Nightline

High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder







The **MDF5250HD-DN** is a HD network camera, built into a compact **sensor housing** and a separate **encoder housing**. By combining the **latest sensor and encoder technology**, the images have excellent contrast, brilliant clarity, as well as the **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.

H.265 Support

The cameras are equipped with encoder technology that supports encoding of the video stream according to the H.265 standard. This allows the **data rate** to be **reduced by up to 50%** compared to H.264 with the same resolution and image quality. In conjunction with the latest Dallmeier recording systems, a **significant reduction in network and storage utilization** can be achieved.

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 a comfortable fine adjustment of the captured image section (horizontal and vertical at 16:9 resolutions, horizontal at 4:3 resolutions) via a web browser. Depending on the selected resolution, the used area on the image sensor can be moved and adapted to the local conditions. The manual fine alignment of the camera directly at the installation site is not necessary.

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 Dallmeier 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 **Dallmeier Client Software** with the **SmartFinder** function.

Al support

The cameras is equipped with encoder technology that enables Video Content Analysis supported by AI (Artificial Intelligence) functions based on neural networks in the camera. This provides a significantly more powerful object classification which finally allows an even more targeted evaluation of the recordings.

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 **Dallmeier recording system**. This stores the video stream with high speed and then continues to record the live stream seamlessly.

Mounting

Due to its **extremely compact design** and the **included mounting brackets**, the camera is ideally suited for installation in **ATMs**, **gambling tables** and **display panels**.

Further features

- Extremely high light sensitivity 0.002 lux
- Memory expansion with optional microSDXC card
- Frame rate of 60 fps at 720p and 1080p
- Video compression H.264, H.265, MJPEG
- Automatic corridor mode supported
- Compatible with ONVIF Profile S and Profile T
- Functions for data protection and data security (GDPR-compliant)
- Separate housing for sensor and encoder

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High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder

Variants	
007739.409	MDF5250HD-DN High Definition Module Camera, 2 MP, 1080p/60, H.265, AI/VCA, day/night, PoE, separate housing for sensor and encoder, F1.6 / 4.5 – 10 mm
007739.410	MDF5250HD-DN High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA, day/night, PoE, separate housing for sensor and encoder, F1.6 / 12 – 40 mm
Accessories	
004316	PoE Midspan 30 W



PoE Midspan 30 W

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





High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder

TypeVI.9" CMOSNumber of sensor pixels2APLight sensitivity0.002 (ktp. AGC ON)Dynamic range120 dB (gt HDR ON ¹¹ (std B without HDR)Signal to noise ration> 50 dBEnerF16/12-40 nmTypeMotor-driven variocal lensFormat / Moutor1/14 "Board LensFormat / Moutor1/14 "Board LensFormat / Moutor1/14 "Board LensFocal length45-10 mmHis rangeF16-ClosedIf is rangeP-His (motor-driven)Zoorn / Focus controlMotor-drivenMinimu object distance0.5 mAnallable angles of wev ²¹ (HX V)Approx. 87* 50° at 1080pAvailable angles of view ²¹ (HX V)Approx. 87* 50° at 1080pAvailable angles of view ²¹ (HX V)Approx. 87* 50° at 1080pApprox. 11" x 61 to 1000 formationSector 1000 formationFormat HonodingSto V/QL/NTSC) NOTV (SMITE 228M, SMIPTE 224M)Resolution in mode 1080p (fish)Sto V/QL/NTSC) NOTV (SMITE 228M, SMIPTE 224M)Resolution in mode 1080p (fish)1280 x720 (720) gi 9.5000 fps 230 x240 gi 9500 fps 240 x440 (keap) gi 9500 fps 240 x440 (keap) gi 9500 fps 240 x440 (keap	Sensor		
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Live streaming transmission method Unicast, Multicast	Audio compression	G.711	
	Audio bit rate	64 kbps	
Number of live streams / clients Up to 5 streams with up to 12 Mbps simultaneously	Live streaming transmission method	Unicast, Multicast	
	Number of live streams / clients	Up to 5 streams with up to 12 Mbps simultaneously	

Function in preparation All specifications ±5%. Minor deviations with lenses may be a result of manufacturing tolerances and do not constitute a defect. Support of frame rates higher than 100 fps in preparation, only in combination with High-Speed license. If the total available bit rate is not sufficient, not the image quality but the number of frames is adjusted.

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High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder

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), On, Off
Automatic Electronic Shutter	1/1-1/8000s
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
Corridor mode	Automatic (activation via user interface)
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, 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 (Automatic White Balance) Fixed: 2800K, 4000K, 5000K, 6500K and 7500K
Privacy Zone Masking	Hiding/masking of up to 16 protected areas (up to 100% of the entire image)
Alarm notification	Via DaVid protocol to PGuard advance, via E-Mail and FTP image upload in preparation
Alarm trigger	Application restart, EdgeStorage status
Video Content Analysis ⁵⁾	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 with AI support) Face Detection (detection of faces) ⁶⁾
Protocols	
Ethernet protocols	IPv4 (ARP, ICMP, IGMPv2/IGMPv3), UDP, TCP, LLDP, CDP (v1,v2), DSCP (QoS), DNS, DHCP, NTP, HTTP/HTTPS ⁷⁾ , 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, Profile T, SNMP (v1, v2c, v3)
Security	HTTPS ⁷⁾ encryption, SSL/TLS ⁷⁾ 1.2 (AES), network access control according to IEEE 802.1X ⁷⁾
Connections	
Video preview output	1× HDMI micro connector (type D), 1080p (1920×1080) @ 25/30 fps (16:9) ⁸⁾
Audio Line IN	1× 3.5 mm phone jack for stereo plug Input level: max. 2.83 V $_{\rm pp}$ Input impedance: 29 k Ω
Audio Line OUT	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
Power IN	1× Weidmüller male connector SL 3.50/02/90G (mating connector Weidmüller BL 3.50/02/180 SN)
Electrical Data	
Voltage supply	24V DC PoE (Class 0)
PoE standard	IEEE 802.3af
Power consumption	Approx. 8 W

Power consumption

Depending on the CPU load.

⁵⁾ 6) 7) 8) 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. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org) and cryptographic software written by Eric Young (eay@cryptsoft.com). When using an HDMI cable longer than 50 cm, the use of a signal amplifier is recommended.

High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder

Mechanical Data	
Dimensions	Approx. W $59 \times H 59 \times D 80$ mm (sensor housing) Approx. W $62 \times H 42 \times D 121$ mm (encoder housing)
Cable length	Approx. 175 mm (between sensor housing and encoder housing)
Weight	Sensor housing: Approx. 200g Encoder housing: Approx. 230g
Construction material	Aluminum
Color	Black anodized
Environmental Conditions	
Operating temperature	-20°C to +45°C (-4°F to 113°F)
Relative humidity	0%–90% RH, non-condensing
Miscellaneous	
Ambient light sensor	Integrated
Local memory	50 MB RAM memory
Memory extension	microSDXC 32/64 GB, Class 10, UHS-I (optional)
Configuration and live video	Via web browser (all major platforms)
Languages	German, English
Programming interface	Open platform for integration into 3rd party systems using API
ONVIF compliance	Profile S, Profile T
GDPR compliance	Supported
Approvals/Certifications	
Туре	CE, FCC, UL, DIN EN 50130-4 compliant

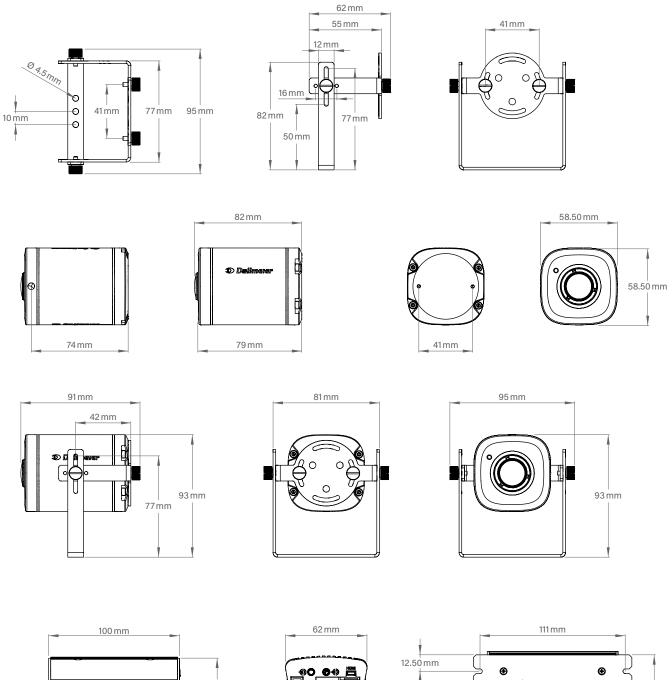
Dallmeier

Nightline

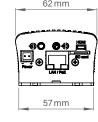


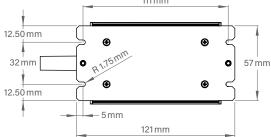


High Definition Module Camera, 2MP, 1080p/60, H.265, AI/VCA Day/Night, PoE, Separate Housing for Sensor and Encoder



2 mm M3 M3





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Specifications subject to change without notice. Errors and misprints excepted. Pictures may differ from the actual product.

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