DINION IP 5000 HD

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- Stylish indoor network camera
- ▶ 1080p resolution for sharp images
- Intelligent Dynamic Noise Reduction reduces bandwidth and storage requirements by up to 50%
- ▶ SD card slot for local recording
- ▶ FTP, Dropbox and e-mail alarms

The 1080p HD indoor camera is a ready-to-use, complete network video surveillance system inside a compact and stylish housing. This camera brings Bosch's high-performance technology into the realm of homes, small office and retail businesses by offering a cost-effective solution for a broad range of applications.

System overview

The elegant, compact box design is ideal for homes, offices, businesses or shops where camera size and appearance is important. The camera has a 1/2.7-inch CMOS HD sensor and is a true day/night camera offering excellent performance day or night.

Functions

Content Based Imaging Technology

Content Based Imaging Technology (CBIT) is used to radically improve image quality in all lighting conditions and to identify areas for enhanced processing. The camera examines the scene using intelligent video analytics and provides feedback to retune the image processing. This provides better detail in the areas that matter and better all-round performance.

Intelligent Dynamic Noise Reduction reduces bandwidth and storage requirements

The camera uses Intelligent Dynamic Noise Reduction which actively analyzes the contents of a scene and reduces noise artifacts accordingly. The low-noise image and the efficient H.264 compression technology provide clear images while reducing bandwidth and storage by up to 50% compared to other H.264 cameras. This results in reduced-bandwidth streams that still retain a high image quality and smooth motion. The camera provides the most usable image possible by cleverly optimizing the detail-to-bandwidth ratio.

The average typical optimized bandwidth in kbits/s for various image rates is shown in the table:

IPS	1080p	720p	480p
30	1600	1200	600
15	1274	955	478
12	1169	877	438
5	757	568	284
2	326	245	122

Multiple streams

The innovative multi-streaming feature delivers various H.264 streams together with an M-JPEG stream. These streams facilitate bandwidth-efficient viewing and recording as well as integration with third-party video management systems.

An upright mode can be selected for the second stream. In this mode an image of 400 x 720 (9:16 aspect ratio) is cropped from the full sensor image. When the scene to be monitored is suitable to this mode, the bandwidth and storage requirements are reduced.

Simultaneous analog and IP video outputs

A surge-protected analog video output ensures that high resolution IP video streaming and an analog video output are available simultaneously. This means, for example, that a confrontation monitor can easily be connected directly to the camera while still maintaining full IP functionality.

Regions of interest and E-PTZ

Regions of Interest (ROI) can be user defined. The remote E-PTZ (Electronic Pan, Tilt and Zoom) controls allow you to select specific areas of the parent image. These regions produce separate streams for remote viewing and recording. These streams, together with the main stream, allow the operator to separately monitor the most interesting part of a scene while still retaining situational awareness.

Built-in microphone, two-way audio and audio alarm

The camera has a built-in microphone to allow operators to listen in on the monitored area. Two-way audio allows the operator to communicate with visitors or intruders via an external audio line input and output. Audio detection can be used to generate an alarm if needed.

Tamper and motion detection

A wide range of configuration options is available for alarms signaling camera tampering. A built-in algorithm for detecting movement in the video can also be used for alarm signaling.

Edge recording

The SD card slot supports up to 2 TB of storage capacity. An SD card can be used for local alarm recording. Pre-alarm recording in RAM reduces recording bandwidth on the network, or – if SD card recording is used – extends the effective life of the storage medium.

Storage management

Recording management can be controlled by the Bosch Video Recording Manager (VRM) or the camera can use iSCSI targets directly without any recording software.

Cloud-based services

The camera supports time-based or alarm-based JPEG posting to four different accounts. These accounts can address FTP servers or cloud-based storage facilities (for example, Dropbox). Video clips or JPEG images can also be exported to these accounts. Alarms can be set up to trigger an e-mail or SMS notification so you are always aware of abnormal events.

Easy installation

Power for the camera can be supplied via a Powerover-Ethernet compliant network cable connection. With this configuration, only a single cable connection is required to view, power, and control the camera. Using PoE makes installation easier and more costeffective, as cameras do not require a local power source.

The camera can also be supplied with power from +12 VDC power supplies. To increase system reliability, the camera can be simultaneously connected to both PoE and +12 VDC supplies. Additionally, uninterruptible power supplies (UPS) can be used to ensure continuous operation, even during a power failure.

For trouble-free network cabling, the camera supports Auto-MDIX which allows the use of straight or crossover cables.

Simple set-up

The camera has a very intuitive user interface that allows fast and easy configuration. Six configurable user modes are provided with the best settings for a variety of applications:

- Indoor general day-to-night changes without sun highlights and street lighting
- **Outdoor** general day-to-night changes with sun highlights and street lighting
- Motion monitoring traffic or fast moving objects; motion artifacts are minimized
- Lowlight optimized for sufficient details at low light.
- BLC for people moving in front of a bright background
- Vibrant enhanced contrast, sharpness and saturation

True day/night switching

The camera incorporates mechanical filter technology for vivid daytime color and exceptional night-time imaging while maintaining sharp focus under all lighting conditions.

Access security

Password protection with three levels and 802.1x authentication is supported. To secure Web browser access, use HTTPS with a SSL certificate stored in the camera.

Complete viewing software

There are many ways to access the camera's features: using a web browser, with the Bosch Video Management System, with the free-of-charge Bosch Video Client, with the video security mobile app, or via third-party software.

Video security app

The Bosch video security mobile app has been developed to enable Anywhere access to HD surveillance images allowing you to view live images from any location. The app is designed to give you complete control of all your cameras, from panning and tilting to zoom and focus functions. It's like taking your control room with you.

This app, together with the separately available Bosch transcoder, will allow you to fully utilize our dynamic transcoding features so you can play back images even over low-bandwidth connections.

System integration

The camera conforms to the ONVIF Profile S, ONVIF Profile Q and ONVIF Profile G specifications. Compliance with these standards guarantees interoperability between network video products regardless of manufacturer.

Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

Certifications and approvals

HD standards

Complies with the SMPTE 274M-2008 Standard in:

- Resolution: 1920x1080
- Scan: Progressive
- Color representation: complies with ITU-R BT.709
- Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s
- Complies with the SMPTE 296M-2001 Standard in:
 - Resolution: 1280x720
 - Scan: Progressive
 - Color representation: complies with ITU-R BT.709
 - Aspect ratio: 16:9
 - Frame rate: 25 and 30 frames/s

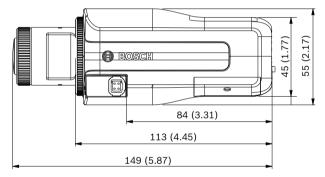
Standards

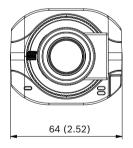
EN 60950-1
UL 60950-1
CAN/CSA-C22.2 NO. 60950-1-07
EN 50130-4
EN 50130-5 Class II
FCC Part15 Subpart B, Class B
EMC directive 2004/108/EC
EN 55022 class B

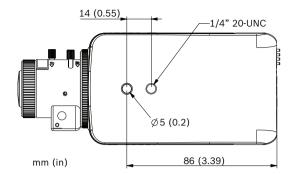
	EN 55024
	C-tick AS/NZS CISPR 22 (equal to CISPR 22)
	ICES-003 Class B
	VCCI J55022 V2/V3
	EN 50121-4
ONVIF conformance	EN 50132-5-2; IEC 62676-2-3
Product certifications	CE, FCC, UL, cUL, C-tick, CB, VCCI
Region	Certification
Europe	CE
USA	UL
	FCC
Canada	CSA

Installation/configuration notes

Dimensions







Parts included

Technical specifications

Power	
Power Supply	12 VDC Power-over-Ethernet 48 VDC nominal
Current Consumption	300 mA (12 VDC) 75 mA (PoE 48 VDC)
Power Consumption	3.6 W
PoE	IEEE 802.3af (802.3at Type 1) Power level: Class 1
Sensor	
Sensor type	1/2.7-inch CMOS
Total sensor pixels	1952 x 1092 (2MP)

Video performance

Sensitivity - (3200K, reflectivity 89%, F1.4, 30IRE)

• Color	0.25 lx	
• Mono	0.05 lx	
Dynamic range	76 dB Wide Dynamic Range (WDR)	
Video streaming		
Video compression	H.264 (MP); M- JPEG	
Streaming	Multiple configurable streams in H.264 and M- JPEG, configurable frame rate and bandwidth. Regions of Interest (ROI)	
Overall IP Delay	Min. 120 ms, Max. 340 ms	
GOP structure	IP, IBP, IBBP	
Encoding interval	1 to 25 [30] ips	
Video resolution (H x V)		
• 1080p HD	1920 X 1080	
• 720p HD	1280 x 720	

704 x 480

• D1 4:3 (cropped)

• SD upright (cropped)400 x 720• 480p SDEncoding: 704 x 480; Displayed: 854 x 480• 432p SD768 x 432• 288p SD512 x 288• 240p SDEncoding: 352 x 240; Displayed: 432 x 240• 144p SD256 x 144Video functionsVideo functionsOol, Monochrome, AutoAdjustable picture settingsContrast, Saturation, BrightnessWhite BalanceSautomatic Electronic Shutter (AES) Fixed shutter (1/25[30] to 1/15000) selectable Default shutterBacklight compensationOn/offNoise reductionIntelligent Dynamic Noise Reduction with separate temporal and spatial adjusts parameters for best picture in foggy or misty scenes (switchable)Privacy MaskingFour independent areas, fully programmableVideo AnalysisMOTION+Audio StreamingSI dul duplex / half duplexAudio Streaming> 50 dBAudio compression> 50 dBAudio compression> 50 dBLaudio compression> 50 dBLaudio compression> 50 dBAudio compressio	Video resolution (H x V	/)	
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Lens mount CS mount (C-mount with adapter ring)	Audio compression	AAC-LC, G.711, L16 (live and recording)	
	Optical		
Lens connector Standard 4-pin DC-iris connector	Lens mount	CS mount (C-mount with adapter ring)	
	Lens connector	Standard 4-pin DC-iris connector	

Optical	
Focus control	Manual adjustment
Iris control	Automatic iris control
Lens type (V3 version)	Varifocal 3.3 to 12 mm, DC Iris F1.4 – 360, IR corrected
 FoV (wide 3.3 mm) 	110° x 58° (H x V)
 FoV (tele 12 mm) 	34° x 18° (H x V)
Input/output	
Analog Video out	CVBS, 1 Vpp, 2.5 mm jack, 75 Ohm Selectable standard
Audio	Built-in microphone, 1 x mono line in, 1 x mono line out
connectors	3.5 mm mono jack
• signal line in	0.707 Vrms , 20 kOhm typical
• signal line out	0.707 Vrms, 10 kOhm typical,
Alarm input	1 input
activation	Short to activate
Alarm output	1 output
• voltage	24 VAC or +30 VDC max. Load current 1 A max.
Local storage	
Internal RAM	10 s pre-alarm recording
Memory card slot	Supports up to 32 GB SDHC / 2 TB SDXC card. (An SD card of Class 6 or higher is recommended for HD recording)
Recording	Continuous recording, ring recording. alarm/ events/schedule recording
Network	
Protocols	IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/ RTCP, IGMP V2/V3, ICMP, ICMPv6, RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, MIB- II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication
Encryption	TLS 1.0, SSL, DES, 3DES
Ethernet	10/100 Base-T, auto-sensing, half/full duplex

Via web browser or Configuration Manager
Remotely programmable
Web browser, Bosch Video Client, or third party software
55 x 64 x 113 mm (2.17 x 2.52 x 4.45 in) without lens
55 x 64 x 149 mm (2.17 x 2.52 x 5.87 in) with lens
550 g (1.21 lb) without lens 590 g (1.30 lb) with lens
RAL 9017 Traffic black
Bottom and top 1/4-inch 20 UNC
-30 °C to +50 °C (-22 °F to +122 °F)
-40 °C to +70 °C (-40 °F to +158 °F)
0% to 90% relative humidity (non condensing)

Ordering information

DINION IP 5000 HD

Indoor 1080p IP box design camera. IDNR; day/night; H.264 quad-streaming; cloud services; ROI; motion/ tamper/audio detection; 1080p Order number **NBN-50022-C**

DINION IP 5000 HD

Indoor 1080p IP box design camera; IDNR; day/night; H.264 quad-streaming; cloud services; ROI; motion/ tamper/audio detection; 1080p; varifocal 3.3 to 12 mm, DC Iris, F1.4 lens, IR corrected Order number **NBN-50022-V3**

Accessories

Varifocal SR Megapixel Lens

Varifocal SR megapixel IR corrected lens. 1/2.5" sensor; CS-mount; 4-pin SR-iris; 5 MP; 9 to 40 mm; F1.5 to F8

Order number LVF-5005C-S0940

Varifocal SR Megapixel Lens

Varifocal SR megapixel IR corrected lens. 1/2.5" sensor; CS-mount; 4-pin SR-iris; 5 MP; 1.8 to 3 mm; F1.8 to F8 Order number **LVF-5005C-S1803**

Varifocal SR Megapixel Lens

Varifocal SR megapixel lens. 1/2" sensor; C-mount; 4pin SR-iris; 3 MP; 3.8 to 13 mm; F1.4 to F8 Order number **LVF-5003N-S3813**

Varifocal Megapixel Lens

Varifocal megapixel IR corrected lens. 1/1.8" sensor max; C-mount; 4-pin DC-iris; 5 MP; 12 to 50 mm; F1.6 to T360 Order number LVF-5005N-S1250

S1460 Service/Monitor Cable

2.5 mm jack to BNC video connector cable. 1 m Order number **\$1460**

EX12LED-3BD-8M Infrared Illuminator

Mini IR 850 nm illuminator. LED array; 3D Diffuser; black; 17 m HFOV; 30° beam pattern Order number **EX12LED-3BD-8M**

EX12LED-3BD-8W Infrared Illuminator

Mini IR 850 nm illuminator. LED array; 3D Diffuser; black; 16 m HFOV; 60° beam pattern Order number **EX12LED-3BD-8W**

EX12LED-3BD-9M Infrared Illuminator

Mini IR 940 nm illuminator. LED array; 3D Diffuser; black; 17 m HFOV; 30° beam pattern Order number **EX12LED-3BD-9M**

EX12LED-3BD-9W Infrared Illuminator

Mini IR 940 nm illuminator. LED array; 3D Diffuser; black; 16 m HFOV; 60° beam pattern Order number **EX12LED-3BD-9W**

NPD-5001-POE Midspan PoE Injector

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 1-port Order number **NPD-5001-POE**

NPD-5004-POE Midspan PoE Injector

Power-over-Ethernet midspan injectors for use with PoE enabled cameras; 15.4 W, 4-ports Order number **NPD-5004-POE**

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