

Quickly jump to

[Fixed cameras](#)

[Moving cameras](#)



# Video product overview

September 2022



# Table of Contents

|                       |    |
|-----------------------|----|
| Video Analytics       | 6  |
| Dome Cameras          | 11 |
| Fixed Cameras         | 24 |
| Specialty Cameras     | 28 |
| Moving Cameras        | 30 |
| Digital Recording     | 35 |
| Digital Storage       | 37 |
| Video Software        | 42 |
| Viewing Software      | 43 |
| Encoders and Decoders | 44 |
| Flat Panel Monitors   | 45 |
| Notes                 | 46 |

# THE POWER TO PREDICT

Know what's next

Video  
solutions  
from Bosch



### **Imagine when customers can predict unforeseen or future situations**

They can prevent things from happening to strengthen the protection of people and property. Or they can uncover business opportunities that create new revenue streams or reduce operational costs. Early on, Bosch understood this market trend and developed solutions to enable customers to make good and efficient use of the rich and versatile visual data of video things. AI-driven video solutions, from Bosch, like intelligent cameras, add sense and structure to captured video footage. Their built-in artificial intelligence enables them to understand what they're seeing and give customers a smart choice to know what's next. AI-driven video solutions from Bosch support predictive analytics by bringing together rich contextual and behavioral information that help customers respond before a potential situation occurs and deliver business intelligence that goes beyond security. Everything we do is designed around our customers' needs, built on trust, and supports sustainable business practices. Our ultimate goal is to give our customers the Power to Predict. So they know what's next.



# Agile video surveillance solutions, tailored for business

VSaaS by Bosch enables users to monitor, manage, record, and replay video footage directly in the cloud. It helps site managers, security operators, or operations staff make quick decisions when faced with events, preventing them from becoming incidents. The solution is highly flexible and scales with any business.



## A true cloud solution



Cameras are the only on-site requirement



Remote management and maintenance



Easy and secure connection



Cloud or edge recording

## Future-proof investment



Up to 18,000 cameras per cloud instance



Unlimited number of web clients



Flexible storage size



Pay only what you use

## Predictive solution



VSaaS and Bosch IP cameras with built-in AI to support predictive solutions

## Convenience



Easy and secure access to video footage from anywhere at any time

## Cost-efficiency



Reduced upfront investment

## Alarm Management



Alarm-centric solution for efficient intervention

## Openness



No vendor lock-in – Bosch cameras keep their benefits when used with other providers



Third-party camera compatibility



Open ecosystem, configuration and integration capabilities

## Data security



Certificate based end-to-end security



Regular and automated system updates

# Bosch AI-driven Video Solutions

**Video analytics** is a form of artificial intelligence (AI) built into all Bosch cameras as standard. We leverage the power of AI to enable users to understand their environment more deeply, so they can respond proactively. And ultimately, predict unforeseen or future situations.

## Video Analytics

### Essential Video Analytics

Essential Video Analytics is the first step in object detection and data collection. Ideal for general security and safety applications, the software can trigger alerts for applications such as loitering or when a person or object enters a pre-defined field. It is specially tuned for short and mid-range distances.

### Intelligent Video Analytics (IVA)

Intelligent Video Analytics (IVA) offers automatic object detection with 16 pre-determined alarm rules and filters, so users can decide what to focus on per scene. It is highly resistant to false triggers caused by challenging weather, such as snow, wind (moving trees), rain, hail, and water reflections.

## Introducing: Intelligent Video Analytics Pro (IVA Pro)

New AI technologies like machine learning and deep neural networks have enriched video analytics. With the introduction of our latest cameras, we will offer an expert set of video security analytics called Intelligent Video Analytics Pro (IVA Pro). IVA Pro delivers application-specific packages for advanced intrusion detection in and around buildings, perimeter security, and traffic monitoring, and gathering business insights such as accurately and reliably detecting and counting people and vehicles.

IVA Pro **Buildings** Pack, based on deep learning, is ideal for advanced intrusion detection in and around buildings. It also provides accurate people counting and is easy to use and deploy with no calibration.

IVA Pro **Perimeter** Pack is well-suited for long-distance object detection alongside perimeters, providing reliable alerts even in severe weather and challenging intrusion movements.

IVA Pro **Traffic** Pack, based on deep learning, supports traffic monitoring and people counting applications in busy scenes. The software detects, classifies, and locates vehicle sub-classes including cars, trucks, buses, motorcycles, and bicycles. Data collected provides actionable insights for improving the efficient use of roadways and the safety of people and vehicles in tunnels and highways.

# Fixed cameras

## Indoor

### Essential Video Analytics

**FLEXIDOME IP micro 3000i**



**NDV-3503-Fxx**  
Up to 5MP

**FLEXIDOME IP turret 3000i IR**



**NTV-350x-FxxL**  
Up to 5MP

**FLEXIDOME IP 5000i**



**NDI-5503-A**  
30 fps@5MP

**FLEXIDOME IP 5000i IR**



**NDI-5503-AL**  
30 fps@5MP, IR

**DINION IP starlight 7000 HD**



**NBN-73013-BA**  
60 fps@720p, starlight

**DINION IP starlight 7000 HD**



**NBN-73023-BA**  
60 fps@1080p, starlight

**DINION IP starlight 8000 MP**



**NBN-80052-BA**  
30 fps@5MP, starlight

**DINION IP ultra 8000 MP**



**NBN-80122-CA**  
30 fps@UHD

**FLEXIDOME indoor 5100i**



**NDV-5702-A**  
60 fps@1080p

**FLEXIDOME IP starlight 5000i**



**NDI-5502-A**  
60 fps@1080p

**FLEXIDOME IP starlight 5000i IR**



60 fps@1080p, IR

**DINION IP starlight 6000 HD**



**NBN-63013-B**  
60 fps@720p, starlight

**DINION IP starlight 6000 HD**



**NBN-63023-B**  
60 fps@1080p, starlight

**FLEXIDOME panoramic 5100i**



**NDS-5703-F360**  
30 fps@6MP

**FLEXIDOME panoramic 5100i**



**NDS-5704-F360**  
30 fps@12MP

**FLEXIDOME IP indoor 8000i**



**NDV-8502-R**  
1080p, HDR

**FLEXIDOME IP indoor 8000i**



**NDV-8503-R**  
6MP, HDR

**FLEXIDOME indoor 5100i**



**NDV-5703-A**  
30 fps@5MP

**FLEXIDOME IP indoor 8000i**



**NDV-8504-R**  
4K UHD, HDR

**FLEXIDOME IP indoor 8000i**



**NDV-8502-RX**  
1080p, starlight X, HDR X

**FLEXIDOME IP indoor 8000i**



**NDV-8503-RX**  
4.1MP, starlight X, HDR X

**FLEXIDOME indoor 5100i IR**



**NDV-5702-AL**  
60 fps@1080p, IR

**FLEXIDOME indoor 5100i IR**



**NDV-5703-AL**  
30 fps@5MP, IR

# Fixed cameras

## Outdoor

### Essential Video Analytics

### Intelligent Video Analytics

### Intelligent Video Analytics Pro

**FLEXIDOME IP turret 3000i (outdoor)**



**NTE-3503-Fxx**  
Up to 5MP

**FLEXIDOME IP micro 3000i (outdoor)**



**NDE-3503-Fxx**  
Up to 5MP

**FLEXIDOME IP 3000i IR**



**NDE-3503-AL**  
Up to 5MP

**DINION IP thermal 8000**



**NHT-8001-F**  
VGA

**DINION IP thermal 8000**



**NHT-8000-F**  
QVGA

**FLEXIDOME IP starlight 8000i**



**NDE-8512-R(T)**  
1080p, starlight, HDR

**FLEXIDOME IP starlight 8000i**



**NDE-8513-R(T)**  
6MP, starlight, HDR

**FLEXIDOME IP starlight 8000i**



**NDE-8514-R(T)**  
4K UHD, starlight, HDR

**FLEXIDOME outdoor 5100i**



**NDE-5702-A**  
60 fps@1080p

**FLEXIDOME outdoor 5100i**



**NDE-5703-A**  
30 fps@5MP

**DINION IP 3000i IR**



**NBE-3503-AL**  
Up to 5MP

**FLEXIDOME IP 5000i**



**NDE-5503-A**  
30 fps@5MP

**FLEXIDOME IP 5000i IR**



**NDE-5503-AL**  
30 fps@5MP, IR

**FLEXIDOME IP starlight 8000i**



**NDE-8512-RX(T)**  
1080p HDR X, starlight X

**FLEXIDOME IP starlight 8000i**



**NDE-8513-RX(T)**  
4MP HDR X, starlight X

**FLEXIDOME panoramic 5100i IR**



**NDS-5703-F360LE**  
30 fps@6MP

**FLEXIDOME panoramic 5100i IR**



**NDS-5704-F360LE**  
30 fps@12MP

**FLEXIDOME multi 7000i**



**NDM-7702-A**  
30 fps@4x 3MP

**FLEXIDOME outdoor 5100i IR**



**NDE-5702-AL**  
60 fps@1080p, IR

**FLEXIDOME outdoor 5100i IR**



**NDE-5703-AL**  
30 fps@5MP, IR

**FLEXIDOME IP starlight 5000i IR**



**NDE-5502-A**  
60 fps@1080p

**FLEXIDOME IP starlight 5000i IR**



**NDE-5502-AL**  
60 fps@1080p, IR

**DINION IP 4000i IR**



**NBE-4502-AL**  
30 fps@1080p

**FLEXIDOME multi 7000i**



**NDM-7703-A**  
30 fps@4x 5MP

**FLEXIDOME multi 7000i IR**



**NDM-7702-AL**  
30 fps@4x 3MP

**FLEXIDOME multi 7000i IR**



**NDM-7703-AL**  
30 fps@4x 5MP

**FLEXIDOME intex 7100i IR**



**NDE-7604-AL**  
8MP

**DINION intex 7100i IR**



**NBE-7604-AL**  
8MP

**DINION IP 5000i IR**



**NBE-5503-AL**  
30 fps@5MP

**DINION IP starlight 6000i IR**



**NBE-6502-AL**  
60 fps@1080p, starlight

**FLEXIDOME intex 7100i IR**



**NDE-7604-AL-OC**  
8MP, Traffic Detector

**DINION intex 7100i IR**



**NBE-7604-AL-OC**  
8MP, Traffic Detector



# Moving cameras

## Indoor

### Essential Video Analytics

**AUTODOME  
IP 4000i**



**NDP-4502-Z12**  
60 fps@1080p

**AUTODOME  
IP 4000i**



**NDP-4502-Z12C**  
in-ceiling, 60 fps@1080p,  
12x zoom

**AUTODOME  
IP starlight 5000i**



**NDP-5512-Z30C**  
in-ceiling, 60 fps@1080p,  
starlight

**AUTODOME  
IP starlight 5100i**



**NDP-5523-Z20C**  
in-ceiling, 60 fps@4MP,  
starlight, HDR X

### Intelligent Video Analytics

**AUTODOME  
IP starlight 7000i**



**NDP-7512-Z30Cx**  
in-ceiling, 30 fps@1080p,  
starlight

**AUTODOME  
intex 7000i**



**NDP-7602-Z30Cx**  
In-ceiling, 30 fps@1080p,  
starlight

# Moving cameras

## Outdoor

## Extreme outdoor

### Essential Video Analytics

### Intelligent Video Analytics

### Optical

### Optical & Thermal

**AUTODOME  
IP starlight 5000i**



**NDP-5512-Z30**  
60 fps@1080p, starlight

**AUTODOME  
IP starlight 5000i IR**



**NDP-5512-Z30L**  
60 fps@1080p,  
starlight, IR

**AUTODOME  
IP starlight 7000i**



**NDP-7512-Z30**  
30 fps@1080p, starlight

**MIC  
IP starlight 7100i**



**MIC-7522-Z30x**  
60 fps@1080p, starlight,  
30x zoom, Intelligent  
Video Analytics

**MIC  
IP ultra 7100i**



**MIC-7505-Z12xR**  
30 fps@4K UHD,  
12x zoom, Intelligent  
Video Analytics

**MIC inteox  
7100i**



**MIC-7602-Z30x**  
30 fps@1080p,  
30x, Intelligent Video  
Analytics

**MIC  
IP fusion 9000i**



**MIC-9502-Z30xxx**  
60 fps@1080p, fusion,  
Intelligent Video  
Analytics

**AUTODOME IP  
starlight 5100i**



**NDP-5523-Z20**  
60 fps@4MP, starlight,  
HDR X

**AUTODOME IP  
starlight 5100i IR**



**NDP-5523-Z30L**  
60 fps@4MP, starlight,  
IR, HDR X

**AUTODOME  
inteox 7000i**



**NDP-7602-Z30x**  
30 fps@1080p, starlight

**MIC inteox  
7100i**



**MIC-7602-Z30xx**  
30 fps@1080p, 30x,  
Enhanced version,  
Intelligent Video Analytics

**MIC inteox  
7100i**



**MIC-7604-Z12xx**  
30 fps@UHD, 12x,  
Intelligent Video  
Analytics

**MIC inteox  
7100i**



**MIC-7604-Z12xx-OC**  
30 fps@UHD, 12x,  
Traffic Detector

**AUTODOME  
inteox 7000i**



**NDP-7602-Z30x-OC**  
30 fps@1080p, starlight,  
Traffic Detector

**MIC inteox  
7100i**



**MIC-7602-Z30x-OC**  
30 fps@1080p, 30x,  
starlight, Traffic Detector



## IP Video

### Dome Cameras

#### ► FLEXIDOME IP micro 3000i - outdoor

#### ► FLEXIDOME IP 3000i IR

■ Available – Not available

▶ = indication of main differentiator(s)



| Commercial Type Number |   | NDE-3502-Fxx  | NDE-3503-Fxx  | NDE-3502-AL   | NDE-3503-AL   |
|------------------------|---|---|---|---|---|
| Video Analytics        | Essential Video Analytics   | ■   | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   | ■   | ■   |
|                        | Intelligent streaming   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution  | ▶ HD 1080p  | 5MP   | HD 1080p  | 5MP   |
|                        | Image sensor type   | ▶ 1/2.8" CMOS   | 1/2.9" CMOS   | 1/2.8" CMOS   | 1/2.9" CMOS   |
|                        | Max. frames per second (fps)  | ▶ 30 fps@1080p  | 20 fps@5.3MP<br>25 fps@4.1MP                              | 30 fps@1080p  | 20 fps@5.3MP<br>25 fps@4.1MP                              |
|                        | Indoor / outdoor  | ▶ ■/■   | ■/■   | -/■   | -/■   |
|                        | Day / night   | ▶ ■ (electronic)  | ■ (electronic)  | ■   | ■   |
|                        | Wide Dynamic Range (WDR)  | 120dB   | 120dB   | 120dB   | 120dB   |
|                        | ONVIF conformant  | ■   | ■   | ■   | ■   |
|                        | Built-in microphone   | ▶ ■   | ■   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | -/■   | -/■   | -/■   | -/■   |
|                        | Privacy masking   | ■   | ■   | ■   | ■   |
|                        | Region Of Interest tracking   | ■   | ■   | ■   | ■   |
|                        | Upright video mode  | ■   | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Built-in video analytics  | ■   | ■   | ■   | ■   |
|                        | Audio detection   | ■   | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color)   | ▶ 0.06 lux  | 0.5 lux   | 0.06 lux  | 0.5 lux   |
|                        | Minimum illumination night mode (black / white)   | ▶ 0.015 lux   | 0.2 lux   | 0.015 lux   | 0.2 lux   |
|                        | Night vision  | ▶ -   | -   | ■ (infrared)  | ■ (infrared)  |
|                        | Max. range at night   | ▶ -   | -   | 30 m (98 ft)  | 30 m (98 ft)  |
| Lens                   | Automatic varifocal   | ▶ -   | -   | ■   | ■   |
|                        | Focal length  | ▶ 2.3 mm (F02)<br>2.8 mm (F03)                            | 2.3 mm (F02)<br>2.8 mm (F03)                              | 3.2 - 10 mm   | 3.2 - 10 mm   |
|                        | Horizontal Angle of View (HAoV)   | ▶ 132° (F02)<br>118° (F03)                                | 118° (F02)<br>94° (F03)                                   | 33° - 104°  | 30° - 89°   |
| DORI distances         | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | ▶ 17/7/3/2 (F02)<br>28/11/6/3 (F03)                       | 37/15/7/4 (F02)<br>57/23/11/6 (F03)                       | 30-75/12-30/6-15/3-8                                      | 63-141/25-56/13-28/6-14                                   |
| Storage                | Industrial SD card support with health monitoring   | ■   | ■   | ■   | ■   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video clips or JPEG Exporting |
| Connections            | Alarm input / output  | 1 / 1   | 1 / 1   | 1/1   | 1/1   |
|                        | Audio in / out  | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Hybrid / public view monitor  | ■/■   | ■/■   | ■/■   | ■/■   |
| Housing                | Weather rating  | IP66  | IP66  | IP66  | IP66  |
|                        | Vandal resistant  | IK10  | IK10  | IK10  | IK10  |
|                        | Operating temperature   | -30° to 50° C<br>(-22° to 122° F)                         | -30° to 50° C<br>(-22° to 122° F)                         | -30° to 50° C<br>(-22° to 122° F)                         | -30° to 50° C<br>(-22° to 122° F)                         |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ■/■/-   | ■/■/-   | ■/■/-   | ■/■/-   |

## IP Video

### Dome Cameras

► FLEXIDOME IP 5000i

► FLEXIDOME IP 5000i

► FLEXIDOME IP 5000i IR

► FLEXIDOME IP 5000i IR



Indoor



Outdoor



Indoor



Outdoor

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDI-5503-A   | NDE-5503-A   | NDI-5503-AL  | NDE-5503-AL  |
|------------------------|---|--|--|--|--|
| Video Analytics        | Essential Video Analytics   | ■  | ■  | ■  | ■  |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■  | ■  | ■  | ■  |
|                        | Intelligent streaming   | ■  | ■  | ■  | ■  |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  |
| Basic features         | Maximum resolution  | 5MP  | 5MP  | 5MP  | 5MP  |
|                        | Image sensor type   | 1/2.9"   | 1/2.9"   | 1/2.9"   | 1/2.9"   |
|                        | Max. frames per second (fps)  | 30 fps@5MP   | 30 fps@5MP   | 30 fps@5MP   | 30 fps@5MP   |
|                        | Indoor / outdoor  | ► ■/-  | ■/■  | ■/-  | ■/■  |
|                        | Day / night   | ■  | ■  | ■  | ■  |
|                        | Wide Dynamic Range (WDR)  | 120dB  | 120dB  | 120dB  | 120dB  |
|                        | ONVIF conformant  | ■  | ■  | ■  | ■  |
|                        | Built-in microphone   | ► ■  | -  | ■  | -  |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Privacy masking   | ■  | ■  | ■  | ■  |
|                        | Region Of Interest tracking   | -  | -  | -  | -  |
|                        | Upright video mode  | ■  | ■  | ■  | ■  |
| Alarm triggering       | Tamper detection / Video motion detection   | ■  | ■  | ■  | ■  |
|                        | Built-in video analytics  | ■  | ■  | ■  | ■  |
|                        | Audio detection   | ■  | ■  | ■  | ■  |
| Sensitivity            | Minimum illumination day mode (color)   | 0.24 lux   | 0.24 lux   | 0.24 lux   | 0.24 lux   |
|                        | Minimum illumination night mode (black / white)   | ► 0.03 lux   | 0.03 lux   | 0 lux (IR on)  | 0 lux (IR on)  |
|                        | Night vision  | ► -  | -  | ■ (infrared)   | ■ (infrared)   |
|                        | Max. range at night   | ► -  | -  | 30 m (98 ft)   | 30 m (98 ft)   |
| Lens                   | Automatic varifocal   | ■  | ■  | ■  | ■  |
|                        | Focal length  | 3 - 10 mm  | 3 - 10 mm  | 3 - 10 mm  | 3 - 10 mm  |
|                        | Horizontal Angle of View (HAoV)   | 31° - 99°  | 31° - 99°  | 31° - 99°  | 31° - 99°  |
| DORI distances         | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | 59-266/24-106/12-53/6-27                                     | 59-266/24-106/12-53/6-27                                     | 59-266/24-106/12-53/6-27                                     | 59-266/24-106/12-53/6-27                                     |
| Storage                | Industrial SD card support with health monitoring   | ■  | ■  | ■  | ■  |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 1/1  | 1/1  | 1/1  | 1/1  |
|                        | Audio in / out  | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Hybrid / public view monitor  | ■/■  | ■/■  | ■/■  | ■/■  |
| Housing                | Weather rating  | ► -  | IP66   | -  | IP66   |
|                        | Vandal resistant  | ► IK04   | IK10   | IK04   | IK10   |
|                        | Operating temperature   | ► -20° to 50° C (-4° to 122° F)                              | -40° to 50° C (-40° to 122° F)                               | -20° to 50° C (-4° to 122° F)                                | -40° to 50° C (-40° to 122° F)                               |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ■/■/■  | ■/■/■  | ■/■/■  | ■/■/■  |

## IP Video

### Dome Cameras

► FLEXIDOME IP starlight 5000i

► FLEXIDOME IP starlight 5000i

► FLEXIDOME IP starlight 5000i IR

► FLEXIDOME IP starlight 5000i IR



Indoor



Outdoor



Indoor



Outdoor

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDI-5502-A  | NDE-5502-A  | NDI-5502-AL   | NDE-5502-AL   |
|------------------------|---|---|---|---|---|
| Video Analytics        | Essential Video Analytics   | ■   | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   | ■   | ■   |
|                        | Intelligent streaming   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution  | HD 1080p  | HD 1080p  | HD 1080p  | HD 1080p  |
|                        | Image sensor type   | 1/2.8"  | 1/2.8"  | 1/2.8"  | 1/2.8"  |
|                        | Max. frames per second (fps)  | 60 fps@1080p  | 60 fps@1080p  | 60 fps@1080p  | 60 fps@1080p  |
|                        | Indoor / outdoor  | ► ■/-   | ■/■   | ■/-   | ■/■   |
|                        | Day / night   | ■   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)  | 146dB   | 146dB   | 146dB   | 146dB   |
|                        | ONVIF conformant  | ■   | ■   | ■   | ■   |
|                        | Built-in microphone   | ► ■   | -   | ■   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Privacy masking   | ■   | ■   | ■   | ■   |
|                        | Region Of Interest tracking   | -   | -   | -   | -   |
|                        | Upright video mode  | ■   | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■   | ■   | ■   | ■   |
|                        | Built-in video analytics  | ■   | ■   | ■   | ■   |
|                        | Audio detection   | ■   | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color)   | 0.0225 lux  | 0.0225 lux  | 0.0225 lux  | 0.0225 lux  |
|                        | Minimum illumination night mode (black / white)   | 0.0051 lux  | 0.0051 lux  | 0.0051 lux  | 0.0051 lux  |
|                        | Night vision  | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   |
|                        | Max. range at night   | ► -   | -   | IR 45 m (148 ft)  | IR 45 m (148 ft)  |
| Lens                   | Automatic varifocal   | ■   | ■   | ■   | ■   |
|                        | Focal length  | 3 - 9 mm  | 3 - 9 mm  | 3 - 9 mm  | 3 - 9 mm  |
|                        | Horizontal Angle of View (HAoV)   | 37° - 106°  | 37° - 106°  | 37° - 106°  | 37° - 106°  |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances in according to EN-IEC 62676-4 standard) | 32-126/13-50/6-25/3-13                                    | 32-126/13-50/6-25/3-13                                    | 32-126/13-50/6-25/3-13                                    | 32-126/13-50/6-25/3-13                                    |
| Storage                | Industrial SD card support with health monitoring   | ■   | ■   | ■   | ■   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 1/1   | 1/1   | 1/1   | 1/1   |
|                        | Audio in / out  | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Hybrid / public view monitor  | ■/■   | ■/■   | ■/■   | ■/■   |
| Housing                | Weather rating  | ► -   | IP66  | -   | IP66  |
|                        | Vandal resistant  | ► IK04  | IK10  | IK04  | IK10  |
|                        | Operating temperature   | ► -20° to 50° C (-4° to 122° F)                           | -40° to 50° C (-40° to 122° F)                            | -20° to 50° C (-4° to 122° F)                             | -40° to 50° C (-40° to 122° F)                            |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ■/■/■   | ■/■/■   | ■/■/■   | ■/■/■   |

## IP Video

### Dome Cameras

► FLEXIDOME indoor 5100i

► FLEXIDOME indoor 5100i

► FLEXIDOME indoor 5100i IR

► FLEXIDOME indoor 5100i IR



Indoor



Indoor



Indoor



Indoor

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDV-5702-A   | NDV-5703-A   | NDV-5702-AL  | NDV-5703-AL  |
|------------------------|---|--|--|--|--|
| Video Analytics        | Intelligent Video Analytics Pro (IVA Pro)   | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | future support   | future support   | future support   | future support   |
|                        | Intelligent streaming   | future support   | future support   | future support   | future support   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming   | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  |
| Basic features         | Maximum resolution  | HD 1080p   | 5MP  | HD 1080p   | 5MP  |
|                        | Image sensor type   | 1/2.8"   | 1/2.7"   | 1/2.8"   | 1/2.7"   |
|                        | Max. frames per second (fps)  | 60   | 30   | 60   | 30   |
|                        | Indoor / outdoor  | ► ■/-  | ■/-  | ■/-  | ■/-  |
|                        | Day / night   | ■  | ■  | ■  | ■  |
|                        | Wide Dynamic Range (WDR)  | 144dB  | 120dB  | 144dB  | 120dB  |
|                        | ONVIF conformant  | ■  | ■  | ■  | ■  |
|                        | Built-in microphone   | ► -  | -  | ■  | ■  |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | -/future suport  | -/future suport  | -/future suport  | -/future suport  |
|                        | Privacy masking   | ■  | ■  | ■  | ■  |
|                        | Region Of Interest tracking   | -  | -  | -  | -  |
|                        | Upright video mode  | ■  | ■  | ■  | ■  |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Built-in video analytics  | ■  | ■  | ■  | ■  |
|                        | Audio detection   | ■  | ■  | ■  | ■  |
| Sensitivity            | Minimum illumination day mode (color)   | 0.021  | 0.06   | 0.021  | 0.06   |
|                        | Minimum illumination night mode (black / white)   | 0.004  | 0.012  | 0 lux with IR on   | 0 lux with IR on   |
|                        | Night vision  | ■ (starlight)  | ■ (starlight)  | ■ (starlight)  | ■ (starlight)  |
|                        | Max. range at night   | ► -  | -  | 45m (Intelligent IR)   | 45m (Intelligent IR)   |
| Lens                   | Automatic varifocal   | ■ (P-iris)   | ■ (P-iris)   | ■ (P-iris)   | ■ (P-iris)   |
|                        | Focal length  | 3.4 -10.2 mm   | 3.4 -10.2 mm   | 3.4 -10.2 mm   | 3.4 -10.2 mm   |
|                        | Horizontal Angle of View (HAoV)   | 102° - 31°   | 95° - 29°  | 102° - 31°   | 95° - 29°  |
| DORI distances         | Detect / Observe / Recognize / Identify (m)<br>(Distances according to EN-IEC 62676-4 standard) | 31-138/12-55/6-28/3-14                                       | 48-200/19-79/10-40/5-20                                      | 31-138/12-55/6-28/3-14                                       | 48-200/19-79/10-40/5-20                                      |
| Storage                | Industrial SD card support with health monitoring   | ■  | ■  | ■  | ■  |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | -  | -  | 1/1  | 1/1  |
|                        | Audio in / out  | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Hybrid / public view monitor  | -  | -  | ■/■  | ■/■  |
| Housing                | Weather rating  | ► IP54   | IP54   | IP54   | IP54   |
|                        | Vandal resistant  | ► IK10   | IK10   | IK10   | IK10   |
|                        | Operating temperature   | ► -20° to +50° C (-4° to +122° F)                            | -20° to +50° C (-4° to +122° F)                              | -20° to +50° C (-4° to +122° F)                              | -20° to +50° C (-4° to +122° F)                              |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ► ■/-/-  | ■/-/-  | ■/-/-  | ■/-/-  |
| Accessories            | Modular mount compatible  | ■  | ■  | ■  | ■  |
| Remote commissioning   | USB-C port for wireless dongle  | ■  | ■  | ■  | ■  |
|                        | EIS   | ■ (Gyro based)   | ■ (Gyro based)   | ■ (Gyro based)   | ■ (Gyro based)   |

## IP Video

### Dome Cameras

► FLEXIDOME outdoor 5100i

► FLEXIDOME outdoor 5100i

► FLEXIDOME outdoor 5100i IR

► FLEXIDOME outdoor 5100i IR



Outdoor



Outdoor



Outdoor



Outdoor

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDE-5702-A   | NDE-5703-A   | NDE-5702-AL  | NDE-5703-AL  |
|------------------------|---|--|--|--|--|
| Video Analytics        | Intelligent Video Analytics Pro (IVA Pro)   | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     | ■ IVA Pro Buildings Pack                                     |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | future support   | future support   | future support   | future support   |
|                        | Intelligent streaming   | future support   | future support   | future support   | future support   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming   | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  |
| Basic features         | Maximum resolution  | HD 1080p   | 5MP  | HD 1080p   | 5MP  |
|                        | Image sensor type   | 1/2.8"   | 1/2.7"   | 1/2.8"   | 1/2.7"   |
|                        | Max. frames per second (fps)  | 60   | 30   | 60   | 30   |
|                        | Indoor / outdoor  | ► ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Day / night   | ■  | ■  | ■  | ■  |
|                        | Wide Dynamic Range (WDR)  | 144dB  | 120dB  | 144dB  | 120dB  |
|                        | ONVIF conformant  | ■  | ■  | ■  | ■  |
|                        | Built-in microphone   | ► -  | -  | ■  | ■  |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | -/future suport  | -/future suport  | -/future suport  | -/future suport  |
|                        | Privacy masking   | ■  | ■  | ■  | ■  |
|                        | Region Of Interest tracking   | -  | -  | -  | -  |
|                        | Upright video mode  | ■  | ■  | ■  | ■  |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Built-in video analytics  | ■  | ■  | ■  | ■  |
|                        | Audio detection   | ■  | ■  | ■  | ■  |
| Sensitivity            | Minimum illumination day mode (color)   | 0.021  | 0.06   | 0.021  | 0.06   |
|                        | Minimum illumination night mode (black / white)   | 0.004  | 0.012  | 0 lux with IR on   | 0 lux with IR on   |
|                        | Night vision  | ■ (starlight)  | ■ (starlight)  | ■ (starlight)  | ■ (starlight)  |
|                        | Max. range at night   | ► -  | -  | 45m (Intelligent IR)   | 45m (Intelligent IR)   |
| Lens                   | Automatic varifocal   | ■ (P-iris)   | ■ (P-iris)   | ■ (P-iris)   | ■ (P-iris)   |
|                        | Focal length  | 3.4 -10.2 mm   | 3.4 -10.2 mm   | 3.4 -10.2 mm   | 3.4 -10.2 mm   |
|                        | Horizontal Angle of View (H AoV)  | 102° - 31°   | 95° - 29°  | 102° - 31°   | 95° - 29°  |
| DORI distances         | Detect / Observe / Recognize / Identify (m)<br>(Distances according to EN-IEC 62676-4 standard) | 31-138/12-55/6-28/3-14                                       | 48-200/19-79/10-40/5-20                                      | 31-138/12-55/6-28/3-14                                       | 48-200/19-79/10-40/5-20                                      |
| Storage                | Industrial SD card support with health monitoring   | ■  | ■  | ■  | ■  |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | -  | -  | 1/1  | 1/1  |
|                        | Audio in / out  | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Hybrid / public view monitor  | -  | -  | ■/■  | ■/■  |
| Housing                | Weather rating  | ► IP66   | IP66   | IP66   | IP66   |
|                        | Vandal resistant  | ► IK10, NEMA Type 4X   | IK10, NEMA Type 4X   | IK10, NEMA Type 4X   | IK10, NEMA Type 4X   |
|                        | Operating temperature   | ► -40° to +55° C (-40° to +131° F)                           | -40° to +55° C (-40° to +131° F)                             | -40° to +55° C (-40° to +131° F)                             | -40° to +55° C (-40° to +131° F)                             |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ► ■/■/■  | ■/■/■  | ■/■/■  | ■/■/■  |
| Accessories            | Modular mount compatible  | ■  | ■  | ■  | ■  |
| Remote commissioning   | USB-C port for wireless dongle  | ■  | ■  | ■  | ■  |
|                        | EIS   | ■ (Gyro based)   | ■ (Gyro based)   | ■ (Gyro based)   | ■ (Gyro based)   |



## IP Video Dome Cameras

►FLEXIDOME inteoX 7100i IR

►FLEXIDOME inteoX 7100i IR



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDE-7604-AL-OC   | NDE-7604-AL  |
|------------------------|---|--|--|
| Video Analytics        | Intelligent Video Analytics Pro ►                     | ■ + Traffic Detector   | ■  |
| Bitrate management     | Intelligent Dynamic Noise Reduction                   | ■  | ■  |
|                        | Intelligent streaming                                 | ■  | ■  |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming | ■/■/3 Streams + JPEG   | ■/■/3 Streams + JPEG   |
| Basic features         | Maximum resolution                                    | 8MP (4K)   | 8MP (4K)   |
|                        | Image sensor type                                     | 1/1.8-inch CMOS  | 1/1.8-inch CMOS  |
|                        | Max. frames per second (fps)                          | 30 fps@8MP (4K)  | 30 fps@8MP (4K)  |
|                        | Indoor / outdoor                                      | ■/■  | ■/■  |
|                        | Day / night   | ■/■  | ■/■  |
|                        | Wide Dynamic Range (WDR)                              | 87dB   | 87dB   |
|                        | ONVIF conformant                                      | ■  | ■  |
|                        | Built-in microphone                                   | -  | -  |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog         | -/-  | -/-  |
|                        | Privacy masking                                       | 1 rectangular mask (solid/mosaic), dynamic object masking    | 1 rectangular mask (solid/mosaic), dynamic object masking    |
|                        | Region Of Interest tracking                           | -  | -  |
| Alarm triggering       | Tamper detection / Video motion detection             | ■/■  | ■/■  |
|                        | Audio detection                                       | ■  | ■  |
|                        | PTZ Intelligent Tracking                              | -  | -  |
| Sensitivity            | Minimum illumination day mode (color)                 | 0.182 lux  | 0.182 lux  |
|                        | Minimum illumination night mode (black / white)       | 0.0396 lux   | 0.0396 lux   |
|                        | Night vision  | ■ (IR)   | ■ (IR)   |
|                        | Max. range at night                                   | 40 m (131 ft)  | 40 m (131 ft)  |
| Lens                   | Focal length  | 3.6 to 10 mm   | 3.6 to 10 mm   |
|                        | Horizontal Angle of View (HxV)                        | Wide: 97° x 53° (H x V)<br>Tele: 46° x 30° (H x V)           | Wide: 97° x 53° (H x V)<br>Tele: 46° x 30° (H x V)           |
| DORI distances         | Detect / Observe / Recognize / Identify (m)           | 68-181/27-72/14-36/7-18                                      | 68-181/27-72/14-36/7-18                                      |
|                        | (Distances in according to EN-IEC 62676-4 standard)   | 212-565/89-238/45-119/22-60                                  | 212-565/89-238/45-119/22-60                                  |
| Storage                | Industrial SD card support with health monitoring     | microSD card   | microSD card   |
|                        | Cloud application storage                             | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |
| Connections            | Alarm input / output                                  | 1/2  | 1/2  |
|                        | Audio in / out  | ■/■  | ■/■  |
|                        | Hybrid / public view monitor                          | -/-  | -/-  |
| Housing                | Weather rating  | IP66 and NEMA type 4X  | IP66 and NEMA type 4X  |
|                        | Vandal resistant                                      | IK10   | IK10   |
|                        | Operating temperature                                 | -40° to +50° C (-40° to +122° F)                             | -40° to +50° C (-40° to +122° F)                             |
| Power input voltage    | Power over Ethernet / 12V / 24V                       | PoE 802.3at Type 2, Class 4, 24 VAC                          | PoE 802.3at Type 2, Class 4, 24 VAC                          |

## IP Video

### Dome Cameras

#### ► FLEXIDOME IP starlight 8000i



1080p



6MP



4K UHD

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |   | NDE-8512-R(T)   | NDE-8513-R(T)   | NDE-8514-R(T)   |
|------------------------|---|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer          | ■   | ■   | ■   |
| Remote commissioning   | Motorized Pan / Tilt / Roll / Zoom (PTRZ)             | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction                   | ■   | ■   | ■   |
|                        | Intelligent streaming                                 | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution ▶                                  | HD 1080p  | 6MP   | 4K UHD  |
|                        | Image sensor type ▶                                   | 1/2.8"  | 1/1.8"  | 1/1.8"  |
|                        | Max. frames per second (fps) ▶                        | 60  | 30  | 30  |
|                        | Indoor / outdoor                                      | ■/■   | ■/■   | ■/■   |
|                        | Day / night   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR) ▶                            | 146dB HDR   | 120dB HDR   | 120dB HDR   |
|                        | ONVIF conformant                                      | ■   | ■   | ■   |
|                        | Built-in microphone                                   | -   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog         | ■/■   | ■/■   | ■/■   |
|                        | Privacy masking                                       | ■   | ■   | ■   |
|                        | Region Of Interest tracking                           | ■   | ■   | ■   |
|                        | Upright video mode                                    | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection             | ■/■   | ■/■   | ■/■   |
|                        | Built-in video analytics                              | ■   | ■   | ■   |
|                        | Audio detection                                       | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color) ▶               | 0.0104 lux (R) / 0.0179 lux (RT)                          | 0.0509 lux (R) / 0.1222 lux (RT)                          | 0.0540 lux (R) / 0.1251 lux (RT)                          |
|                        | Minimum illumination night mode (black / white) ▶     | 0.0039 lux (R) / 0.0066 lux (RT)                          | 0.0086 lux (R) / 0.0198 lux (RT)                          | 0.0098 lux (R) / 0.0200 lux (RT)                          |
|                        | Night vision  | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   |
|                        | Max. range at night (IR range)                        | -   | -   | -   |
| Lens                   | Automatic varifocal                                   | ■ (P-iris)  | ■ (P-iris)  | ■ (P-iris)  |
|                        | Focal length ▶  | 3 - 9 mm (R) / 10 - 23 mm (RT)                            | 3.9 - 10 mm (R) / 12 - 40 mm (RT)                         | 3.9 - 10 mm (R) / 12 - 40 mm (RT)                         |
|                        | Horizontal Angle of View (HAAoV) ▶                    | 117° - 37° (R) / 32° - 14.4° (RT)                         | 117° - 44° (R) / 36° - 12.6° (RT)                         | 117° - 44° (R) / 36° - 12.6° (RT)                         |
| DORI distances         | Detect / Observe / Recognize / Identify (m) ▶         | 24-115/9-46/5-23/2-12<br>134-304/53-121/27-61/13-30       | 40-162/16-64/8-32/4-16<br>201-591/80-235/40-118/20-59     | 47-190/195-75/9-38/5-19<br>236-696/94-276/47-139/24-70    |
|                        | Storage   | Industrial SD card support with health monitoring         | ■ (2 slots)   | ■ (2 slots)   |
|                        | Cloud application storage                             | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output                                  | 2/1 + 12V 50mA out  | 2/1 + 12V 50mA out  | 2/1 + 12V 50mA out  |
|                        | Audio in / out  | ■/■   | ■/■   | ■/■   |
|                        | Hybrid / public view monitor                          | -   | -   | -   |
| Housing                | Weather rating  | IP66, IP6K9K and NEMA type 4X                             | IP66, IP6K9K and NEMA type 4X                             | IP66, IP6K9K and NEMA type 4X                             |
|                        | Vandal resistant                                      | IK10+   | IK10+   | IK10+   |
|                        | Operating temperature                                 | -50° to +60° C<br>(-58° to +140° F)                       | -50° to +60° C<br>(-58° to +140° F)                       | -50° to +60° C<br>(-58° to +140° F)                       |
| Power input voltage    | Power over Ethernet / 12V / 24V                       | ■/■/■   | ■/■/■   | ■/■/■   |
| Accessories            | Modular mount compatible                              | ■   | ■   | ■   |

## IP Video

### Dome Cameras

#### ► FLEXIDOME IP starlight 8000i - X series



1080p

HDR X



4.1MP

HDR X

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDE-8512-RX(T)  | NDE-8513-RX(T)  |
|------------------------|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer  | ■   | ■   |
| Remote commissioning   | Motorized Pan / Tilt / Roll / Zoom (PTRZ)   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   |
|                        | Intelligent streaming   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution ►  | HD 1080p  | 4.1MP   |
|                        | Image sensor type   | 1/1.8"  | 1/1.8"  |
|                        | Max. frames per second (fps)  | 60  | 60  |
|                        | Indoor / outdoor  | ■/■   | ■/■   |
|                        | Day / night   | ■   | ■   |
|                        | Wide Dynamic Range (WDR) ►  | 144dB HDR X   | 141dB HDR X   |
|                        | ONVIF conformant  | ■   | ■   |
|                        | Built-in microphone   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | ■/■   | ■/■   |
|                        | Privacy masking   | ■   | ■   |
|                        | Region Of Interest tracking   | ■   | ■   |
|                        | Upright video mode  | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■   | ■/■   |
|                        | Built-in video analytics  | ■   | ■   |
|                        | Audio detection   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color) ►   | 0.0061 lux (R) / 0.0178 lux (RT)                          | 0.0078 lux (R) / 0.0247 lux (RT)                          |
|                        | Minimum illumination night mode (black / white) ►   | 0.0007 lux (R) / 0.0026 lux (RT)                          | 0.0008 lux (R) / 0.0030 lux (RT)                          |
|                        | Night vision  | ■ (starlight X)   | ■ (starlight X)   |
|                        | Max. range at night (IR range)  | -   | -   |
| Lens                   | Automatic varifocal   | ■ (P-iris)  | ■ (P-iris)  |
|                        | Focal length  | 4.4 -10 mm (R) / 12 - 40 mm (RT)                          | 4.4 - 10 mm (R) / 12 - 40 mm (RT)                         |
|                        | Horizontal Angle of View (HAAoV)  | 110° - 48° (R) / 36.8° - 12.8° (RT)                       | 110° - 48° (R) / 36.8° - 12.8° (RT)                       |
| DORI distances         | Detect / Observe / Recognize / Identify (m) ►<br>(Distances according to EN-IEC 62676-4 standard) | 27-86/11-34/5-17/3-9                                      | 38-121/15-48/8-24/4-12                                    |
|                        |   | 115-342/46-136/23-68/12-34                                | 162-479/64-190/32/96/16-48                                |
| Storage                | Industrial SD card support with health monitoring   | ■ (2 slots)   | ■ (2 slots)   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 2/1 + 12V 50mA out  | 2/1 + 12V 50mA out  |
|                        | Audio in / out  | ■/■   | ■/■   |
|                        | Hybrid / public view monitor  | -   | -   |
| Housing                | Weather rating  | IP66, IP6K9K and NEMA type 4X                             | IP66, IP6K9K and NEMA type 4X                             |
|                        | Vandal resistant  | IK10+   | IK10+   |
|                        | Operating temperature   | -50° to +60° C<br>(-58° to +140° F)                       | -50° to +60° C<br>(-58° to +140° F)                       |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ■/■/■   | ■/■/■   |
| Accessories            | Modular mount compatible  | ■   | ■   |

## IP Video

### Dome Cameras

#### ► FLEXIDOME IP indoor 8000i



1080p



6MP



4K UHD

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |  | NDV-8502-R  | NDV-8503-R  | NDV-8504-R  |
|------------------------|--|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer   | ■   | ■   | ■   |
| Remote commissioning   | Motorized Pan / Tilt / Roll / Zoom (PTRZ)  | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction  | ■   | ■   | ■   |
|                        | Intelligent streaming  | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming  | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution ▶   | HD 1080p  | 6MP   | 4K UHD  |
|                        | Image sensor type ▶  | 1/2.8"  | 1/1.8"  | 1/1.8"  |
|                        | Max. frames per second (fps) ▶   | 60  | 30  | 30  |
|                        | Indoor   | ■   | ■   | ■   |
|                        | Day / night  | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR) ▶   | 146dB HDR   | 120dB HDR   | 120dB HDR   |
|                        | ONVIF conformant   | ■   | ■   | ■   |
|                        | Built-in microphone  | ■   | ■   | ■   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog  | ■/■   | ■/■   | ■/■   |
|                        | Privacy masking  | ■   | ■   | ■   |
|                        | Region Of Interest tracking  | ■   | ■   | ■   |
|                        | Upright video mode   | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection  | ■/■   | ■/■   | ■/■   |
|                        | Built-in video analytics   | ■   | ■   | ■   |
|                        | Audio detection  | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color) ▶  | 0.0104 lux  | 0.0509 lux  | 0.0540 lux  |
|                        | Minimum illumination night mode (black / white) ▶  | 0.0039 lux  | 0.0086 lux  | 0.0098 lux  |
|                        | Night vision   | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   |
|                        | Max. range at night (IR range)   | -   | -   | -   |
| Lens                   | Automatic varifocal  | ■ (P-iris)  | ■ (P-iris)  | ■ (P-iris)  |
|                        | Focal length ▶   | 3 - 9 mm  | 3.9 - 10 mm   | 3.9 - 10 mm   |
|                        | Horizontal Angle of View (HAoV) ▶  | 117° - 37°  | 117° - 44°  | 117° - 44°  |
| DORI distances         | Detect / Observe / Recognize / Identify (m) (Distances according to EN-IEC 62676-4 standard) ▶ | 24-115/9-46/5-23/2-12                                     | 40-162/16-64/8-32/4-16                                    | 47-190/195-75/9-38/5-19                                   |
| Storage                | Industrial SD card support with health monitoring  | ■ (2 slots)   | ■ (2 slots)   | ■ (2 slots)   |
|                        | Cloud application storage  | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output   | 4x virtual input  | 4x virtual input  | 4x virtual input  |
|                        | Audio in / out   | -   | -   | -   |
|                        | Hybrid / public view monitor   | -   | -   | -   |
| Housing                | Weather rating   | IP5X / IP54 with NDA-8001-IP                              | IP5X / IP54 with NDA-8001-IP                              | IP5X / IP54 with NDA-8001-IP                              |
|                        | Vandal resistant   | IK10  | IK10  | IK10  |
|                        | Operating temperature  | -20° to +55° C (-4° to +131° F)                           | -20° to +55° C (-4° to +131° F)                           | -20° to +55° C (-4° to +131° F)                           |
| Power input voltage    | Power over Ethernet / 12V / 24V  | PoE/-/-   | PoE/-/-   | PoE/-/-   |
| Accessories            | Modular mount compatible   | ■   | ■   | ■   |

## IP Video

### Dome Cameras

#### ► FLEXIDOME IP indoor 8000i - X series



1080p

HDR X



4.1MP

HDR X

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |   | NDV-8502-RX   | NDV-8503-RX   |
|------------------------|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer  | ■   | ■   |
| Remote commissioning   | Motorized Pan / Tilt / Roll / Zoom (PTRZ)   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   |
|                        | Intelligent streaming   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution ▶  | HD 1080p  | 4.1MP   |
|                        | Image sensor type ▶   | 1/1.8"  | 1/1.8"  |
|                        | Max. frames per second (fps) ▶  | 60  | 60  |
|                        | Indoor  | ■   | ■   |
|                        | Day / night   | ■   | ■   |
|                        | Wide Dynamic Range (WDR) ▶  | 144dB HDR X   | 141dB HDR X   |
|                        | ONVIF conformant  | ■   | ■   |
|                        | Built-in microphone   | ■   | ■   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | ■/■   | ■/■   |
|                        | Privacy masking   | ■   | ■   |
|                        | Region Of Interest tracking   | ■   | ■   |
|                        | Upright video mode  | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■   | ■/■   |
|                        | Built-in video analytics  | ■   | ■   |
|                        | Audio detection   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color) ▶   | 0.0061 lux  | 0.0078 lux  |
|                        | Minimum illumination night mode (black / white) ▶   | 0.0007 lux  | 0.0008 lux  |
|                        | Night vision  | ■ (starlight X)   | ■ (starlight X)   |
|                        | Max. range at night (IR range)  | -   | -   |
| Lens                   | Automatic varifocal   | ■ (P-iris)  | ■ (P-iris)  |
|                        | Focal length ▶  | 4.4 -10 mm  | 4.4 - 10 mm   |
|                        | Horizontal Angle of View (HAoV) ▶   | 110° - 48°  | 110° - 48°  |
| DORI distances         | Detect / Observe / Recognize / Identify (m)<br>(Distances according to EN-IEC 62676-4 standard) ▶ | 27-86/11-34/5-17/3-9                                      | 38-121/15-48/8-24/4-12                                    |
| Storage                | Industrial SD card support with health monitoring   | ■ (2 slots)   | ■ (2 slots)   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 4x virtual input  | 4x virtual input  |
|                        | Audio in / out  | -   | -   |
|                        | Hybrid / public view monitor  | -   | -   |
| Housing                | Weather rating  | IP5X / IP54 with NDA-8001-IP                              | IP5X / IP54 with NDA-8001-IP                              |
|                        | Vandal resistant  | IK10  | IK10  |
|                        | Operating temperature   | -20° to +55° C<br>(-4° to +131° F)                        | -20° to +55° C<br>(-4° to +131° F)                        |
| Power input voltage    | Power over Ethernet / 12V / 24V   | PoE/-/-   | PoE/-/-   |
| Accessories            | Modular mount compatible  | ■   | ■   |

## IP Video

### Dome Cameras

#### ► FLEXIDOME panoramic 5100i

#### ► FLEXIDOME panoramic 5100i IR



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NDS-5703-F360   | NDS-5704-F360   | NDS-5703-F360LE   | NDS-5704-F360LE   |
|------------------------|---|---|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer  | ■   | ■   | ■   | ■   |
|                        | Audio Analytics Future support  | ■   | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/4 streams   | ■/4 streams   | ■/4 streams   | ■/4 streams   |
| Basic features         | Maximum resolution  | ► 6MP   | 12MP  | 6MP   | 12MP  |
|                        | Image sensor type   | ► 1/1.8   | 1/2.3   | 1/1.8   | 1/2.3   |
|                        | Max. frames per second (fps)  | 30  | 30  | 30  | 30  |
|                        | Indoor / outdoor  | ► ■/-   | ■/-   | ■/■   | ■/■   |
|                        | Day / night   | ■   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)  | 120dB HDR   | 120dB HDR   | 120dB HDR   | 120dB HDR   |
|                        | ONVIF conformant  | ■   | ■   | ■   | ■   |
|                        | Built-in microphone   | Microphone array  | Microphone array  | Microphone array  | Microphone array  |
|                        | HMDI out  | ■   | ■   | ■   | ■   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | -/■   | -/■   | -/■   | -/■   |
|                        | Edge dewarping  | ■   | ■   | ■   | ■   |
|                        | Privacy masking   | ■   | ■   | ■   | ■   |
|                        | Region Of Interest tracking   | ■   | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■   | ■   | ■   | ■   |
|                        | Built-in video analytics  | ■   | ■   | ■   | ■   |
|                        | Audio detection   | ■   | ■   | ■   | ■   |
|                        | PTZ Intelligent Tracking  | future support  | future support  | future support  | future support  |
| Sensitivity            | Night vision  | ► -   | -   | ■ (IR)  | ■ (IR)  |
|                        | Max. range at night   | ► -   | -   | 20 m (66 ft)  | 20 m (66 ft)  |
| Lens                   | Focal length  | ► 1.155 mm  | 1.26 mm   | 1.155 mm  | 1.26 mm   |
|                        | Field of View (FoV)   | 360°  | 360°  | 360°  | 360°  |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances in according to EN-IEC 62676-4 standard) | ► 28 m/11,5 m/5,5 m/2,1 m                                 | 45,5 m/18 m/8,5 m/3,8 m                                   | 28 m/11,5 m/5,5 m/2,1 m                                   | 45,5 m/18 m/8,5 m/3,8 m                                   |
| Storage                | Industrial SD card support  | ■   | ■   | ■   | ■   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | ► -   | -   | 1/1   | 1/1   |
|                        | Audio in / out  | ► -   | -   | ■/■   | ■/■   |
|                        | HDMI output / public view monitor   | ■/■   | ■/■   | ■/■   | ■/■   |
| Housing                | Weather rating  | ► -   | -   | IP66 NEMA Type 4X   | IP66 NEMA Type 4X   |
|                        | Vandal resistant  | ► IK08 (except lens)                                      | IK08 (except lens)  | IK10  | IK10  |
|                        | Operating temperature   | ► -10° to +45° C  | -10° to +45° C  | -40° to +55° C  | -40° to +55° C  |
| Power input voltage    | ► Power over Ethernet / 12V / 24V   | PoE/-/-   | PoE/-/-   | PoE/■/■   | PoE/■/■   |
| Accessories            | Modular mount compatible  | ■   | ■   | ■   | ■   |

## IP Video

### Dome Cameras

► FLEXIDOME multi 7000i

► FLEXIDOME multi 7000i IR



■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |   | NDM-7702-A  | NDM-7703-A  | NDM-7702-AL   | NDM-7703-AL   |
|------------------------|---|---|---|---|---|
| Video Analytics        | Intelligent Video Analytics + Camera Trainer  | ■   | ■   | ■   | ■   |
| Remote commissioning   | USB-C port for wireless dongle  | ■   | ■   | ■   | ■   |
| Bitrate management     | Dynamic Noise Reduction   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming   | ■/4x4 streams   | ■/4x4 streams   | ■/4x4 streams   | ■/4x4 streams   |
| Basic features         | Maximum resolution ▶  | 4x 3MP  | 4x 5MP  | 4x 3MP  | 4x 5MP  |
|                        | Image sensor type   | 1/2.7   | 1/2.7   | 1/2.7   | 1/2.7   |
|                        | Max. frames per second (fps)  | 30  | 30  | 30  | 30  |
|                        | Indoor / outdoor  | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Day / night   | ■   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)  | 120dB HDR   | 120dB HDR   | 120dB HDR   | 120dB HDR   |
|                        | ONVIF conformant  | ■   | ■   | ■   | ■   |
|                        | Built-in microphone   | ■   | ■   | ■   | ■   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | Defog   | Defog   | Defog   | Defog   |
|                        | Upright video mode  | ■   | ■   | ■   | ■   |
|                        | Privacy masking   | ■   | ■   | ■   | ■   |
|                        | Region Of Interest tracking   | N/A   | N/A   | N/A   | N/A   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■   | ■   | ■   | ■   |
|                        | Built-in video analytics  | ■   | ■   | ■   | ■   |
|                        | Audio detection   | ■   | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color)   | 0.091   | 0.091   | 0.091   | 0.091   |
|                        | Minimum illumination night mode (black / white)   | 0.012   | 0.012   | 0.012   | 0.012   |
|                        | Night vision ▶  | -   | -   | ■ (IR)  | ■ (IR)  |
|                        | Max. range at night ▶   | -   | -   | 30 m (98 ft)  | 30 m (98 ft)  |
| Lens                   | Focal length  | 3.7-7.7 mm  | 3.7-7.7 mm  | 3.7-7.7 mm  | 3.7-7.7 mm  |
|                        | Horizontal Angle of View (HAoV)   | 85,1 - 38,7   | 85,1 - 38,7   | 85,1 - 38,7   | 85,1 - 38,7   |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances in according to EN-IEC 62676-4 standard) ▶ | 45-117 m/18-46 m/9-23 m/4-12 m                            | 57-148 m/22-59 m/11-30 m/6-15 m                           | 45-117 m/18-46 m/9-23 m/4-12 m                            | 57-148 m/22-59 m/11-30 m/6-15 m                           |
| Storage                | Industrial SD card support  | ■   | ■   | ■   | ■   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 1/1   | 1/1   | 1/1   | 1/1   |
|                        | Audio in / out  | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Hybrid / public view monitor  | -   | -   | -   | -   |
| Housing                | Weather rating  | IP66 NEMA Type 4X   | IP66 NEMA Type 4X   | IP66 NEMA Type 4X   | IP66 NEMA Type 4X   |
|                        | Vandal resistant  | IK10  | IK10  | IK10  | IK10  |
|                        | Operating temperature   | -50° to +55° C  | -50° to +55° C  | -50° to +55° C  | -50° to +55° C  |
| Power input voltage    | Power over Ethernet / 12V / 24V   | PoE+/-/■  | PoE+/-/■  | PoE+/-/■  | PoE+/-/■  |
| Accessories            | Modular mount compatible  | ■   | ■   | ■   | ■   |

## IP Video Fixed Cameras

▶DINION IP 3000i IR

▶DINION IP 4000i IR

▶DINION IP 5000i IR

▶DINION IP starlight 6000i IR



1080p



5MP



1080p



5MP



starlight

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |   | NBE-3502-AL   | NBE-3503-AL   | NBE-4502-AL   | NBE-5503-AL   | NBE-6502-AL   |
|------------------------|---|---|---|---|---|---|
| Video Analytics        | Essential Video Analytics   | ■   | ■   | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■   | ■   | ■   | ■   | ■   |
|                        | Intelligent streaming   | ■   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution  | ▶ HD 1080p  | 5MP   | HD 1080p  | 5MP   | HD 1080p  |
|                        | Image sensor type   | ▶ 1/2.8" CMOS   | 1/2.9" CMOS   | 1/2.9"  | 1/2.9"  | 1/2.8"  |
|                        | Max. frames per second (fps)  | ▶ 30 fps@1080p  | 20 fps@5.3MP<br>25 fps@4.1MP                                    | 30 fps@1080p  | 30 fps@5MP  | 60 fps@1080p  |
|                        | Indoor / outdoor  | ■/■   | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Day / night   | ■   | ■   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)  | ▶ 120dB   | 120dB   | 85dB  | 120dB   | 146dB   |
|                        | ONVIF conformant  | ■   | ■   | ■   | ■   | ■   |
|                        | Built-in microphone   | -   | -   | -   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | ▶ -/■   | -/■   | -/■   | ■/■   | ■/■   |
|                        | Privacy masking   | ■   | ■   | ■   | ■   | ■   |
|                        | Region Of Interest tracking   | ■   | ■   | ■   | ■   | ■   |
|                        | Upright video mode  | ■   | ■   | ■   | ■   | ■   |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■   | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Built-in video analytics  | ■   | ■   | ■   | ■   | ■   |
|                        | Audio detection   | ■   | ■   | ■   | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color)   | ▶ 0.06 lux  | 0.5 lux   | 0.052 lux   | 0.369 lux   | 0.0225 lux  |
|                        | Minimum illumination night mode (black / white)   | ▶ 0.015 lux   | 0.2 lux   | 0 lux (IR on)   | 0 lux (IR on)   | 0 lux (IR on)   |
|                        | Night vision  | ■ (infrared)  | ■ (infrared)  | ■ (infrared)  | ■ (Infrared)  | ■ (Infrared)  |
|                        | Max. range at night   | ▶ 30 m (98 ft)  | 30 m (98 ft)  | 60 m (196 ft)   | 50 m (164 ft)   | 60 m (196 ft)   |
| Lens                   | Automatic Back Focus (ABF)  | -   | -   | -   | -   | -   |
|                        | Automatic varifocal   | ■   | ■   | ■   | ■   | ■   |
|                        | Focal length  | ▶ 3.2 - 10 mm   | 3.2 - 10 mm   | 2.8 - 12 mm   | 2.7 - 12 mm   | 2.8 - 12 mm   |
|                        | Horizontal Angle of View (HAoV)   | ▶ 33° - 104°  | 30° - 89°   | 33° - 100°  | 28° - 95°   | 33° - 100°  |
| DORI distances         | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | ▶ 30-75/12-30/6-15/3-8  | 63-141/25-56/13-28/6-14   | 33-130/13-51/6-26/3-13  | 56-246/22-98/11-49/6-25   | 33-130/13-51/6-26/3-13  |
| Storage                | Industrial SD card support with health monitoring   | ■   | ■   | ■   | ■   | ■   |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting |
| Connections            | Alarm input / output  | 1/1   | 1/1   | 1/1   | 1/1   | 1/1   |
|                        | Audio in / out  | ■/■   | ■/■   | ■/■   | ■/■   | ■/■   |
|                        | Hybrid / public view monitor  | ▶ -/-   | -/-   | ■/■   | ■/■   | ■/■   |
| Housing                | Weather rating  | ▶ IP66  | IP66  | IP67  | IP67  | IP67  |
|                        | Vandal resistant  | ▶ IK10  | IK10  | IK10  | IK10  | IK10  |
|                        | Operating temperature   | ▶ -30° to 50° C (-22° to 122° F)                                | -30° to 50° C (-22° to 122° F)                                  | -40° to 60° C (-40° to 140° F)                                  | -40° to 60° C (-40° to 140° F)                                  | -40° to 60° C (-40° to 140° F)                                  |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ▶ ■/■/-   | ■/■/-   | ■/■/■   | ■/■/■   | ■/■/■   |



## IP Video

### Fixed Cameras

#### ►DINION inteoX 7100i IR

#### ►DINION inteoX 7100i IR



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NBE-7604-AL-OC  | NBE-7604-AL   |
|------------------------|---|---|---|
| Video Analytics        | Intelligent Video Analytics ►                         | ■ + Traffic Detector                                      | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction                   | ■   | ■   |
|                        | Intelligent streaming                                 | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming | ■/■/3 Streams + JPEG                                      | ■/■/3 Streams + JPEG                                      |
| Basic features         | Maximum resolution                                    | 8MP (4K)  | 8MP (4K)  |
|                        | Image sensor type                                     | 1/1.8-inch CMOS   | 1/1.8-inch CMOS   |
|                        | Max. frames per second (fps)                          | 30 fps@8MP (4K)   | 30 fps@8MP (4K)   |
|                        | Indoor / outdoor                                      | ■/■   | ■/■   |
|                        | Day / night   | ■/■   | ■/■   |
|                        | Wide Dynamic Range (WDR)                              | 87dB  | 87dB  |
|                        | ONVIF conformant                                      | ■   | ■   |
|                        | Built-in microphone                                   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog         | -/-   | -/-   |
|                        | Privacy masking                                       | 1 rectangular mask (solid/mosaic), dynamic object masking | 1 rectangular mask (solid/mosaic), dynamic object masking |
|                        | Region Of Interest tracking                           | -   | -   |
| Alarm triggering       | Tamper detection / Video motion detection             | ■/■   | ■/■   |
|                        | Audio detection                                       | ■   | ■   |
|                        | PTZ Intelligent Tracking                              | -   | -   |
| Sensitivity            | Minimum illumination day mode (color)                 | 0.182 lux   | 0.182 lux   |
|                        | Minimum illumination night mode (black / white)       | 0.0396 lux  | 0.0396 lux  |
|                        | Night vision  | ■ (IR)  | ■ (IR)  |
|                        | Max. range at night                                   | 40 m (131 ft)   | 40 m (131 ft)   |
| Lens                   | Focal length  | 3.6 to 10 mm  | 3.6 to 10 mm  |
|                        | Horizontal Angle of View (HAoV)                       | Wide: 97° x 53° (H x V)<br>Tele: 46° x 30° (H x V)        | Wide: 97° x 53° (H x V)<br>Tele: 46° x 30° (H x V)        |
| DORI distances         | Detect / Observe / Recognize / Identify (m)           | 68-181/27-72/14-36/7-18                                   | 68-181/27-72/14-36/7-18                                   |
|                        | (Distances according to EN-IEC 62676-4 standard)      | 212-565/89-238/45-119/22-60                               | 212-565/89-238/45-119/22-60                               |
| Storage                | Industrial SD card support with health monitoring     | microSD card  | microSD card  |
|                        | Cloud application storage                             | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output                                  | 1/2   | 1/2   |
|                        | Audio in / out  | ■/■   | ■/■   |
|                        | Hybrid / public view monitor                          | -/-   | -/-   |
| Housing                | Weather rating  | IP66 and NEMA type 4X                                     | IP66 and NEMA type 4X                                     |
|                        | Vandal resistant                                      | IK10  | IK10  |
|                        | Operating temperature                                 | -40° to +50° C (-40° to +122° F)                          | -40° to +50° C (-40° to +122° F)                          |
| Power input voltage    | Power over Ethernet / 12V / 24V                       | PoE 802.3at Type 2, Class 4, 24 VAC                       | PoE 802.3at Type 2, Class 4, 24 VAC                       |

## IP Video

### Fixed Cameras

►DINION IP starlight 6000 HD

►DINION IP starlight 7000 HD

►DINION IP starlight 6000 HD

►DINION IP starlight 7000 HD



720p



720p



1080p



1080p

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number      |  | NBN-63013-B **  | NBN-73013-BA **   | NBN-63023-B **  | NBN-73023-BA **   |     |
|-----------------------------|--|---|---|---|---|-----|
| Video Analytics             | Essential Video Analytics  | ■   | –   | ■   | –   |     |
|                             | Intelligent Video Analytics  | ►   | ■   | –   | ■   |     |
| Bitrate management          | Intelligent Dynamic Noise Reduction  | ■   | ■   | ■   | ■   |     |
|                             | Intelligent streaming  | ■   | ■   | ■   | ■   |     |
|                             | Compression (H.265 / H.264 & MJPEG) / multi-streaming  | –/■/4 streams   | –/■/4 streams   | –/■/4 streams   | –/■/4 streams   |     |
| Basic features              | Maximum resolution   | ► 720p  | 720p  | 1080p   | 1080p   |     |
|                             | Image sensor type  | 1/2.8"  | 1/2.8"  | 1/2.8"  | 1/2.8"  |     |
|                             | Max. frames per second (fps)   | ► 60 fps@720p   | 60 fps@720p   | 60 fps@1.3MP / 1080p  | 60 fps@1.3MP / 1080p  |     |
|                             | Indoor / outdoor   | ■/■ (with housing)  | ■/■ (with housing)  | ■/■ (with housing)  | ■/■ (with housing)  |     |
|                             | Day / night  | ■   | ■   | ■   | ■   |     |
|                             | Wide Dynamic Range (WDR)   | 120dB   | 120dB   | 120dB   | 120dB   |     |
|                             | ONVIF conformant   | ■   | ■   | ■   | ■   |     |
|                             | Built-in microphone  | –   | –   | –   | –   |     |
|                             | Advanced features  | Intelligent Auto Exposure / Intelligent Defog                                   | ■/■   | ■/■   | ■/■   | ■/■ |
|                             |  | Privacy masking   | ■   | ■   | ■   | ■   |
| Region Of Interest tracking |  | ■   | ■   | ■   | ■   |     |
| Upright video mode          |  | ■   | ■   | ■   | ■   |     |
| Alarm triggering            | Tamper detection / Video motion detection  | ■/■   | ■/■   | ■/■   | ■/■   |     |
|                             | Built-in video analytics   | ■   | ■   | ■   | ■   |     |
|                             | Audio detection  | ■   | ■   | ■   | ■   |     |
| Sensitivity                 | Minimum illumination day mode (color)  | 0.0069 lux  | 0.0069 lux  | 0.0069 lux  | 0.0069 lux  |     |
|                             | Minimum illumination night mode (black / white)  | 0.0008 lux  | 0.0008 lux  | 0.0008 lux  | 0.0008 lux  |     |
|                             | Night vision   | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   | ■ (starlight)   |     |
|                             | Max. range at night  | –   | –   | –   | –   |     |
| Lens                        | Automatic Back Focus (ABF)   | ■   | ■   | ■   | ■   |     |
|                             | Automatic varifocal  | –   | –   | –   | –   |     |
|                             | Focal length   | Lenses available separately<br>C/CS mount<br>1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm | Lenses available separately<br>C/CS mount<br>1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm | Lenses available separately<br>C/CS mount<br>1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm | Lenses available separately<br>C/CS mount<br>1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm |     |
|                             | Horizontal Angle of View (HAoV)  | depending on optional lens  | depending on optional lens  | depending on optional lens  | depending on optional lens  |     |
| DORI distances              | Detect / Observe / Recognize / Identify<br>(Distances in according to EN-IEC 62676-4 standard) | depending on optional lens  | depending on optional lens  | depending on optional lens  | depending on optional lens  |     |
| Storage                     | Industrial SD card support with health monitoring  | ■   | ■   | ■   | ■   |     |
|                             | Cloud application storage  | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting                    | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting                    | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting                    | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting                    |     |
| Connections                 | Alarm input / output   | 2/1   | 2/1   | 2/1   | 2/1   |     |
|                             | Audio in / out   | ■/■   | ■/■   | ■/■   | ■/■   |     |
|                             | Hybrid / public view monitor   | ■/■   | ■/■   | ■/■   | ■/■   |     |
| Housing                     | Weather rating   | depending on optional housing   | depending on optional housing   | depending on optional housing   | depending on optional housing   |     |
|                             | Vandal resistant   | depending on optional housing   | depending on optional housing   | depending on optional housing   | depending on optional housing   |     |
|                             | Operating temperature  | -30° to 50° C (-22° to 122° F)  | -30° to 50° C (-22° to 122° F)  | -30° to 50° C (-22° to 122° F)  | -30° to 50° C (-22° to 122° F)  |     |
| Power input voltage         | Power over Ethernet / 12V / 24V  | ■/■/–   | ■/■/–   | ■/■/–   | ■/■/–   |     |

\*\* Lens not included

## IP Video

### Fixed Cameras

#### ►DINION IP starlight 8000 MP

#### ►DINION IP ultra 8000 MP



starlight



4K UHD

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number      |   | NBN-80052-BA**   | NBN-80122-CA**   |
|-----------------------------|---|--|--|
| Video Analytics             | Intelligent Video Analytics   | ■  | ■  |
| Bitrate management          | Intelligent Dynamic Noise Reduction   | ■  | ■  |
|                             | Intelligent streaming   | ■  | ■  |
|                             | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | -/■/4 streams  | -/■/4 streams  |
| Basic features              | Maximum resolution ▶  | 5MP (16:9)/5.5MP (4:3)   | 12MP (4:3)/UHD (16:9)  |
|                             | Image sensor type ▶   | 1/1.8"   | 1/2.3"   |
|                             | Max. frames per second (fps) ▶  | 30 fps@5 MP  | 20 fps@12MP, 30 fps@UHD  |
|                             | Indoor / outdoor  | ■/■ (with housing)   | ■/■ (with housing)   |
|                             | Day / night   | ■  | ■  |
|                             | Wide Dynamic Range (WDR) ▶  | 97dB (5MP)/105dB (1080p) (with IAE + 16dB)   | 92dB (with IAE + 16dB)   |
|                             | ONVIF conformant  | ■  | ■  |
|                             | Built-in microphone   | -  | -  |
|                             | Power over Ethernet (PoE)   | ■  | ■  |
|                             | Advanced features   | Intelligent Auto Exposure / Intelligent Defog  | ■/■  |
| Privacy masking             |   | ■  | ■  |
| Region Of Interest tracking |   | ■  | ■  |
| Alarm triggering            | Tamper detection / Video motion detection   | ■/■  | ■/■  |
|                             | Built-in video analytics  | ■  | ■  |
|                             | Audio detection   | ■  | ■  |
| Sensitivity                 | Minimum illumination day mode (color) ▶   | 0.0121 lux (5 MP)<br>0.0083 lux (1080p)  | 0.11 lux   |
|                             | Minimum illumination night mode (black / white) ▶   | 0.004 lux (5 MP)<br>0.0028 lux (1080p)   | 0.037 lux  |
|                             | Night vision ▶  | ■ (starlight)  | -  |
|                             | Max. range at night   | -  | -  |
| Lens                        | Automatic Back Focus (ABF)  | ■  | ■  |
|                             | Automatic varifocal   | -  | -  |
|                             | Focal length ▶  | C/CS mount<br>4.1-9 mm/12.5-50 mm  | C/CS mount - 35 mm/50 mm/75 mm fixed iris<br>P-iris lens 4-13 mm   |
|                             | Horizontal Angle of View (HAoV)   | depending on optional lens   | depending on optional lens   |
| DORI distances              | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | depending on optional lens   | depending on optional lens   |
|                             | Storage   | Industrial SD card support with health monitoring  | ■  |
|                             | Cloud application storage   | Auto or Alarm JPEG Posting, Best Face Detection JPEG posting<br>(IVA models only), Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Best Face Detection JPEG posting<br>(IVA models only), Video Clips or JPEG Exporting |
| Connections                 | Alarm input / output  | 2/1  | 2/1  |
|                             | Audio in / out  | ■/■  | ■/■  |
|                             | Hybrid / public view monitor  | ■/■  | ■/■  |
| Housing                     | Weather rating  | -  | -  |
|                             | Vandal resistant  | -  | -  |
|                             | Operating temperature   | -20° to 50° C (-4° to 122° F)  | -20° to 50° C (-4° to 122° F)  |
| Power input voltage         | Power over Ethernet / 12V / 24V   | ■/■/-  | ■/■/-  |

\*\* Lens not included

## IP Video Specialty Cameras

### ► FLEXIDOME IP corner 9000 MP



■ Available – Not available

| Commercial Type Number |   | NCN-90022-F1   |
|------------------------|---|--|
| Video Analytics        |   | N.A.   |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■  |
|                        | Intelligent streaming   | ■  |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | -/■/4 streams  |
| Basic features         | Maximum resolution  | 1080p  |
|                        | Image sensor type   | 1/2.7"   |
|                        | Max. frames per second (fps)  | 30 fps@1080p   |
|                        | Indoor / outdoor  | ■/-  |
|                        | Day / night   | ■  |
|                        | Wide Dynamic Range (WDR)  | 76dB   |
|                        | ONVIF conformant  | ■  |
|                        | Built-in microphone   | -  |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog   | -/-  |
|                        | Privacy masking   | ■  |
|                        | Region Of Interest tracking   | -  |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■  |
|                        | Built-in video analytics  | -  |
|                        | Audio detection   | ■  |
| Sensitivity            | Minimum illumination day mode (color)   | 0.3 lux  |
|                        | Minimum illumination night mode (black / white)   | 0 lux (IR on)  |
|                        | Night vision  | ■ (infrared)   |
|                        | Max. range at night   | 9 m (30 ft)  |
| Lens                   | Automatic Back Focus (ABF)  | -  |
|                        | Automatic varifocal   | -  |
|                        | Focal length  | 2 mm   |
|                        | Horizontal Angle of View (HAoV)   | 121°   |
| DORI distances         | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | 20/8/4/2   |
| Storage                | Industrial SD card support with health monitoring   | ■  |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |
| Connections            | Alarm input / output  | 1/1  |
|                        | Audio in / out  | ■/■  |
|                        | Hybrid / public view monitor  | -/-  |
| Housing                | Weather rating  | IP65   |
|                        | Vandal resistant  | IK10   |
|                        | Operating temperature   | -10° to 50° C (14° to 122° F)                                |
| Power input voltage    | Power over Ethernet / 12V / 24V   | ■/■/■  |

## IP Video Specialty Cameras

### ►DINION IP thermal 8000

### ►DINION IP thermal 8000



QVGA



VGA

■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |   | NHT-8000-F                                      | NHT-8001-F  |
|------------------------|---|---|---|
| Video Analytics        | Intelligent Video Analytics                           | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction                   | -   | -   |
|                        | Intelligent streaming                                 | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming | -/■/4 streams                                   | -/■/4 streams   |
| Basic features         | Maximum resolution                                    | ► QVGA  | VGA   |
|                        | Image sensor type                                     | Un-cooled vanadium oxide microbolometer         | Un-cooled vanadium oxide microbolometer                         |
|                        | Max. frames per second (fps)                          | ► 9 fps (-FxxQS) or 60 fps (-FxxQF)             | 9 fps (-FxxVS) or 30 fps (-FxxVF)                               |
|                        | Indoor / outdoor                                      | ■/■   | ■/■   |
|                        | Day / night   | -   | -   |
|                        | Wide Dynamic Range (WDR)                              | -   | -   |
|                        | ONVIF conformant                                      | ■   | ■   |
|                        | Built-in microphone                                   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog         | -/-   | -/-   |
|                        | Privacy masking                                       | Eight independent areas, fully programmable     | Eight independent areas, fully programmable                     |
|                        | Region Of Interest tracking                           | -   | -   |
| Alarm triggering       | Tamper detection / Video motion detection             | ■/■   | ■/■   |
|                        | Built-in video analytics                              | ■   | ■   |
|                        | Audio detection                                       | ■   | ■   |
| Sensitivity            | Minimum illumination day mode (color)                 | -   | -   |
|                        | Minimum illumination night mode (black / white)       | 0 lux   | 0 lux   |
|                        | Night vision  | ■ (thermal)                                     | ■ (thermal)   |
|                        | Max. range at night                                   | -   | -   |
| Lens                   | Automatic Back Focus (ABF)                            | -   | -   |
|                        | Automatic varifocal                                   | -   | -   |
|                        | Focal length  | ► 7.5 mm (-F07Qx), 19 mm (-F19Qx)               | 9 mm (-F09Vx), 16.7 mm (-F17Vx), 35 mm (-F35Vx), 65 mm (-F65Vx) |
|                        | Horizontal Angle of View (HAoV)                       | ► 7.5 mm: 41.8°, 19 mm: 16°                     | 9 mm: 70°, 16.7 mm: 37.5°, 35 mm: 17.6°, 65 mm: 9.6°            |
| DRI distances          | Detection / Recognition / Identification              | 7.5 mm:   | 9 mm:   |
|                        |   | 140 m (459 ft) / 35 m (115 ft) / 18 m (59 ft)   | 155 m (509ft) / 40 m (131 ft) / 20 m (66 ft)                    |
|                        |   | 19 mm:  | 16.7 mm:  |
|                        |   | 380 m (1247 ft) / 95 m (312 ft) / 48 m (157 ft) | 315 m (1033 ft) / 80 m (262 ft) / 40 m (131 ft)                 |
|                        |   | 35 mm:  | 690 m (2264 ft) / 170 m (558 ft) / 85 m (279 ft)                |
|                        |   | 65 mm:  | 1270 m (4167 ft) / 320 m (1050 ft) / 160 m (525 ft)             |
| Storage                | Industrial SD card support with health monitoring     | ■   | ■   |
|                        | Cloud application storage                             | Auto or Alarm JPEG Posting (FTP only)           | Auto or Alarm JPEG Posting (FTP only)                           |
| Connections            | Alarm input / output                                  | 2/1   | 2/1   |
|                        | Audio in / out  | ■/■   | ■/■   |
|                        | Hybrid / public view monitor                          | ■   | ■   |
| Housing                | Weather rating  | IP66  | IP66  |
|                        | Vandal resistant                                      | -   | -   |
|                        | Operating temperature                                 | -50° to 55° C (-58° to 131° F)                  | -50° to 55° C (-58° to 131° F)                                  |
| Power input voltage    | Power over Ethernet / 12V / 24V                       | -/-/■   | -/-/■   |

## IP Video Moving Cameras

### ►AUTODOME IP 4000i

### ►AUTODOME IP starlight 5000i

### ►AUTODOME IP starlight 5000i IR



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |  | NDP-4502-Z12C   | NDP-4502-Z12  | NDP-5512-Z30C   | NDP-5512-Z30  | NDP-5512-Z30L   |
|------------------------|--|---|---|---|---|---|
| Video Analytics        | Essential Video Analytics  | ■   | ■   | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction  | ■   | ■   | ■   | ■   | ■   |
|                        | Intelligent streaming  | ■   | ■   | ■   | ■   | ■   |
|                        | Compression (H.265 / H.264 & MJPEG) /multi-streaming                                     | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
| Basic features         | Maximum resolution   | HD 1080p  | HD 1080p  | HD 1080p  | HD 1080p  | HD 1080p  |
|                        | Image sensor type  | 1/2.8" CMOS   | 1/2.8" CMOS   | 1/2.8" CMOS   | 1/2.8" CMOS   | 1/2.8" CMOS   |
|                        | Max. frames per second (fps)   | 60 fps@1080p  | 60 fps@1080p  | 60 fps@1080p  | 60 fps@1080p  | 60 fps@1080p  |
|                        | Indoor / outdoor   | ► ■/-   | ► ■/-   | ► ■/-   | ► ■/■   | ► ■/■   |
|                        | Day / night  | ■   | ■   | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)   | ► 94dB  | ► 94dB  | 120dB   | 120dB   | 120dB   |
|                        | ONVIF conformant   | ■   | ■   | ■   | ■   | ■   |
|                        | Built-in microphone  | -   | -   | -   | -   | -   |
| Advanced features      | Intelligent Auto Exposure / Intelligent Defog  | ► -/■   | ► -/■   | ► ■/■   | ► ■/■   | ► ■/■   |
|                        | Privacy masking  | ■   | ■   | ■   | ■   | ■   |
|                        | Nbr of presets/guard tours   | 256/2   | 256/2   | 256/2   | 256/2   | 256/2   |
|                        | Wiper  | -   | -   | -   | -   | -   |
| Alarm triggering       | Tamper detection / Video motion detection  | ► ■/■   | ► ■/■   | ► ■/■   | ► ■/■   | ► ■/■   |
|                        | Built-in video analytics   | ■   | ■   | ■   | ■   | ■   |
|                        | Audio detection  | ■   | ■   | ■   | ■   | ■   |
|                        | PTZ Intelligent Tracking   | -   | -   | -   | -   | -   |
| Sensitivity            | Minimum illumination day mode (color)  | ► 0.05 lux  | ► 0.05 lux  | 0.0186 lux  | 0.0186 lux  | 0.0186 lux  |
|                        | Minimum illumination night mode (black / white)  | ► 0.01 lux  | ► 0.01 lux  | 0.004 lux   | 0.004 lux   | 0 lux (IR on)   |
|                        | Night vision   | ► -   | ► -   | -   | -   | ■ (infrared)  |
|                        | Max. range at night  | ► -   | ► -   | -   | -   | 180m (590 ft)   |
| Lens                   | Focal length   | ► 5.3 - 64 mm   | ► 5.3 - 64 mm   | 4.5 - 135 mm  | 4.5 - 135 mm  | 4.5 - 135 mm  |
|                        | Horizontal Angle of View (HAoV)  | ► 4.9° to 58.5°   | ► 4.9° to 58.5°   | 2.4° to 60.9°   | 2.4° to 60.9°   | 2.4° to 60.9°   |
|                        | PTZ Zoom optical/digital   | ► 12x/16x   | ► 12x/16x   | 30x/16x   | 30x/16x   | 30x/16x   |
|                        | Tilt angle   | ► -90° to 0°  | ► -90° to 0°  | -90° to 0°  | -90° to 0°  | -90° to 3°  |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard) | ► 69-897/27-356/14-179/7-90                               | 69-897/27-356/14-179/7-90                                 | 65-1833/26-727/13-367/7183                                | 65-1833/26-727/13-367/7183                                | 65-1833/26-727/13-367/7183                                |
| Storage                | Industrial SD card support with health monitoring  | ■   | ■   | ■   | ■   | ■   |
|                        | Cloud application storage  | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output   | 2/1   | 2/1   | 2/1   | 2/1   | 2/1   |
|                        | Audio in / out   | ► ■/■   | ► ■/■   | ► ■/■   | ► ■/■   | ► ■/■   |
|                        | Hybrid / public view monitor   | -/-   | -/-   | -/-   | -/-   | -/-   |
| Housing                | Weather rating   | ► IP51  | ► IP65  | IP51  | IP66  | IP66  |
|                        | Vandal resistant   | ► IK6   | ► IK10  | IK06  | IK10  | -   |
|                        | Operating temperature  | ► -10° to 55° C (14° to 131° F)                           | -10° to 55° C (14° to 131° F)                             | -10° to 60° C (14° to 140° F)                             | -40° to 60° C (-40° to 140° F)                            | -40° to 60° C (-40° to 140° F)                            |
| Power input voltage    | Power over Ethernet / 12V / 24Vac  | ► ■ (PoE+)/-/■  | ► ■ (PoE+)/-/■  | ► ■ (PoE+)/-/■  | ► ■ (PoE+)/-/■  | ► ■ (PoE+)/-/■  |

## IP Video

### Moving Cameras

#### ►AUTODOME IP starlight 5100i

#### ►AUTODOME IP starlight 5100i IR

Inceiling



20x zoom

20x zoom

4MP

HDR X



20x zoom

4MP

HDR X



IR+Whitelight

4MP

HDR X

■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |  | NDP-5523-Z20C   | NDP-5523-Z20  | NDP-5523-Z30L   |
|------------------------|--|---|---|---|
| Video Analytics        | Essential Video Analytics  | ■   | ■   | ■   |
| Bitrate management     | Intelligent Dynamic Noise Reduction  | ■   | ■   | ■   |
|                        | Intelligent streaming  | ■   | ■   | ■   |
| Basic features         | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                    | ■/■/4 streams   | ■/■/4 streams   | ■/■/4 streams   |
|                        | Maximum resolution   | 4MP   | 4MP   | 4MP   |
|                        | Image sensor type  | 1/1.8" CMOS   | 1/1.8" CMOS   | 1/1.8" CMOS   |
|                        | Max. frames per second (fps)   | 60 fps@4MP  | 60 fps@4MP  | 60 fps@4MP  |
|                        | Indoor / outdoor   | ▶ ■/-   | ■/■   | -/■   |
|                        | Day / night  | ■   | ■   | ■   |
|                        | Wide Dynamic Range (WDR)   | 133dB HDR X   | 133dB HDR X   | 133dB HDR X   |
|                        | ONVIF conformant   | ■   | ■   | ■   |
| Advanced features      | Built-in microphone  | -   | -   | -   |
|                        | Intelligent Auto Exposure / Intelligent Defog  | ■/■   | ■/■   | ■/■   |
|                        | Privacy masking  | ■   | ■   | ■   |
|                        | Nbr of presets/guard tours   | 256/2   | 256/2   | 256/2   |
|                        | Wiper  | ▶ -   | -   | ■ Auto  |
| Alarm triggering       | Tamper detection / Video motion detection  | ■/■   | ■/■   | ■/■   |
|                        | Built-in video analytics   | ■   | ■   | ■   |
|                        | Audio detection  | ■   | ■   | ■   |
|                        | PTZ Intelligent Tracking   | -   | -   | -   |
| Sensitivity            | Minimum illumination day mode (color)  | ▶ 0.0107 lux  | 0.0107 lux  | 0.0101 lux  |
|                        | Minimum illumination night mode (black / white)  | ▶ 0.0016 lux  | 0.0016 lux  | 0 lux (IR on)   |
|                        | White light  | ▶ -   | -   | ■   |
|                        | Night vision   | ▶ -   | -   | ■ (infrared)  |
|                        | Max. range at night  | ▶ -   | -   | 320 m (1050 ft)   |
| Lens                   | Focal length   | ▶ 6.5 - 130 mm  | 6.5 - 130 mm  | 6.6 - 198 mm  |
|                        | Horizontal Angle of View (HAoV)  | ▶ 3.5° to 61.1°   | 3.5° to 61.1°   | 2.1° to 58.5°   |
|                        | PTZ Zoom optical/digital   | ▶ 20x/16x   | 20x/16x   | 30x/16x   |
|                        | Tilt angle   | ▶ -90° to 0°  | -90° to 0°  | -90° to 5°  |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard) | ▶ 87-1676/34-665/17-335/9-168                             | 87-1676/34-665/17-335/9-168                               | 91-2794/36-1109/18-559/9-279                              |
| Storage                | Industrial SD card support with health monitoring  | ■   | ■   | ■   |
|                        | Cloud application storage  | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting |
| Connections            | Alarm input / output   | 2/1   | 2/1   | 2/1   |
|                        | Audio in / out   | ■/■   | ■/■   | ■/■   |
| Housing                | Weather rating   | ▶ IP51  | IP66  | IP66  |
|                        | Vandal resistant   | ▶ IK6   | IK10  | IK10  |
|                        | Operating temperature  | ▶ -10° to 55° C (14° to 131° F)                           | -40° to 60° C (-40° to 140° F)                            | -40° to 60° C (-40° to 140° F)                            |
| Power input voltage    | Power over Ethernet / 12V / 24Vac  | ▶ ■ (PoE+)/-/■  | ■ (PoE+)/-/■  | ■ IEEE802.3bt/-/■   |

## IP Video Moving Cameras



### ►AUTODOME IP starlight 7000i

### ►AUTODOME inteoX 7000i

### ►AUTODOME inteoX 7000i



- Available – Not available
- = indication of main differentiator(s)

| Commercial Type Number |   | NDP-7512-Z30   | NDP-7602-Z30x  | NDP-7602-Z30x-OC   |       |
|------------------------|---|--|--|--|-------|
| Video Analytics        | Intelligent Video Analytics   | ■  | ■  | ■ + Traffic Detector   |       |
| Bitrate management     | Intelligent Dynamic Noise Reduction   | ■  | ■  | ■  |       |
|                        | Intelligent streaming   | ■  | ■  | ■  |       |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming                                       | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  |       |
| Basic features         | Maximum resolution  | HD 1080p   | HD 1080p   | HD 1080p   |       |
|                        | Image sensor type   | 1/2.8"   | 1/2.8"   | 1/2.8"   |       |
|                        | Max. frames per second (fps)  | 60 fps@720p<br>30 fps@1080p                                  | 60 fps@720p<br>30 fps@1080p                                  | 60 fps@720p<br>30 fps@1080p                                  |       |
|                        | Indoor / outdoor  | ■/■  | ■/■  | ■/■  |       |
|                        | Day / night   | ■  | ■  | ■  |       |
|                        | Wide Dynamic Range (WDR)  | 120dB  | 120dB  | 120dB  |       |
|                        | ONVIF conformant  | ■  | ■  | ■  |       |
|                        | Built-in microphone   | -  | -  | -  |       |
|                        | Advanced features   | Intelligent Auto Exposure / Intelligent Defog                | -/■  | -/■  | -/■   |
|                        |   | Privacy masking  | ■  | ■  | ■     |
|                        |   | Nbr of presets/guard tours                                   | 256/2  | 256/2  | 256/2 |
| Wiper                  |   | -  | -  | -  |       |
| Intelligent Tracking   |   | ■  | ■  | ■  |       |
| Alarm triggering       | Tamper detection / Video motion detection   | ■/■  | ■/■  | ■/■  |       |
|                        | Built-in video analytics  | ■  | ■  | ■  |       |
|                        | Audio detection   | ■  | ■  | ■  |       |
|                        | PTZ Intelligent Tracking  | ■  | ■  | ■  |       |
| Sensitivity            | Minimum illumination day mode (color)   | 0.0077 lux   | 0.0077 lux   | 0.0077 lux   |       |
|                        | Minimum illumination night mode (black / white)   | 0.0008 lux   | 0.0008 lux   | 0.0008 lux   |       |
|                        | Night vision  | ■ (starlight)  | ■ (starlight)  | ■ (starlight)  |       |
|                        | Max. range at night   | -  | -  | -  |       |
| Lens                   | Focal length  | 4.3 - 129 mm   | 4.3 - 129 mm   | 4.3 - 129 mm   |       |
|                        | Horizontal Angle of View (HAoV)   | 2.3° to 64.7°  | 2.3° to 64.7°  | 2.3° to 64.7°  |       |
|                        | PTZ Zoom optical/digital  | 30x/12x  | 30x/12x  | 30x/12x  |       |
|                        | Tilt angle  | -90° to 14° (pendant)  | -90° to 14° (pendant)  | -90° to 14° (pendant)  |       |
| DORI distances         | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) | 61-1913/24-765/12-383/6-191                                  | 61-1913/24-765/12-383/6-191                                  | 61-1913/24-765/12-383/6-191                                  |       |
| Storage                | Industrial SD card support with health monitoring   | ■  | ■  | ■  |       |
|                        | Cloud application storage   | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG Exporting |       |
| Connections            | Alarm input / output  | 7/4  | 7/4  | 7/4  |       |
|                        | Audio in / out  | ■/■  | ■/■  | ■/■  |       |
|                        | Hybrid / public view monitor  | -/-  | -/-  | -/-  |       |
| Housing                | Weather rating  | IP66 (pendant)/IP54 (in-ceiling)                             | IP66 (pendant)/IP54 (in-ceiling)                             | IP66 (pendant)/IP54 (in-ceiling)                             |       |
|                        | Vandal resistant  | IK10 (with rugged bubble)                                    | IK10 (with rugged bubble)                                    | IK10 (with rugged bubble)                                    |       |
|                        | Operating temperature   | -40° to 55° C (-40° to 131° F)                               | -40° to 55° C (-40° to 131° F)                               | -40° to 55° C (-40° to 131° F)                               |       |
| Power input voltage    | Power over Ethernet / 12V / 24Vdc   | ■ (HiPoE)/-/■ (pendant)<br>■ (PoE+)/-/■ (in-ceiling)         | ■ (HiPoE)/-/■ (pendant)<br>■ (PoE+)/-/■ (in-ceiling)         | ■ (HiPoE)/-/■ (pendant)<br>■ (PoE+)/-/■ (in-ceiling)         |       |



# IP Video

## Moving Cameras



## ▶MIC IP starlight 7100i

## ▶MIC IP ultra 7100i

## ▶MIC IP fusion 9000i



enhanced version



4K UHD



- Available – Not available  
▶ = indication of main differentiator(s)

| Commercial Type Number |  | MIC-7522-Z30x  | MIC-7522-Z30xR   | MIC-7505-Z12xR   | MIC-9502-Z30xxx  |
|------------------------|--|--|--|--|--|
| Video Analytics        | Intelligent Video Analytics ▶  | ■  | ■  | ■  | ■ (Thermal and Optical)  |
| Bitrate management     | Intelligent Dynamic Noise Reduction  | ■  | ■  | ■  | ■  |
|                        | Intelligent streaming  | ■  | ■  | ■  | ■  |
| Basic features         | Compression (H.265 / H.264 & MJPEG) / multi-streaming ▶                                    | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  | ■/4 streams (optical + thermal)  |
|                        | Maximum resolution   | HD 1080p   | HD 1080p   | 4K UHD   | HD 1080p (optical) / 320/640 pixel (thermal)   |
|                        | Image sensor type ▶  | 1/2"   | 1/2"   | 1"   | 1/2 8" CMPS (optical) / Un-cooled microbolometer (thermal)   |
|                        | Max. frames per second (fps) ▶   | 60 fps@1080p   | 60 fps@1080p   | 30 fps@UHD   | 60 fps@1080p (optical) <9/30 fps w/640 pixel (thermal) <9/60 fps w/320 pixel (thermal)                     |
|                        | Indoor / outdoor   | -/■  | -/■  | -/■  | -/■  |
|                        | Day / night  | ■  | ■  | ■  | ■ (optical)  |
| Advanced features      | Wide Dynamic Range (WDR) ▶   | 120dB  | 120dB  | 62dB   | 120dB  |
|                        | ONVIF conformant   | ■  | ■  | ■  | ■  |
|                        | Intelligent Auto Exposure / Intelligent Defog  | -/■  | -/■  | -/■  | -/■  |
|                        | Privacy masking  | ■  | ■  | ■  | ■  |
|                        | Nbr of presets/guard tours   | 256/2  | 256/2  | 265/2  | 256/2  |
|                        | Wiper / Built in window defroster ▶  | ■/-  | ■/■  | ■/■  | ■  |
|                        | Intelligent Tracking   | ■  | ■  | ■  | ■  |
| Alarm triggering       | Tamper detection / Video motion detection  | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Built-in video analytics   | ■  | ■  | ■  | ■  |
|                        | Audio detection  | ■  | ■  | ■  | ■  |
|                        | PTZ Intelligent Tracking   | ■  | ■  | ■  | ■  |
| Sensitivity            | Minimum illumination day mode (color) ▶  | 0.0047 lux   | 0.0047 lux   | 0.292 lux  | 0.0077 lux (optical) N.A. (thermal)  |
|                        | Minimum illumination night mode (black / white) ▶  | 0.0013 lux   | 0.0013 lux   | 0.0110 lux   | 0.0008 lux (optical) 0 lux (thermal)   |
|                        | Night vision ▶   | ■ (optional illuminator)   | ■ (optional illuminator)   | ■ (optional illuminator)   | ■ (thermal)  |
|                        | Max. range at night ▶  | 550 m (1804 ft)  | 550 m (1804 ft)  | 300 m (984 ft)   | 300 m (971 ft) (optical) 1540 m (5050 ft) w/320 pixel (thermal) 3550 m (11,600 ft) w/640 pixel (thermal)   |
| Lens                   | Focal length ▶   | 6.6 - 198 mm   | 6.6 - 198 mm   | 9.3 - 111.6 mm   | 4.3 - 129 mm (optical), 9 mm w/640 pixel (thermal) 19 mm w/320 pixel (thermal) 50 mm w/640 pixel (thermal) |
|                        | Horizontal Angle of View (HAoV) ▶  | 2.1° to 58.3°  | 2.1° to 58.3°  | 6.1° to 64.6°  | 2.3° to 63.7° (optical) 16° w/320 pixel, 12.4° w/50 mm 640 pixel thermal 70° w / 9 mm 640 pixel thermal    |
|                        | PTZ Zoom optical/digital ▶   | 30x/12x  | 30x/12x  | 12x/12x  | 30x/12x  |
|                        | Tilt angle ▶   | -55° to +90° (upright), -95° to +55° (inverted), -80° to +65° (canted) | -55° to +90° (upright), -95° to +55° (inverted), -80° to +65° (canted) | -55° to +90° (upright), -95° to +55° (inverted), -80° to +65° (canted) | -55° to +90° (upright), -95° to +55° (inverted), -80° to +65° (canted)                                     |
| DORI distances         | Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard) ▶ | wide 69-226/27-89/14-46/7-23 tele 2895-6873/834-2726/419-1375/210-689  | wide 69-226/27-89/14-46/7-23 tele 2895-6873/834-2726/419-1375/210-689  | wide 108-355/43-142/22-71/11-36 tele 154-504/61-202/31-101/15-50       | 62-1913/25-765/12-383/6-191  |
| Storage                | Memory card slot ▶   | -  | ■ (up to 2TB)  | ■ (up to 2TB)  | ■ internal EMMC memory 16 GB   |
|                        | Cloud application storage  | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting              | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting              | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting              | Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting  |
| Connections            | Alarm input / output   | 5/3 (with MIC-ALM-WAS-24)  | 5/3 (with MIC-ALM-WAS-24)  | 5/3 (with MIC-ALM-WAS-24)  | 5/3 (with MIC-ALM-WAS-24)  |
|                        | Audio in / out ▶   | ■  | ■  | ■  | ■/■  |
|                        | Hybrid / public view monitor ▶   | ■ (with external decoder)/-  | ■ (with external decoder)/-  | ■ (with external decoder)/-  | -  |
| Housing                | Weather rating   | IP68   | IP68   | IP68   | IP68   |
|                        | Vandal resistant   | IK10   | IK10   | IK10   | IK10   |
|                        | Operating temperature  | -40° to +65° C (-40° to +149° F)                                       | -40° to +65° C (-40° to +149° F)                                       | -40° to +65° C (-40° to +149° F)                                       | -40° to 65° C (-40° to +149° F)  |
| Power input voltage    | Power over Ethernet / 12V / 24Vac ▶  | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  |

## IP Video Moving Cameras



■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |   | MIC-7602-Z30x   | MIC-7602-Z30xx   | MIC-7602-Z30xx-OC  | MIC-7604-Z12xx   | MIC-7604-Z12xx-OC  |
|------------------------|---|---|--|--|--|--|
| Video Analytics        | Intelligent Video Analytics ▶                         | ■   | ■  | ■ + Traffic Detector   | ■  | ■ + Traffic Detector   |
| Bitrate management     | Intelligent Dynamic Noise Reduction                   | ■   | ■  | ■  | ■  | ■  |
|                        | Intelligent streaming                                 | ■   | ■  | ■  | ■  | ■  |
|                        | Compression (H.265 / H.264 & MJPEG) / multi-streaming | ■/■/4 streams   | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  | ■/■/4 streams  |
| Basic features         | Maximum resolution ▶                                  | HD 1080p  | HD 1080p   | HD 1080p   | 4K UHD   | 4K UHD   |
|                        | Image sensor type ▶                                   | 1/2"  | 1/2"   | 1/2"   | 1"   | 1"   |
|                        | Max. frames per second (fps) ▶                        | 30 fps@1080p  | 30 fps@1080p   | 30 fps@1080p   | 30 fps@UHD   | 30 fps@UHD   |
|                        | Indoor / outdoor                                      | -/■   | -/■  | -/■  | -/■  | -/■  |
|                        | Day / night   | ■   | ■  | ■  | ■  | ■  |
|                        | Wide Dynamic Range (WDR) ▶                            | 120dB   | 120dB  | 120dB  | 62dB   | 62dB   |
|                        | ONVIF conformant                                      | ■   | ■  | ■  | ■  | ■  |
|                        | Advanced features                                     | Intelligent Auto Exposure / Intelligent Defog   | -/■  | -/■  | -/■  | -/■  |
|                        | Privacy masking                                       | ■   | ■  | ■  | ■  | ■  |
|                        | Nbr of presets/guard tours                            | 256/2   | 256/2  | 256/2  | 256/2  | 256/2  |
|                        | Wiper / Built in window defroster ▶                   | ■/-   | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Intelligent Tracking                                  | -   | -  | -  | -  | -  |
|                        | 3rd party apps possible                               | ■   | ■  | ■  | ■  | ■  |
|                        | AI based Object classification detectors ▶            | -   | -  | -  | -  | -  |
| Alarm triggering       | Tamper detection / Video motion detection             | ■/■   | ■/■  | ■/■  | ■/■  | ■/■  |
|                        | Audio detection                                       | ■   | ■  | ■  | ■  | ■  |
|                        | PTZ Intelligent Tracking                              | -   | -  | -  | -  | -  |
| Sensitivity            | Minimum illumination day mode (color) ▶               | 0.0047 lux  | 0.0047 lux   | 0.0047 lux   | 0.292 lux  | 0.292 lux  |
|                        | Minimum illumination night mode (black / white) ▶     | 0.0013 lux  | 0.0013 lux   | 0.0013 lux   | 0.0110 lux   | 0.0110 lux   |
|                        | Night vision  | ■ (optional illuminator)  | ■ (optional illuminator)   | ■ (optional illuminator)   | ■ (optional illuminator)   | ■ (optional illuminator)   |
|                        | Max. range at night ▶                                 | 550 m (1804 ft)   | 550 m (1804 ft)  | 550 m (1804 ft)  | 300 m (984 ft)   | 300 m (984 ft)   |
| Lens                   | Focal length ▶  | 6.6 - 198 mm  | 6.6 - 198 mm   | 6.6 - 198 mm   | 9.3 - 111.6 mm   | 9.3 - 111.6 mm   |
|                        | Horizontal Angle of View (HAAoV) ▶                    | 2.1° to 58.3°   | 2.1° to 58.3°  | 2.1° to 58.3°  | 6.1° to 64.6°  | 6.1° to 64.6°  |
|                        | PTZ Zoom optical/digital ▶                            | 30x/12x   | 30x/12x  | 30x/12x  | 12x/12x  | 12x/12x  |
|                        | Tilt angle ▶  | -55° to +90° (upright),<br>-95° to +55° (inverted),<br>-80° to +65° (canted)                  | -55° to +90° (upright),<br>-95° to +55° (inverted),<br>-80° to +65° (canted)     | -55° to +90° (upright),<br>-95° to +55° (inverted),<br>-80° to +65° (canted)     | -55° to +90° (upright),<br>-95° to +55° (inverted),<br>-80° to +65° (canted)     | -55° to +90° (upright),<br>-95° to +55° (inverted),<br>-80° to +65° (canted) |
|                        | DORI distances  | Detect / Observe / Recognize / Identify<br>(Distances according to EN-IEC 62676-4 standard) ▶ | wide 69-226/27-89/<br>14-46/7-23<br>tele 2895-6873/834-2726/<br>419-1375/210-689 | wide 69-226/27-89/<br>14-46/7-23<br>tele 2895-6873/834-2726/<br>419-1375/210-689 | wide 69-226/27-89/<br>14-46/7-23<br>tele 2895-6873/834-2726/<br>419-1375/210-689 | wide 108-355/43-142/<br>22-71/11-36<br>tele 154-504/61-202/<br>31-101/15-50  |
| Storage                | Memory card slot ▶                                    | -   | ■ (up to 2TB)  | ■ (up to 2TB)  | ■ (up to 2TB)  | ■ (up to 2TB)  |
|                        | Cloud application storage                             | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting                               | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting                  | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting                  | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting                  | Auto or Alarm JPEG Posting,<br>Video Clips or JPEG<br>Exporting              |
| Connections            | Alarm input / output                                  | -   | -  | -  | -  | -  |
|                        | Audio in / out  | ■   | ■  | ■  | ■  | ■  |
|                        | Hybrid / public view monitor                          | ■ (with external decoder)/-   | ■ (with external decoder)/-  | ■ (with external decoder)/-  | ■ (with external decoder)/-  | ■ (with external decoder)/-  |
| Housing                | Weather rating  | IP68  | IP68   | IP68   | IP68   | IP68   |
|                        | Vandal resistant                                      | IK10  | IK10   | IK10   | IK10   | IK10   |
|                        | Operating temperature                                 | -40° to +65° C<br>(-40° to +149° F)   | -40° to +65° C<br>(-40° to +149° F)  | -40° to +65° C<br>(-40° to +149° F)  | -40° to +65° C<br>(-40° to +149° F)  | -40° to +65° C<br>(-40° to +149° F)  |
| Power input voltage    | Power over Ethernet / 12V / 24Vac                     | ■ (HiPoE)/-/■   | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  | ■ (HiPoE)/-/■  |

## IP Video Digital Recording

### All-in-one solution

►DIVAR IP all-in-one 4000

►DIVAR IP all-in-one 6000

►DIVAR IP all-in-one 7000 2U

►DIVAR IP all-in-one 7000 3U



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |                                | DIP-442xxx-xxx  | DIP-644x-xxx  | DIP-738x-xxx  | DIP-73Gx-xxx  |
|------------------------|--------------------------------|---|---|---|---|
| Basic functions        | Max. system size (channels)    | ► 32  | 64  | 256   | 256   |
|                        | Integrated video management    | ■   | ■   | ■   | ■   |
|                        | RAID Level                     | ► –   | RAID-5, RAID-6  | RAID-5, RAID-6  | RAID-5, RAID-6  |
|                        | Operating system drive         | ► On separate SSD   | On separate SSD   | On separate redundant SSD                                   | On separate redundant SSD                                   |
|                        | Supported resolutions          | CIF/2CIF/4CIF/720p/1080p/5MP/UHD                              | CIF/2CIF/4CIF/720p/1080p/5MP/UHD                            | CIF/2CIF/4CIF/720p/1080p/5MP/UHD                            | CIF/2CIF/4CIF/720p/1080p/5MP/UHD                            |
|                        | Video compression              | H.264, H.265, MPEG-4, ONVIF, RTSP, JPEG                       | H.264, H.265, MPEG-4, ONVIF, RTSP, JPEG                     | H.264, H.265, MPEG-4, ONVIF, RTSP, JPEG                     | H.264, H.265, MPEG-4, ONVIF, RTSP, JPEG                     |
|                        | Transcoding ONVIF              | ■   | ■   | ■   | ■   |
| Mechanical             | Form factor                    | ► 2-bay Mini-Tower  | 1U 19-inch Rack Mount                                       | 2U 19-inch Rack Mount                                       | 3U 19-inch Rack Mount                                       |
|                        | Network connections (LAN)      | ► 2x Gigabit Ethernet   | 2x Gigabit Ethernet, 1x 1 Gbps (Mgmt)                       | 2x Gigabit Ethernet, 1x 100Mbit (Mgmt)                      | 2x Gigabit Ethernet, 1x 100Mbit (Mgmt)                      |
|                        | USB ports                      | ► 2x USB2.0, 4x USB3.2 Gen2                                   | 2x USB2.0, 4x USB3.2 Gen2                                   | 2x USB2.0, 3x USB3.1, 1x USB-C                              | 2x USB2.0, 3x USB3.1, 1x USB-C                              |
|                        | Number of power supplies       | ► 1   | 1   | 2   | 2   |
|                        | Power supplies hot swappable   | ► –   | –   | ■   | ■   |
| Video output           | Connector type                 | ► 1 HDMI2.0, 1 HDMI1.4, 1 DP 1.2                              | 2x DP 1.2, 1x DVI-D   | 2x DP, 1x DVI   | 2x DP, 1x DVI   |
|                        | Monitor output                 | 3   | 3   | 3   | 3   |
| Audio                  | In / out channels              | ► 32  | 64  | 256   | 256   |
|                        | Compression type               | G.711, G.726, ACC   | G.711, G.726, ACC   | G.711, G.726, ACC   | G.711, G.726, ACC   |
|                        | Synchronous audio              | ■   | ■   | ■   | ■   |
| Recording              | Video Recording Manager (VRM)  | ■   | ■   | ■   | ■   |
|                        | Schedule recording modes       | ■   | ■   | ■   | ■   |
| Storage options        | Max. drives supported          | ► 2   | 4   | 8   | 16  |
|                        | Available capacities per drive | 4, 8 or 18TB  | 4, 8 or 18TB  | 4, 8 or 12TB  | 4, 8 or 12TB  |
|                        | Base system capacity TB        | ► 0, 8, 16 or 36TB  | 0, 16, 32 or 72TB   | 0, 32, 64 or 96TB   | 0, 64, 128 or 192TB   |
|                        | Max. Base system capacity TB   | ► 36TB  | 72TB  | 96TB  | 192TB   |
|                        | Full system capacity TB        | ► 108TB   | 360TB   | 864TB   | 960TB   |
|                        | Extensible / external support  | iSCSI   | iSCSI   | iSCSI   | iSCSI   |
| Storage extensions     | Max. number of units           | ► 2x DIVAR IP all-in-one 4000 configured as storage extension | 4x DIVAR IP all-in-one 6000 configured as storage extension | 4x DIVAR IP all-in-one 7000 configured as storage extension | 4x DIVAR IP all-in-one 7000 configured as storage extension |
|                        | Maximum drives supported       | ► 2   | 4   | 8   | 16  |
|                        | Available capacities per drive | ► 4, 8 or 18TB  | 4, 8 or 18TB  | 4, 8 or 12TB  | 4, 8 or 12TB  |
|                        | Hot swappable                  | ► –   | –   | ■   | ■   |
| Export/back-up of data | Data format                    | native, MOV, MP4  | native, MOV, MP4  | native, MOV, MP4  | native, MOV, MP4  |
|                        | Built-in DVD writer            | ► –   | –   | ■   | ■   |
|                        | Supported devices              | ► External CD/DVD Writer, USB 2.0, USB 3.0, iSCSI             | External CD/DVD Writer, USB 2.0, USB 3.0, iSCSI             | USB 2.0, USB 3.0, iSCSI, internal CD/DVD Writer             | USB 2.0, USB 3.0, iSCSI, internal CD/DVD Writer             |
|                        | Back-up mode                   | Manual or Automatic   | Manual or Automatic   | Manual or Automatic   | Manual or Automatic   |

## IP Video Digital Recording

### All-in-one solution

▶DIVAR IP all-in-one 4000

▶DIVAR IP all-in-one 6000

▶DIVAR IP all-in-one 7000 2U

▶DIVAR IP all-in-one 7000 3U



■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number                  |                                      | DIP-442xxx-xxx                                | DIP-644x-xxx                                  | DIP-738x-xxx                                 | DIP-73Gx-xxx                                 |
|---|--------------------------------------|---|---|--|--|
| Redundancy                              | Power supply redundancy              | ▶   | –   | ■  | ■  |
|   | Hot swappable HDD                    | ▶   | –   | ■  | ■  |
|   | Teamed Ethernet Network ports        | ■   | ■   | ■  | ■  |
| Software options                        | Redundant operating system drive     | ▶   | –   | ■  | ■  |
|   | PTZ control                          | ■   | ■   | ■  | ■  |
|   | CCTV keyboard support                | ■   | ■   | ■  | ■  |
|   | Admin control                        | ■   | ■   | ■  | ■  |
| Remote access                           | Export options                       | ■   | ■   | ■  | ■  |
|   | Mobile device (smart phone / tablet) | ■ Video security app                          | ■ Video security app                          | ■ Video security app                         | ■ Video security app                         |
|   | Network                              | 10/100/1000 Ethernet                          | 10/100/1000 Ethernet                          | 10/100/1000 Ethernet                         | 10/100/1000 Ethernet                         |
|   | Web browser access                   | ■   | ■   | ■  | ■  |
| Advanced features support               | Simultaneous accessible users        | 4   | 4   | 4  | 4  |
|   | Forensic search support (metadata)   | ■   | ■   | ■  | ■  |
| Supported software                      | Webclient                            | ■   | ■   | ■  | ■  |
|   | Bosch Video Management System        | ▶   | ■ (v11.1.1 or newer)                          | ■ (v10.1 or newer)                           | ■ (v10.1 or newer)                           |
|   | 3 <sup>rd</sup> Party software       | –   | –   | –  | –  |
| 3 <sup>rd</sup> party integration tools | Optional ATM/POS integration         | ■   | ■   | ■  | ■  |
|   | SDK (IPP*)                           | ■   | ■   | ■  | ■  |
| Operating System                        |                                      | Windows Server IoT 2022 for Storage Workgroup | Windows Server IoT 2022 for Storage Workgroup | Windows Server IoT 2019 for Storage Standard | Windows Server IoT 2019 for Storage Standard |

\* Integration Partner Program (IPP) for more information visit <https://www.boschsecurity.com/xc/en/partners>

## IP Video Digital Storage

### Network Video Recorder

#### ► DSA E-Series



■ Available – Not available

| Commercial Type Number |                                       | DSA-N6xxx-xxxx                                      |
|------------------------|---------------------------------------|---|
| Basic functions        | Max. system size (channels)           | 800   |
|                        | Integrated video management           | –   |
|                        | RAID Level                            | RAID-5/RAID-6/DDP                                   |
|                        | Supported resolutions                 | CIF/2CIF/4CIF/720p/1080p/5MP                        |
|                        | Video compression                     | H.264, H.265, MPEG-4, ONVIF, RTSP, JPEG             |
|                        | Transcoding                           | –   |
|                        | ONVIF                                 | ■   |
| Mechanical             | Form factor                           | 2U/4U 19-inch Rack Mount                            |
|                        | Network connections (LAN)             | 2x Gigabit Ethernet/<br>2x 10 Gigabit Ethernet      |
|                        | USB ports                             | –   |
|                        | Number of power supplies              | 2   |
|                        | Power supplies hot swappable          | ■   |
|                        | Video output                          | Connector type<br>Monitor output                    |
| Audio                  | In / out channels                     | 800 (audio playback via remote station only)        |
|                        | Compression type                      | G.726   |
|                        | Synchronous audio                     | ■   |
|                        | Associate multiple cameras to 1 Audio | ■   |
| Recording              | Video Recording Manager (VRM)         | –   |
|                        | Schedule recording modes              | ■   |
| Storage options        | Max. drives supported                 | 12/60   |
|                        | Available capacities per drive        | 4, 8 or 12TB  |
|                        | Base system capacity TB               | –   |
|                        | Max. Base system capacity TB          | 12 bay: 48/96/144TB<br>60 bay: 240/480/720TB        |
|                        | Full system capacity TB               | 12 bay: 384/ 768/ 1152TB<br>60 bay: 720/1440/2160TB |
|                        | Extensible / external support         | 6Gb/s SAS (Copper)                                  |
| Storage extensions     | Max. number of units                  | 12 bay: 7 / 60 bay: 3                               |
|                        | Maximum drives supported              | 12/60   |
|                        | Available capacities per drive        | 4, 8 or 12TB  |
|                        | Hot swappable                         | ■   |
| Export/back-up of data | Data format                           | WMF, Bosch ASF                                      |
|                        | Built-in DVD writer                   | –   |
|                        | Supported devices                     | External CD/DVD Writer, USB 2.0, iSCSI              |
|                        | Back-up mode                          | manual or automatic                                 |
| Redundancy             | Power supply redundancy               | ■   |
|                        | Hot swappable HDD                     | ■   |

Table continued on the next page

## IP Video Digital Storage

### Network Video Recorder

#### ► DSA E-Series



■ Available – Not available

| Commercial Type Number                  |                                      | DSA-N6xxx-xxxx         |
|---|--------------------------------------|------------------------|
| Redundancy                              | Power supply redundancy              | –                      |
|   | Hot swappable HDD                    | –                      |
| Software options                        | PTZ control                          | –                      |
|   | CCTV keyboard support                | –                      |
|   | Admin control                        | –                      |
|   | Export options                       | –                      |
| Remote access                           | Mobile device (smart phone / tablet) | –                      |
|   | Network                              | 2x 10 Gigabit Ethernet |
|   | Web browser access                   | –                      |
|   | Simultaneous accessible users        | –                      |
| Advanced features support               | Forensic search support (metadata)   | –                      |
|   | Webclient                            | ■                      |
| Supported software                      | Bosch Video Client                   | –                      |
|   | Bosch Video Management System        | –                      |
|   | 3 <sup>rd</sup> Party software       | –                      |
| 3 <sup>rd</sup> party integration tools | Optional ATM/POS integration         | –                      |
|   | SDK (IPP*)                           | –                      |

\* Integration Partner Program (IPP) for more information visit <https://www.boschsecurity.com/xc/en/partners>

## IP Video Digital Storage

### Network Video Recorder

►DIVAR network 2000

►DIVAR network 3000

►DIVAR network 5000



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |                                       | DDN-2516-xxxxxx                         | DDN-3532-xxxxxx                       | DRN-5532-xxxxxx                              |
|------------------------|---------------------------------------|---|---------------------------------------|--|
| Basic functions        | Max. system size                      | ► 16                                    | 32                                    | 32   |
|                        | Alarm Inputs / Outputs                | ► 4 / 2                                 | 4 / 2                                 | 16 / 6                                       |
|                        | RAID Level                            | ► -                                     | -                                     | RAID-1, RAID-5                               |
|                        | Supported resolutions                 | ► up to 8MP                             | up to 12MP                            | up to 12MP                                   |
|                        | Video compression                     | H.264, H.265, MPEG-4                    | H.264, H.265, MPEG-4                  | H.264, H.265, MPEG-4                         |
|                        | Transcoding                           | -                                       | -                                     | -  |
|                        | Bosch IP native camera integration    | ■                                       | ■                                     | ■  |
|                        | ONVIF                                 | ■                                       | ■                                     | ■  |
| Mechanical             | Form factor                           | ► 1U high Desktop                       | 1U high Desktop                       | 1.5U high Rack Mount                         |
|                        | Network connections (LAN)             | 2x Gigabit Ethernet                     | 2x Gigabit Ethernet                   | 2x Gigabit Ethernet                          |
|                        | Build-in PoE+                         | ► 0, 8 or 16 PoE+                       | 0 or 16 PoE+                          | 0 or 16 PoE+                                 |
|                        | USB ports                             | ► 1x USB 2.0, 1xUSB 3.0                 | 1x USB 2.0, 1xUSB 3.0                 | 1x USB 2.0, 2xUSB 3.0                        |
| Video output           | Connector type                        | VGA, HDMI                               | VGA, HDMI                             | VGA, HDMI                                    |
|                        | Spotmonitor                           | -                                       | -                                     | ■ (HDMI)                                     |
| Audio                  | In / out channels                     | ► 16 in / 1 out                         | 32 in / 1 out                         | 32 in / 1 out                                |
|                        | Compression type                      | G.726                                   | G.726                                 | G.726  |
|                        | Synchronous audio                     | ■                                       | ■                                     | ■  |
|                        | Associate multiple cameras to 1 Audio | -                                       | -                                     | -  |
| Storage options        | Max. drives supported                 | ► 2                                     | 2                                     | 4  |
|                        | Available capacities per drive        | 1, 2, 3, 4 or 6TB                       | 1, 2, 3, 4 or 6TB                     | 1, 2, 3, 4 or 6TB                            |
|                        | Base system capacity TB               | ► 0, 2TB                                | 0, 2TB                                | 0, 4TB                                       |
|                        | Max. Base system capacity TB          | ► 12TB                                  | 12TB                                  | 24TB   |
|                        | Full system capacity TB               | ► 12TB                                  | 12TB                                  | 24TB   |
|                        | Extensible / external support         | ► -                                     | -                                     | eSATA  |
| Storage extensions     | Max. number of units                  | ► -                                     | -                                     | 1  |
|                        | Maximum drives supported              | ► -                                     | -                                     | 1  |
|                        | Available capacities per drive        | -                                       | -                                     | 1, 2, 3, 4 or 6TB                            |
|                        | Hot swappable                         | -                                       | -                                     | -  |
| Export/back-up of data | Data format                           | native, ASF                             | native, ASF                           | native, ASF                                  |
|                        | Built-in DVD writer                   | ■ (optional)                            | ■ (optional)                          | ■ (optional)                                 |
|                        | Supported devices                     | ► USB 2.0, USB 3.0, internal DVD Writer | USB 2.0, USB 3.0, internal DVD Writer | USB 2.0, USB 3.0, eSata, internal DVD Writer |
|                        | Back-up mode                          | manual or automatic                     | manual or automatic                   | manual or automatic                          |
| Redundancy             | Power supply redundancy               | -                                       | -                                     | -  |
|                        | Hot swappable HDD                     | -                                       | -                                     | -  |
| Software options       | PTZ control                           | ■                                       | ■                                     | ■  |
|                        | CCTV keyboard support                 | ► -                                     | -                                     | ■  |
|                        | Admin control                         | ■                                       | ■                                     | ■  |
|                        | Export options                        | ■                                       | ■                                     | ■  |

Table continued on the next page

## IP Video Digital Storage

### Network Video Recorder

►DIVAR network 2000      ►DIVAR network 3000      ►DIVAR network 5000



■ Available – Not available

| Commercial Type Number      |                                    | DDN-2516-xxxxxx      | DDN-3532-xxxxxx      | DRN-5532-xxxxxx      |
|-----------------------------|------------------------------------|----------------------|----------------------|----------------------|
| Remote access               | Mobile device (smart phone)        | ■ Mobile Viewer app  | ■ Mobile Viewer app  | ■ Mobile Viewer app  |
|                             | Network                            | 10/100/1000 Ethernet | 10/100/1000 Ethernet | 10/100/1000 Ethernet |
|                             | Web browser access                 | ■                    | ■                    | ■                    |
|                             | Simultaneous accessible users      | 128 (4 advised)      | 128 (4 advised)      | 128 (4 advised)      |
| Advanced features support   | Forensic search support (metadata) | -                    | -                    | -                    |
|                             | Webclient                          | ■                    | ■                    | ■                    |
| Supported software          | Bosch Video Client                 | ■                    | ■                    | ■                    |
|                             | Bosch Video Management System      | ■                    | ■                    | ■                    |
|                             | 3 <sup>rd</sup> Party software     | -                    | -                    | -                    |
| 3rd party integration tools | Optional ATM/POS integration       | -                    | -                    | -                    |
|                             | SDK (IPP*)                         | ■                    | ■                    | ■                    |
|                             | Bosch Video Management System      | ■                    | ■                    | ■                    |
|                             | 3rd Party software                 | -                    | -                    | -                    |

\* Integration Partner Program (IPP) for more information visit <https://www.boschsecurity.com/xc/en/partners>

## IP Video Digital Storage

### Hybrid Network Video Recorder

►DIVAR hybrid 3000      ►DIVAR hybrid 5000



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number |                                    | DDH-3532-xxx00           | DRH-5532-xxxxxx          |
|------------------------|------------------------------------|--------------------------|--------------------------|
| Basic functions        | Max. system size                   | 16 analog + 16IP or 32IP | 16 analog + 16IP or 32IP |
|                        | Looping AN Video                   | ► -                      | ■                        |
|                        | Alarm Inputs / Outputs             | ► 16 / 3                 | 16 / 6                   |
|                        | RAID Level                         | ► -                      | RAID-1, RAID-5           |
|                        | Supported resolutions IP cameras   | up to 12MP               | up to 12MP               |
|                        | Supported resolutions AN cameras   | up to 960H               | up to 960H               |
|                        | Video compression                  | H.264, H.265, MPEG-4     | H.264, H.265, MPEG-4     |
|                        | Transcoding                        | -                        | -                        |
|                        | Bosch IP native camera integration | ■                        | ■                        |
|                        | ONVIF                              | ■                        | ■                        |
| Mechanical             | Form factor                        | ► 1U high Desktop        | 1.5U high Rack Mount     |
|                        | Network connections (LAN)          | 2x Gigabit Ethernet      | 2x Gigabit Ethernet      |
|                        | Build-in PoE+                      | -                        | -                        |
|                        | USB ports                          | 1x USB 2.0, 2xUSB 3.0    | 1x USB 2.0, 2xUSB 3.0    |
| Video output           | Connector type                     | VGA, HDMI                | VGA, HDMI                |
|                        | Spotmonitor                        | ■ (HDMI)                 | ■ (HDMI)                 |

Table continued on the next page



## IP Video Digital Storage

### Hybrid Network Video Recorder

►DIVAR hybrid 3000      ►DIVAR hybrid 5000



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number      |                                       | DDH-3532-xxxx00                       | DRH-5532-xxxxxx                              |
|-----------------------------|---------------------------------------|---------------------------------------|--|
| Audio                       | In / out channels IP cameras          | 32 in                                 | 32 in  |
|                             | Compression type IP camera            | G.726                                 | G.726  |
|                             | In / out channels recorder            | 4 in / 1 out                          | 4 in / 1 out                                 |
|                             | Compression type recorder             | G711a                                 | G711a  |
|                             | Synchronous audio                     | ■                                     | ■  |
|                             | Associate multiple cameras to 1 Audio | -                                     | -  |
| Storage options             | Max. drives supported                 | 2                                     | 4  |
|                             | Available capacities per drive        | 1, 2, 3, 4 or 6TB                     | 1, 2, 3, 4 or 6TB                            |
|                             | Base system capacity TB               | 0, 2TB                                | 0, 4TB                                       |
|                             | Max. Base system capacity TB          | 12TB                                  | 24TB   |
|                             | Full system capacity TB               | 12TB                                  | 24TB   |
|                             | Extensible / external support         | -                                     | eSATA  |
| Storage extensions          | Max. number of units                  | -                                     | 1  |
|                             | Maximum drives supported              | -                                     | 1  |
|                             | Available capacities per drive        | -                                     | 1, 2, 3, 4 or 6TB                            |
|                             | Hot swappable                         | -                                     | -  |
| Export/back-up of data      | Data format                           | native, ASF                           | native, ASF                                  |
|                             | Built-in DVD writer                   | ■ (optional)                          | ■ (optional)                                 |
|                             | Supported devices                     | USB 2.0, USB 3.0, internal DVD Writer | USB 2.0, USB 3.0, eSata, internal DVD Writer |
|                             | Back-up mode                          | manual or automatic                   | manual or automatic                          |
| Redundancy                  | Power supply redundancy               | -                                     | -  |
|                             | Hot swappable HDD                     | -                                     | -  |
| Software options            | PTZ control                           | ■                                     | ■  |
|                             | CCTV keyboard support                 | -                                     | ■  |
|                             | Admin control                         | ■                                     | ■  |
|                             | Export options                        | ■                                     | ■  |
| Remote access               | Mobile device (smart phone)           | ■ Mobile Viewer app                   | ■ Mobile Viewer app                          |
|                             | Network                               | 10/100/1000 Ethernet                  | 10/100/1000 Ethernet                         |
|                             | Web browser access                    | ■                                     | ■  |
|                             | Simultaneous accessible users         | 128 (4 advised)                       | 128 (4 advised)                              |
| Advanced features support   | Forensic search support (metadata)    | -                                     | -  |
|                             | Webclient                             | ■                                     | ■  |
| Supported software          | Bosch Video Client                    | ■                                     | ■  |
|                             | Bosch Video Management Systems        | ■                                     | ■  |
|                             | 3rd Party software                    | -                                     | -  |
| 3rd party integration tools | SDK (IPP*)                            | ■                                     | ■  |

\* Integration Partner Program (IPP) for more information visit <https://www.boschsecurity.com/xc/en/partners>

## IP Video

### Video Software

■ Available – Not available

▶ = indication of main differentiator(s)

#### ▶Video Management System



| Name                                |   | BVMs Viewer             | BVMs Lite      | DIVAR IP all-in-one<br>4000 | DIVAR IP all-in-one<br>6000 | DIVAR IP all-in-one<br>7000 | BVMs Plus      | BVMs Professional |   |
|-------------------------------------|---|-------------------------|----------------|-----------------------------|-----------------------------|-----------------------------|----------------|-------------------|---|
| System features                     | Included cameras (max cameras)                      | ▶ 16 (500)              | 8 (42)         | 8 (32)                      | 8 (64)                      | 8 (256)                     | 8 (256)        | 8 (2,000)         |   |
|                                     | Maximum number of workstations                      | ▶ 1 (1)                 | 2 (5)          | 2 (5)                       | 2 (20)                      | 2 (20)                      | 5 (20)         | 5 (100)           |   |
|                                     | Maximum number of BVMs subsystems                   | ▶ –                     | –              | –                           | 0 (20)                      | 0 (20)                      | 0 (20)         | 0 (100)           |   |
|                                     | Maximum number of Bosch VRM servers                 | ▶ 32 <sup>1</sup>       | 2              | 2                           | 2                           | 2                           | 2              | 125               |   |
|                                     | Maximum storage capacity                            | ▶ n.a.                  | 2 x 4 PB       | 3 x 36 TB                   | 5 x 72 TB                   | 5 x 192 TB                  | 2 x 4 PB       | 125 x 4 PB        |   |
|                                     | Forensic search                                     | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | DVR support   | ▶ 5 (32)                | 1 (10)         | 1 (10)                      | 1 (10)                      | 1 (10)                      | 1 (10)         | 1 (50)            |   |
|                                     | Events and alarms                                   | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Streamlining  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | GPU decoding  | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Remote access                                       | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Dynamic transcoding                                 | ▶ ■                     | ■ <sup>2</sup> | ■                           | ■                           | ■                           | ■ <sup>2</sup> | ■ <sup>2</sup>    |   |
|                                     | Web client  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Keyboard support                                    | ▶ 1 (1)                 | 2 (5)          | 2 (5)                       | 2 (10)                      | 2 (10)                      | 5 (10)         | 5 (100)           |   |
|                                     | Offline map functionality                           | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Online map functionality                            | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Map-based tracking assistant                        | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Audio support                                       | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Decoder support                                     | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | BVMs Config Wizard                                  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Live & Playback sites                               | ▶ 16 (9999)             | –              | –                           | 0 (20)                      | 0 (20)                      | 1 (20)         | 1 (9999)          |   |
|                                     | Supported camera devices                            | Bosch panoramic cameras | ▶ ■            | ■                           | ■                           | ■                           | ■              | ■                 | ■ |
|                                     |   | Bosch UHD cameras       | ▶ ■            | ■                           | ■                           | ■                           | ■              | ■                 | ■ |
| Bosch HD cameras                    |   | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
| Bosch SD / VGA cameras              |   | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
| Third party ONVIF Profile S cameras |   | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
| Bosch H.265 cameras                 |   | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
| Redundancy                          | Automatic Network Replenishment (ANR)               | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | VMware® vSphere / Microsoft Hyper-V                 | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | Virtualization support                              | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | VMware® vSphere High Availability support           | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | Microsoft Hyper-V Failover Cluster and Hyper-V      | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | Replica support                                     | ▶ –                     | ■              | –                           | –                           | –                           | ■              | ■                 |   |
|                                     | Failover VRM  | ▶ –                     | 8 (42)         | 0 (32)                      | 0 (64)                      | 0 (256)                     | 8 (256)        | 8 (2000)          |   |
| Dual Recording                      | ▶ –   | 8 (42)                  | 0 (32)         | 0 (64)                      | 0 (256)                     | 8 (256)                     | 8 (2000)       |                   |   |
| Alarm management                    | Logbook   | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Events and alarms                                   | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Email notification                                  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Alarm-based recording                               | ▶ n.a.                  | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Motion recording                                    | ▶ n.a.                  | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Video Analytics events                              | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | SNMP support  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Workflow with instructions on alarm                 | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
| Integration                         | Maximum number of Bosch B/G Series intrusion panels | ▶ –                     | 1 (5)          | 1 (5)                       | 1 (10)                      | 1 (10)                      | 1 (10)         | 1 (40)            |   |
|                                     | Access Management System                            | ▶ –                     | 5              | 5                           | 5                           | 5                           | 5              | 5                 |   |
|                                     | I/O module support                                  | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Active directory                                    | ▶ ■                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | ATM-POS support                                     | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | Additional data                                     | ▶ –                     | ■              | ■                           | ■                           | ■                           | ■              | ■                 |   |
|                                     | License plate recognition                           | ▶ –                     | 0 (5)          | 0 (5)                       | 0 (10)                      | 0 (10)                      | 0 (10)         | 0 (50)            |   |
| Software Development Kit (SDK)      | ▶ –   | ■                       | ■              | ■                           | ■                           | ■                           | ■              |                   |   |

<sup>1</sup> limited

<sup>2</sup> additional hardware required

## IP Video Viewing Software

### ▶ Video Security App

### ▶ Video Security Client



■ Available – Not available

▶ = indication of main differentiator(s)

| Name                          |   | Video Security App            | Video Security Client                                      |   |
|-------------------------------|---|-------------------------------|--|---|
|                               | No. of channels ▶   | 120 per site                  | 128 per site   |   |
|                               | Usage situation ▶   | Mobile                        | PC and Mobile  |   |
|                               | Workstation OS support ▶  | iOS, Android                  | Windows 10.1607<br>“Anniversary Update” (64-bit) or higher |   |
|                               | Software based Video IP Platform  | ■                             | ■  |   |
|                               | Multi-site Support<br>(independent systems tied together)                                 | -                             | -  |   |
|                               | Multi-site Support (dispersed system<br>recording, cameras, remote independent<br>client) | -                             | -  |   |
| Key technologies<br>supported | Dynamic Transcoding   | ■                             | ■  |   |
|                               | Video analytics   | ■                             | ■  |   |
|                               | Client side dewarping (panoramic)   | ■                             | ■  |   |
|                               | 4K UHD<br>starlight ▶   |                               | ■  |   |
| Encoding                      | H.264/HEVC/H.265  | ■/■/■                         | ■/■/■  |   |
|                               | MPEG-4  | ■                             | ■  |   |
|                               | 3rd party camera support  | ■ (with VSG)                  | ■ (with VSG)   |   |
| Viewing                       | Multi-monitor support   | -                             | -  |   |
|                               | 16:9 monitor support ▶  | n/a                           | ■  |   |
|                               | Viewing frequency   | -                             | -  |   |
|                               | Dynamic cameo scaling   | ■                             | ■  |   |
| Alarm Management              | User management   | -                             | -  |   |
|                               | Digital I/O alarms  | -                             | -  |   |
|                               | System event alarms   | -                             | -  |   |
|                               | Motion alarms   | -                             | -  |   |
|                               | Event response and command scripts  | -                             | -  |   |
|                               | Video analytics alarms  | -                             | -  |   |
|                               | Video analytics forensic search   | ■ (Simple search)             | ■ (Simple search)  |   |
|                               | Audio   | -                             | -  |   |
|                               | Compound events   | -                             | -  |   |
|                               | Scheduled dependent alarming  | -                             | -  |   |
|                               | Event allocation to user groups   | -                             | -  |   |
|                               | Control   | AUTODOME Intelligent Tracking | ■  | ■ |
|                               |   | PTZ                           | ■  | ■ |
| IntuiKey                      |   | -                             | -  |   |
| Virtual matrix                |   | -                             | -  |   |
| Storage                       | @edge camera support  | ■                             | ■  |   |
|                               | iSCSI   | ■                             | ■  |   |
|                               | NVR support   | -                             | -  |   |
|                               | VRM   | ■                             | ■  |   |
|                               | Video analytics metadata  | ■                             | ■  |   |
|                               | Support redundant storage   | -                             | -  |   |
|                               | DLA Support (VRM Mode)  | ■                             | ■  |   |
| Integration                   | BRS   | -                             | -  |   |
|                               | DxR 400 / 600 / 700   | -                             | -  |   |
|                               | Virtual inputs  | -                             | -  |   |

## IP Video Encoders

### ►VIDEOJET multi 4000



■ Available – Not available

| Commercial Type Number | VJM-4016                     |                                |
|------------------------|------------------------------|--------------------------------|
|                        | Description                  | 16 Channel H.264 Video Encoder |
| Video/Audio            | Camera Inputs                | 16                             |
|                        | Video Codec                  | H.264 High Profile             |
|                        | Max. frames per second (fps) | 25/30@4CIF                     |
|                        | Audio in / out               | 2/1                            |
|                        | Transcoding at the edge      | -                              |
| Intelligence           | Direct-to-iSCSI              | ■                              |
|                        | Video Analytics              | Motion+                        |
| Interfaces             | Alarm In                     | 4                              |
|                        | Relay Out                    | 1                              |
|                        | ONVIF conformant             | ■                              |

## IP Video Decoders

### ►VIDEOJET decoder 7000



■ Available – Not available

► = indication of main differentiator(s)

| Commercial Type Number | VJD-7513                     |   |
|------------------------|------------------------------|---|
|                        | Description                  | High performance H.265 UHD decoder                          |
| Video/Audio            | Monitor Outputs              | 2<br>(HDMI, DP via USB-C)                                   |
|                        | Video Codec                  | H.265, H.264,<br>MPEG-4, MPEG-2                             |
|                        | Max. frames per second (fps) | 4x 30@UHD*<br>10x 60@1080p*<br>18x 60@720p*<br>28x 60@432p* |
|                        | Audio in / out               | via HDMI  |
|                        | Transcoding at the edge      | -   |
| Interfaces             | Alarm In                     | -   |
|                        | Relay Out                    | -   |
|                        | ONVIF conformant             | -   |
| Other                  | Keyboard                     | supported for IP Matrix                                     |
|                        | IP Matrix                    | ■   |

\* at 25° C with a single HD monitor connected

## IP Video Flat Panel Monitors

### ►High Definition



■ Available – Not available

▶ = indication of main differentiator(s)

| Commercial Type Number |                                 | UML-245-90     | UML-275-90   | UML-274-90   | UML-324-90 | UML-434-90 | UML-554-90 |
|------------------------|---------------------------------|----------------|--------------|--------------|------------|------------|------------|
| Display                | Type                            | ▶ 23.8" LED    | 27" LED      | 27" LED      | 32" LED    | 43" LED    | 55" LED    |
|                        | Max Pixel Resolution            | ▶ 1920x1080    | 3840x2160    | 1920x1080    | 1920x1080  | 1920x1080  | 3840x2160  |
|                        | Aspect Ratio                    | 16:9           | 16:9         | 16:9         | 16:9       | 16:9       | 16:9       |
|                        | Brightness (cd/m <sup>2</sup> ) | ▶ 250          | 300          | 350          | 500        | 400        | 450        |
|                        | Contrast Ratio                  | ▶ 1000:1       | 1000:1       | 3000:1       | 3000:1     | 3000:1     | 4000:1     |
|                        | Backlight                       | ▶ 30,000 hrs   | 30,000 hrs   | 30,000 hrs   | 50,000 hrs | 50,000 hrs | 50,000 hrs |
|                        | Viewing Angle (HxV)             | 178x178        | 178x178      | 178x178      | 178x178    | 178x178    | 178x178    |
| Connectors             | Composite Video (BNC)           | -              | -            | -            | -          | -          | -          |
|                        | VGA                             | ▶ -            | -            | ■            | ■          | ■          | ■          |
|                        | DVI-D                           | ▶ -            | -            | ■            | ■          | ■          | ■          |
|                        | HDMI                            | ■              | ■            | ■            | ■          | ■          | ■          |
|                        | Display Port                    | ■              | ■            | ■            | ■          | ■          | ■          |
| Audio                  | Input                           | ▶ -            | -            | ■            | ■          | ■          | ■          |
|                        | Speaker                         | ■              | ■            | ■            | ■          | ■          | ■          |
| Mechanical             | Width                           | ▶ 541 mm       | 615.1 mm     | 633.6 mm     | 737.9 mm   | 978.3 mm   | 1253.8 mm  |
|                        | Height                          | ▶ 387.3 mm     | 428.4 mm     | 371.8 mm     | 431.5 mm   | 568.8 mm   | 722.6 mm   |
|                        | Depth                           | ▶ 219.7 mm     | 219.7 mm     | 64.8 mm      | 71.5 mm    | 74.7 mm    | 74.1 mm    |
|                        | Weight                          | ▶ 3.5 kg       | 4.0 kg       | 6.8 kg       | 11.6 kg    | 18.6 kg    | 30.5 kg    |
| Power                  | Power Supply                    | ▶ Separate     | Separate     | Integrated   | Integrated | Integrated | Integrated |
|                        | Power Consumption               | ▶ <35W         | <45W         | <50W         | <60W       | <75W       | <155W      |
| Misc.                  | Picture-in-picture              | -              | -            | -            | -          | -          | -          |
|                        | Front Panel Lockout             | -              | -            | -            | -          | -          | -          |
|                        | IR Remote                       | ▶ -            | -            | ■            | ■          | ■          | ■          |
| Cables Included        | VGA-to-VGA                      | ▶ -            | -            | ■            | ■          | ■          | ■          |
|                        | HDMI-to-HDMI                    | ■              | ■            | ■            | ■          | ■          | ■          |
|                        | DVI-to-DVI                      | -              | -            | -            | -          | -          | -          |
|                        | DP-to-DP                        | ■              | ■            | ■            | ■          | ■          | ■          |
|                        | DP-to-MiniDP converter          | ■              | ■            | ■            | ■          | ■          | ■          |
| Mounting               | VESA Compliant                  | ■              | ■            | ■            | ■          | ■          | ■          |
|                        | Rack-mountable                  | -              | -            | -            | -          | -          | -          |
|                        | Fixed desktop stand             | within box     | within box   | within box   | within box | within box | within box |
|                        | Adjustable desktop stand        | ▶ UMM-LED27-SD | UMM-LED27-SD | UMM-LED27-SD | -          | -          | -          |
|                        | Fixed Wall Mount                | ▶ -            | -            | -            | -          | ST650      | ST650      |
|                        | Swivel/Tilt Wall Mount          | ▶ UMM-LW-30B   | UMM-LW-30B   | UMM-LW-30B   | UMM-WMT-32 | -          | -          |



### **Bosch Security and Safety Systems**

Protecting lives, buildings and assets is our aim. Our product portfolio includes video security, intrusion detection, fire detection and voice evacuation systems as well as access control and management systems. Professional audio and conference systems for communications of voice, sound and music complete the range.

### **Bosch Security and Safety Systems**

To learn more about Video Systems please visit [www.boschsecurity.com](http://www.boschsecurity.com)

© Bosch Security Systems, 2022  
Modifications reserved  
BT-VS/MKC version 34\_EN September 2022

 [www.facebook.com/BoschSecurity](https://www.facebook.com/BoschSecurity)

 [www.twitter.com/BoschSecurityEU](https://www.twitter.com/BoschSecurityEU)

 [www.youtube.com/BoschSecurity](https://www.youtube.com/BoschSecurity)