**BOSCH**

# DINION IP ultra 8000 MP

- ▶ 12MP (4K UHD) for exceptional detail at fast speeds
- ▶ Built-in Intelligent Video Analytics to trigger relevant alerts and quickly retrieve data
- ▶ Low network strain and storage costs
- ▶ Outstanding wide dynamic range (92+16 dB)
- ▶ Long distance identification with telephoto lenses

The DINION IP ultra 8000 MP with 12 megapixel resolution offers crisp, clear and extremely detailed images for the most demanding IP video surveillance requirements. It captures 12 megapixel at 20 fps, and 4K UHD at 30 fps, so providing images of fast moving objects in high resolutions. The content-rich image allows effective retrospective analysis at the level of detail that makes the difference when collecting forensic evidence.

## System overview

Advanced image processing techniques take the DINION IP ultra 8000 MP to the next level. Intelligent Video Analytics tracks and focuses on relevant situations and adds sense and structure to stored video, allowing you to quickly retrieve the correct data.
Intelligent Auto Exposure gives superb front and back light compensation, providing you with the perfect picture every time.
Intelligent Dynamic Noise Reduction saves bitrate at the source and only uses bandwidth when needed. This results in up to 50% less bitrate and significantly reduces storage costs and network strain without compromising on video quality.

## Functions

**Measured dynamic range**
The dynamic range of the camera is outstanding and is obvious in real world performance comparisons — 92 dB wide dynamic range for 4K UHD mode (plus an extra 16 dB when combined with Intelligent Auto Exposure).
The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis with a standardized test chart based on ISO standards. This method provides more realistic and verifiable results in comparison with the theoretical approximations sometimes used.

**Intelligent Video Analytics**
The built-in video analytics is both robust and intelligent. The Intelligence-at-the-Edge concept now delivers even more powerful features:
- False alarm reduction
- Extended range identification
- Crowd and queue management
- Density and flow counting

The mission critical video analytics reliably detects, tracks, and analyzes objects, and alerts you when predefined alarms are triggered. A smart set of alarm rules, together with object filters and tracking modes, makes complex tasks easy.
The system is also extremely robust and is able to reduce false alarms, for example from foliage or shaking objects, even in harsh weather conditions.
The next step in video analytics is taken with the incorporation of machine learning capabilities. With Camera Trainer you can tailor the built-in Intelligent

Video Analytics to detect new user-defined moving or stationary objects and situations, or any subsequent changes.

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.

### Intelligent Auto Exposure
Fluctuations in backlight and front light can ruin your images. To achieve the perfect picture in every situation, Intelligent Auto Exposure automatically adjusts the exposure of the camera. It offers superb front light compensation and incredible backlight compensation by automatically adapting to changing light conditions.

### Intelligent Dynamic Noise Reduction
Quiet scenes with little or no movement require a lower bitrate. By intelligently distinguishing between noise and relevant information, Intelligent Dynamic Noise Reduction reduces bitrate by up to 50%. Because noise is reduced at the source during image capture, the lower bitrate does not compromise on video quality.

With the release of FW6.40 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 adjusts 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 bandwidth in kbits/s for various frame rates is shown in the table:

| fps | 12MP (4:3) | 4K UHD | 1080p |
|-----|-----------|--------|-------|
| 30 | - | 3000 | 800 |
| 25 | - | 2839 | 757 |
| 15 | 2712 | 2389 | 637 |
| 10 | 2306 | 2031 | 541 |
| 5 | 1612 | 1420 | 379 |

| fps | 12MP (4:3) | 4K UHD | 1080p |
|-----|-----------|--------|-------|
| 2 | 694 | 611 | 163 |

### Selectable resolution and aspect ratio
The camera has three basic application variants that can be chosen at start-up to provide the best possible performance for typical applications:
- 12MP (4:3)
- 4K UHD (16:9)
- 1080p (16:9)

The 12MP variant can be used in applications where the highest resolution possible is required. The 4K UHD variant is suitable for applications where the 16:9 4K standard is required with a frame rate of 30 fps. The 1080p30 (16:9) variant is for applications that require extra sensitivity and dynamic range. Each of these variants selects the best possible tuning parameters for the application so that you get the best performance possible from your camera.

### Scene modes
The camera has a very intuitive user interface that allows fast and easy configuration. Nine configurable modes are provided with the best settings for a variety of applications. Different scene modes can be selected for day or night situations.

### 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, plus easy integration with third-party video management systems.

Depending on the resolution and frame rate selected for the first stream, the second stream provides a copy of the first stream or a lower resolution 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.

### 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.

Intelligent Tracking continuously analyses the scene for moving objects. If a moving object is detected, the camera automatically adjusts its settings, including field of view, to optimally capture details of the object of interest.

### Easy installation
Power for the camera can be supplied via a Power-over-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 cost-effective, 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 cross-over cables.

### 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
Insert a memory card into the card slot to store up to 2 TB of local alarm recording. Pre-alarm recording in RAM reduces recording bandwidth on the network, and extends the effective life of the memory card.

### 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.

### Data security
Special measures are necessary to ensure the highest level of security for device access and data transport. On initial setup, the camera is only accessible over secure channels. You must set a service-level password in order to access camera functions. Web browser and viewing client access can be protected using HTTPS or other secure protocols that support state-of-the-art TLS 1.2 protocol 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 protocol. 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

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

### System integration and ONVIF conformance
The camera conforms to the ONVIF Profile S, ONVIF Profile G,ONVIF Profile M, and ONVIF Profile T specifications.

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

### Lens options
The camera has a C/CS lens mount and motorized focus adjustment.

There are four megapixel lenses optionally available for the camera body version, one varifocal and three fixed focal length versions:
- a 4-13 mm P-iris varifocal lens (LVF-8008C-P0413)
- a 35 mm fixed telephoto lens (LFF-8012C-D35)
- a 50 mm fixed telephoto lens (LFF-8012C-D50)
- a 75 mm fixed telephoto lens (LFF-8012C-D75)

The camera body includes an auto-focus lens wizard to ensure that lenses can be easily focused. The automatic motorized focus adjustment with 1:1 pixel mapping ensures that the camera with these telephoto lenses is always focused accurately.

### Housing options
To protect the camera, two housings are optionally available (UHO-POE-10 and UHO-HBGS-x1). When choosing a housing keep the following in mind:
- A camera with a 75 mm telephoto lens is too long for the UHO-POE-10 housing; use the UHO-HBGS-x1 housing instead.

### 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:

**12MP Camera with 4-13 mm lens (29°-90°)**

| DORI | DORI definition | Distance 4 mm / 13 mm | Horizontal width |
|---|---|---|---|
| Detect | 25 px/m (8 px/ft) | 80 m (262 ft) / 309 m (1013 ft) | 160 m (525 ft) |
| Observe | 63 px/m (19 px/ft) | 32 m (104 ft) / 123 m (403 ft) | 63 m (207 ft) |
| Recognize | 125 px/m (38 px/ft) | 16 m (52 ft) / 62 m (203 ft) | 32 m (105 ft) |

| DORI | DORI definition | Distance 4 mm / 13 mm | Horizontal width |
|---|---|---|---|
| Identify | 250 px/m (76 px/ft) | 8 m (26 ft) / 31 m (101 ft) | 16 m (53 ft) |

### 12MP Camera with 35 mm lens (9.8°)

| DORI | DORI definition | Distance | Horizontal width |
|---|---|---|---|
| Detect | 25 px/m (8 px/ft) | 933 m (3061 ft) | 160 m (525 ft) |
| Observe | 63 px/m (19 px/ft) | 370 m (1214 ft) | 63 m (207 ft) |
| Recognize | 125 px/m (38 px/ft) | 187 m (590 ft) | 32 m (105 ft) |
| Identify | 250 px/m (76 px/ft) | 93 m (295 ft) | 16 m (53 ft) |

### 12MP Camera with 50 mm lens (6.8°)

| DORI | DORI definition | Distance | Horizontal width |
|---|---|---|---|
| Detect | 25 px/m (8 px/ft) | 1347 m (4419 ft) | 160 m (525 ft) |
| Observe | 63 px/m (19 px/ft) | 534 m (1752 ft) | 63 m (207 ft) |
| Recognize | 125 px/m (38 px/ft) | 269 m (883 ft) | 32 m (105 ft) |
| Identify | 250 px/m (76 px/ft) | 135 m (443 ft) | 16 m (53 ft) |

### 12MP Camera with 75 mm lens (4.7°)

| DORI | DORI definition | Distance | Horizontal width |
|---|---|---|---|
| Detect | 25 px/m (8 px/ft) | 1949 m (6394 ft) | 160 m (525 ft) |
| Observe | 63 px/m (19 px/ft) | 774 m (2539 ft) | 63 m (207 ft) |
| Recognize | 125 px/m (38 px/ft) | 390 m (1280 ft) | 32 m (105 ft) |
| Identify | 250 px/m (76 px/ft) | 195 m (640 ft) | 16 m (53 ft) |

## Regulatory information

| Standards | Type |
|---|---|
| Emission | EN 55032:2010 / AC:2013, Class B<br>CFR 47 FCC part 15:2010-10-1, Class B |
| Immunity | EN 50130-4:2011* / A1:2014<br>EN 50121-4 (2016), +AC: (2008) |
| Environmental | EN 50130-5 Class II (2011) |
| Safety | EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013<br>IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013<br>UL 60950-1, 2nd edition, 2011<br>CAN/CSA-C22.2 No. 60950-1-07, 2nd edition<br>EN 62368-1 :2014 /AC:2015<br>IEC 62368-1:2014 (Second Edition)<br>UL 62368-1, Ed. 2, 2014<br>CSA C22.2 NO. 62368-1-14 |
| Vibration | Camera with 500 g (1.1 lb) lens as per IEC 60068-2-6 (5 m/s$^2$, operational) |
| UHD | SMPTE 2036-2012<br>Resolution: 3840 × 2160 (UHDTV1)<br>4K UHD (2160p) |
| HD | SMPTE 274M-2008<br>Resolution: 1920 × 1080 |
| Color representation | ITU-R BT.2020 |
| ONVIF conformance | EN 50132-5-2; IEC 62676-2-3 |

\* All systems where this camera is used must comply with this standard as well.

| | |
|---|---|
| Marks | CE, cULus, WEEE, RCM, EAC and China RoHS, KCC (South Korea), BIS (India) |

| Region | | Regulatory compliance/quality marks |
|---|---|---|
| Great Britain | UKCA | NBN-80052-BA; NBN-80122-CA |
| Europe | CE | NBN-80052-BA; NBN-80122-CA |

## Installation/configuration notes

### Controls
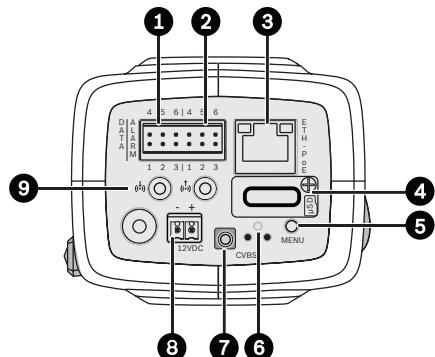


| | | | |
|---|---|---|---|
| 1 | Data (RS485/422/232) | 6 | Reset button |
| 2 | Alarm in, alarm out | 7 | Video out (SMB connector) |
| 3 | 10/100 Base-T Fast Ethernet | 8 | Power supply input (12 VDC only) |
| 4 | MicroSD card slot | 9 | Audio in / Audio out |
| 5 | Menu button | | |

### Dimensions



66 (2.60)

78 (3.07)          mm (in)



60 (2.35)

140 (5.51)
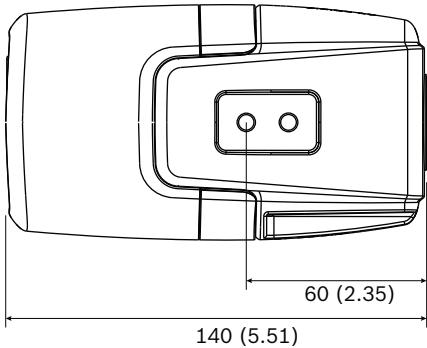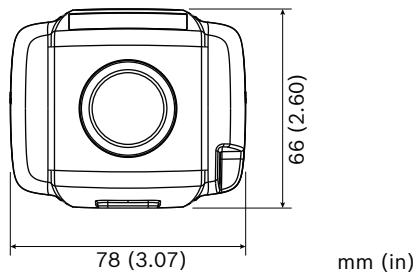
## Technical specifications

| Power | |
|---|---|
| Power Supply | 12 VDC; Power-over-Ethernet 48 VDC nominal |
| Current Consumption | 750 mA (12 VDC); |

| Power | |
|---|---|
| | 200 mA (PoE 48 VDC) |
| Power Consumption | 9 W |
| PoE | IEEE 802.3af (802.3at Type 1) Class 3 |

| Sensor | |
|---|---|
| Type | 1/2.3-inch CMOS |
| Pixels | 12 MP |

| Video performance - Dynamic range | |
|---|---|
| 12 MP (4:3) mode | 92 dB WDR (92+16 dB with IAE) |
| 4K UHD (16:9) mode | 92 dB WDR (92+16 dB with IAE) |
| 1080p mode | 98 dB WDR (98+16 dB with IAE) |

| Video performance - Sensitivity (3200K, 89% reflectivity, 30% IRE, F1.2) | |
|---|---|
| Color (12MP / 4K UHD mode) | 0.11 lx |
| Color (1080p mode) | 0.09 lx |
| Mono (12MP / 4K UHD mode) | 0.037 lx |
| Mono (1080p mode) | 0.030 lx |

| 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 30 [25] fps |
| Encoder regions | Up to 8 areas with encoder quality settings per area |

| Video resolution (H x V) | |
|---|---|
| 12MP | 4000 x 3000 (at 20 fps) |

### Video resolution (H x V)

| | |
|---|---|
| 4K UHD | 3840 x 2160 (at 30 fps) |
| 7.3MP | 3584 x 2016 (at 30 fps) |
| 1080p HD | 1920 x 1080 (at 30 fps) |
| 720p HD | 1280 x 720 (at 30 fps) |
| SVGA | 800 x 600 |
| D1 4:3 (downscaled/cropped) | 704 x 480 |
| 480p SD | Encoding: 704 x 480; Displayed: 854 x 480 |
| 432p SD | 768 x 432 |
| 288p SD | 512 x 288 |
| 240p SD | Encoding: 352 x 240; Displayed: 432 x 240 |
| 144p SD | 256 x 144 |

### Video functions

| | |
|---|---|
| Day/Night | Color, Monochrome, Auto (adjustable switchover points) |
| Adjustable picture settings | Contrast, Saturation, Brightness |
| White Balance | 2500 to 10000K, 4 automatic modes, manual mode and measure |
| Shutter | Automatic Electronic Shutter (AES) Fixed (1/30 [1/25] to 1/15000) selectable Default shutter |
| Backlight compensation | Off, Auto, Intelligent Auto Exposure |
| Noise reduction | Intelligent Dynamic Noise Reduction Intelligent Streaming |
| Contrast enhancement | On/off |
| 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 Motion Analysis | Intelligent Video Analytics |

### Video functions

| | |
|---|---|
| Scene modes | Nine pre-defined modes |
| Other functions | Image flip, Pixel counter, Video watermarking, Display stamping, Positioning |

### 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 |

### Input/output

| | |
|---|---|
| Analog video out | SMB connector, CVBS (PAL/NTSC), 1 Vpp, 75 Ohm |
| Audio line in | 1 Vrms max, 18 kOhm typical, |
| Audio line out | 0.85 Vrms at 1.5 kOhm typical, |
| Audio connectors | 3.5 mm mono jack |
| Alarm input | 2 inputs |
| Alarm input activation | +5 VDC nominal; +40 VDC max. (DC-coupled with 50 kOhm pull-up resistor to +3.3 VDC) (< 0.5 V is low; > 1.4 V is high) |
| Alarm output | 1 output |
| Alarm output voltage | 30 VAC or +40 VDC max. Maximum 0.5 A continuous, 10VA (resistive load only) |
| Ethernet | RJ45 |
| Data port | RS-232/422/485 |

### Local storage

| | |
|---|---|
| Internal RAM | 10 s pre-alarm recording |
| Memory card slot | Supports up to 32 GB microSDHC / 2 TB microSDXC card. Extreme lifetime and health monitoring support that provides early service indication. Recommended: Industrial microSD cards with health monitoring |
| Recording | Continuous recording, ring recording. |

## Local storage

|  | |
|---|---|
|  | 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 | Full end-to-end encryption with supported VMS<br><br>Network: TLS1.0/1.2, AES128, AES256<br><br>Local storage: XTS-AES |
| Ethernet | 10/100 Base-T, auto-sensing, half/full duplex |
| Connectivity | Auto-MDIX |
| Interoperability | ONVIF Profile S, ONVIF Profile G, ONVIF Profile M, ONVIF Profile T |

## Environmental

| | |
|---|---|
| Operating Temperature | -20°C to +50°C (-4°F to 122°F) |
| Storage Temperature | -30°C to +70°C (-22°F to +158°F) |
| Operating Humidity | 20% to 93% RH |
| Storage Humidity | up to 98% RH |

## Optical

| | |
|---|---|
| Lens mount | CS mount (C-mount with adapter ring) |
| Lens connector | Standard 4-pin P-iris* connector |
| Focus control | Motorized back-focus adjustment |
| Iris control | P-iris* control |

* P-iris control supported in combination with Bosch LVF-8008C-P0413 lens

## Mechanical

| | |
|---|---|
| Dimensions (W × H × L) | 78 × 66 × 140 mm (3.07 × 2.6 × 5.52 inch) without lens |
| Weight | 840 g (1.85 lb) without lens |
| Color | RAL 9007 Metallic Titanium |
| Tripod Mount | Bottom (isolated) and top 1/4-inch 20 UNC |

## Mechanical

| | |
|---|---|
| Sustainability | PVC free |

## Ordering information

**NBN-80122-CA Fixed camera 12MP**
High-performance 12 MP box cameras for intelligent 4K UHD surveillance (without lens) with audio/motion detection and motorized auto-focus.
NDAA compliant
Order number **NBN-80122-CA | F.01U.364.633 F.01U.309.129**

**NBN-80122-F2A DINION IP ultra 8000 12MP 120° IVA**
High-performance 12 MP box camera for intelligent 4K UHD surveillance. 12MP; PoE; IAE; IDNR; ROI (E-PTZ); IVA; H.264 quad-streaming; free viewing apps; cloud services; audio/motion detection; 3.2 mm lens
Order number **NBN-80122-F2A | F.01U.288.841**

**NBN-80122-F6A DINION IP ultra 8000 12MP 70° IVA**
High-performance 12 MP box camera for intelligent 4K UHD surveillance. 12MP; PoE; IAE; IDNR; ROI (E-PTZ); IVA; H.264 quad-streaming; free viewing apps; cloud services; audio/motion detection; 5 mm lens
Order number **NBN-80122-F6A | F.01U.288.840**

### Accessories

**LFF-8012C-D35 Fixed lens, 35mm, telephoto, megapixel**
Fixed telephoto megapixel lens ; manual iris; IR corrected; C-mount; 2/3" ; F1.8; 35mm
Order number **LFF-8012C-D35 | F.01U.309.130**

**LFF-8012C-D50 Fixed lens, 50mm, telephoto, megapixel**
Fixed telephoto megapixel lens ; manual iris; IR corrected; C-mount; 2/3" ; F2.0; 50mm
Order number **LFF-8012C-D50 | F.01U.309.131**

**LFF-8012C-D75 Fixed lens, 75mm, telephoto, megapixel**
Fixed telephoto megapixel lens ; manual iris; C-mount; 1/1.8" ; F1.8; 75mm
Order number **LFF-8012C-D75 | F.01U.310.976**

**LVF-8008C-P0413 Varifocal lens, 4-13mm, 12MP, CS mount**
Varifocal megapixel lens; P-iris; CS-mount; 1/1.8" ; F1.5; 4-13mm
Order number **LVF-8008C-P0413 | F.01U.319.331**

**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 | F.01U.291.564**

**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 | F.01U.291.565**

**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 | F.01U.076.155**

**UPA-1220-50 Power supply, 220VAC 50Hz, 12VDC 1A out**
Power supply for camera. 110-240 VAC, 50/60 Hz In; 12 VDC, 1 A Out; regulated.
Input connector: 2-prong, European Europlug standard (4 mm / 19 mm).
Order number **UPA-1220-50 | F.01U.076.158**

**TC9210U Camera mount, 6", indoor**
A universal 6-inch wall/ceiling grid with off-white finish for 4.5 kg (10 lb) max load, incl. T-Bar ceiling clip and wall/ceiling mount flange.
Order number **TC9210U | F.01U.143.373**

**UHO-HBGS-51 Outdoor housing, blower, 230VAC/35W**
Outdoor housing for (230 VAC / 12 VDC) camera with 230 VAC power supply, blower and feed-through cabling.
Order number **UHO-HBGS-51 | F.01U.302.310**

**UHO-HBGS-61 Outdoor housing, blower, 120VAC/35W**
Outdoor housing for (120 VAC / 12 VDC) camera.
120 VAC power supply; blower; feed-through cabling
Order number **UHO-HBGS-61 | F.01U.302.311**

**UHO-HBGS-11 Outdoor housing, 24VAC, feed-through**
Outdoor housing for (24 VAC / 12 VDC) camera with 24 VAC power supply, blower and feed-through cabling.
Order number **UHO-HBGS-11 | F.01U.302.304**

**UHO-POE-10 Outdoor housing, POE + power supply**
Outdoor camera housing with PoE+ power supply.
Order number **UHO-POE-10 | F.01U.300.502**

**LTC 9215/00 Wall mount with cable feed through, 12"**
Wall mount for camera housing, cable feed-through, 30 cm (12 in); for outdoor use.
Order number **LTC 9215/00 | 4.998.137.651**

**LTC 9215/00S Wall mount for UHI/UHO**
Wall mount for camera housing, cable feed-through, 18 cm (7 in); for indoor use.
Order number **LTC 9215/00S | F.01U.503.621**

**LTC 9219/01 Feed through J mount**
J-mount for camera housing, 40 cm (15 in); for indoor use.
Order number **LTC 9219/01 | F.01U.503.623**

**LTC 9210/01 Column mount, 8", 9KG/20lb load**
Feed-through column mount for 20 cm (8 in), 5 kg (11 lb) maximum load; light gray finish; for indoor use.
Order number **LTC 9210/01 | F.01U.027.057**

**LTC 9213/01 Pole mount adapter for LTC9210,9212,9215**
Flexible pole mount adapter for camera mounts (use together with the appropriate wall mount bracket). Max. 9 kg (20 lb); 3 to 15 inch diameter pole; stainless steel straps
Order number **LTC 9213/01 | F.01U.009.291**

**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 | F.01U.305.288**

**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 | F.01U.305.289**