Primeline

High Definition Camera, 2/4 MP, 1080p/60, H.264, H.265, Day/Night (ICR), HDR, Motor-driven Varifocal Lens, PoE, Dome Housing



The cameras of the **Primeline series** offer an economical and balanced **compromise between** the extreme characteristics of the **Nightline and Topline** series. Having a **very good light sensitivity**, the high-resolution image sensor provides **detailed color images** even under low light conditions. The combination of the **most advanced encoder technology** and the **sophisticated image processing** results in **real-time recordings with high resolution** at excellent contrast, brilliant clarity and highest color fidelity.

#### **Resolution and frame rate**

The high resolution of the sensor and the sophisticated image processing allow for real-time recordings with a frame rate of 60 fps (1080p/60) or, depending on the variant, with up to 30 fps at a resolution of 4 MP. Thus, the camera is ideal for all applications that require the capture of very fast movements in high resolution.

#### 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** can be defined and adjusted for the exposure settings.

#### Motor-driven varifocal lens with P-Iris

The camera has a **motor-driven 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.

#### **Digital Image Shift**

The **Digital Image Shift** function allows **digital fine alignment of the image section** for all resolutions below 4 MP, **using a web browser** for a convenient final adjustment. This ensures a quick and easy installation of the camera.

#### Video Content Analysis

The integrated Video Content Analysis (VCA) detects movements and objects in the uncompressed image and analyzes them in realtime (depending on the analysis resolution) with highly developed analysis functions such as Intrusion Detection or Line Crossing. The detected events can be used to trigger the recording of a SMAVIA recording system. Together with the detected objects and the corresponding metadata, they are stored in a database. This allows the targeted search and evaluation of the recordings by SMAVIA Viewing Client with the SmartFinder function.

#### EdgeStorage

The camera is equipped with a **RAM memory** that is used by the **EdgeStorage** function to store the video stream in case of a network failure (e.g. Spanning Tree, Bursts). When the network is restored, the **SmartBackfill** function ensures fast transmission to the **SMAVIA recording system**. This stores the video stream with high speed and then continues to record the live stream seamlessly.

#### **Further features**

- 1/3" 4 MP HD CMOS image sensor
- High light sensitivity 0.05 lux
- Memory expansion with microSDXC card
- Video compression H.264, H.265, MJPEG
- Privacy Zone Masking
- Digital flip function
- High Dynamic Range (HDR)
- 3D Digital Noise Reduction (3D-DNR)
- Voltage supply with PoE (Class 0)

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## High Definition Camera, 2/4MP, 1080p/60, H.264, H.265, Day/Night (ICR), HDR, Motor-driven Varifocal Lens, PoE, Dome Housing

HDV In-Ceiling Variants					
006607.414		DDF5120HDV-DN-IM High Definition Camera, 2 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, in-ceiling mount variant, F1.4 / 3 – 10 mm			
006607.415		DDF5120HDV-DN-IM High Definition Camera, 2MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, in-ceiling mount variant, F1.8 / 12 – 40 mm			
006599.414		DDF5140HDV-DN-IM High Definition Camera, 4 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, in-ceiling mount variant, F1.4 / 3 – 10 mm			
006599.415		DDF5140HDV-DN-IM High Definition Camera, 4 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, in-ceiling mount variant, F1.8 / 12 - 40 mm			
HDV Sur	face Variants				
006608.414	2	DDF5120HDV-DN-SM High Definition Camera, 2 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, surface mount variant, F1.4 / 3 – 10 mm			
006608.415		DDF5120HDV-DN-SM High Definition Camera, 2 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, surface mount variant, F1.8 / 12 – 40 mm			
006600.414	200	DDF5140HDV-DN-SM High Definition Camera, 4 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, surface mount variant, F1.4 / 3 – 10 mm			
006600.415	2.	DDF5140HDV-DN-SM High Definition Camera, 4 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, dome housing, surface mount variant, F1.8 / 12 - 40 mm			
HD Surfa	ace Variants (In	ndoor)			
006927	0	DDF5120HD-DN-SM (Indoor) High Definition Camera, 2 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, indoor dome housing, surface mount, F1.4 / 3 – 10 mm			
006928	0	DDF5140HD-DN-SM (Indoor) High Definition Camera, 4 MP, 1080p/60, H.264, H.265, day/night (ICR), HDR, motor-driven varifocal lens, PoE, indoor dome housing, surface mount E14 ( 3, 10 mm			

surface mount, F1.4 / 3 – 10 mm

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## High Definition Camera, 2/4MP, 1080p/60, H.264, H.265, Day/Night (ICR), HDR, Motor-driven Varifocal Lens, PoE, Dome Housing

Extensi	ion for HDV Varia	ants
006612		Interface Board Series 5100 <sup>1)</sup> 1× audio IN, 1× audio OUT, 1× serial interface RS485 (full duplex, half duplex), 2× contact IN, 2× contact OUT, Power supply 12 V DC, ex factory only (for HDV variants)
Access	ories	
006050		Tinted Bubble 4.5" For in-ceiling and surface mount variant, 4.5" (for HDV variants)
001041		<b>Tinted Bubble 4.0"</b> For surface mount variant, 4" (for indoor HD variants)
001678	0	Power Supply Unit (110-240V AC -> 12V DC) Universal power supply, 110-240V AC to 12V DC, 850 mA, plug adapter EU/UK/US/AUS (for HDV variants)
004316		<b>PoE Midspan 30 W</b> Midspan power supply unit, 1× Ethernet port, 10/100/1000Base-T, 802.3af, 802.3af, 30 W
005017	9	Wall Mount Bracket (SM Housing) Wall mount bracket with seals and internal cable routing, for HDV dome surface-mount housing (152 mm)

1) The interface is fitted and calibrated ex factory. Field fitting or replacement is not possible.

High Definition Camera, 2/4 MP, 1080p/60, H.264, H.265, Day/Night (ICR), HDR, Motor-driven Varifocal Lens, PoE, Dome Housing

Sensor			
Туре	1/3" CMOS		
Number of sensor pixels	4MP (2688 × 1520)		
Light sensitivity	<0.05lux		
Dynamic range	> 100 dB		
Signal to noise ration	> 50 dB		
Lens F1.4 / 3 - 10 mm	DDF5120HDV-DN and DDF5120HD-DN (Indoor)	DDF5140HDV-DN and DDF5140HD-DN (Indoor)	
Туре	Motor-driven varifocal lens		
Format / Mount	1/3" Board Lens		
Focal length	3 – 10 mm		
Iris range	F1.4 - Closed		
Iris control	P-Iris (motor-driven)		
Zoom / Focus control	Motor-driven		
Minimum object distance	0.5 m		
IR corrected	Yes		
Available angles of view $^{2)}$ (H $\times$ V) at wide end	Approx. 59°x44° @ 1.5 MP (1440 × 1080) Approx. 52°x39° @ 1.2 MP (1280 × 960)	Approx. 84°x 62° @ 3 MP (2016 × 1504) Approx. 59°x 44° @ 1.5 MP (1440 × 1080)	
	Approx. 116° x 62° @ 1080p (1920 × 1080) @ 720p (1280 × 720)	Approx. 52° x 39° @ 1.2 MP (1280 × 960) Approx. 116° x 62° @ 4 MP (2688 × 1512)	
		@ 1080p (1920 × 1080) @ 720p (1280 × 720)	
Available angles of view <sup>2)</sup> (H $\times$ V) at tele end	Approx. 18° x13° @ 1.5 MP (1440 × 1080) Approx. 16° x12° @ 1.2 MP (1280 × 960) Approx. 32° x19° @ 1080p (1920 × 1080) @ 720p (1280 × 720)	Approx. 25°x19° @ 3 MP (2016 × 1504) Approx. 18°x13° @ 1.5 MP (1440 × 1080) Approx. 16°x12° @ 1.2 MP (1280 × 960)	
		Approx. 32°x19° @ 4MP (2688 × 1512)	
		@ 1080p (1920 × 1080) @ 720p (1280 × 720)	
Lens F1.8 / 12 - 40 mm	DDF5120HDV-DN	DDF5140HDV-DN	
Туре	Motor-driven varifocal lens		
Format / Mount	1/3" Board Lens		
Focal length	12 - 40 mm		
Iris range	F1.8 – Closed		
Iris control	P-Iris (motor-driven)		
Zoom / Focus control	Motor-driven		
Minimum object distance	2.5m		
IR corrected	Yes		
Available angles of view <sup>2)</sup> (H $\times$ V)	Approx. 13°x10° @ 1.5 MP (1440 × 1080)	Approx. 18°x14° @ 3MP (2016 × 1504)	
at wide end	Approx. 12° x 9° @ 1.2 MP (1280 × 960)	Approx. 13° x10° @ 1.5 MP (1440 × 1080) Approx. 12° x9° @ 1.2 MP (1280 × 960)	
	Approx. 25° x14° @ 1080p (1920 × 1080) @ 720p (1280 × 720)	Approx. 25° x 14° @ 4 MP (2688 × 1512)	
		@ 1080p (1920 × 1080) @ 720p (1280 × 720)	
Available angles of view <sup>2)</sup> (H $\times$ V)	Approx. 5° x 3° @ 1.5 MP (1440 × 1080)	Approx. 6°x 5° @ 3 MP (2016 × 1504)	
at tele end	Approx. 4° x 3° @ 1.2 MP (1280 × 960)	Approx. 5°x3° @ 1.5 MP (1440 × 1080) Approx. 4°x3° @ 1.2 MP (1280 × 960)	
	Approx. 9°x 5° @ 1080p (1920 × 1080)		

 $\begin{array}{c} \mbox{Approx.} 9^{\circ}x5^{\circ} @ 4\,\mbox{MP} \ (2688 \times 1512) \\ @ 1080p \ (1920 \times 1080) \\ @ 720p \ (1280 \times 720) \end{array}$ 

2) All specifications ±5%. Minor deviations with lenses may be a result of manufacturing tolerances and do not constitute a defect.

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@ 720p (1280 × 720)

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Format and Encoding	DDF5120HDV-DN and DDF5120HD-DN (Indoor)	DDF5140HDV-DN and DDF5140HD-DN (Indoor)	
Video standard	SDTV (PAL/NTSC) HDTV (SMPTE 296M, SMPTE 274M)		
Resolution 4:3	1.5 MP (1440 × 1080) @ 50/60 fps 1.2 MP (1280 × 960) @ 50/60 fps 640 × 480, 320 × 240 @ 50/60 fps	3 MP (2016 × 1504) @ 25/30 fps 1.5 MP (1440 × 1080) @ 50/60 fps 1.2 MP (1280 × 960) @ 50/60 fps 640 × 480, 320 × 240 @ 50/60 fps	
Resolution 16:9	1080p (1920 × 1080) @ 50/60 fps 720p (1280 × 720) @ 50/60 fps 640 × 480, 640 × 368, 480 × 272, 320 × 240 @ 50/60 fps	4MP (2688 × 1512) @ 25/30fps 1080p (1920 × 1080) @ 50/60fps 720p (1280 × 720) @ 50/60fps 640 × 480, 640 × 368, 480 × 272, 320 × 240 @ 50/60fps	
Video compression	H.264, H.265, MJPEG		
Frame rate	Up to 60 fps		
Video bit rate	1–12 Mbps, CBR (constant bit rate), VBR (variable bit rate), with priority setting for image quality $^{ m 3)}$		
Video streaming	Up to 4 streams with different settings simultaneously		
Audio compression <sup>4)</sup>	G.711		
Audio bit rate <sup>4)</sup>	64 kbps		
Live streaming transmission method	Unicast, Multicast		
Number of live streams / clients	Up to 4 streams with up to 12 Mbps simultaneously		
Functions			
Day/Night switching	Ambient light sensing and removable IR cut filter (ICR), switc	hing threshold level adjustable	
Black-and-white mode	Automatic (at low light or in night mode), On, Off		
Automatic Electronic Shutter	1/1-1/8000s		
Slow Shutter Limit	1/1-1/1000s		
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 all resolutions below 4MP		
Digital Noise Reduction	3D-DNR (adjustable by 10 levels)		
Exposure presets	Universal, Indoor, Outdoor, 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 (A Fixed: 2800K, 4000K, 5000K, 6500K and 7500K	Automatic White Balance)	
Privacy Zone Masking	Hiding/masking of up to 16 protected areas (up to 100% of the	e entire image)	
Alarm notification	Via DaVid protocol to PGuard advance, via E-Mail and FTP in	nage upload in preparation	
Alarm trigger	Application restart, EdgeStorage status		
Video Content Analysis <sup>5)</sup>	Intrusion Detection (detection of access to a defined area) Line Crossing (detection of a virtual line crossing) Tamper Detection (detection of manipulations on the camera Object Classification (classification of objects) Face Detection (detection of faces) <sup>6)</sup>	)	
Protocols			
Ethernet protocols	IPv4 (ARP, ICMP, IGMPv2/IGMPv3), UDP, TCP, LLDP, CDP (v1,v2), DSCP (QoS), DNS, DHCP, NTP, HTTP/HTTPS, RTSP/RTP/RTCP, SNMP (v1, v2c, v3)		
Ethernet protocols in preparation	IPv6 (NDP, ICMPv6, MLDv1/MLDv2, SLAAC, RDNSS), UDPv6, TCPv6, DNSv6, DHCPv6, LDAP		
Communication protocols	DaVid, DaVidS, ONVIF Profile S, SNMP (v1, v2c, v3)		

If the total available bit rate is not sufficient, not the image quality but the number of frames is adjusted. Only for HDV variants in connection with the optional Interface Board Series 5100 (006612). 3)

4)

5) 6) Depending on the CPU load.

Security

The function detects the presence of a face (Face Detection). The analysis of visible features and the link to person data (Face Recognition) are not supported.

HTTPS encryption, SSL/TLS 1.2 (AES), network access control according to IEEE 802.1X

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Connections					
Video preview output <sup>7)</sup>	1× BNC (CVBS, 1.0 V <sub>p-p</sub> , 75 Ω), 704 × 5	576 @50 Hz, 704 × 480 @60 Hz (4:3)			
Audio Line IN <sup>8)</sup>	1× 3.5mm phone jack for stereo plug Input level: max. 2.83 V <sub>P-P</sub> Input impedance: 29 kΩ				
Audio Line OUT <sup>8)</sup>	1× 3.5 mm phone jack for stereo plug Output level at 10 kΩ load: max. 3.11 V $_{\rm p-p}$ Output impedance: 320 Ω				
Ethernet	1× RJ45, 10BASE-T/100BASE-TX PoE	1× RJ45, 10BASE-T/100BASE-TX PoE			
Serial interface <sup>8)</sup>	1× RS485 (half duplex and full duple>	1× RS485 (half duplex and full duplex)			
Contact I/O interface <sup>8)</sup>	2× Contact IN 2× Contact OUT				
Power IN <sup>8)</sup>	1× Weidmüller male connector SL 3.8	1× Weidmüller male connector SL 3.50/02/90G (mating connector Weidmüller BL 3.50/02/180 SN)			
Electrical Data					
Voltage supply	12 V DC <sup>8)</sup> PoE (Class 0)				
PoE standard	IEEE 802.3af				
Power consumption	Approx. 6 W				
Mechanical Data	HDV In-Ceiling Variants	HDV Surface Variants	HD Surface Variants (Indoor)		
Dimensions	Approx. Ø 170 × H 135 mm Ø 6.7 × H 5.3 inches	Approx. Ø 152 × H 133 mm Ø 6.0 × H 5.3 inches	Approx. Ø 149 × H 124 mm Ø 6.0 × H 4.9 inches		
Weight	Approx. 1200 g 2.6 lb	Approx. 1100 g 2.4 lb	Approx. 700 g 1.5 lb		
Adjustment	3-axes				
Bubble	Clear (with black inner liner)				
Construction material	Aluminium		ABS polymer		
Vandal-resistant	Yes				
IK protection	IK10 (up to 20 joules)				
IP rating		IP67			
Color	Black with white housing ring	White	White		
Environmental Conditions					
Operating temperature	-20°C to +50°C (-4°F to 122°F)				
Relative humidity	0%–90% RH, non-condensing				
Miscellaneous					
Ambient light sensor	Integrated				
Local memory	50 MB RAM memory	-			
Memory extension	microSDXC 64 GB, Class 10, UHS-I (optional)				
Configuration and live video	Via web browser (all major platforms	Via web browser (all major platforms)			
Languages	German, English	German, English			
Programming interface	Open platform for integration into 3rd party systems using API and ActiveX <sup>9)</sup>				
ONVIF compliance	mpliance Profile S				
Approvals/Certifications					
Туре	CE, FCC, RCM, UL, DIN EN 50130-4	compliant			

Only for HDV variants, not provided for HD variants (Indoor). Function not available if Video Content Analysis (VCA) is activated. Only for HDV variants in connection with the optional Interface Board Series 5100 (006612). ActiveX is a trademark or registered trademark of Microsoft Corporation headquartered in Redmond, Washington, USA 7) 8) 9)

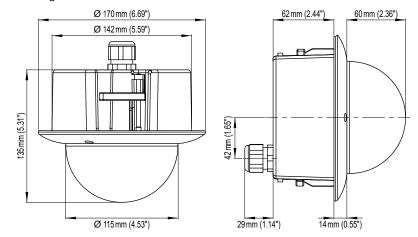
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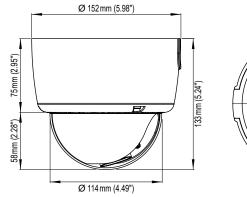


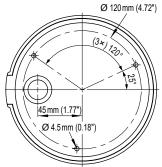
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HDV In-Ceiling Variants

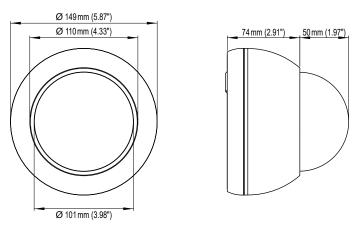


HDV Surface Variants





HD Surface Variants (Indoor)



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