# FLEXIDOME IP starlight 5000i (IR) indoor

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



- Easy to install with auto zoom/focus lens, wizard and pre-configured modes
- ▶ Fully configurable H.265 multi-streaming
- Built-in Essential Video Analytics to trigger relevant alerts and quickly retrieve data
- ► High Dynamic Range to see every detail in both bright and dark areas of the scene
- Starlight camera technology with excellent low-light performance

activated from the PC or from the on-board camera push button making it easy to choose the workflow that suits best.

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.

### **Fast performance**

The 60 frames per second mode provides for optimum performance in fast action scenes that ensures no critical data is lost.

### Starlight performance

The latest sensor technology combined with the sophisticated image processing and noise suppression results in an exceptional sensitivity in color. The lowlight performance is so good that the camera continues to provide excellent color performance even with a minimum of ambient light.

### **High Dynamic Range**

The camera has High Dynamic Range. This is based on a multiple-exposure process that captures more details in the highlights and in the shadows even in the same scene. The result is that you can easily distinguish objects and features, for example, faces with bright backlight.

The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5. This method is used to provide a standard result which can be used to compare different cameras.

#### 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.

### **Bitrate optimized profile**

The average typical optimized bitrate in kbits/s for various frame rates when in H.265 mode is shown in the table:

fps	720p	1080p
60	712	525
30	600	450
12	438	329
5	284	213
2	122	92

### **Multiple streams**

The 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.

### **DORI** coverage

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a camera to distinguish persons or objects within a covered area. The maximum distance at which a camera/lens combination can meet these criteria is shown below:

### 1080p Camera with 3-10 lens

DORI	DORI	Distance	Horizontal
	definition	3mm / 10mm	width
Detect	25 px/m	32 m / 126 m	77 m
	8 px/ft	104 ft / 412 ft	252 ft
Observe	63 px/m	13 m / 50 m	30 m
	19 px/ft	41 ft / 164 ft	100 ft

DORI	DORI	Distance	Horizontal
	definition	3mm / 10mm	width
Recognize	125 px/m	6 m / 25 m	15 m
	38 px/ft	21 ft / 82 ft	50 ft
Identify	250 px/m	3 m / 13 m	8 m
	76 px/ft	10 ft / 41 ft	25 ft

### 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.

### 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: complies with ITU-R BT.709
- Aspect ratio: 16:9
- Frame rate: 25 and 30 frames/s

StandardsIEC 62471 (IR version)IEC 6950-1EN 60950-1IEN 60950-1UL 60950-1-03IEN 50130-4EN 50130-4IEN 50130-5, Class II (indoor in general, fixed equipment)FCC Part15 Subpart B, Class BIEN 5003 Class BEN 50032 class BIEN 5003 Class BEN 5003 Class BIEN 5003 Class BIES 5003 Class BIEN 5003 Class BIES 5003 Class BIEN 5003 Class BIES 5003 Class BIEN 50121-4:2016EN 50121-4:2016IEN 50121-4:2016EN 50132-52; IEC 62676-2-3ComplianceEN 50132-52; IEC 62676-2-3Product certificationsE, F, C, UL, CUL, RCM, CB, VCCI, CMIM, EAC, CB, K, CCEuropeELEXIDOME IP indoor 4000i/5000i (R)		
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Europe CE FLEXIDOME IP indoor 4000i/5000i   FLEXIDOME IP starlight 5000i (IR)	Region	Regulatory compliance/quality marks
	Europe	CE FLEXIDOME IP indoor 4000i/5000i   FLEXIDOME IP starlight 5000i (IR)

## Installation/configuration notes



### **Technical specifications**

### Power

Input voltage

+12 VDC ±5%, 24 VAC ±10% or

Power		
	Power-over-Ethernet (48 VDC nominal)	
Power consumption (DC)	7.15 W max.	
Power consumption (AC)	6.15 W max.	
Power consumption (PoE)	7 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)	10.8 W max.	
Power consumption (AC)	8.75 W max.	
Power consumption (PoE)	9.2 W max.	
PoE IEEE standard	IEEE 802.3af (802.3at Type 1) Power level: Class 3	
Platform		
Common product platform	CPP7.3	
Sensor		
Sensor type	1/2.8-inch CMOS	
Effective pixels	1920 (H) x 1080 (V); 2MP (approx.)	
Video performance -	Sensitivity	
Sensitivity - (3100K, re	flectivity 89%, 1/25, F1.3, 30IRE)	
Color	0.0225 lux	
Mono	0.0051 lux	
With IR	0.0 lx	
Video performance - Dynamic range		
High Dynamic Range	146 dB WDR	
Measured according to IEC 62676 Part 5	107 dB WDR	
Video streaming		
Video compression	H.265; H.264; M- JPEG	
Streaming	Multiple configurable streams in H.264 or H. 265 and M-JPEG, configurable frame rate and bandwidth.	
	Regions of Interest (ROI)	

### Video streaming

Camera processing latency	<120 ms (max. average at 1080p60)
GOP structure	IP, IBP, IBBP
Encoding interval	1 to 50 [60] fps
Encoding regions	Up to 8 areas with encoder quality settings per area

### Video resolution (H x V)

1080p HD	1920 × 1080
Upright mode 1080p	1080 × 1920
1.3 MP (16:9)	1536 × 864
Upright mode 1.3 MP (16:9)	864 × 1536
720p	1280 × 720
Upright mode 720p	720 × 1280
480p SD	640 × 480
SD	768 × 432
D1	720 × 480

### **Video functions**

Day/Night	Color, Monochrome, Auto (adjustable switch points)
Adjustable picture settings	Contrast, Saturation, Brightness
White Balance	2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium vapor, Dominant color), Manual mode and Hold mode
Shutter	Automatic Electronic Shutter (AES); Fixed (1/25[30] to 1/15000) selectable; Default shutter
Backlight compensation	On/off/Intelligent Auto Exposure (IAE)
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)

Video functions		
Privacy Masking	Eight independent areas, fully programmable	
Video Analysis	Essential Video Analytics	
Scene modes	Standard, Sodium lighting, Fast movement, Sensitivity boost, Dynamic backlight, Vibrant, Color only, 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	
Features	Rule based alarms and tracking Line crossing Enter /leave field Follow route Loitering Idle / removed object People counting Crowd density estimation 3D tracking Audio detection (if microphone used)	
Calibration / Geolocation	Automatic based on gyro / accelerometer data and camera height	
Tamper detection	Maskable	
Audio detection	Detection of audio to generate an alarm	
Night vision (IR version	on only)	
Distance	45 m (148 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	
Horizontal field of view	37° - 106°	
Vertical field of view	21°-55°	

### Input/output

Input/output	
Analog video out	SMB connector, CVBS (PAL/NTSC), 1 Vpp, 75 Ohm, approx. 500 TVL
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	>50 dB
Audio Streaming	Full-duplex / half duplex
Local storage	
Internal RAM	5 s pre-alarm recording
Memory card slot	Supports up to 32 GB microSDHC / 2 TB microSDXC card. (A memory 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, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (V1, V3, 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	TLS1.0/1.2, AES128, AES256
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°/350°	
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	5% to 93% relative humidity (non condensing)	

### Ordering information

### NDI-5502-A Fixed dome 2MP HDR 3-10mm

Professional IP dome camera for indoor HD 60 fps surveillance with H.265 and Essential Video Analytics. Fixed dome 2MP 3-10mm auto Order number **NDI-5502-A** 

### NDI-5502-AL Fixed dome 2MP HDR 3-10mm IR Professional IP dome camera for indoor HD 60 fps surveillance with H.265, Essential Video Analytics and integrated infrared. Fixed dome 2MP 3-10mm auto Order number NDI-5502-AL

### Accessories

#### **BUB-CLR-FDI Bubble, clear, indoor**

Clear polycarbonate bubble for dome camera Indoor Order number BUB-CLR-FDI

### **BUB-TIN-FDI Bubble, tinted, indoor**

Tinted polycarbonate bubble for dome camera. Indoor Order number BUB-TIN-FDI

### 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, camera-monitor/DVR

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

### NDA-5031-PIP Pendant interface plate NDI-4/5000

Pendant interface plate for indoor FLEXIDOME IP 4000i / 5000i. Order number NDA-5031-PIP

### NDA-ADT4S-MINDOME Surface mount box for dome camera

Surface mount box (Ø145 mm / Ø5.71 in) for dome cameras (for indoor camera variant, use together with NDA-ADTVEZ-DOME).

Order number NDA-ADT4S-MINDOME

#### NDA-ADTVEZ-DOME Adapter bracket for dome

Adapter bracket for indoor use (for indoor camera variant, use together with NDA-ADT4S-MINDOME). Order number NDA-ADTVEZ-DOME

### 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-SMB-MINISMB Surface mount box for dome camera 5.87"

Surface mount box ( $\emptyset$ 149 mm /  $\emptyset$ 5.87 in) Order number NDA-SMB-MINISMB

### NDA-U-CMT Corner mount adapter

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

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

#### NDA-U-PMAS Pole mount adapter small

Pole mount adapter small Universal pole mount adapter, white; small. Order number NDA-U-PMAS

### NDA-U-PMT Pendant pipe mount, 12" (31cm)

Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT

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

Order number NDA-U-PSMB

### NDA-U-WMT Pendant wall mount

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

### NPD-5001-POE Midspan, 15W, single port, AC in 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 Midspan, 4 port x 15W, AC in

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

### 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

### VDA-PMT-AODOME Pipe mount for AUTODOME, outdoor

Sturdy outdoor pipe mount bracket for dome cameras (Ø166 mm)

Order number VDA-PMT-AODOME

### VEZ-A2-WW Wall mount for PTZ dome, white

Wall mount (Ø145/149 mm) for dome cameras (use together with appropriate dome adapter bracket); white

Order number VEZ-A2-WW

#### Represented by:

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