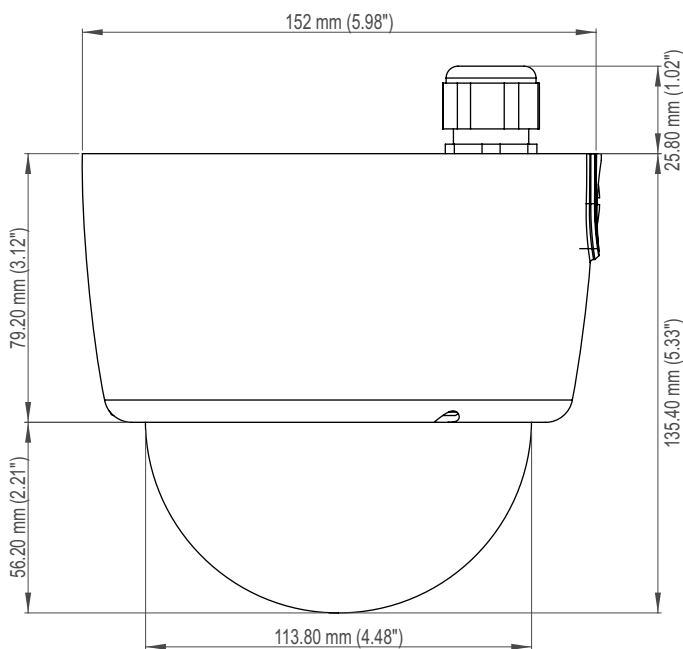
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## Dimensions



In-ceiling mount variant



Surface mount variant