The FLEXIDOME IP indoor 8000i - 2 MP X series camera offers a 1/1.8" sensor, starlight X and HDR X technology at HD 1080p resolution. It provides the perfect balance between high resolution and extreme low-light sensitivity with starlight X technology, ensuring highly detailed images even in the most challenging situations. HDR X enables the camera to capture video with a wide dynamic range across different light levels and without HDR motion blur and artefacts on moving objects. Fast moving objects are easily captured with frame rates of up to 60 frames per second.

The camera's remote commissioning functionality makes sure installation and commissioning can be done in very little time. Using a PC or a mobile device with the Bosch Project Assistant app, you can pan, tilt, roll and zoom (PTRZ) and point the camera to the required field of view with a single click - without ever having to touch the camera or lens.

Remote configuration and commissioning can also be done at a later stage once all cameras have been installed. Simply connect to the camera remotely via the network using the Bosch Project Assistant app, the camera's web interface, or the Bosch Configuration Manager.
**Fast performance**
The 60 frames per second mode provides for optimum performance in fast action scenes that makes sure no critical data is lost and video is captured with excellent detail.

**Starlight X - Next level starlight performance**
Starlight X technology combines the latest high performance, large pixel sensors, optics, improved image processing and noise suppression, resulting in a 70% improved sensitivity compared to the standard starlight camera.

**HDR X - High Dynamic Range**
HDR X is a new technology that combines unique sensor functionality and advanced algorithms. It is a huge leap forward in capturing high quality video of moving objects in scenes with a large dynamic range. It also allows HDR imaging at lower light levels in which traditional HDR technologies are non-functional. This is possible because the HDR X - Motion optimized mode takes two different readouts from one exposure to capture details in both the highlights and shadows of the scene, instead of blending multiple exposures like standard HDR technologies. Blending multiple exposures reduces sharpness and creates unwanted imaging artefacts on moving objects. HDR X resolves these issues, providing a crisp image with improved dynamic range.

In case an even larger dynamic range is required, HDR X - Optimized DR or HDR X - Extreme DR will further increase performance to an absolute maximum by adding another fast exposure. This combines the benefits from HDR X - Motion optimized and traditional HDR.

**Scene modes**
Nine configurable modes are provided with the best settings for a variety of applications. In one click fully optimized image settings can be selected to suit the conditions. Different scene modes can be selected for different situations such as traffic or retail environments.

**Intelligent streaming**
Smart encoding capabilities, together with Intelligent Dynamic Noise Reduction technology and analytics, reduce the bandwidth consumption to extremely low levels. Only relevant information in the scene, like motion, or objects found with the analytics, need to be encoded.

The camera is capable of quad streaming which allows the camera to deliver independent, configurable streams for live viewing, recording, or remote monitoring via constrained bandwidths. Each of these streams can be adapted independently to deliver high quality video, perfectly tailored to purpose, while reducing bit rate by up to 90% compared to a standard camera.

**H.265 high-efficiency video encoding**
The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable of delivering high-quality and high-resolution video with very low network load. With a doubling of encoding efficiency, H.265 is the compression standard of choice for IP video surveillance systems.

**Bitrate optimized profile**
The average bitrate for the bitrate optimized profile using H.265 encoding in kbps for different frame rates can be found in the table provided below.

<table>
<thead>
<tr>
<th>FPS at 2.1MP</th>
<th>Low activity</th>
<th>Medium activity</th>
<th>High activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>836</td>
<td>1261</td>
<td>2753</td>
</tr>
<tr>
<td>30</td>
<td>504</td>
<td>753</td>
<td>1647</td>
</tr>
<tr>
<td>25</td>
<td>441</td>
<td>661</td>
<td>1440</td>
</tr>
<tr>
<td>15</td>
<td>306</td>
<td>461</td>
<td>992</td>
</tr>
<tr>
<td>10</td>
<td>229</td>
<td>347</td>
<td>740</td>
</tr>
<tr>
<td>5</td>
<td>140</td>
<td>214</td>
<td>450</td>
</tr>
<tr>
<td>3</td>
<td>97</td>
<td>150</td>
<td>313</td>
</tr>
<tr>
<td>1</td>
<td>45</td>
<td>70</td>
<td>144</td>
</tr>
</tbody>
</table>

**Notice**
Actual bitrate values may vary depending on scene complexity/activity and picture settings.

**Recording and storage management**
Recording management can be controlled by the Bosch Video Recording Manager application, or the camera can use local storage and iSCSI targets directly without any recording software. Local storage can be used for recording "at the edge" or for Automatic Network Replenishment (ANR) technology to improve the overall recording reliability. Pre-alarm recording in RAM reduces bandwidth consumption on the network and extends the effective life of the memory card.

**Advanced edge recording**
Advanced edge recording provides the most reliable storage solution possible due to the combination of the following functionalities:

- Dual SD cards that can be set up as either:
  - Mirrored, for redundant storage
  - Failover, for extended service intervals
  - Extended, for maximum retention time
- Industrial SD card support allows for extreme lifetime
- Health monitoring of industrial SD cards provide early service indications
**Intelligent Video Analytics on the edge**

The camera includes the latest release of the Intelligent Video Analytics application from Bosch. Specifically designed for the most demanding environments. It delivers the highest levels of accuracy for mission-critical applications such as perimeter protection of airports, critical infrastructures and government buildings, border patrol, ship tracking and traffic monitoring (e.g. wrong-way detection, traffic counts, monitoring road sides for parked cars).

Intelligent Video Analytics is extremely resistant to false triggers caused by challenging environments with snow, wind (moving trees), rain, hail, and water reflections. It is ideal for providing automatic object detection over large distances.

The set-up of Bosch’s video analytics is also second to none, which is great news for installers. Should your customer decide to use Intelligent Video Analytics, configuration and calibration couldn’t be easier. Simply enter the height of the camera and the rest of the calibration is carried out by the video analytics itself based on information provided by the camera’s built-in gyro sensor.

**Camera Trainer**

Based on examples of target objects and non-target objects, the Camera Trainer program uses machine learning to allow the user to define objects of interest and generate detectors for them. In contrast to the moving objects that the Intelligent Video Analytics application detects, the Camera Trainer program detects both moving and non-moving objects and classifies them immediately. Using Configuration Manager, you can configure the Camera Trainer program using both live video as well as recordings available through the respective camera. The resulting detectors can be downloaded and uploaded for distribution to other cameras.

A free of charge license is required to activate the Camera Trainer program.

**DORI coverage**

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video 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:

### 2 MP Camera with 4.4 mm - 10 mm

<table>
<thead>
<tr>
<th>DORI</th>
<th>DORI definition</th>
<th>Distance 4.4 mm / 10 mm</th>
<th>Horizontal width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detect</td>
<td>25 px/m</td>
<td>27 m / 86 m</td>
<td>77 m</td>
</tr>
<tr>
<td></td>
<td>8 px/ft</td>
<td>84 ft / 270 ft</td>
<td>240 ft</td>
</tr>
<tr>
<td>Observe</td>
<td>63 px/m</td>
<td>11 m / 34 m</td>
<td>31 m</td>
</tr>
<tr>
<td></td>
<td>19 px/ft</td>
<td>35 ft / 114 ft</td>
<td>101 ft</td>
</tr>
</tbody>
</table>

**Data security**

Special measures ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels and enforces a password. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 with updated cipher suites including AES encryption with 256 bit keys. No software can be installed in the camera, and only authenticated firmware can be uploaded. A three-level password protection with security recommendations allows users to customize device access.

Network and device access can be protected using 802.1x network authentication with EAP/TLS. Superior protection from malicious attacks is guaranteed by the Embedded Login Firewall, on-board Trusted Platform Module (TPM) and Public Key Infrastructure (PKI) support.

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

**System integration and ONVIF conformance**

The camera conforms to the ONVIF Profile S, ONVIF Profile G, ONVIF Profile M, and ONVIF Profile T specifications. For H.265 configuration, the camera supports Media Service 2, which is part of ONVIF Profile T. 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.

**Universal accessories**

A full line of universal accessories are available that allow a consistent design across different platforms and a wide range of installation possibilities. Several dedicated accessories are available that seamlessly fit to the camera and expand the different installation options over previous generations. Available options include: a clear or tinted replacement bubble, in-ceiling mounting kits, a surveillance cabinet with power and fiber optic options and different mounting options.
### Regulatory information

#### Standards

<table>
<thead>
<tr>
<th>Type</th>
<th>Emission</th>
<th>Immunity</th>
<th>Environmental</th>
<th>Safety</th>
<th>Image performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>EN 55032 Class B, EN 61000-6-3, EN 50121-4, IEC 62363-4, CFR 47 FCC part 15, Class B, ICES-003</td>
<td>EN 55035, EN 61000-6-2, EN 50130-4, IEC 62599-2, EN 55016-2-3, EN IEC 61000-4-2, EN IEC 61000-4-3, EN IEC 61000-4-4, EN IEC 61000-4-5, EN IEC61000-4-6, EN IEC 61000-4-8</td>
<td>EN 50130-5 Class II, Class III with NDA-8001-IP, UL 2043 when combined with NDA-8001-PLEN, EN 60068-2-1, EN 60068-2-2, EN 60068-2-6, EN 60068-2-18, EN 60068-2-27, EN 60068-2-30, EN 60068-2-42, EN 60068-2-75, EN 60068-2-78</td>
<td>EN 62368-1, IEC 62368-1, EN IEC 62368-1, UL 62368-1, CAN/CSA C22.2 No. 62368-1, IEC 62368-3, EN IEC 62368-3</td>
<td>IEC 62676-5</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>EN 62262 (K10)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>EN 60529 (IP5X/IP54 with NDA-8001-IP)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>2011/65/EU RoHS (EN 50581 and EN IEC 63000), 1907/2006 REACH, 2012/19/EU WEEE, 94/96/EC</td>
<td></td>
</tr>
<tr>
<td>Marks</td>
<td>CE, cULus, WEEE, RCM, EAC, China RoHS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Technical specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Power</th>
<th>Sensor</th>
<th>Sensitivity</th>
<th>Optical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Input voltage</td>
<td>Sensor type</td>
<td>Low-light technology</td>
<td>Lens</td>
</tr>
<tr>
<td>Type</td>
<td>PoE IEEE 802.3af / 802.3at Type 1, Class 3</td>
<td>1/1.8-inch CMOS</td>
<td>starlight X</td>
<td>4.4 to 10 mm P-iris lens (IR corrected); F-stop 1.3 - 1.97</td>
</tr>
<tr>
<td>Type</td>
<td>Power Consumption (typical / maximum)</td>
<td>Effective pixels</td>
<td></td>
<td>Adjustment</td>
</tr>
<tr>
<td>Type</td>
<td>PoE: 7 W / 11.5 W</td>
<td>1920 x 1080 4.1 μm pixels, 2.1MP (approx.)</td>
<td></td>
<td>Motorized zoom/focus</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>Iris control</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>P-iris control</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>Viewing angle</td>
</tr>
<tr>
<td>Type</td>
<td></td>
<td></td>
<td></td>
<td>Wide: 110° x 56° (H x V);</td>
</tr>
</tbody>
</table>

#### Region

<table>
<thead>
<tr>
<th>Regulatory compliance/quality marks</th>
<th>Great Britain</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>UKCA</td>
<td>UK_Declaration_of_Conformity</td>
<td>CE</td>
</tr>
<tr>
<td>CE</td>
<td>EU_Declaration_of_Conformity</td>
<td></td>
</tr>
</tbody>
</table>

#### Parts included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FLEXIDOME IP indoor 8000i - 2 MP X series camera</td>
</tr>
<tr>
<td>1</td>
<td>T-20 security torx bit</td>
</tr>
<tr>
<td>1</td>
<td>Quick installation guide</td>
</tr>
<tr>
<td>Optical</td>
<td>Video functions - color</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Tele: 48° x 27° (H x V)</td>
<td>White Balance: 2500 to 10000K, 4 automatic modes (Basic, Standard, Sodium lamp, Dominant color), Manual mode and Hold mode</td>
</tr>
<tr>
<td><strong>Platform</strong></td>
<td><strong>Video functions - ALC</strong></td>
</tr>
<tr>
<td>Common product platform: CPP7.3</td>
<td>ALC: Mode (standard, fluorescent), Level, Average vs. peak, Speed, Maximum gain</td>
</tr>
<tr>
<td><strong>Video streaming</strong></td>
<td>Exposure: Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter, Maximum shutter</td>
</tr>
<tr>
<td>Video compression: H.265; H.264; M-JPEG</td>
<td>P-iris: Automatic/manual, priority</td>
</tr>
<tr>
<td>Sensor modes: 25 fps, HDR X, 1920 x 1080 (2.1 MP); 30 fps, HDR X, 1920 x 1080 (2.1 MP); 50 fps, 1920 x 1080 (2.1 MP); 60 fps, 1920 x 1080 (2.1 MP)</td>
<td>Day/Night: Auto (adjustable switch points), Color, Monochrome</td>
</tr>
<tr>
<td>Streaming: Multiple configurable streams in H.264, H.265 and M-JPEG, configurable frame rate and bandwidth. Regions of Interest (ROI); Bosch Intelligent Streaming</td>
<td><strong>Video functions - enhance</strong></td>
</tr>
<tr>
<td>Camera latency: 67 ms (60 fps)</td>
<td>High dynamic range: HDR X - Motion optimized, HDR X - Optimized DR, HDR X - Extreme DR</td>
</tr>
<tr>
<td>GOP structure: IBBP</td>
<td>Enhancements: Backlight compensation, Contrast enhancement, Intelligent Auto Exposure</td>
</tr>
<tr>
<td>Frame rate: 1-60 fps</td>
<td>Intelligent defog: Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)</td>
</tr>
<tr>
<td>Signal-to-Noise Ratio (SNR): &gt;55 dB</td>
<td>Sharpness: Sharpness enhancement level selectable</td>
</tr>
<tr>
<td><strong>Video resolution (H x V)</strong></td>
<td>Noise reduction: Intelligent Dynamic Noise Reduction with separate temporal and spatial adjustments</td>
</tr>
<tr>
<td>Supported resolutions: HD 1080p 1920 x 1080, 1.3MP 1536 x 864, 1.3MP (5:4) 1280 x 1024, HD 720p 1280 x 720, SD 432p 768 x 432, SD 480p (4:3) 720 x 480, VGA (4:3) 640 x 480</td>
<td><strong>Video content analysis</strong></td>
</tr>
<tr>
<td><strong>Camera installation</strong></td>
<td>Analysis type: Intelligent Video Analytics, Camera Trainer</td>
</tr>
<tr>
<td>Mirror image: On / Off</td>
<td>Maximum IVA detection range: Wide: 5.33 m - 37.34 m (17.49 ft - 122.51 ft) Tele: 11.80 m - 115.87 m (38.71 ft - 380.15 ft) (depending on setup and scene)</td>
</tr>
<tr>
<td>Rotate: 0° / 90° upright / 180° / 270° upright</td>
<td>Configurations: Silent VCA / Profile1/2 / Scheduled / Event triggered</td>
</tr>
<tr>
<td>Camera LED: Auto disable/Enable/Disable</td>
<td>Alarm rules (combinable): Any object, Object in field, Line crossing, Enter / leave field, Loitering, Follow route, Idle / removed object, Counting, Occupancy, Crowd density estimation, Condition change, Similarity search, Flow / counter flow</td>
</tr>
<tr>
<td>Positioning: Coordinates / Mounting height</td>
<td>Object filters: Duration, Size, Aspect ratio, Speed, Direction, Color, Object classes (4)</td>
</tr>
<tr>
<td>Camera view wizard: Motorized pan, tilt, roll, zoom, autofocus</td>
<td>Tracking modes: Standard (2D) tracking, 3D tracking, 3D people tracking, Ship tracking, Museum mode</td>
</tr>
<tr>
<td><strong>Video functions - color</strong></td>
<td><strong>Video functions - ALC</strong></td>
</tr>
<tr>
<td>Adjustable picture settings: Contrast, Saturation, Brightness</td>
<td>ALC: Mode (standard, fluorescent), Level, Average vs. peak, Speed, Maximum gain</td>
</tr>
<tr>
<td></td>
<td>Exposure: Automatic Electronic Shutter (AES); Fixed shutter (1/25[30] to 1/15000) selectable; Default shutter, Maximum shutter</td>
</tr>
<tr>
<td></td>
<td>P-iris: Automatic/manual, priority</td>
</tr>
<tr>
<td></td>
<td>Day/Night: Auto (adjustable switch points), Color, Monochrome</td>
</tr>
</tbody>
</table>
### Video Content Analysis
- **Calibration / Geolocation**: Automatic, based on gyro sensor, focal length and camera height
- **Additional functionalities**: Tamper detection, Face detection

### Additional Functions
- **Scene modes**: 10 default modes with scheduler: Standard, Sodium lighting, Fast movement, Sensitivity boost, Dynamic backlight, Vibrant, Color only, Sports & Gaming, Retail, License Plate Recognition (LPR)
- **Privacy Masking**: Eight independent areas, fully programmable
- **Display stamping**: Name; Logo; Time; Alarm message
- **Pixel counter**: Selectable area

### Local Storage
- **Internal RAM**: 5 s pre-alarm recording
- **Memory card slots**: Dual SDXC/SDHC microSD card slots, up to 2TB
- **Dual SD-card slot configurations**
  - Mirror (redundant storage)
  - Failover (extended service interval)
  - Extend (maximum retention time)
  - Automatic Network Replenishment
- **Industrial SD cards**: Extreme lifetime and health monitoring support that provides early service indication.

### Input/output
- **Ethernet**: Shielded RJ45
- **Surge protection**: Ethernet: 1 kV, 2 kA to ground (8/20 µs pulse)
- **Fiber optics (sold separately)**: The Fiber Optic Ethernet Media Converter kit (VG4-SFPSCKT) installed inside a Surveillance Cabinet (NDA-U-PA0, NDA-U-PA1 or NDA-U-PA2) provides the fiber optic interface to the mounted camera.

### Audio Streaming
- **Audio input**: Built-in microphone (can be permanently disabled)
- **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

### 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
- **Ethernet**: 10/100 Base-T
- **Interoperability**: ONVIF Profile S; ONVIF Profile G; ONVIF Profile M; ONVIF Profile T

### Data Security
- **Crypto Coprocessor (TPM)**: RSA 2048 bit, AES/CBC 256 bit
- **PKI**: X.509 certificates
- **Encryption**: Full end-to-end encryption with supported VMS
- **Network**: TLS1.0/1.2, AES128, AES256
- **Local storage**: XTS-AES
- **Video authentication**: checksum, MD5, SHA-1, SHA-256

### Mechanical
- **Dimensions (D x H)**: 177 x 148 mm (6.97 x 5.83 in)
- **Weight**: 2040.00 g (4.5 lbs)
- **Mounting**: Surface mount
- **Color**: White (RAL9003)
- **Motorized PTR range**
  - Pan: 0º to +361º
  - Tilt: -3º to +85º
  - Roll: -95º to +95º
- **Dome bubble**: Polycarbonate, clear with UV blocking anti-scratch coating
- **Housing**: Aluminium with dehumidifying membrane and polycarbonate shell

### Environmental
- **Operating temperature**: -20°C to +55°C (-4°F to +131°F) for continuous operation
- **Storage temperature**: -30°C to +70°C (-22°F to +158°F)
**Environmental**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating humidity</td>
<td>5% to 93% RH non condensing</td>
</tr>
<tr>
<td>Storage humidity</td>
<td>Up to 98% RH</td>
</tr>
<tr>
<td>Impact resistance casing</td>
<td>IK10</td>
</tr>
<tr>
<td>Water/dust protection</td>
<td>IP5X, IP54 with NDA-8001-IP</td>
</tr>
</tbody>
</table>

**Ordering information**

**NDV-8502-RX Fixed dome 2MP HDR X 4.4-10mm PTRZ**
Fixed dome 2 MP HDR X PTRZ H.265 IVA
Order number **NDV-8502-RX | F.01U.393.108**

**Accessories**

- **NDA-8001-IP** IP54 protection kit, 3 pcs
- **NDA-8000-CBL** Clear replacement bubble
- **NDA-8000-TBL** Tinted Bubble
- **NDA-8001-IC** In-ceiling mount kit
- **NDA-8001-PLEN** Plenum-rated mount kit
- **NDA-8000-SP** In-ceiling mount support kit
- **NDA-8000-PIP** Pendant interface plate, indoor
- **NDA-U-WMT** Pendant wall mount
- **NDA-U-PMT** Pendant pipe mount, 12" (31cm)
- **NDA-U-PMTS** Pendant pipe mount, 4" (11 cm)

**Order numbers**

- **NDA-8001-IP | F.01U.394.830**
- **NDA-8000-CBL | F.01U.324.934**
- **NDA-8000-TBL | F.01U.324.973**
- **NDA-8001-IC | F.01U.398.407**
- **NDA-8001-PLEN | F.01U.398.393**
- **NDA-8000-SP | F.01U.324.937**
- **NDA-8000-PIP | F.01U.324.938**
- **NDA-U-WMT | F.01U.324.939**
- **NDA-U-PMT | F.01U.324.940**
- **NDA-U-PMTS | F.01U.385.046**

**Represented by:**

**Europe, Middle East, Africa:**
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax:+31 40 2577 285
Email: sales@boschsecurity.com
Website: www.boschsecurity.com

**Germany:**
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Gräfratzen, Germany
Tel.: +49 (0)89 6290 0
Fax:+49 (0)89 6290 1020
d.securitysystems@bosch.com
Website: www.boschsecurity.com

**North America:**
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
Email: onlinehelp.us.bosch.com
Website: www.boschsecurity.com

**Asia-Pacific:**
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2669
Email: en.securitysystems@bosch.com
Website: www.boschsecurity.com