FLEXIDOME IP indoor 4000i

www.boschsecurity.com





The 1080p indoor dome cameras from Bosch are professional surveillance cameras that provide high quality HD images for demanding security and surveillance network requirements. These domes are true day/night cameras offering excellent performance day or night.

There is a version with a built-in active infrared illuminator that provides high performance in extreme low-light environments.

System overview

Easy to install stylish indoor dome

Ideal for indoor use, the stylish design is suitable for installations where appearance and flexible coverage are important. The varifocal lens allows you to choose the coverage area to best suit your application. Using the proprietary pan/tilt/rotation mechanism, installers can select the exact field of view. Mounting options are numerous, including surface, wall, and suspendedceiling mounting.

The automatic zoom/focus lens wizard makes it easy for an installer to accurately zoom and focus the camera for both day and night operation. The wizard is activated from the PC or from the on-board camera push button making it easy to choose the workflow that suits best.



- Easy to install with auto zoom/focus lens, wizard and pre-configured modes
- 1080p30 for highly detailed images
- ▶ Fully configurable H.265 multi-streaming
- Built-in Essential Video Analytics to trigger relevant alerts and quickly retrieve data
- ▶ IR version with 30 m (98 ft) viewing distance

The AVF (Automatic Varifocal) feature means that the zoom can be changed without opening the camera. The automatic motorized zoom/focus adjustment with 1:1 pixel mapping ensures the camera is always accurately focused.

Functions

Essential Video Analytics

The built-in video analysis reinforces the Intelligenceat-the-Edge concept and now delivers even more powerful features. Essential Video Analytics is ideal for use in controlled environments with limited detection ranges.

The system reliably detects, tracks, and analyzes objects, and alerts you when predefined alarms are triggered. A smart set of alarm rules makes complex tasks easy and reduces false alarms to a minimum. Metadata is attached to your video to add sense and structure. This enables you to quickly retrieve the relevant images from hours of stored video. Metadata can also be used to deliver irrefutable forensic evidence or to optimize business processes based on people counting or crowd density information. Calibration is quick and easy – just enter the height of the camera. The internal gyro/accelerometer sensor provides the rest of the information to precisely calibrate the video analytics.

Intelligent streaming reduces bandwidth and storage requirements

The low-noise image and the efficient H.265 compression technology provide clear images while reducing bandwidth and storage by up to 80% compared to standard H.264 cameras. With this new generation of cameras an extra level of intelligence is added with Intelligent Streaming. The camera provides the most usable image possible by cleverly optimizing the detail-to-bandwidth ratio. The smart encoder continuously scans the complete scene as well as regions of the scene and dynamically adjust compression based on relevant information like movement. Together with Intelligent Dynamic Noise Reduction, which actively analyzes the contents of a scene and reduces noise artifacts accordingly, bitrates are reduced by up to 80%. Because noise is reduced at the source during image capture, the lower bitrate does not compromise image quality. This results in substantially lower storage costs and network strain and still retain a high image quality and smooth motion.

Area-based encoding

Area-based encoding is another feature which reduces bandwidth. Compression parameters for up to eight user-definable regions can be set. This allows uninteresting regions to be highly compressed, leaving more bandwidth for important parts of the scene.

Bitrate optimized profile

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

fps	1080p	720p
30	600	450
12	438	329
5	284	213
2	122	92

Multiple streams

The innovative multi-streaming feature delivers various H.264 or H.265 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.

The camera can run multiple independent streams that allows to set a different resolution and frame rate on the first and second stream. The user can also choose to use a copy of the first stream.

The third stream uses the I-frames of the first stream for recording; the fourth stream shows a JPEG image at a maximum of 10 Mbit/s.

Two-way audio and audio alarm

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.

If required by local laws, the microphone can be permanently blocked via a secure license key.

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.

Storage management

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

Edge recording

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

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/24 VAC power supplies. To increase system reliability, the camera can be simultaneously connected to both PoE and +12 VDC/24 VAC supplies. Additionally, uninterruptible power supplies (UPS) can be used, which will allow 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.

Automatic image rotation

The integrated gyro/accelerometer sensor automatically corrects the image orientation in steps of 90° if the camera is mounted at right angles or upside down. The sensor image can also be rotated manually through steps of 90°. To efficiently capture details in long hallways without loss of resolution, mount the camera at right angles. The image is displayed upright at full resolution on your monitor.

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.

Hybrid mode

An analog video output enables the camera to operate in hybrid mode. This mode provides simultaneous high resolution HD video streaming and an analog video output via an SMB connector. The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system.

Data security

Special measures have been put in place to ensure the highest level of security for device access and data transport. The three-level password protection with security recommendations allows users to customize device access. Web browser access can be protected using HTTPS and firmware updates can also be protected with authenticated secure uploads. The on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support, guarantee superior protection from malicious attacks. The 802.1x network authentication with EAP/TLS, supports TLS 1.2 with updated cipher suites including AES 256 encryption.

The advanced certificate handling offers:

- Self-signed unique certificates automatically created when required
- Client and server certificates for authentication
- Client certificates for proof of authenticity
- Certificates with encrypted private keys

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 or Video Security 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 and Profile G specifications. This 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:

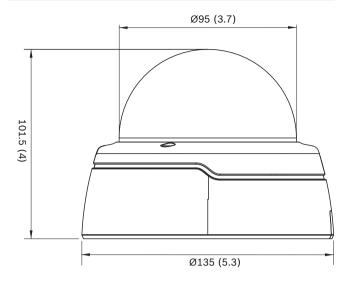
- Resolution: 1920x1080
- Scan: Progressive
- Color representation: complies with ITU-R BT.709
- Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s

Complies with the SMPTE 296M-2001 Standard in: • Resolution: 1280x720

- Scan: Progressive
- Color representation, complian
- Color representation: complies with ITU-R BT.709Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s

Standards	IEC 62471 (IR version)
	EN 60950-1
	UL 60950-1
	CAN/CSA-C22.2 NO. 60950-1-03
	EN 50130-4
	EN 50130-5, Class II (indoor in general, fixed equipment)
	FCC Part15 Subpart B, Class B
	EMC directive 2014/30/EU
	EN 55032 class B
	EN 55024
	AS/NZS CISPR 32 (equal to CISPR 32)
	ICES-003 Class B
	VCCI J55022 V2/V3
	EN 50121-4
ONVIF compliance	EN 50132-5-2; IEC 62676-2-3
Product certifications	CE, FCC, UL, cUL, RCM, CB, VCCI, EAC
Region	Regulatory compliance/quality marks
Europe	CE indoor 4/5000i

Installation/configuration notes



Technical specifications

Power	
Input voltage	+12 VDC ±5%, 24 VAC ±10% or Power-over-Ethernet (48 VDC nominal)
Power consumption (DC)	5.55 W max.
Power consumption (AC)	5 W max.
Power consumption (PoE)	6 W max.
PoE IEEE standard	IEEE 802.3af (802.3at Type 1) Power level: Class 3
Power (IR version)	
Input voltage	+12 VDC ±5%, 24 VAC ±10% or Power-over-Ethernet (48 VDC nominal)
Power consumption (DC)	9 W max.
Power consumption (AC)	7.4 W max.
Power consumption (PoE)	8.5 W max.
PoE IEEE standard	IEEE 802.3af (802.3at Type 1) Power level: Class 3
Sensor	
Sensor type	1/2.9-inch CMOS
Effective pixels	1920 (H) x 1080 (V); 2MP (approx.)

Video performance - Se	ensit	ivity
Sensitivity – (3100K, re	flect	ivity 89%, 1/25, F1.3, 30IRE)
Color	0.1	12 lx
Mono	0.0	02 lx
With IR	0.0) Ix
Dynamic range	85	dB Wide Dynamic Range (WDR)
Video streaming		
Video compression	H.2	265; H.264; M- JPEG
Streaming	26 bai	Itiple configurable streams in H.264 or H. 5 and M-JPEG, configurable frame rate and ndwidth. gions of Interest (ROI)
Camera processing latency		5 ms (max. average at 1080p30) 5 ms (max. average at 5MP30)
GOP structure	IP,	IBP, IBBP
Encoding interval	1 t	o 25 [30] fps
Encoding regions	Up are	to 8 areas with encoder quality settings per a
Video resolution (H x V)	
• 1080p HD		1920 x 1080
 Upright mode 1080p 		1080 x 1920
• 1.3 MP (5:4) (cropped)		1280 x 1024
 Upright mode 1. MP (5:4) (cropped) 	3	1024 x 1280
• 720p		1280 x 720
Upright mode 720p		720 x 1280
• 480p SD		640 x 480
• 240p SD		320 x 240
Video functions		
Day/Night		lor, Monochrome, Auto (adjustable switch nts)
Adjustable picture settings	Со	ntrast, Saturation, Brightness
White Balance	Sta	00 to 10000K, 4 automatic modes (Basic, andard, Sodium vapor, Dominant color), nual mode and Hold mode
Shutter	Fix	tomatic Electronic Shutter (AES); ed (1/25[30] to 1/15000) selectable; fault shutter

Video functions	
Backlight compensation	On/off
Contrast enhancement	On/off
Signal-to-noise ratio (SNR)	>55 dB
Noise reduction	Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments
Sharpness	Sharpness enhancement level selectable
Intelligent defog	Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)
Privacy Masking	Eight independent areas, fully programmable
Video Analysis	Essential Video Analytics
Scene modes	Standard, Sodium Lighting, Traffic, Intelligent AE, Vibrant, Low bitrate, Sports & Gaming, Retail
Other functions	Image mirror, Image flip, Pixel counter, Video watermarking, Display stamping, Location
Camera rotation	Automatic detection with manual override (0° / 90°/ 180°/ 270°)
Video content analysi	S
Analysis type	Essential Video Analytics

Analysis type	Essential Video Analytics
Latest details on Essential Video Analytics	https://us.boschsecurity.com/en/products/ videosystems/videosoftware/videoanalytics/ essentialvideoanalytics63/ essentialvideoanalytics63_36208

Detection of audio to generate an alarm

Audio detection

Night vision (IR versio	n only)
Distance	30 m (98 ft)
LED	10 LED high efficiency array, 850 nm
IR intensity	Adjustable
Optical	
Lens type	3 to 10 mm Automatic Varifocal (AVF) lens, IR corrected DC Iris F1.3 – 360
Lens mount	Board mounted
Adjustment	Motorized zoom/focus
Iris control	Automatic iris control
Day/Night	Switched mechanical IR filter

Optical	
Horizontal field of view	34° - 101°
Vertical field of view	19° - 54°
Input/output	
Analog video out	SMB connector, CVBS (PAL/NTSC), 1 Vpp, 75 Ohm
Audio line in	0.707 Vrms max, 10 kOhm typical, jack connector
Audio line out	0.707 Vrms at 16 Ohm typical, jack connector
Audio input	Built-in microphone (can be permanently disabled)
Alarm input	1 input
Alarm input activation	Short or DC 5V activation
Alarm output	1 output
Alarm output voltage	30 VDC, max. load 0.5 A
Ethernet	RJ45
Audio streaming	
Standard	G.711, 8 kHz sampling rate L16, 16 kHz sampling rate
	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate
Signal-to-Noise Ratio	AAC-LC, 48 kbps at 16 kHz sampling rate
Signal-to-Noise Ratio Audio Streaming	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate
	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB
Audio Streaming	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB
Audio Streaming	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB Full-duplex / half duplex
Audio Streaming Local storage Internal RAM	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB Full-duplex / half duplex 60 s pre-alarm recording Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6
Audio Streaming Local storage Internal RAM Memory card slot	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB Full-duplex / half duplex 60 s pre-alarm recording Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6 or higher is recommended for HD recording) Continuous recording, ring recording. alarm/
Audio Streaming Local storage Internal RAM Memory card slot Recording	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB Full-duplex / half duplex 60 s pre-alarm recording Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6 or higher is recommended for HD recording) Continuous recording, ring recording. alarm/
Audio Streaming Local storage Internal RAM Memory card slot Recording Software	AAC-LC, 48 kbps at 16 kHz sampling rate AAC-LC, 80 kbps at 16 kHz sampling rate >50 dB Full-duplex / half duplex 60 s pre-alarm recording Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory card of Class 6 or higher is recommended for HD recording) Continuous recording, ring recording. alarm/ events/schedule recording

Software	
Software viewing	Web browser; Video Security Client; Video Security App; Bosch Video Management System; Bosch Video Client; or third party software
Latest firmware and software	http://downloadstore.boschsecurity.com/
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 1.2, SSL, DES, 3DES
Ethernet	10/100 Base-T, auto-sensing, half/full duplex
Connectivity	Auto-MDIX
Interoperability	ONVIF Profile S; ONVIF Profile G; GB/T 28181
Mechanical	
3-axis adjustment (pan/tilt/rotation)	350°/130°/330°
Dimensions (Ø x H)	135 x 102 mm (5.32 x 4 in)
Weight (approx.)	450 g (0.99 lb)
Color	RAL 9003, RAL 9017
Dome bubble	Polycarbonate, clear with anti-scratch coating
Environmental	
Operating temperature (continuous)	-20 °C to +50 °C (-4 °F to +122 °F)
Storage temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Humidity	20% to 90% relative humidity (non condensing)
Ordering informa	tion

NDI-4502-A Fixed dome 2MP 3-10mm auto

Professional IP dome camera for indoor HD surveillance with H.265 and Essential Video Analytics. Fixed dome 2MP 3-10mm auto. Order number **NDI-4502-A**

NDI-4502-AL Fixed dome 2MP 3-10mm auto
Professional IP dome camera for indoor HD surveillance with H.265, Essential Video Analytics and integrated Infrared. Fixed dome 2MP 3-10mm auto. Order number NDI-4502-AL
Accessories
NDA-5031-PIP Pendant interface plate NDI-4/5000i Pendant interface plate for indoor FLEXIDOME IP 4000i / 5000i. Order number NDA-5031-PIP
NDA-U-WMT Pendant wall mount Universal wall mount for dome cameras, white Order number NDA-U-WMT
NDA-U-PMT Pendant pipe mount, 33cm / 13in Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT
NDA-U-PMAS Pole mount adapter small
Pole mount adapter small Universal pole mount adapter, white; small. Order number NDA-U-PMAS
NDA-U-PMTE Pendant pipe extension, 20" (50cm)
Extension for universal pipe mount, 50 cm, white Order number NDA-U-PMTE
NDA-U-PSMB Pendant wall/ceiling mount SMB
Surface mount box (SMB) for wall mount or pipe mount.
mount.
mount. Order number NDA-U-PSMB NDA-FMT-DOME Inceiling flush mount for dome camera In-ceiling flush mounting kit for dome cameras (Ø157 mm) Order number NDA-FMT-DOME
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mount. Order number NDA-U-PSMB NDA-FMT-DOME Inceiling flush mount for dome camera In-ceiling flush mounting kit for dome cameras (Ø157 mm) Order number NDA-FMT-DOME NDA-ADTVEZ-DOME Adapter bracket for dome Adapter bracket (used together with appropriate wall or pipe mount, or surface mount box) for indoor use.
 mount. Order number NDA-U-PSMB NDA-FMT-DOME Inceiling flush mount for dome camera In-ceiling flush mounting kit for dome cameras (Ø157 mm) Order number NDA-FMT-DOME NDA-ADTVEZ-DOME Adapter bracket for dome Adapter bracket (used together with appropriate wall or pipe mount, or surface mount box) for indoor use. Order number NDA-ADTVEZ-DOME NDA-ADT4S-MINDOME Surface mount box for dome camera Surface mount box (Ø145 mm / Ø5.71 in) for dome cameras (use together with the appropriate dome adapter bracket).
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NBN-MCSMB-03M Cable, SMB to BNC, camera-cable, 0.3m

0.3 m (1 ft) analog cable, SMB (female) to BNC (female) to connect camera to coaxial cable Order number **NBN-MCSMB-03M**

NBN-MCSMB-30M Cable, SMB to BNC, cameramonitor/DVR

3 m (9 ft) analog cable, SMB (female) to BNC (male) to connect camera to monitor or DVR Order number **NBN-MCSMB-30M**

UPA-1220-60 Power supply, 120VAC 60Hz,12VDC 1A out

Power supply for camera. 100-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated. Input connector: 2-prong, North American standard (non-polarized). Order number **UPA-1220-60**

NPD-5001-POE Power over ethernet , 15.4W, 1-port

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 1-port Weight: 200 g (0.44 lb) Order number **NPD-5001-POE**

NPD-5004-POE Power over ethernet, 15.4W, 4-port

Power-over-Ethernet midspan injectors for use with PoE enabled cameras; 15.4 W, 4-ports Weight: 620 g (1.4 lb) Order number **NPD-5004-POE**

NDA-U-CMT Corner mount adapter

Universal corner mount, white Order number NDA-U-CMT

NDA-U-PA0 Surveillance cabinet 24VAC

Surveillance cabinet, 24 VAC input, 24 VAC output, IP66

Order number NDA-U-PA0

NDA-U-WMT Pendant wall mount

Universal wall mount for dome cameras, white Order number NDA-U-WMT

NDA-U-PMAL Pole mount adapter large

Universal pole mount adapter, white; large Order number NDA-U-PMAL

NDA-U-RMT Pendant parapet mount

Universal roof mount for dome cameras, white Order number NDA-U-RMT

LTC 9230/01 Roof mount adapter

Flat Roof Mount Adapter for mounting a unit in an upright position on a flat surface. Order number **LTC 9230/01**

VG4-A-PSU0 Power supply, 24VAC

Power supply, 24 VAC input, for a PTZ camera in the AUTODOME Series. White, aluminum enclosure with cover, rated IP66 and IK 08. 100 W output. Optional trim skirt (sold separately). Order number **VG4-A-PSU0**

VG4-A-PSU1 PSU, 120VAC, for AUTODOME, MIC7000

Power supply, 120VAC input, 24VAC output @ 96VA. Suitable for powering AUTODOME, MIC IP 7000, and MIC IP fusion 9000i cameras. White aluminum enclosure with cover. IP66 ingress. IK10 impact. Order number **VG4-A-PSU1**

VG4-A-PSU2 Power supply, 230VAC, AUTODOME, MIC7000

Power supply, 230VAC input, 24VAC output @ 96VA. Suitable for powering AUTODOME, MIC IP 7000, and MIC IP fusion 9000i cameras. White aluminum enclosure with cover. IP66 ingress. IK10 impact. Order number VG4-A-PSU2

NDA-U-WMP Wall mount plate

Back plate for universal wall mount, corner mount and pole mount, white, IP66 Order number **NDA-U-WMP**

S1460 Service monitor cable, 2.5mm jack to BNC 2.5 mm jack to BNC video connector cable. 1 m Order number **S1460**

NDA-U-PA1 Surveillance cabinet 120VAC

Surveillance cabinet, 120 VAC input, 24 VAC output, IP66

Order number NDA-U-PA1

NDA-U-PA2 Surveillance cabinet 230VAC

Surveillance cabinet, 230 VAC input, 24 VAC output, IP66

Order number NDA-U-PA2

Represented by:

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