

DF4900HD-DN/IR

IP Network Box Camera, 3-Megapixel, High-Definition, 1080p, Day/Night, IR Illumination, Weather-proof



Available as of June 2011



The **DF4900HD-DN/IR** is a **weather-proof 3-megapixel High-Definition Cam_inPIX®** colour IP network box camera with automatic **Day/Night** switching and integrated **IR (infrared) illumination**.

Features

- 5-megapixel CMOS image sensor with Cam_inPIX® technology
- Pure Digital Signal Processing
- Minimum illumination 0 lux (with IR LED On)
- Automatic Day/Night switching supported by integrated ambient light sensing
- Homogeneous IR (infrared) illumination by semi-covert 850 nm high power LEDs
- IR illumination range up to approx. 15 m with a beam angle up to approx. 50°
- Adjustable intensity of infrared illumination and Day/Night switching threshold level
- 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 30 fps
- Simultaneous Dual- or Tri-Streaming
- Megapixel varifocal lens (Day/Night): F1.0 / 2.8–11 mm
- Motion detection¹⁾
- 3D Digital Noise Reduction (3D DNR)
- Digital Image Shift²⁾
- Integrated microphone³⁾
- Alarm notification via FTP image upload¹⁾
- Local video memory: SDHC card slot integrated¹⁾
- Wall mount bracket for outdoor installation with internal cable routing
- Voltage supply via PoE (Class 0)
- ONVIF compliant
- DIN EN 50130-4 compliant

1) Function is in preparation.

2) Provides digital fine alignment of image section.

3) Not supported in the current version.

Variants

Item number

002757.401	DF4900HD-DN/IR Box camera, High-Definition, 1080p, Day/Night, IR illumination, weather-proof, wall mount bracket, PoE
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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	IR LED On: 0 lux IR LED Off: 1.6 lux (F1.0, 50 IRE) Max. 70 dB ⁴⁾
Dynamic range	

Functions

Day/Night switching	Mechanical ICR ⁵⁾ function
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 ⁶⁾ (VMD)	With selectable sensitivity (5 levels)
Alarm notification ⁶⁾	Via FTP image upload
Digital Image Shift	Yes
Configuration	Via web browser
Languages	English, German, French, Spanish, Italian

Lens

Type	Megapixel varifocal lens (Day/Night): F1.0 / 2.8–11 mm
Iris control	DC auto iris
Angle of view ⁷⁾ (H×V) at wide end	approx. 58° × 46° at D1 approx. 82° × 46° at 720p approx. 82° × 46° at 1080p approx. 68° × 51° at 2MP approx. 73° × 55° at 3MP
Angle of view ⁷⁾ (H×V) at tele end	approx. 31° × 24° at D1 approx. 26° × 14° at 720p approx. 26° × 14° at 1080p approx. 22° × 16° at 2MP approx. 29° × 21° at 3MP

IR Illumination

Type	Semi-covert 850 nm high power LEDs
IR intensity	Adjustable
Photocell	Adjustable Day/Night switching threshold level
Range	Up to approx. 15 m
Beam angle	Homogeneous illumination up to approx. 50°

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

Microphone	Integrated ⁸⁾
Local video memory	SDHC card slot integrated ⁶⁾
Ethernet	1× RJ45, 10BASE-T-/100BASE-TX-PoE
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, RTSP, IGMP V2, FTP ⁶⁾ , SMTP ⁶⁾ , RTP, RTCP

Electrical Data

Voltage supply	PoE (Class 0)
PoE standard	IEEE 802.3af
Power consumption	Max. 12.95 W

Mechanical Data

Dimensions	See technical drawings
Weight	Approx. 2 kg (4.41 lb)

Environmental Conditions

Operating temperature	–30°C to +50°C (–22°F to 122°F)
Humidity	0%–90% RH, non-condensing
IP rating	IP66

Approvals/Certifications

Type	CE, FCC, ACA, DIN EN 50130-4 compliant
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4) According to the sensor manufacturer's specifications

5) ICR=IR Cut Filter Removable

6) Function is in preparation.

7) The specifications (±5%) are based on a field of view without vignetting. Minor deviations with lenses can be conditional of manufacturing and do not constitute a defect.

8) Not supported in the current version.

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Dimensions

