

DF5200HD-DN/IR

Nightline

HD Camera, 2 MP, Full HD, 1080p/30, H.264, Day/Night (ICR), Integrated IR Illumination, Motor-driven Varifocal Lens, One-Push Autofocus, P-Iris, PoE, Outdoor Wall Mount Bracket



The cameras of the **DF5200HD series** have been developed with special attention to changing light conditions for **24-hour video surveillance**. The combination of the most **advanced sensor and encoder technology** results in recordings with excellent contrast, brilliant clarity as well as **highest detail resolution and color fidelity**, even in low light conditions.

Excellent Low-Light characteristics

The **extremely high light sensitivity** of the sensor and the sophisticated **image processing** ensure crisp **color images** even in the dark. In night mode, the camera also provides outstanding results due to the **excellent infrared sensitivity**.

Automatic switching of presets

The camera is equipped with an **ambient light sensor** and a **removable IR cut filter** and can automatically switch between **day and night mode**. In addition, **different day and night presets** for the exposure settings can be defined and adjusted.

Integrated homogeneous IR illumination

The automatic Day/Night operation is supported by the **integrated homogeneous IR illumination** provided by semi-covert 850 nm **high power LEDs**. The camera thus meets the most demanding of surveillance conditions.

Motor-driven varifocal lens

The camera has a **motor-driven megapixel varifocal lens** that is perfectly tuned to the image sensor. The adjustment of zoom, focus and iris is made conveniently using a web browser. The manual lens setting directly at the installation site of the camera is not required.

High speed streaming

The camera delivers an **HD video stream** at a frame rate of 30fps (1080p/30). In connection with the **optional HSS Board¹⁾** the camera can be equipped for a frame rate of **up to 120 fps at full resolution (1080p/120)**. Ideal for all applications that require the capture of very fast movements in high resolution.

EdgeStorage

The camera is equipped with a **RAM memory** that is used by the **EdgeStorage** function for storing the video stream in case of a network failure. When the network is restored, the **SmartBackfill** function ensures a fast transmission to the **SMAVIA recording system**. This stores the video stream with high speed and then continues the recording of the live stream seamlessly.

Built into an **IP66-rated weather-proof enclosure**, the camera is designed for both indoor and for outdoor applications. The camera is operated via **Power over Ethernet (PoE Class 0, IEEE 802.3af)** which allows for an easy, quick and cost-effective cabling and commissioning.

Further Features

- 1/1.9" Full HD CMOS image sensor
- IR illumination range up to 25 meters with a beam angle up to 50°
- Adjustable IR intensity and Day/Night switching threshold level
- Minimum illumination 0 lux (with IR LED On)
- Precise iris control
- Memory expansion with microSDXC card
- Gigabit Ethernet interface
- Video compression H.264, MJPEG
- Simultaneous Dual-, Tri- or Quad Streaming
- Digital Image Shift²⁾
- Privacy Zone Masking
- Digital flip function
- Wide Dynamic Range (WDR)
- 3D Digital Noise Reduction (3D DNR)
- Alarm notification via DaVid Protocol, e-mail and FTP image upload³⁾
- EdgeStorage for Emergency Recording with SmartBackfill
- Outdoor wall mount bracket (with internal cable routing)

1) High Speed Sensor Board: The sensor board will be fitted and calibrated ex factory. Field replacement is not possible. Available as of Q1 2016.
 2) Image shift for horizontal and vertical fine alignment of the image section at 16:9 resolutions (horizontal at 4:3 resolutions).
 3) Function in preparation

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Variants/Options



Variants

005439.409 DF5200HD-DN/IR
HD camera, 2 MP, Full HD, 1080p/30, H.264, day/night (ICR), integrated IR illumination, motor-driven varifocal lens, one-push autofocus, P-Iris, PoE, outdoor wall mount bracket, F1.6 / 4,5–10 mm

Power Supply

004316



PoE Midspan 30 W

Midspan power supply unit, 1× Ethernet port, 10/100/1000Base-T, 802.3at, 802.3af, 30 W

Wall Mount

004386



WCPA – Support Plate Adapter⁴⁾

Reinforcing support plate WCPA for adapting the wall brackets WBMA, WBOVA2 and IR housing wall mount bracket

Corner Mount

004390



WCWA – Corner Mount Adapter⁴⁾

Corner mount adapter WCWA for corner mounting

Pole Mount 65–110 mm

004387



WSFPA – Pole Mount Adapter⁴⁾

Pole mount adapter WSFPA for pole diameters 65–110 mm (2.6–4.3")

Pole Mount 210–225 mm

004386



WCPA – Support Plate Adapter⁴⁾

Reinforcing support plate WCPA for adapting the wall brackets WBMA, WBOVA2 and IR housing wall mount bracket

004388



DBHWGC – Pole Mount Adapter⁴⁾

Pole mount adapter DBHWGC for pole diameters 210–225 mm (8.3–8.6")

⁴⁾ Note: The color of this mounting accessories (gray-white) differs from that of the IR camera / wall mount bracket (white).

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Specifications

Sensor	
Type	1/1.9" 2.3 megapixel Full HD CMOS image sensor
Number of sensor pixels	2 MP
Signal processing	Pure Digital Signal Processing
Image capture	Progressive Scan
Sensor sensitivity	IR LED OFF: 0.002lux (F1.6, AGC ON) IR LED On: 0lux
Dynamic range	94 dB
Signal to noise ration (SNR _{MAX})	> 50 dB

Functions	
Day/Night switching	Ambient light sensing and removable IR cut filter (ICR), switching threshold level adjustable
Black-and-white mode	Automatic (at low light or in night mode) ⁵⁾ , On, Off
Automatic Electronic Shutter	1/1 – 1/8000 s
Slow Shutter Limit	1/1 – 1/1000 s
Lens control	Zoom control (Tele – Wide), Focus control (Far – Near, One-Push AF), Iris control (P-Iris) via web browser
Digital flip function	Horizontal, vertical or both axes
Digital Image Shift	Horizontal and vertical at 16:9 resolutions, horizontal at 4:3 resolutions
Digital Noise Reduction	3D-DNR (adjustable by 10 levels)
Exposure presets	Universal, Indoor, Fluorescent, Casino, Low-Light, User-Defined (with automatic day/night switching)
Exposure compensation	-2 EV (Exposure Value) to + 2 EV (adjustable by 200 levels)
Exposure metering	Average metering (light information from entire scene), center-weighted average metering, spot metering
Brightness adjustment	Automatic (ALC), Manual
Gain control	Automatic (AGC) with adjustable Gain Limit
White balance	Auto: ATW (Auto Tracking White Balance), One-Push AWB (Automatic White Balance) Fixed: 2800K, 4000K, 5000K, 6500K and 7500K
Privacy Zone Masking	Hiding/masking of any number of protected areas (up to 100% of the entire image)
Alarm notification ⁶⁾	Via DaVid protocol (Dallmeier Video Protocol) to PGuard advance, E-Mail, FTP image upload
Alarm trigger ⁶⁾	Contact IN status change, Contact OUT remote status change (via DaVid protocol), Application restart
Configuration and live video	Via web browser (all major platforms)
Languages	German, English

5) Without color information, or rather in black-and-white mode, the image quality in low light conditions will be much clearer (e. g. less color noise).

6) Function in preparation

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Specifications (Continuation)

Format and Encoding	
Video standard	SDTV (PAL/NTSC) HDTV (SMPTE 296M, SMPTE 274M)
Resolution – video over IP	Standard: 1920 × 1080 (1080p) @ 25/30 fps 1440 × 1080 @ 25/30 fps 1280 × 960 @ 25/30 fps 1280 × 720 (720p) @ 25/30 fps 1280 × 720 (720p) @ 50/60 fps ⁷⁾ 640 × 480 (480p, anamorphic) @ 25/30 fps With HSS Board ⁹⁾ : 1920 × 1080 (1080p) @ 120 fps 1440 × 1080 @ 120 fps 1280 × 960 @ 120 fps 1280 × 720 (720p) @ 120 fps 640 × 480 (480p) @ 120 fps
Aspect ratio – video over IP	16:9 (480p, 720p, 1080p) 4:3 (1280 × 960, 1440 × 1080)
Video compression	H.264, MJPEG
Frame rate	Up to 120 fps ⁹⁾
Video bit rate	1 – 8 Mbit/s, CBR (constant bit rate), VBR (variable bit rate), each with priority setting for image quality ⁸⁾
Video streaming	Simultaneous Dual-, Tri- or Quad-Streaming
Transfer format	Progressive (full image)
Audio compression	G.711
Audio bit rate	64 kbit/s
Live streaming transmission method	Unicast, Multicast
Number of live streams	Up to 5 different streams with up to 8 Mbit/s simultaneously

Protocols	
Ethernet protocols	IPv4, TCP, UDP, HTTP, RTP, RTCP, IGMP V2/V3, ICMP, ICMP V6, RTSP, ARP, NTP,
Ethernet protocols in preparation	HTTPS, DHCP, SMTP, SOAP, LDAP, IPv6, FTP, 802.1x, DNS, DNS V6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), UPnP (SSDP), DiffServ (QoS), LLDP
SNMP support in preparation	SNMP v1

Connections	
Power&Ethernet	1× RJ45, 10BASE-T/100BASE-TX PoE/1000BASE-T PoE

IR Illumination	
Type	Semi-covert 850 nm high power LEDs
IR intensity	Adjustable
Photocell	Adjustable Day/Night switching threshold level
Range	Up to approx. 25 m
Beam angle	Homogeneous illumination up to approx. 50°

7) Software update in preparation

8) If the total available bit rate is not sufficient, not the image quality but the number of frames is adjusted.

9) High Speed Sensor Board: The sensor board is fitted and calibrated ex factory. Field replacement is not possible. Available as of Q1 2016.

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Specifications (Continuation)

Miscellaneous	
Ambient light sensor	Integrated
Microphone	Integrated
Local memory	50 MB RAM memory
Memory extension	microSDXC card (64 GB – 2 TB, UHS II) ¹⁰⁾
Programming interface	Open platform for integration into 3rd party systems using API and ActiveX ¹¹⁾
ONVIF compliance	Profile S ¹²⁾

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
Color	White
Adjustment	2-axes
IP rating	IP66

Environmental Conditions	
Operating temperature	-40°C to +50°C (-40°F to 122°F), minimum start-up temperature: -30°C (-22°F)
Relative humidity	0% – 90% RH, non-condensing

Approvals/Certifications	
Type	CE, FCC, ACA, UL, DIN EN 50130-4 compliant

Lens	
Type	Motor-driven varifocal lens
Format	1/1.8"
Mount	Board Lens
Focal length	4.5 – 10 mm
Iris range	F1.6 – Closed
Iris control	P-Iris (motor-driven)
Zoom control	Motor-driven
Focus control	Motor-driven
MOD (Minimum Object Distance)	0.3 m
IR corrected	Yes
Available angles of view ¹³⁾ (H × V) at wide end	87° × 48° @ 480p, 720p, 1080p (Digital Image Shift = off) 80° × 44° @ 480p, 720p, 1080p (Digital Image Shift = on) 64° × 48° @ 1280 × 960, 1440 × 1080
Available angles of view ¹³⁾ (H × V) at tele end	46° × 26° @ 480p, 720p, 1080p (Digital Image Shift = off) 43° × 24° @ 480p, 720p, 1080p (Digital Image Shift = on) 35° × 26° @ 1280 × 960, 1440 × 1080

10) The installation of the memory card should be done by a certified Dallmeier service partner.

11) ActiveX is a trademark or registered trademark of Microsoft Corporation headquartered in Redmond, Washington, USA

12) Function in preparation

13) All specifications ±5%. Minor shadowing (vignetting) may occur at extreme wide end due to the construction and do not constitute a defect.

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Dimensions

