



**BOSCH**

Invented for life

# Video product overview

July 2021

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# THE POWER TO PREDICT

Know what's next

AIoT 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. AIoT 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. AIoT 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.



# Welcome to INTEOX

## Unlimited starts here

The INTEOX open camera platform enables full freedom for new development, allowing system integrators and other stakeholders to build customer-specific solutions consisting of applications, software and services.

### Building customer-specific solutions starts with freedom of choice:

#### Moving cameras



**MIC inteox 7100i**



**AUTODOME inteox 7000i**

#### Fixed cameras



**FLEXIDOME inteox 7100i IR**



**DINION inteox 7100i IR**

### Next step:



Select one or multiple applications available in the Security and Safety Things application store



Create your own customer-specific applications



Securely install and execute applications on INTEOX cameras



Use built-in Video Analytics and Camera Trainer technology to tailor the solution to detect user-specific objects or situations

### Create your own customer-specific application:



Fast and easy development thanks to an open Operating System



Make use of tools, libraries and documentation



Utilize the powerful INTEOX hardware platform that supports neural network based analytics (Artificial Intelligence)



Get a head-start by making smart use of customer-specific (meta) data generated by INTEOX cameras

### Solutions build on INTEOX:



Are built to last



Offer outstanding performance



Deliver highest level of data security and privacy protection



Are easy to install, manage and use

# AUTODOME inteox cameras

## Locate, track and zoom into an exciting new world of possibilities



**AUTODOME inteox 7000i**

Models with Traffic Detector based on deep neural networks available

Add software apps afterwards securely

### Specifications:

	←	H.265	30x	1080p	fps	dB	starlight	Bosch certified sw	3rd party apps *	🧠
AUTODOME inteox 7000i	●	●	●	●	30fps	120dB	●	●	●	Intelligent Video Analytics
AUTODOME inteox 7000i OC	●	●	●	●	30fps	120dB	●	Traffic Detector	●	Intelligent Video Analytics

\* Available via Safety & Security Things app store.

### Housing:



High impacts  
**IK10**



Withstands challenging weather conditions  
**IP66** **NEMA-4X**

### Built-in Artificial Intelligence with Intelligent Video Analytics:



Intelligent tracking



Video Analytics while moving



Reliable alerts, even in extreme weather conditions



Video Analytics extremely resistant against shaking



Video content analysis over large distances

### Use Intelligent Video Analytics to build your own software applications:



Analyze valuable data, use it in a wide variety



Build applications by using 16 built-in Video Analytics algorithms



Build applications with Camera Trainer technology

# MIC inteox cameras

## Taking a new world of exciting possibilities to the extremes



**MIC inteox 7100i**

Models with Traffic Detector based on deep neural networks available

Add software apps afterwards securely



Model	Resolution	Range	dB	30x	12x	starlight	industrial	SD	window defroster	Bosch certified sw	3rd party apps	AI
MIC inteox 7100i (basic) <b>1080p</b>		550m	120dB	●		●					●	Intelligent Video Analytics
MIC inteox 7100i (enhanced) <b>1080p</b>		550m	120dB	●		●	●	●			●	Intelligent Video Analytics
MIC inteox 7100i (enhanced) <b>4K UHD</b>		300m			●		●	●			●	Intelligent Video Analytics
MIC inteox 7100i OC <b>1080p</b>		550m	120dB	●		●	●	●		Traffic Detector	●	Intelligent Video Analytics
MIC inteox 7100i OC <b>4K UHD</b>		300m			●		●	●		Traffic Detector	●	Intelligent Video Analytics

\* Available via Safety & Security Things app store.

### Built-in Artificial Intelligence with Intelligent Video Analytics:



- Intelligent tracking
- Video Analytics while moving
- Reliable alerts, even in extreme weather conditions
- Video Analytics extremely resistant against shaking
- Video content analysis over large distances

### Use Intelligent Video Analytics to build your own software applications:



- Analyze valuable data, use it in a wide variety
- Build applications by using 16 built-in Video Analytics algorithms
- Build applications with Camera Trainer technology

### Extremely robust:



- High impacts (IK10, IEC 62262)
- Shock and vibration resistant (IEC 60068, MIL-STD-167-1A)
- Withstands challenging weather conditions (IP68, UL Type 6P, CORROSION PROOF ISO 12944-6: C5-M (High), NEMA-TS2, MIL-STD-810G)

# FLEXIDOME and DINION inteox cameras

## Unlimited starts here



**FLEXIDOME inteox 7100i IR**

**DINION inteox 7100i IR**

Models with Traffic Detector based on deep neural network available (OC)

Add software apps afterwards securely

### Specifications:

FLEXIDOME inteox 7100i IR	●	●	40m	●	30fps	85dB	●	●	Intelligent Video Analytics
DINION inteox 7100i IR	●	●	40m	●	30fps	85dB	●	●	Intelligent Video Analytics
FLEXIDOME inteox 7100i OC	●	●	40m	●	30fps	85dB	Traffic Detector	●	Intelligent Video Analytics
DINION inteox 7100i IR OC	●	●	40m	●	30fps	85dB	Traffic Detector	●	Intelligent Video Analytics

\* Available via Safety & Security Things app store.

### Built-in Artificial Intelligence with Intelligent Video Analytics:



Reliable alerts, even in extreme weather conditions



Video Analytics extremely resistant against shaking



Video content analysis over large distances

### Use Intelligent Video Analytics to build your own software applications:



Analyze valuable data, use it in a wide variety



Build applications by using 16 built-in Video Analytics algorithms



Build applications with Camera Trainer technology

### Housing:



High impacts **IK10**



Withstands challenging weather conditions **IP66** **NEMA-4X**  
-40°C to +55°C


























# Fixed cameras

## Indoor

### Essential Video Analytics

### Intelligent Video Analytics






































<p><b>FLEXIDOME IP micro 3000i</b></p>  <p><b>NDV-3503-Fxx</b> Up to 5MP</p>	<p><b>FLEXIDOME IP turret 3000i IR</b></p>  <p><b>NTV-350x-FxxL</b> Up to 5MP</p>	<p><b>FLEXIDOME IP 4000i</b></p>  <p><b>NDI-4502-A</b> 30 fps@1080p</p>	<p><b>FLEXIDOME IP 4000i IR</b></p>  <p><b>NDI-4502-AL</b> 30 fps@1080p, IR</p>	<p><b>DINION IP starlight 7000 HD</b></p>  <p><b>NBN-73013-BA</b> 60 fps@720p, starlight</p>	<p><b>DINION IP starlight 7000 HD</b></p>  <p><b>NBN-73023-BA</b> 60 fps@1080p, starlight</p>	<p><b>DINION IP starlight 8000 MP</b></p>  <p><b>NBN-80052-BA</b> 30 fps@5MP, starlight</p>	<p><b>DINION IP ultra 8000 MP</b></p>  <p><b>NBN-80122-CA</b> 30 fps@UHD</p>
<p><b>FLEXIDOME IP 5000i</b></p>  <p><b>NDI-5503-A</b> 30 fps@5MP</p>	<p><b>FLEXIDOME IP 5000i IR</b></p>  <p><b>NDI-5503-AL</b> 30 fps@5MP, IR</p>	<p><b>FLEXIDOME IP starlight 5000i</b></p>  <p><b>NDI-5502-A</b> 60 fps@1080p</p>	<p><b>FLEXIDOME IP starlight 5000i IR</b></p>  <p><b>NDI-5502-AL</b> 60 fps@1080p</p>	<p><b>FLEXIDOME IP panoramic 7000 IC</b></p>  <p><b>NFN-70122-Fx(A)</b> 30 fps@12MP, in-ceiling</p>	<p><b>FLEXIDOME IP panoramic 7000 MP</b></p>  <p><b>NIN-70122-Fx(A)</b> 30 fps@12MP</p>	<p><b>FLEXIDOME panoramic 5100i</b></p>  <p><b>NDS-5703-F360</b> 30 fps@6MP</p>	<p><b>FLEXIDOME panoramic 5100i</b></p>  <p><b>NDS-5704-F360</b> 30 fps@12MP</p>
<p><b>DINION IP starlight 6000 HD</b></p>  <p><b>NBN-63013-B</b> 60 fps@720p, starlight</p>	<p><b>DINION IP starlight 6000 HD</b></p>  <p><b>NBN-63023-B</b> 60 fps@1080p, starlight</p>			<p><b>FLEXIDOME IP indoor 8000i</b></p>  <p><b>NDV-8502-R</b> 1080p, HDR</p>	<p><b>FLEXIDOME IP indoor 8000i</b></p>  <p><b>NDV-8503-R</b> 6MP, HDR</p>	<p><b>FLEXIDOME IP indoor 8000i</b></p>  <p><b>NDV-8504-R</b> 4K UHD, HDR</p>	<p><b>FLEXIDOME IP indoor 8000i</b></p>  <p><b>NDV-8502-RX</b> 1080p, starlight X, HDR X</p>
				<p><b>FLEXIDOME IP indoor 8000i</b></p>  <p><b>NDV-8503-RX</b> 4.1MP, starlight X, HDR X</p>			

# Fixed cameras

## Outdoor

### Essential Video Analytics

### Intelligent Video Analytics

<p><b>FLEXIDOME IP turret 3000i (outdoor)</b></p>  <p><b>NTE-3503-Fxx</b> Up to 5MP</p>	<p><b>FLEXIDOME IP micro 3000i (outdoor)</b></p>  <p><b>NDE-3503-Fxx</b> Up to 5MP</p>	<p><b>FLEXIDOME IP 3000i IR</b></p>  <p><b>NDE-3503-AL</b> Up to 5MP</p>	<p><b>DINION IP 3000i IR</b></p>  <p><b>NBE-3503-AL</b> Up to 5MP</p>	<p><b>FLEXIDOME IP starlight 7000 VR</b></p>  <p><b>NIN-73013-Axxx</b> 60 fps@720p, starlight</p>	<p><b>FLEXIDOME IP starlight 7000 VR</b></p>  <p><b>NIN-73023-Axxx</b> 60 fps@1080p, starlight</p>	<p><b>DINION IP thermal 8000</b></p>  <p><b>NHT-8001-F</b> VGA</p>	<p><b>DINION IP thermal 8000</b></p>  <p><b>NHT-8000-F</b> QVGA</p>	<p><b>FLEXIDOME IP starlight 8000i</b></p>  <p><b>NDE-8502-R(T)</b> 1080p, starlight, HDR</p>	<p><b>FLEXIDOME IP starlight 8000i</b></p>  <p><b>NDE-8503-R(T)</b> 6MP, starlight, HDR</p>	
<p><b>FLEXIDOME IP panoramic 6000 (outdoor)</b></p>  <p><b>NDS-6004-FxxxE</b> 30 fps@12MP</p>	<p><b>FLEXIDOME IP 4000i</b></p>  <p><b>NDE-4502-A</b> 30 fps@1080p</p>	<p><b>FLEXIDOME IP 4000i IR</b></p>  <p><b>NDE-4502-AL</b> 30 fps@1080p, IR</p>	<p><b>FLEXIDOME IP 5000i</b></p>  <p><b>NDE-5503-A</b> 30 fps@5MP</p>	<p><b>FLEXIDOME IP starlight 8000i</b></p>  <p><b>NDE-8504-R(T)</b> 4K UHD, starlight, HDR</p>	<p><b>FLEXIDOME IP starlight 8000i</b></p>  <p><b>NDE-8502-RX(T)</b> 1080p HDR X, starlight X</p>	<p><b>FLEXIDOME IP starlight 8000i</b></p>  <p><b>NDE-8503-RX(T)</b> 4MP HDR X, starlight X</p>	<p><b>DINION IP imager 9000 HD</b></p>  <p><b>NAI-90022-AAA</b> 30 fps@1080p</p>	<p><b>FLEXIDOME IP panoramic 7000 (outdoor)</b></p>  <p><b>NDS-7004-FxxxE</b> 30 fps@12MP</p>	<p><b>FLEXIDOME IP panoramic 5100i IR</b></p>  <p><b>NDS-5703-F360LE</b> 30 fps@6MP</p>	
<p><b>FLEXIDOME IP 5000i IR</b></p>  <p><b>NDE-5503-AL</b> 30 fps@5MP, IR</p>	<p><b>FLEXIDOME IP starlight 5000i</b></p>  <p><b>NDE-5502-A</b> 60 fps@1080p</p>	<p><b>FLEXIDOME IP starlight 5000i IR</b></p>  <p><b>NDE-5502-AL</b> 60 fps@1080p, IR</p>	<p><b>DINION IP 4000i IR</b></p>  <p><b>NBE-4502-AL</b> 30 fps@1080p</p>	<p><b>FLEXIDOME panoramic 5100i IR</b></p>  <p><b>NDS-5704-F360LE</b> 30 fps@12MP</p>	<p><b>FLEXIDOME multi 7000i</b></p>  <p><b>NDM-7702-A</b> 30 fps@4x 3MP</p>	<p><b>FLEXIDOME multi 7000i</b></p>  <p><b>NDM-7703-A</b> 30 fps@4x 5MP</p>	<p><b>FLEXIDOME multi 7000i IR</b></p>  <p><b>NDM-7702-AL</b> 30 fps@4x 3MP</p>	<p><b>FLEXIDOME multi 7000i IR</b></p>  <p><b>NDM-7703-AL</b> 30 fps@4x 5MP</p>	<p><b>FLEXIDOME intex 7100i IR</b></p>  <p><b>NDE-7604-AL</b> 8MP</p>	
<p><b>DINION IP 5000i IR</b></p>  <p><b>NBE-5503-AL</b> 30 fps@5MP</p>	<p><b>DINION IP starlight 6000i IR</b></p>  <p><b>NBE-6502-AL</b> 60 fps@1080p, starlight</p>	<p><b>FLEXIDOME IP starlight 6000 VR</b></p>  <p><b>NIN-63013-Axxx</b> 60 fps@720p</p>	<p><b>FLEXIDOME IP starlight 6000 VR</b></p>  <p><b>NIN-63023-Axxx</b> 60 fps@1080p, starlight</p>	<p><b>FLEXIDOME intex 7100i IR</b></p>  <p><b>NDE-7604-AL-OC</b> 8MP, Traffic Detector</p>	<p><b>DINION intex 7100i IR</b></p>  <p><b>NBE-7604-AL</b> 8MP</p>	<p><b>DINION intex 7100i IR</b></p>  <p><b>NBE-7604-AL-OC</b> 8MP, Traffic Detector</p>				

# 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 micro 5000

► FLEXIDOME IP 3000i IR

■ Available – Not available

▶ = indication of main differentiator(s)



Commercial Type Number		NDE-3502-Fxx	NDE-3503-Fxx	NUC-51022-FX	NUC-51051-FX	NDE-3502-AL	NDE-3503-AL
Video analytics at the edge	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	■/■/4 streams	■/■/4 streams
Basic features	Maximum resolution ▶	HD 1080p	5MP	HD 1080p	5MP	HD 1080p	5MP
	Image sensor type ▶	1/2.8" CMOS	1/2.9" CMOS	1/2.7"	1/3"	1/2.8" CMOS	1/2.9" CMOS
	Max. frames per second (fps) ▶	30 fps@1080p	20 fps@5.3MP 25 fps@4.1MP	30 fps@1080p	12 fps@5MP	30 fps@1080p	20 fps@5.3MP 25 fps@4.1MP
	Indoor / outdoor ▶	■/■	■/■	■/■	■/■	-/■	-/■
	Day / night ▶	■ (electronic)	■ (electronic)	■ (electronic)	■ (electronic)	■	■
	Wide Dynamic Range (WDR) ▶	120dB	120dB	76dB	65dB	120dB	120dB
	ONVIF conformant	■	■	■	■	■	■
Advanced features	Built-in microphone ▶	■	■	-	-	-	-
	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	0.4 lux (F4) 1 lux (F2)	0.8 lux (F4) 2 lux (F2)	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) 2.8 mm (F03)	2.3 mm (F02) 2.8 mm (F03)	3.6 mm (F4) 2.5 mm (F2)	3.6 mm (F4) 2.5 mm (F2)	3.2 - 10 mm	3.2 - 10 mm
	Horizontal Angle of View (HAoV) ▶	132° (F02) 118° (F03)	118° (F02) 94° (F03)	97° (F4) 135° (F2)	69° (F4) 105° (F2)	33° - 104°	30° - 89°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard) ▶	17/7/3/2 (F02) 28/11/6/3 (F03)	37/15/7/4 (F02) 57/23/11/6 (F03)	34/13/7/3 (F4) 16/6/3/2 (F2)	69/27/14/7 (F4) 40/16/8/4 (F2)	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	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	IP66	IP66
	Vandal resistant ▶	IK10	IK10	IK08	IK08	IK10	IK10
	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)	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)
Power input voltage	Power over Ethernet / 12V / 24V ▶	■/■/-	■/■/-	■/-/-	■/-/-	■/■/-	■/■/-

## IP Video

### Dome Cameras

▶ FLEXIDOME IP 4000i

▶ FLEXIDOME IP 4000i

▶ FLEXIDOME IP 4000i IR

▶ FLEXIDOME IP 4000i IR



Indoor



Outdoor



Indoor



Outdoor

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NDI-4502-A	NDE-4502-A	NDI-4502-AL	NDE-4502-AL	
Video analytics at the edge	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	HD 1080p	HD 1080p	HD 1080p	HD 1080p	
	Image sensor type	1/2.9"	1/2.9"	1/2.9"	1/2.9"	
	Max. frames per second (fps)	30 fps@1080p	30 fps@1080p	30 fps@1080p	30 fps@1080p	
	Indoor / outdoor	▶ ■/-	■/■	■/-	■/■	
	Day / night	■	■	■	■	
	Wide Dynamic Range (WDR)	90dB	90dB	90dB	90dB	
	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)	0.1 lux	0.1 lux	0.1 lux	0.1 lux	
	Minimum illumination night mode (black / white)	▶ 0.02 lux	0.02 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 - 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 (-22° to 122° F)	-20° to 50° C (-4° to 122° F)	-40° to 50° C (-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 at the edge	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	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 (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, 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 (-22° to 122° F)	-20° to 50° C (-4° to 122° F)	-40° to 50° C (-22° 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 at the edge	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	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 (HAAoV)	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 (-22° to 122° F)	-20° to 50° C (-4° to 122° F)	-40° to 50° C (-22° to 122° F)
Power input voltage	Power over Ethernet / 12V / 24V	■/■/■	■/■/■	■/■/■	■/■/■

## IP Video

### Dome Cameras

► FLEXIDOME IP starlight 6000 VR

► FLEXIDOME IP starlight 7000 VR

► FLEXIDOME IP starlight 6000 VR

► FLEXIDOME IP starlight 7000 VR



720p



720p



1080p



1080p

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NIN-63013-Axxx	NIN-73013-Axxx	NIN-63023-Axxx	NIN-73023-Axxx	
Video analytics at the edge	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	1.3MP / 1080p	
	Image sensor type		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		■/■	■/■	■/■	■/■
	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)	▶	0.0104 lux	0.0104 lux (A3xx) 0.0179 lux (A10xx)	0.0104 lux (A3xx) 0.0179 lux (A10xx)	
	Minimum illumination night mode (black / white)	▶	0.0039 lux	0.0039 lux (A3xx) 0.0066 (A10x)	0.0039 lux (A3xx) 0.0066 (A10x)	
	Night vision		■ (starlight)	■ (starlight)	■ (starlight)	■ (starlight)
	Max. range at night		–	–	–	–
Lens	Automatic varifocal		■	■	■	
	Focal length	▶	3 - 9 mm (A3xx)	3 - 9 mm (A3xx) 10 - 23 mm (A10xx)	3 - 9 mm (A3xx) 10 - 23 mm (A10xx)	
	Horizontal Angle of View (HAoV)	▶	37° - 117° (A3xx)	37° - 117° (A3xx) 14.4° - 32° (A10xx)	37° - 117° (A3xx) 14.4° - 32° (A10xx)	
DORI distances	Detect / Observe / Recognize / Identify (Distances in according to EN-IEC 62676-4 standard)	▶	16-77/6-30/3-15/2-8 (A3xx)	16-77/6-30/3-15/2-8 (A3xx) 89-203/35-80/18-41/9-20 (A10xx)	24-115/9-46/5-23/2-12 (A3xx) 134-304/53-121/27-61/13-30 (A10xx)	
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		■/■	■/■	■/■	
	Hybrid / public view monitor		■/■	■/■	■/■	
Housing	Weather rating		IP66 and NEMA type 4X	IP66 and NEMA type 4X	IP66 and NEMA type 4X	
	Vandal resistant		IK10	IK10	IK10	
	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		■/■/–	■/■/–	■/■/–	

## IP Video

### Dome Cameras

#### ► FLEXIDOME inteoX 7100i IR

#### ► FLEXIDOME inteoX 7100i IR



Traffic  
Detector



■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NDE-7604-AL-OC	NDE-7604-AL	
Video analytics at the edge	Essential 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) Tele: 46° x 30° (H x V)	Wide: 97° x 53° (H x V) Tele: 46° x 30° (H x V)	
DORI distances	Detect / Observe / Recognize / Identify (m) (Distances in according to EN-IEC 62676-4 standard)	68-181/27-72/14-36/7-18 212-565/89-238/45-119/22-60	68-181/27-72/14-36/7-18 212-565/89-238/45-119/22-60	
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

### Dome Cameras

#### ► FLEXIDOME IP starlight 8000i



1080p



6MP



4K UHD

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NDE-8502-R(T)	NDE-8503-R(T)	NDE-8504-R(T)
Remote commissioning	Motorized Pan / Tilt / Roll / Zoom (PTRZ)	■	■	■
Video analytics at the edge	Essential Video Analytics	-	-	-
	Intelligent Video Analytics + Camera Trainer	■	■	■
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 (HAoV)	▶ 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) (Distances according to EN-IEC 62676-4 standard)	▶ 24-115/9-46/5-23/2-12 134-304/53-121/27-61/13-30	40-162/16-64/8-32/4-16 201-591/80-235/40-118/20-59	47-190/195-75/9-38/5-19 236-696/94-276/47-139/24-70
		Industrial SD card support with health monitoring	■ (2 slots)	■ (2 slots)
Storage	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
	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 (-58° to +140° F)	-50° to +60° C (-58° to +140° F)	-50° to +60° C (-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-8502-RX(T)	NDE-8503-RX(T)
Remote commissioning	Motorized Pan / Tilt / Roll / Zoom (PTRZ)	■	■
Video analytics at the edge	Essential Video Analytics	-	-
	Intelligent Video Analytics + Camera Trainer	■	■
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 (HAoV)	110° - 48° (R) / 36.8° - 12.8° (RT)	110° - 48° (R) / 36.8° - 12.8° (RT)
DORI distances	Detect / Observe / Recognize / Identify (m) (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 (-58° to +140° F)	-50° to +60° C (-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
Remote commissioning	Motorized Pan / Tilt / Roll / Zoom (PTRZ)	■	■	■
Video analytics at the edge	Essential Video Analytics	-	-	-
	Intelligent Video Analytics + Camera Trainer	■	■	■
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 (HAAoV)	▶ 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	■	■	■
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
Remote commissioning	Motorized Pan / Tilt / Roll / Zoom (PTRZ)	■	■
Video analytics at the edge	Essential Video Analytics	-	-
	Intelligent Video Analytics + Camera Trainer	■	■
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) (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 (-4° to +131° F)	-20° to +55° C (-4° to +131° F)
Power input voltage	Power over Ethernet / 12V / 24V	■	■
Accessories	Modular mount compatible	■	■

## IP Video

### Dome Cameras

► FLEXIDOME IP panoramic 5000 MP



indoor

► FLEXIDOME IP panoramic 5000 MP



outdoor

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NUC-52051-F0	NUC-52051-F0E
Video analytics at the edge	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
Basic features	Maximum resolution	5MP	5MP
	Image sensor type	1/3"	1/3"
	Max. frames per second (fps)	15 fps	15 fps
	Indoor / outdoor	■/-	■/■
	Day / night	■ (electronic)	■ (electronic)
	Wide Dynamic Range (WDR)	81dB	81dB
	ONVIF conformant	■	■
	Built-in microphone	■	-
	Advanced features	Intelligent Auto Exposure / Intelligent Defog	-/■
Alarm triggering	Edge dewarping	-	-
	Privacy masking	■	■
	Region Of Interest tracking	-	-
	Tamper detection / Video motion detection	■/■	■/■
Sensitivity	Built-in video analytics	-	-
	Audio detection	■	-
	PTZ Intelligent Tracking	-	-
	Minimum illumination day mode (color)	0.36 lux	0.36 lux
Lens	Minimum illumination night mode (black / white)	0.12 lux	0.12 lux
	Night vision	-	-
	Max. range at night	-	-
	Focal length	1.19 mm	1.19 mm
DORI distances	Horizontal Angle of View (HAoV)	360°	360°
	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)	19/7/4/1	19/7/4/1
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
Connections	Alarm input / output	-	-
	Audio in / out	-	-
	Hybrid / public view monitor	-	-
Housing	Weather rating	-	IP66
	Vandal resistant	▶ IK4	IK10
	Operating temperature	▶ -20° to +50° C (-4° to 104° F)	-30° to +50° C (-22° to 122° F)
Power input voltage	Power over Ethernet / 12V / 24V	■/■/-	■/■/-



## 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 at the edge	Essential 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		future support	future support	future support	future support
Privacy masking		■	■	■	■
Region Of Interest tracking		future support	future support	future support	future support
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
	Horizontal Angle of View (HAoV)	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 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
	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 IP panoramic 7000 MP

►FLEXIDOME IP panoramic 7000 IC

►FLEXIDOME IP panoramic 7000



indoor



in ceiling



outdoor

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NIN-70122-Fx(A)	NFN-70122-Fx(A)	NDS-6004-FxxxE / NDS-7004-FxxxE	
Video analytics at the edge	Essential Video Analytics ▶	■ (depending on model)	■ 6000 model	■ 6000 model	
	Intelligent Video Analytics ▶	■ (depending on model)	■ 7000 model	■ 7000 model	
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	12MP	12MP	12MP	
	Image sensor type	1/2.3"	1/2.3"	1/2.3"	
	Max. frames per second (fps)	30 fps	30 fps	30 fps	
	Indoor / outdoor ▶	■/-	■/-	■/■	
	Day / night	■	■	■	
	Wide Dynamic Range (WDR)	92dB (with IAE + 16dB)	92dB (with IAE + 16dB)	92dB (with IAE + 16dB)	
	ONVIF conformant	■	■	■	
	Built-in microphone ▶	■	-	-	
	Advanced features	Intelligent Auto Exposure / Intelligent Defog	■ (customized region)/■	■ (customized region)/■	■ (customized region)/■
		Edge dewarping	■	■	■
Privacy masking		■	■	■	
Region Of Interest tracking		■	■	■	
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	
	Built-in video analytics	■	■	■	
	Audio detection ▶	■	-	-	
	PTZ Intelligent Tracking	■	■	■	
Sensitivity	Minimum illumination day mode (color)	0.46 lux (F1)	0.46 lux (F1)	0.46 lux (180° lens)	
		0.55 lux (F0)	0.55 lux (F0)	0.55 lux (360° lens)	
	Minimum illumination night mode (black / white)	0.15 lux (F1)	0.15 lux (F1)	0.15 lux (180° lens)	
		0.18 lux (F0)	0.18 lux (F0)	0.18 lux (360° lens)	
Night vision	-	-	-		
Max. range at night	-	-	-		
Lens	Focal length ▶	2.1 mm (F1)	2.1 mm (F1)	2.1 mm (180° lens)	
		1.6 mm (F0)	1.6 mm (F0)	1.6 mm (360° lens)	
Horizontal Angle of View (HAoV) ▶	180° (F1)	180° (F1)	180° (180° lens)		
	360° (F0)	360° (F0)	360° (360° lens)		
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)	19/12/6.5/3.5 (F1)	19/12/6.5/3.5 (F1)	19/12/6.5/3.5 (180° lens)	
		19/8.5/4.5/2 (F0)	19/8.5/4.5/2 (F0)	19/8.5/4.5/2 (360° lens)	
Storage	Industrial SD card support with health monitoring	■	■	■	
	Cloud application storage	Auto or Alarm JPEG Posting, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	
Connections	Alarm input / output	-	-	-	
	Audio in / out	-	-	-	
	Hybrid / public view monitor	-	-	-	
Housing	Weather rating ▶	-	-	IP66	
	Vandal resistant	IK6	IK6	IK10	
	Operating temperature ▶	-20° to +40° C (-4° to 104° F)	-20° to +40° C (-4° to 104° F)	-30° to +45° C (-22° to 113° F)	
Power input voltage	Power over Ethernet / 12V / 24V	■/-/-	■/-/-	■/-/-	

## 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
Remote commissioning	USB-C port for wireless dongle	■	■	■	■
Video analytics at the edge	Essential Video Analytics	–	–	–	–
	Intelligent Video Analytics + Camera Trainer	■	■	■	■
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
	Edge dewarping	N/A	N/A	N/A	N/A
	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	■	■	■	■
	PTZ Intelligent Tracking	N/A	N/A	N/A	N/A
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 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 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 5000 HD

### ►DINION IP 5000 MP



1080p



5MP

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NBN-50022-xxx	NBN-50051-xxx
Video analytics at the edge	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
Basic features	Maximum resolution ▶	HD 1080p	5MP
	Image sensor type ▶	1/2.7"	1/3"
	Max. frames per second (fps) ▶	30 fps@1080p	12 fps@5MP
	Indoor / outdoor	■/■ (with housing)	■/■ (with housing)
	Day / night	■	■
	Wide Dynamic Range (WDR) ▶	76dB	81dB
	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) ▶	0.25 lux	0.35 lux
	Minimum illumination night mode (black / white)	0.05 lux	0.05 lux
	Night vision	-	-
	Max. range at night	-	-
Lens	Automatic Back Focus (ABF)	-	-
	Automatic varifocal	-	-
	Focal length	3.3 - 12 mm (V3)/CS mount	3.3 - 12 mm (V3)/CS mount
	Horizontal Angle of View (HAoV) ▶	34° - 110° (V3)	25° - 82° (V3)
	DORI distances ▶	27-125/11-50/5-25/3-13 (V3)	60-234/24-93/12-47/6-23 (V3)
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
Connections	Alarm input / output	1/1	1/1
	Audio in / out	■/■	■/■
	Hybrid / public view monitor	■/■	■/■
Housing	Weather rating	-	-
	Vandal resistant	-	-
	Operating temperature	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)
Power input voltage	Power over Ethernet / 12V / 24V	■/■/-	■/■/-

## 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 at the edge	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	■/■/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 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 (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, 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	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



Traffic  
Detector



■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NBE-7604-AL-OC	NBE-7604-AL
Video analytics at the edge	Essential 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)	Wide: 97° x 53° (H x V)
		Tele: 46° x 30° (H x V)	Tele: 46° x 30° (H x V)
DORI distances	Detect / Observe / Recognize / Identify (m) (Distances according to EN-IEC 62676-4 standard)	68-181/27-72/14-36/7-18	68-181/27-72/14-36/7-18
		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 at the edge	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 C/CS mount 1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	Lenses available separately C/CS mount 1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	Lenses available separately C/CS mount 1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	Lenses available separately C/CS mount 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 (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, 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	
	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 at the edge	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
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) 0.0083 lux (1080p)	0.11 lux
	Minimum illumination night mode (black / white)	▶ 0.004 lux (5 MP) 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 4.1-9 mm/12.5-50 mm	C/CS mount - 35 mm/50 mm/75 mm fixed iris 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 (Distances according to EN-IEC 62676-4 standard)	depending on optional lens	depending on optional lens
	Storage	Industrial SD card support with health monitoring	■
Connections	Cloud application storage	Auto or Alarm JPEG Posting, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting
	Alarm input / output	2/1	2/1
	Audio in / out	■/■	■/■
Housing	Hybrid / public view monitor	■/■	■/■
	Weather rating	-	-
	Vandal resistant	-	-
Power input voltage	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)
	Power over Ethernet / 12V / 24V	■/■/-	■/■/-

\*\* Lens not included



## IP Video Specialty Cameras

►DINION IP imager 9000 HD

►FLEXIDOME IP corner 9000 MP



■ Available – Not available

Commercial Type Number		NAI-90022-AAA	NCN-90022-F1	
Video analytics at the edge	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	
Basic features	Maximum resolution	HD 1080p	1080p	
	Image sensor type	1/2.7"	1/2.7"	
	Max. frames per second (fps)	30 fps@1080p	30 fps@1080p	
	Indoor / outdoor	-/■	■/-	
	Day / night	■	■	
	Wide Dynamic Range (WDR)	76dB (with IAE +16dB)	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)	0.4 lux	0.3 lux	
	Minimum illumination night mode (black / white)	0 lux (IR on)	0 lux (IR on)	
	Night vision	■ (infrared)	■ (infrared)	
	Max. range at night	120 m (394 ft)	9 m (30 ft)	
Lens	Automatic Back Focus (ABF)	■	-	
	Automatic varifocal	■	-	
	Focal length	10 - 23 mm	2 mm	
	Horizontal Angle of View (HAoV)	14.8° - 34°	121°	
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)	126-296/50-117/25-59/13-30	20/8/4/2	
Storage	Industrial SD card support with health monitoring	■	■	
	Cloud application storage	Auto or Alarm JPEG Posting, Best Face Detection 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	■/■	■/■	
	Hybrid / public view monitor	■/■	-/-	
Housing	Weather rating	IP66	IP65	
	Vandal resistant	IK10	IK10	
	Operating temperature	-40° to 50° C (-40° to 122° F)	-10° to 50° C (14° to 122° F)	
Power input voltage	Power over Ethernet / 12V / 24V	■ (HiPoE)/■/■	■/■/■	

## IP Video Specialty Cameras

►DINION IP thermal 8000



QVGA

►DINION IP thermal 8000



VGA

■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NHT-8000-F	NHT-8001-F	
Video analytics at the edge	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	
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 ▶	7.5 mm: 140 m (459 ft) / 35 m (115 ft) / 18 m (59 ft) 19 mm: 380 m (1247 ft) / 95 m (312 ft) / 48 m (157 ft)	9 mm: 155 m (509ft) / 40 m (131 ft) / 20 m (66 ft) 16.7 mm: 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 at the edge	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	■/■/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

4MP

HDR X



20x zoom

4MP

HDR X



IR+Whitelight

4MP

HDR X

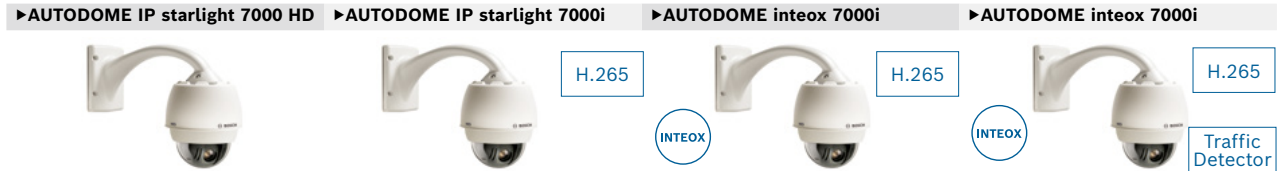
■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		NDP-5523-Z20C	NDP-5523-Z20	NDP-5523-Z30L
Video analytics at the edge	Essential Video Analytics	■	■	■
	Intelligent 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	■	■	■
	Built-in microphone	-	-	-
	Advanced features	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 (HAAoV)	▶ 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



■ Available – Not available

▶ = indication of main differentiator(s)

Commercial Type Number		VG5-7230	NDP-7512-Z30	NDP-7602-Z30x	NDP-7602-Z30x-OC
Video analytics at the edge	Essential 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	■/■/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@720p 30 fps@1080p	60 fps@720p 30 fps@1080p	60 fps@720p 30 fps@1080p	60 fps@720p 30 fps@1080p
	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	■	■	■	■
	Nbr of presets/guard tours	256/2	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	0.0077 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	Focal length	4.3 - 129 mm	4.3 - 129 mm	4.3 - 129 mm	4.3 - 129 mm
	Horizontal Angle of View (HAoV)	2.3° to 63.7°	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	30x/12x
	Tilt angle	-90° to 14° (pendant)	-90° to 14° (pendant)	-90° to 14° (pendant)	-90° to 14° (pendant)
DORI distances	Detect / Observe / Recognize / Identify ▶ (Distances according to EN-IEC 62676-4 standard)	62-1913/25-759/12-383/6-191	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, 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	7/4	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)	IP66 (pendant)/IP54 (in-ceiling)
	Vandal resistant	IK10 (with rugged bubble)	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)	-40° to 55° C (-40° to 131° F)
Power input voltage	Power over Ethernet / 12V / 24Vac	■ (HiPoE)/–/■ (pendant) ■ (PoE+)/–/■ (in-ceiling)	■ (HiPoE)/–/■ (pendant) ■ (PoE+)/–/■ (in-ceiling)	■ (HiPoE)/–/■ (pendant) ■ (PoE+)/–/■ (in-ceiling)	■ (HiPoE)/–/■ (pendant) ■ (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 at the edge	Essential 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)
Advanced features	Indoor / outdoor	-/■	-/■	-/■	-/■
	Day / night	■	■	■	■ (optical)
	Wide Dynamic Range (WDR)	► 120dB	120dB	62dB	120dB
	ONVIF conformant	■	■	■	■
	Intelligent Auto Exposure / Intelligent Defog	-/■	-/■	-/■	-/■
	Privacy masking	■	■	■	■
Alarm triggering	Nbr of presets/guard tours	256/2	256/2	265/2	256/2
	Wiper / Built in window defroster	► ■/-	■/■	■/■	■
	Intelligent Tracking	■	■	■	■
	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
Sensitivity	Built-in video analytics	■	■	■	■
	Audio detection	■	■	■	■
	PTZ Intelligent Tracking	■	■	■	■
	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), 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/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)	■ (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	► ■	■	■	■/■
Housing	Hybrid / public view monitor	► ■ (with external decoder)/-	■ (with external decoder)/-	■ (with external decoder)/-	-
	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	► ■ (PoE+)/-/■	■ (PoE+)/-/■	■ (PoE+)/-/■	■ (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 at the edge	Essential 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 (HAoV) ▶	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), -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)	-55° to +90° (upright), -95° to +55° (inverted), -80° to +65° (canted)
DORI distances	Detect / Observe / Recognize / Identify ▶	wide 69-226/27-89/ 14-46/7-23	wide 69-226/27-89/ 14-46/7-23	wide 69-226/27-89/ 14-46/7-23	wide 108-355/43-142/ 22-71/11-36	wide 108-355/43-142/ 22-71/11-36
	(Distances according to EN-IEC 62676-4 standard)	tele 2895-6873/834-2726/ 419-1375/210-689	tele 2895-6873/834-2726/ 419-1375/210-689	tele 2895-6873/834-2726/ 419-1375/210-689	tele 154-504/61-202/ 31-101/15-50	tele 154-504/61-202/ 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, 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	-	-	-	-	-
	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 (-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)	-40° to +65° C (-40° to +149° F)
Power input voltage	Power over Ethernet / 12V / 24Vac	■ (PoE+)/-/■	■ (PoE+)/-/■	■ (PoE+)/-/■	■ (PoE+)/-/■	■ (PoE+)/-/■

## IP Video Digital Recording

### All-in-one solution

#### ►DIVAR IP all-in-one 5000

#### ►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-524xxx-xxx	DIP-738x-xxx	DIP-73Gx-xxx
Basic functions	Max. system size (channels)	▶ 42	256	256
	Integrated video management	■	■	■
	RAID Level	▶ –	RAID-5, RAID-6	RAID-5, RAID-6
	Operating system drive	▶ 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
	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
	Transcoding	■	■	■
	ONVIF	■	■	■
Mechanical	Form factor	▶ 4-bay Mini-Tower	2U 19-inch Rack Mount	3U 19-inch Rack Mount
	Network connections (LAN)	▶ 2x Gigabit Ethernet	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)
	USB ports	▶ 4x USB	2x USB2.0, 3x USB3.1, 1x USB-C	2x USB2.0, 3x USB3.1, 1x USB-C
	Number of power supplies	▶ 1	2	2
	Power supplies hot swappable	▶ –	■	■
Video output	Connector type	▶ 1 HDMI2.0, 1 DP, 1 DVI-D (GPU models: 4x mini-DP)	2x DP, 1x DVI	2x DP, 1x DVI
	Monitor output	▶ 3 (GPU-models: 4)	3	3
Audio	In / out channels	▶ 42	128	128
	Compression type	G.726	G.726	G.726
	Synchronous audio	■	■	■
	Associate multiple cameras to 1 Audio	■	■	■
Recording	Video Recording Manager (VRM)	■	■	■
	Schedule recording modes	■	■	■
Storage options	Max. drives supported	▶ 4	8	16
	Available capacities per drive	4, 8 or 12TB	4, 8 or 12TB	4, 8 or 12TB
	Base system capacity TB	▶ 0, 16, 32 or 48TB	0, 32, 64 or 96TB	0, 64, 128 or 192TB
	Max. Base system capacity TB	▶ 48TB	96TB	192TB
	Full system capacity TB	▶ 144TB	864TB	960TB
	Extensible / external support	iSCSI	iSCSI	iSCSI
Storage extensions	Max. number of units	▶ 2x DIVAR IP all-in-one 5000 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	▶ 4	8	16
	Available capacities per drive	▶ 0, 16, 32 or 48TB	4, 8 or 12TB	4, 8 or 12TB
	Hot swappable	▶ –	■	■
Export/back-up of data	Data format	native, MOV, ASF, MP4	native, MOV, ASF, MP4	native, MOV, ASF, MP4
	Built-in DVD writer	▶ –	■	■
	Supported devices	▶ 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



## IP Video Digital Recording

### All-in-one solution

►DIVAR IP all-in-one 5000

►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-524xxx-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
	Network	10/100/1000 Ethernet	10/100/1000 Ethernet	10/100/1000 Ethernet
	Web browser access	■	■	■
Advanced features support	Simultaneous accessible users	4	4	4
	Forensic search support (metadata)	■	■	■
	Webclient	■	■	■
Supported software	Bosch Video Client	–	–	–
	Bosch Video Management System	▶	■ (v9.0 or newer)	■ (v10.1 or newer)
	3rd Party software	–	–	–
3rd 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

##### ► 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/ 2x 10 Gigabit Ethernet
	USB ports	–
	Number of power supplies	2
	Power supplies hot swappable	■
	Video output	Connector type
	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 and 16TB only for 12 bay
	Base system capacity TB	–
	Max. Base system capacity TB	12 bay: 48/96/144/192TB 60 bay: 240/480/720TB
	Full system capacity TB	12 bay: 384/ 768/ 1152/ 1536TB 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 and 16TB only for 12 bay
	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-N6xxxx-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-xxxx00	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 5000	DIVAR IP all-in-one 7000	BVMS Plus	BVMS Professional
System features	Included cameras (max cameras)	▶ 16 (500)	8 (42)	8 (42)	8 (256)	8 (256)	8 (2.000)
	Maximum number of workstations	▶ 1 (1)	2 (5)	2 (5)	5 (10)	5 (10)	5 (100)
	Maximum number of clients	▶ 1	5	5	10	10	100
	Maximum number of BVMS subsystems	▶ –	–	–	0 (20)	0 (20)	0 (100)
	Maximum number of Bosch VRM servers	▶ 32***	2	2	2	2	125
	Maximum storage capacity	▶ n.a.	2 x 4PB	3 x 48 TB	5 x 192 TB	2 x 4PB	125 x 4PB
	Forensic search	▶ ■	■	■	■	■	■
	DVR support	▶ 5 (5)	1 (10)	1 (10)	1 (10)	1 (10)	1 (50)
	Events and alarms	▶ –	■	■	■	■	■
	Streamlining	▶ –	■	■	■	■	■
	GPU decoding	▶ ■	■	■	■	■	■
	Remote access	▶ –	■	■	■	■	■
	Dynamic transcoding	▶ ■	■**	■	■	■**	■**
	Web client	▶ –	■	■	■	■	■
	Bosch Mobile Video Client App support	▶ 1 (1)	1 (1)	1 (1)	1 (4)	1 (4)	1 (5)
	Keyboard support	▶ 1 (1)	2 (5)	2 (5)	5 (10)	5 (10)	5 (100)
	Offline map functionality	▶ –	■	■	■	■	■
	Online map functionality	▶ –	■	■	■	■	■
	Map-based tracking assistant	▶ –	■	■	■	■	■
	Audio support	▶ ■	■	■	■	■	■
	BVMS Config Wizard	▶ –	■	■	■	■	■
Live & Playback sites	▶ 16	–	–	1 (20)	1 (20)	1 (9999)	
Person Identification*	▶ –	0 (42)	0 (42)	0 (256)	0 (256)	0 (2000)	
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)	8 (42)	8 (256)	8 (256)	8 (2000)
Alarm management	Dual Recording	▶ –	8 (42)	8 (42)	8 (256)	8 (256)	8 (2000)
	Logbook	▶ –	■	■	■	■	■
	Events and alarms	▶ –	■	■	■	■	■
	Email notification	▶ –	■	■	■	■	■
	SMS 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 (40)
	Access Management System	▶ –	5 (5)	5 (5)	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 (50)
Software Development Kit (SDK)	▶ –	■	■	■	■	■	

\* subject to regional availability

\*\* additional hardware required

\*\*\* limited

## 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 “Anniversary Update” (64-bit) or higher	
	Software based Video IP Platform	■	■	
	Multi-site Support (independent systems tied together)	-	-	
	Multi-site Support (dispersed system recording, cameras, remote independent client)	-	-	
Key technologies supported	Dynamic Transcoding	■	■	
	Video analytics	■	■	
	Client side dewarping (panoramic)	■	■	
	4K UHD 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 (HDMI, DP via USB-C)
	Video Codec	H.265, H.264, MPEG-4, MPEG-2
	Max. frames per second (fps)	4x 30@UHD* 10x 60@1080p* 18x 60@720p* 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	1253.8 mm	
	Height	►	387.3 mm	428.4 mm	371.8 mm	431.5 mm	568.8 mm	
	Depth	►	219.7 mm	219.7 mm	64.8 mm	71.5 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	
	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	
	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	-	-






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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.

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