

DF4510HD

IP Network Box Camera, 2-Megapixel, High-Definition, 720p/30, PoE



Available from stock

The ideal entry into the world of HD!

The **DF4510HD** is a **2-megapixel High-Definition** IP network box camera with **Dallmeier Cam_inPIX®** technology.

The camera provides **real-time HD video (720p/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, the camera features many other setting options, especially useful for demanding surveillance applications.

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 HD video (720p/30)
- High light sensitivity of 0.59 lux (at F0.95, 50 IRE)
- Resolution: SD (up to D1), HD (720p, 2MP)
- 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 Shift¹⁾
- Motion detection²⁾ with selectable sensitivity
- Alarm notification via DaVid protocol²⁾, e-mail and FTP image upload
- Local video memory: SDHC card slot integrated²⁾
- Hybrid IP camera with analogue preview output
- Audio OUT³⁾ / Microphone IN³⁾
- Voltage supply with 12V DC or via PoE (Class 0, IEEE 802.3af)
- Low power consumption (max. 4.5W)
- Different lens types optionally available
- Compact and lightweight housing
- ONVIF compliant
- DIN EN 50130-4 compliant

Variants

003482	DF4510HD IP network box camera, 2-megapixel, HD, 720p/30, PoE, grey, w/o lens
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Options

002946	Lens F1.8 / 3.9–10 mm 1/2", 5-megapixel, varifocal, Day/Night, DC auto iris, CS-mount
001602	Lens F1.8 / 1.8–3 mm Ultra wide-angle, 1/2.5", 5-megapixel, varifocal, Day/Night, DC auto iris, CS-mount
002907	Lens F1.5 / 9–40 mm Telephoto, 1/2.5", 5-megapixel, varifocal, Day/Night, DC auto iris, CS-mount
001431	EvC-1 High-Speed Ethernet data transmission via coaxial cable
001678	Power Supply Unit (110–240 V AC -> 12V DC) Universal power supply, 110–240V AC to 12V DC, 850 mA, plug adapter EU/UK/US/AUS
003694	Audio IN/OUT Y-Cable Connector FGA-30 3.5 mm stereo plug to 2x RCA jack incl. galvanic isolation

Mounting appliances

003952	Wall Mount Bracket Indoor (HD Box) Grey, 1/4" tripod screw, for HD box cameras
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1) Provides digital fine alignment of image section
 2) Function is in preparation.
 3) 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	0.59lux (F0.95, 50 IRE)
Dynamic Range	Max. 70 dB ⁴⁾
Functions	
Automatic Electronic Shutter (AES)	1/30–1/2500s (Auto Slow Shutter extends maximum exposure time to 1/5s 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 ⁵⁾	Yes
Motion detection ⁶⁾ (VMD)	With selectable sensitivity (5 levels)
Alarm notification	Via DaVid protocol (Dallmeier Video Protocol) to PGuard advance ⁶⁾ , 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 selected lens type (see "Lens Types" on page 3)</i>
Format and Encoding	
Video standard	SDTV (PAL/NTSC), HDTV (SMPTE 296M)
Resolution	SD (up to D1), HD (720p, 2MP)
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 15 fps at 2MP (MJPEG)
Video bit rate	0.25–10Mbps, 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	
Video output	1× BNC (CVBS, analogue SD video preview output, for local installation only)
Audio OUT (Mono) / Microphone IN (Mono)	1× 3.5mm phone jack (for stereo plug) ⁷⁾ Mic IN: max. 63mV (RMS), input resistance 10kOhm, internal gain 20dB SDHC card slot integrated ⁶⁾
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	Approx. W71 × H66 × L118 mm (W2.8 × H2.6 × L4.6 inches) w/o lens
Weight	Approx. 300g (0.7lb)
Colour	Grey
Environmental Conditions	
Operating temperature	–10°C to +45°C (14°F to 113°F)
Relative humidity	0% – 90% RH, non-condensing
Approvals/Certifications	
Type	CE, FCC, ACA, UVV-Kassen, DIN EN 50130-4 compliant

4) According to the sensor manufacturer's specifications
 5) Provides digital fine alignment of image section
 6) Function is in preparation.
 7) 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 ⁸⁾ (H × V) at wide end	approx. 62° × 44° at D1 NTSC approx. 62° × 52° at D1 PAL approx. 71° × 44° at 720p approx. 48° × 37° at 2MP
Available angles of view ⁸⁾ (H × V) at tele end	approx. 26° × 18° at D1 NTSC approx. 26° × 21° at D1 PAL approx. 31° × 18° at 720p approx. 20° × 15° at 2MP

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 ⁸⁾ (H × V) at wide end	approx. 29° × 20° at D1 NTSC approx. 29° × 23° at D1 PAL approx. 34° × 20° at 720p approx. 22° × 16° at 2MP
Available angles of view ⁸⁾ (H × V) at tele end	approx. 6° × 4° at D1 NTSC approx. 6° × 5° at D1 PAL approx. 8° × 4° at 720p approx. 5° × 3° at 2MP

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 ⁸⁾ (H × V) at wide end	approx. 105° × 82° at D1 NTSC approx. 105° × 93° at D1 PAL approx. 114° × 82° at 720p approx. 88° × 72° at 2MP
Available angles of view ⁸⁾ (H × V) at tele end	approx. 76° × 55° at D1 NTSC approx. 76° × 64° at D1 PAL approx. 86° × 55° at 720p approx. 60° × 47° at 2MP

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

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Dimensions

