



BOSCH

Invented for life

IP Video product overview

September 2020

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Video systems

Rethink video security

At Bosch we are dedicated to innovating security where you need it most. We constantly push the boundaries of technology to develop intelligent solutions that go beyond the highest security demands of today and deliver clear business advantages beyond security. We believe that the logical next-step for security is to enable customers to interpret the data to start repurposing these huge amounts of video data. The ability to interpret video data directly at source helps to substantially improve levels of security, as well as offering clear business advantages.



Utilize the hidden potential

Despite the huge amounts of video data collected, statistics say that only 10% of data is ever used and most of the data collected loses its value within seconds of being generated. Why are we only using such a limited amount of data? We are mainly focused on delivering the right

information in case of an emergency or providing the correct evidence after a criminal act.

We believe that the future is to utilize the hidden potential and use 100% of the video security data. Allowing this data to do far more for businesses than security alone.



Video analytics at the edge

So what about the hidden potential of that unused data? Wouldn't it be great to enable captured video data to do more for businesses than security alone? With built-in video analytics as standard, we enable customers to interpret data directly at the source, to re-assign it to help them make smarter business decisions. Anything from monitoring presence to reduce utility bills, to identifying patterns in customer activity to improve sales by recognizing 'hot spots' in retail environments. Or distinguishing 'road blocks' to optimize shop layout to increase customer satisfaction.

Camera Trainer

We've taken the next step in video security with cameras that incorporate built-in machine learning capabilities. Camera Trainer enables you to tailor built-in Video Analytics to detect the things that matter most to you. The camera retains information on new user-defined objects and situations, or any subsequent changes. It then refers to these new learnings when processing scenes and can be combined with pre-determined alarm rules and object filters for even more accuracy and flexibility.

Areas of expertise

Before we can rethink video security we need to ensure that excellence in video security and data management is given. This is why our intelligent portfolio is built around our areas of expertise. Delivering highest quality of relevant images, most efficient bitrates with

lowest storage requirements and network strain, and keeping video data secure.

Highest image quality

Bosch delivers the highest quality images with technologies such as resolutions up to 4K UHD, starlight technology and excellent dynamic ranges.

Intelligent bitrate management

Bosch helps to reduce bitrate by up to 80% and substantially lower network strain and storage requirements without compromising video quality.

Data security

Bosch video security solutions offer various software and hardware measures, such as a built-in Trusted Platform Module, to keep video data secure.



Fixed cameras

Indoor

Essential Video Analytics

Intelligent Video Analytics

Outdoor

Essential Video Analytics

Intelligent Video Analytics

**FLEXIDOME
IP micro 3000i**



NDV-350x-Fxx
Up to 5MP

**FLEXIDOME
IP turret 3000i IR**



NTV-350x-FxxL
Up to 5MP

**FLEXIDOME
IP 4000i**



NDI-4502-A
30 fps@1080p

**DINION
IP starlight 7000 HD**



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

**DINION
IP starlight 7000 HD**



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

**FLEXIDOME
IP 3000i IR**



NDE-350x-AL
Up to 5MP

**DINION
IP 3000i IR**



NBE-350x-AL
Up to 5MP

**FLEXIDOME IP
panoramic 6000
(outdoor)**



NDS-6004-FxxxE
30 fps@12MP

**FLEXIDOME
IP 4000i**



NDE-4502-A
30 fps@1080p

**FLEXIDOME
IP starlight 7000 VR**



NIN-73013-Axxx
60 fps@720p,
starlight

**FLEXIDOME
IP starlight 7000 VR**



NIN-73023-Axxx
60 fps@1080p,
starlight

**DINION
IP thermal 8000**



NHT-8001-F
VGA

**FLEXIDOME
IP 4000i IR**



NDI-4502-AL
30 fps@1080p, IR

**FLEXIDOME
IP 5000i**



NDI-5503-A
30 fps@5MP

**FLEXIDOME
IP 5000i IR**



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

**DINION
IP starlight 8000 MP**



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

**DINION
IP ultra 8000 MP**



NBN-80122-CA
30 fps@UHD

**FLEXIDOME
IP 4000i IR**



NDE-4502-AL
30 fps@1080p, IR

**FLEXIDOME
IP 5000i**



NDE-5503-A
30 fps@5MP

**FLEXIDOME
IP 5000i IR**



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

**FLEXIDOME
IP starlight 5000i**



NDI-5502-AL
60 fps@1080p

**DINION
IP thermal 8000**



NHT-8000-F
QVGA

**FLEXIDOME
IP starlight 8000i**



NDE-8502-R(T)
1080p, starlight,
134dB

**FLEXIDOME
IP starlight 8000i**



NDE-8503-R(T)
6 MP, starlight,
120dB

**FLEXIDOME
IP starlight 5000i**



NDI-5502-A
60 fps@1080p

**FLEXIDOME
IP starlight 5000i IR**



NDE-5502-A
60 fps@1080p, IR

**DINION
IP starlight 6000 HD**



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

**FLEXIDOME
IP panoramic
7000 IC**



NFN-70122-Fx(A)
30 fps@12MP,
in-ceiling

**FLEXIDOME
IP panoramic
7000 MP**



NIN-70122-Fx(A)
30 fps@12MP

**FLEXIDOME
IP starlight 5000i IR**



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

**DINION
IP 4000i IR**



NBE-4502-AL
30 fps@1080p

**DINION
IP 5000i IR**



NBE-5503-AL
30 fps@5MP

**DINION
IP starlight 6000i IR**



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

**FLEXIDOME
IP starlight 8000i**



NDE-8504-R(T)
4K UHD,
starlight, 120dB

**DINION
IP imager 9000 HD**



NAI-90022-AAA
30 fps@1080p

**FLEXIDOME IP
panoramic 7000
(outdoor)**



NDS-7004-FxxxE
30 fps@12MP

**DINION
IP starlight 6000 HD**



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

**FLEXIDOME
IP starlight 6000 VR**



NIN-63013-Axxx
60 fps@720p

**FLEXIDOME
IP starlight 6000 VR**



NIN-63023-Axxx
60 fps@1080p,
starlight

Moving cameras

Indoor

Essential Video Analytics

**AUTODOME
IP 4000i**



NDP-4502-Z12
60 fps@1080p, Essential
Video Analytics

**AUTODOME
IP 4000i**



NDP-4502-Z12C
in-ceiling, 60 fps@1080p,
12x zoom, Essential
Video Analytics

Intelligent Video Analytics

**AUTODOME
IP starlight 7000i**



NDP-7512-Z30CT
in-ceiling, 60 fps@1080p,
starlight, Intelligent
Video Analytics

Outdoor

Essential Video Analytics

**AUTODOME
IP 5000i**



NDP-5502-Z30
60 fps@1080p, Essential
Video Analytics

**AUTODOME
IP 5000i IR**



NDP-5502-Z30L
60 fps@1080p, IR,
Essential Video Analytics

Intelligent Video Analytics

**AUTODOME
IP starlight 7000i**



NDP-7512-Z30
30 fps@1080p, starlight,
Intelligent Video Analytics

Extreme outdoor

Optical

**MIC
IP starlight 7100i**



MIC-7522-Z32x
60 fps@1080p, starlight,
30x zoom, Intelligent
Video Analytics

**MIC
IP ultra 7100i**



MIC-7504-Z12B
4K UHD, 12x zoom,
Intelligent Video Analytics,
Image stabilization

Optical & Thermal

**MIC
IP fusion 9000i**



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

**AUTODOME
IP 5000i**



NDP-5502-Z30C
in-ceiling, 60 fps@1080p,
30x zoom, Essential
Video Analytics

**AUTODOME
IP starlight 5000i**



NDP-5512-Z30C
in-ceiling, 60 fps@1080p,
120dB, Essential
Video Analytics

**AUTODOME
IP starlight 5000i**



NDP-5512-Z30
60 fps@1080p, starlight,
Essential Video
Analytics

**AUTODOME
IP starlight 5000i IR**



NDP-5512-Z30L
60 fps@1080p, starlight,
IR, Essential Video
Analytics

**AUTODOME
intex 7000i**



NDP-7602-Z30x
30 fps@1080p, starlight,
Intelligent Video
Analytics

**MIC intex
7100i**



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

**MIC intex
7100i**



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

**MIC intex
7100i**



MIC-7604-Z12x
30 fps@UHD, 12x,
Intelligent Video
Analytics

**MIC intex
7100i**



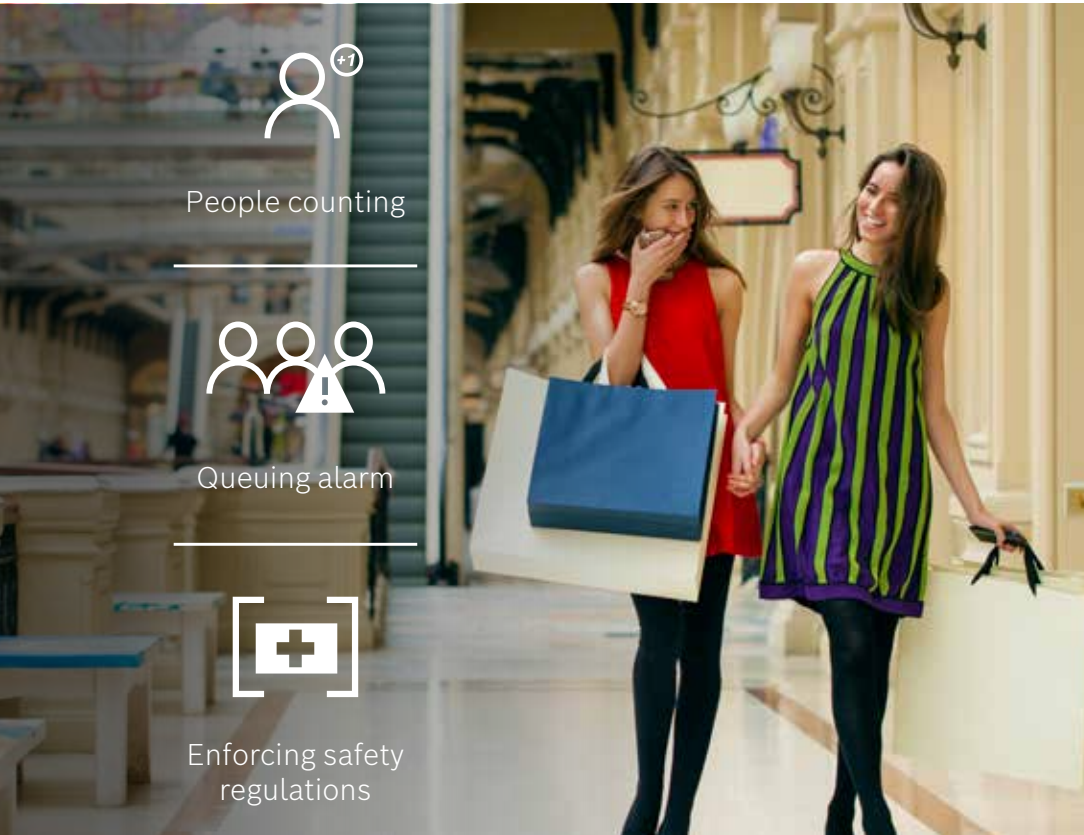
MIC-7604-Z12x-OC
30 fps@UHD, 12x,
Intelligent Video
Analytics

**MIC intex
7100i**



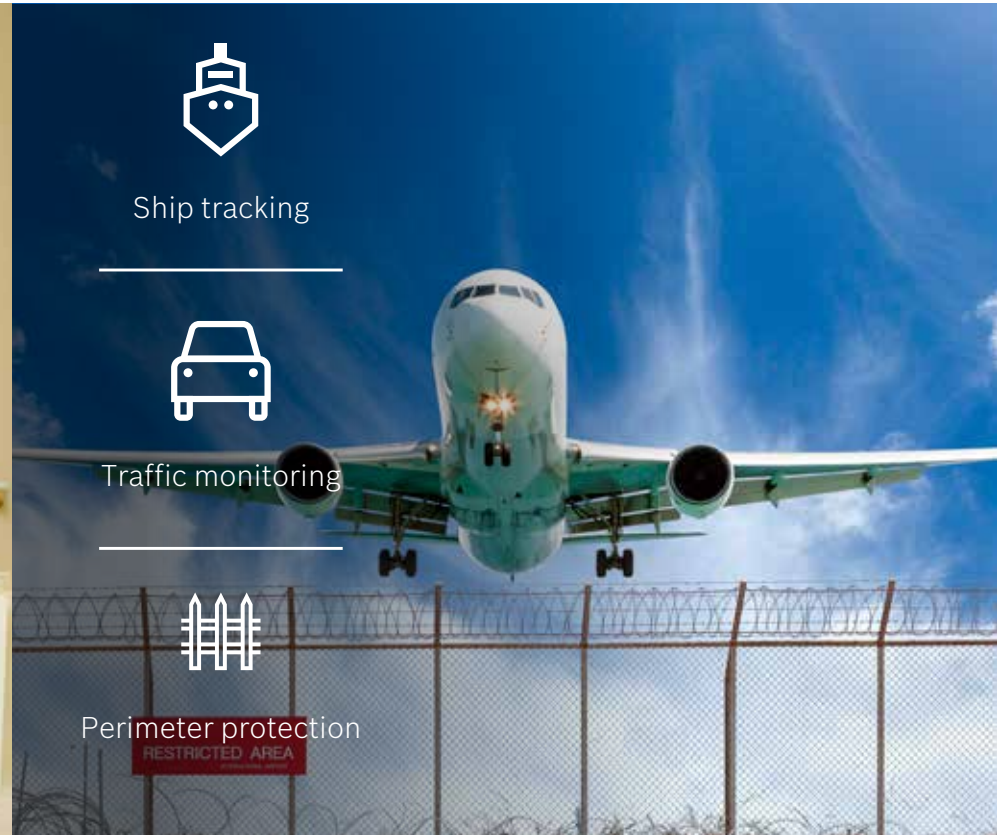
MIC-7602-Z30x-OC
30 fps@1080p, 30x,
starlight, Intelligent
Video Analytics

Essential Video Analytics



Essential Video Analytics is the ideal analytics solution for small and medium businesses, large retail stores, commercial buildings, warehouses and logistics depots. It can be used for advanced intrusion detection (such as loitering alarms and identifying a person or object entering a pre-defined field), enforcing health and safety regulations such as no-parking zones, detecting blocked emergency exits or objects that have been left behind, and analyzing behavior in retail environments.

Intelligent Video Analytics



Intelligent Video Analytics offers the ultimate in built-in video analytics and is specifically designed for the most demanding environments. This state-of-the-art solution is ideal for mission-critical applications like perimeter protection of airports, critical infrastructures and government buildings, border patrol and traffic monitoring (e.g. wrong-way detection, traffic counts, and parked cars). Intelligent Video Analytics can do everything that Essential Video Analytics does.

It also has the unique ability to perform video content analysis over large distances and differentiate between genuine security events and known false triggers such as snow, wind (moving trees), rain, hail, and water reflections that can make video data more difficult to interpret. Cameras with Intelligent Video Analytics are also extremely resistant against shaking caused by punishing winds, city traffic or bicycles parked against the camera pole.

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 intex 7100i



AUTODOME intex 7000i

Fixed cameras



FLEXIDOME intex 7100i*



DINION intex 7100i*

*Available end of 2020

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

Specific models for ITS
Object Classifier

Add software apps
afterwards securely

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

*Available as of firmware 7.80

Specifications:



AUTODOME inteoX 7000i

● ● ● ● 30fps 120dB ●

Housing:



High impacts

IK10



Withstands challenging
weather conditions

IP66

NEMA-4X

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

Model with AI based
Object Classifier available

Add software apps
afterwards securely

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

*Available as of firmware 7.80

Specifications:

	optical image stabilization	H.265	Optional illuminator	120dB	30x	12x	starlight	SD industrial	window defroster
MIC inteox 7100i (basic) 1080p	●	550m	●	●	●	●	●	●	●
MIC inteox 7100i (enhanced) 1080p	●	550m	●	●	●	●	●	●	●
MIC inteox 7100i (enhanced) 4K UHD	●	●	300m	●	●	●	●	●	●

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:



IK10
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

IP Video

Dome Cameras

■ Available – Not available

► = indication of main differentiator(s)

►FLEXIDOME IP turret 3000i IR

►FLEXIDOME IP micro 3000i

►FLEXIDOME IP micro 5000

Commercial Type Number		1080p	5MP	1080p	5MP	1080p	5MP
		NTV-3502-FxxL	NTV-3503-FxxL	NDV-3502-Fxx	NDV-3503-Fxx	NUC-51022-FX	NUC-51051-FX
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	1/2.8" CMOS	1/2.9" CMOS	1/3"
	Max. frames per second (fps)	►	30 fps @ 1080p	20 fps @ 5.3MP 25 fps @ 4.1MP	30 fps@1080p	20 fps@5.3MP 25 fps@4.1MP	30 fps@1080p 12 fps@5MP
	Indoor / outdoor	►	■/–	■/–	■/–	■/■	■/■
	Day / night	►	■	■	■ (electronic)	■ (electronic)	■ (electronic)
Advanced features	Wide Dynamic Range (WDR)	►	120dB	120dB	120dB	76dB	65dB
	ONVIF conformant	►	■	■	■	■	■
	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	0.06 lux	0.5 lux	0.4 lux (F4) 1 lux (F2)
	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	►	15 m	15 m	–	–	–
Lens	Automatic varifocal	►	–	–	–	–	–
	Focal length	►	2.3 mm (F02) 2.8 mm (F03)	2.3 mm (F02) 2.8 mm (F03)	2.3mm (F02) 2.8mm (F03)	2.3mm (F02) 2.8mm (F03)	3.6 mm (F4) 2.5 mm (F2)
	Horizontal Angle of View (HAoV)	►	132° (F02) 118° (F03)	118° (F02) 94° (F03)	132° (F02) 118° (F03)	118° (F02) 94° (F03)	97° (F4) 135° (F2)
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)	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)
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	–/–
	Audio in / out	►	■ (built-in mic)/■	■ (built-in mic)/■	■ (built-in mic)/■	■ (built-in mic)/■	–
	Hybrid / public view monitor	►	–/–	–/–	–/–	–/–	–/–
Housing	Weather rating	►	–	–	–	–	IP66
	Vandal resistant	►	IK08	IK08	IK08	IK08	IK08
	Operating temperature	►	–20° to +50° C (–4° to 104° F)	–20° to +50° C (–4° to 104° F)	–20° to 50° C (–4° to 122° F)	–20° to 50° C (–4° 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 3000i IR



1080p



5MP

■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		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
Basic features	Maximum resolution	HD 1080p	5MP
	Image sensor type	1/2.8" CMOS	1/2.9" CMOS
	Max. frames per second (fps)	30 fps@1080p	20 fps@5.3MP 25 fps@4.1MP
	Indoor/outdoor	–/■	–/■
	Day/night	■	■
	Wide Dynamic Range (WDR)	120dB	120dB
	ONVIF conformant	■	■
	Built-in microphone	–	–
	Intelligent Auto Exposure / Intelligent Defog	–/■	–/■
	Privacy masking	■	■
Advanced features	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
	Minimum illumination night mode (black / white)	0.015 lux	0.2 lux
	Night vision	■ (infrared)	■ (infrared)
	Max. range at night	30 m	30 m
Lens	Automatic varifocal	■	■
	Focal length	3.2 - 10 mm	3.2 - 10 mm
	Horizontal Angle of View (HAoV)	33° - 104°	30° - 89°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	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
Connections	Alarm input / output	1/1	1/1
	Audio in / out	■/■	■/■
	Hybrid / public view monitor	–/–	–/–
Housing	Weather rating	IP66	IP66
	Vandal resistant	IK10	IK10
	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

Dome Cameras

►FLEXIDOME IP 4000i



Indoor

►FLEXIDOME IP 4000i



Outdoor

►FLEXIDOME IP 4000i IR



Indoor

►FLEXIDOME IP 4000i IR



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	■	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams	■/■/4 streams
	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	► ■	–	■	–
	Intelligent Auto Exposure / Intelligent Defog	–/■	–/■	–/■	–/■
Advanced features	Privacy masking	■	■	■	■
	Region Of Interest tracking	–	–	–	–
	Upright video mode	■	■	■	■
	Tamper detection / Video motion detection	■	■	■	■
Alarm triggering	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 - 10 mm	3 - 10 mm	3 - 10 mm	3 - 10 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



Indoor

► FLEXIDOME IP 5000i



Outdoor

► FLEXIDOME IP 5000i IR



Indoor

► FLEXIDOME IP 5000i IR



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	■	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams	■/■/4 streams
	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	■	■	■	■
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)	0.24 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	NDI-5502-AL	NDE-5502-A	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 - 10 mm	3 - 10 mm	3 - 10 mm	3 - 10 mm
	Horizontal Angle of View (H AoV)	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	■	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	–/■/4 streams	–/■/4 streams	–/■/4 streams	–/■/4 streams
	Maximum resolution	► 720p	720p	1.3MP / 1080p	1.3MP / 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	■/■	■/■	■/■	■/■
	Day / night	■	■	■	■
	Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB
	ONVIF conformant	■	■	■	■
	Built-in microphone	–	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	■/■	■/■	■/■	■/■
Advanced features	Privacy masking	■	■	■	■
	Region Of Interest tracking	■	■	■	■
	Upright video mode	■	■	■	■
	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
Alarm triggering	Built-in video analytics	■	■	■	■
	Audio detection	■	■	■	■
	Minimum illumination day mode (color)	0.0075 lux	0.0075 lux	0.0075 lux	0.0075 lux
Sensitivity	Minimum illumination night mode (black / white)	0.0011 lux	0.0011 lux	0.0011 lux	0.0011 lux
	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)	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)	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)	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	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	IP66 and NEMA type 4X	IP66 and NEMA type 4X	IP66 and NEMA type 4X	IP66 and NEMA type 4X
	Vandal resistant	IK10	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 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) with wireless support	■	■	■
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	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)	134dB HDR	120dB HDR	120dB HDR
	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)	► 0.007 lux (R) / 0.013 lux (RT)	0.040 lux (R) / 0.084 lux (RT)	0.040 lux (R) / 0.086 lux (RT)
	Minimum illumination night mode (black / white)	► 0.0011 lux (R) / 0.0031 lux (RT)	0.0059 lux (R) / 0.0135 lux (RT)	0.0059 lux (R) / 0.0165 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)	37° - 117° (R) / 14.4° - 32° (RT)	44° - 117° (R) / 36° - 12.6° (RT)	44° - 117° (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
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	2/1 + 12V 50mA out	2/1 + 12V 50mA out	2/1 + 12V 50mA out
	Audio in / out	■/■	■/■	■/■
	Hybrid / public view monitor	–	–	–
Housing	Weather rating	IP66 and NEMA type 4X	IP66 and NEMA type 4X	IP66 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 panoramic 5000 MP

►FLEXIDOME IP panoramic 5000 MP



indoor



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	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	–/■/4 streams	–/■/4 streams
	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	■	■
Advanced features	Built-in microphone	■	–
	Intelligent Auto Exposure / Intelligent Defog	–/■	–/■
	Edge dewarping	–	–
	Privacy masking	■	■
	Region Of Interest tracking	–	–
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■
	Built-in video analytics	–	–
	Audio detection	■	–
	PTZ Intelligent Tracking	–	–
Sensitivity	Minimum illumination day mode (color)	0.36 lux	0.36 lux
	Minimum illumination night mode (black / white)	0.12 lux	0.12 lux
	Night vision	–	–
	Max. range at night	–	–
Lens	Focal length	1.19 mm	1.19 mm
	Horizontal Angle of View (HAoV)	360°	360°
DORI distances	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 IP panoramic 7000 MP



indoor

►FLEXIDOME IP panoramic 7000 IC



in ceiling

FLEXIDOME IP panoramic 7000



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) 0.55 lux (F0)	0.46 lux (F1) 0.55 lux (F0)	0.46 lux (180° lens) 0.55 lux (360° lens)
	Minimum illumination night mode (black / white)	0.15 lux (F1) 0.18 lux (F0)	0.15 lux (F1) 0.18 lux (F0)	0.15 lux (180° lens) 0.18 lux (360° lens)
	Night vision	-	-	-
	Max. range at night	-	-	-
Lens	Focal length	2.1 mm (F1) 1.6 mm (F0)	2.1 mm (F1) 1.6 mm (F0)	2.1 mm (180° lens) 1.6 mm (360° lens)
	Horizontal Angle of View (HAoV)	180° (F1) 360° (F0)	180° (F1) 360° (F0)	180° (180° lens) 360° (360° lens)
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)	19/12/6.5/3.5 (F1) 19/8.5/4.5/2 (F0)	19/12/6.5/3.5 (F1) 19/8.5/4.5/2 (F0)	19/12/6.5/3.5 (180° lens) 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

Fixed Cameras

► DINION IP 5000 HD



1080p

► DINION IP 5000 MP



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	■	■
	Intelligent Auto Exposure / Intelligent Defog ►	–/■	–/–
Advanced features	Privacy masking	■	■
	Region Of Interest tracking	–	–
	Tamper detection / Video motion detection	■/■	■/■
Alarm triggering	Built-in video analytics	–	–
	Audio detection	■	■
	Minimum illumination day mode (color) ►	0.25 lux	0.35 lux
Sensitivity	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	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)		
	Industrial SD card support with health monitoring	■	■
Connections	Cloud application storage	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
	Alarm input / output	1/1	1/1
	Audio in / out	■/■	■/■
Housing	Hybrid / public view monitor	■/■	■/■
	Weather rating	–	–
	Vandal resistant	–	–
Power input voltage	Operating temperature	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)
	Power over Ethernet / 12V / 24V	■/■/–	■/■/–

IP Video

Fixed Cameras

■ Available – Not available

▶ = indication of main differentiator(s)

►DINION IP 3000i IR



1080p



5MP

►DINION IP 4000i IR



1080p



5MP

►DINION IP 5000i IR



starlight

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	■	■	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams	■/■/4 streams	■/■/4 streams
	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	–	–	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	▶ –/■	–/■	–/■	■/■	■/■
Advanced features	Privacy masking	■	■	■	■	■
	Region Of Interest tracking	■	■	■	■	■
	Upright video mode	■	■	■	■	■
	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■	■/■
Alarm triggering	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	30 m	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	–/–	–/–	■/■	■/■	■/■
	Weather rating	▶ IP66	IP66	IP67	IP67	IP67
Housing	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

■ Available – Not available

► = indication of main differentiator(s)

►DINION IP starlight 6000 HD



►DINION IP starlight 7000 HD



►DINION IP starlight 6000 HD



►DINION IP starlight 7000 HD



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	■	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	–/■/4 streams	–/■/4 streams	–/■/4 streams	–/■/4 streams
	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
Advanced features	ONVIF conformant	■	■	■	■
	Built-in microphone	–	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	■/■	■/■	■/■	■/■
	Privacy masking	■	■	■	■
	Region Of Interest tracking	■	■	■	■
	Upright video mode	■	■	■	■
	Alarm triggering	■/■	■/■	■/■	■/■
Sensitivity	Built-in video analytics	■	■	■	■
	Audio detection	■	■	■	■
	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)
Lens	Max. range at night	–	–	–	–
	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 (H AoV)	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	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	–/■/4 streams	–/■/4 streams
	Maximum resolution	5 MP (16:9)/5.5 MP (4:3)	12 MP (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	■	■
	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
Connections	Alarm input / output	2/1	2/1
	Audio in / out	■/■	■/■
	Hybrid / public view monitor	■/■	■/■
Housing	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	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	–/■/4 streams	–/■/4 streams
	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

►DINION IP thermal 8000



QVGA



VGA

■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NHT-8000-F	NHT-8001-F
Video analytics 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
	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	■	■
Advanced features	Built-in microphone	–	–
	Intelligent Auto Exposure / Intelligent Defog	–/–	–/–
	Privacy masking	Eight independent areas, fully programmable	Eight independent areas, fully programmable
	Region Of Interest tracking	–	–
	Tamper detection / Video motion detection	■/■	■/■
Alarm triggering	Built-in video analytics	■	■
	Audio detection	■	■
	Minimum illumination day mode (color)	–	–
Sensitivity	Minimum illumination night mode (black / white)	0 lux	0 lux
	Night vision	■ (thermal)	■ (thermal)
	Max. range at night	–	–
Lens	Automatic Back Focus (ABF)	–	–
	Automatic varifocal	–	–
	Focal length	7.5 mm (-F07Qx), 19 mm (-F19Qx)	9 mm (-F09Vx), 16.7 mm (-F17Vx), 35 mm (-F35Vx), 65 mm (-F65Vx)
	Horizontal Angle of View (HAoV)	7.5 mm: 41.8°, 19 mm: 16°	9 mm: 70°, 16.7 mm: 37.5°, 35 mm: 17.6°, 65 mm: 9.6°
DRI distances	Detection / Recognition / Identification	7.5 mm: 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	■/■	■/■
Housing	Hybrid / public view monitor	■	■
	Weather rating	IP66	IP66
	Vandal resistant	–	–
Power input voltage	Operating temperature	-50° to 55° C (-58° to 131° F)	-50° to 55° C (-58° to 131° F)
	Power over Ethernet / 12V / 24V	–/–/■	–/–/■

IP Video

Moving Cameras

►AUTODOME IP 4000i

►AUTODOME IP 5000i

►AUTODOME IP 5000i IR



In-ceiling



12x zoom



In-ceiling



30x zoom



IR

■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		NDP-4502-Z12C	NDP-4502-Z12	NDP-5502-Z30C	NDP-5502-Z30	NDP-5502-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	■/■/4 streams	■/■/4 streams
	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	94dB	94dB	94dB
	ONVIF conformant	■	■	■	■	■
Advanced features	Built-in microphone	–	–	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	–/■	–/■	–/■	–/■	–/■
	Privacy masking	■	■	■	■	■
	Nbr of presets/guard tours	256/2	256/2	256/2	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	0.05 lux	0.05 lux	0.05 lux
	Minimum illumination night mode (black / white)	► 0.01 lux	0.01 lux	0.01 lux	0.01 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	65-1833/26-727/13-367/7-183	65-1833/26-727/13-367/7-183	65-1833/26-727/13-367/7-183
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	IK6	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 5000i

►AUTODOME IP starlight 5000i IR



Inceiling

30x
zoom

IR

■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		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	■	■	■
Basic features	Compression (H.265 / H.264 & MJPEG) / multi-streaming	■/■/4 streams	■/■/4 streams	■/■/4 streams
	Maximum resolution	HD 1080p	HD 1080p	HD 1080p
	Image sensor type	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
	Indoor / outdoor	► ■/–	■/■	■/■
	Day / night	■	■	■
	Wide Dynamic Range (WDR)	120dB	120dB	120dB
	ONVIF conformant	■	■	■
Advanced features	Built-in microphone	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	■/■	■/■	■/■
	Privacy masking	■	■	■
	Nbr of presets/guard tours	256/2	256/2	256/2
	Wiper	–	–	–
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■
	Built-in video analytics	■	■	■
	Audio detection	■	■	■
	PTZ Intelligent Tracking	–	–	–
Sensitivity	Minimum illumination day mode (color)	0.0186 lux	0.0186 lux	0.0186 lux
	Minimum illumination night mode (black / white)	► 0.004 lux	0.004 lux	0 lux (IR on)
	Night vision	► –	–	■ (infrared)
	Max. range at night	► –	–	180m (590 ft)
Lens	Focal length	4.5 - 135 mm	4.5 - 135 mm	4.5 - 135 mm
	Horizontal Angle of View (HAoV)	2.4° to 60.9°	2.4° to 60.9°	2.4° to 60.9°
	PTZ Zoom optical/digital	30x/16x	30x/16x	30x/16x
	Tilt angle	► -90° to 0°	-90° to 0°	-90° to 3°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-IEC 62676-4 standard)	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
Connections	Alarm input / output	2/1	2/1	2/1
	Audio in / out	■/■	■/■	■/■
	Hybrid / public view monitor	–/–	–/–	–/–
Housing	Weather rating	► IP55	IP66	IP66
	Vandal resistant	► IK06	IK10	–
	Operating temperature	► -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+)/–/■

IP Video

Moving Cameras

■ Available – Not available

▶ = indication of main differentiator(s)

▶AUTODOME IP starlight 7000 HD



▶AUTODOME IP starlight 7000i



H.265

▶AUTODOME inteoX 7000i



H.265

Commercial Type Number		VG5-7230	NDP-7512	NDP-7602-Z30x
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	HD 1080p	HD 1080p	HD 1080p
	Image sensor type	1/2.8"	1/2.8"	1/2.8"
	Max. frames per second (fps)	60 fps@720p 30 fps@1080p	60 fps@720p 30 fps@1080p	60 fps@720p 30 fps@1080p
	Indoor / outdoor	■/■	■/■	■/■
Advanced features	Day / night	■	■	■
	Wide Dynamic Range (WDR)	120dB	120dB	120dB
	ONVIF conformant	■	■	■
	Built-in microphone	–	–	–
	Intelligent Auto Exposure / Intelligent Defog	–/■	–/■	–/■
Alarm triggering	Privacy masking	■	■	■
	Nbr of presets/guard tours	256/2	256/2	256/2
	Wiper	–	–	–
	Intelligent Tracking	■	■	■
	Tamper detection / Video motion detection	■/■	■/■	■/■
Sensitivity	Built-in video analytics	■	■	■
	Audio detection	■	■	■
	PTZ Intelligent Tracking	■	■	■
	Minimum illumination day mode (color)	0.0077 lux	0.0077 lux	0.0077 lux
	Minimum illumination night mode (black / white)	0.0008 lux	0.0008 lux	0.0008 lux
Lens	Night vision	■ (starlight)	■ (starlight)	■ (starlight)
	Max. range at night	–	–	–
	Focal length	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°
	PTZ Zoom optical/digital	30x/12x	30x/12x	30x/12x
DORI distances	Tilt angle	-90° to 14° (pendant)	-90° to 14° (pendant)	-90° to 14° (pendant)
	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
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	7/4	7/4	7/4
	Audio in / out	■/■	■/■	■/■
	Hybrid / public view monitor	–/–	–/–	–/–
Housing	Weather rating	IP66 (pendant)/IP54 (in-ceiling)	IP66 (pendant)/IP54 (in-ceiling)	IP66 (pendant)/IP54 (in-ceiling)
	Vandal resistant	IK10 (with rugged bubble)	IK10 (with rugged bubble)	IK10 (with rugged bubble)
	Operating temperature	-40° to 55° C (-40° to 131° F)	-40° to 55° C (-40° to 131° F)	-40° to 55° C (-40° to 131° F)
Power input voltage	Power over Ethernet / 12V / 24Vac	■ (HiPoE)/–/■ (pendent) ■ (PoE+)/–/■ (In ceiling)	■ (HiPoE)/–/■ (pendent) ■ (PoE+)/–/■ (In ceiling)	■ (HiPoE)/–/■ (pendent) ■ (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	■	■	■	■
	Nbr of presets/guard tours	256/2	256/2	265/2	256/2
Alarm triggering	Wiper / Built in window defroster	■/–	■/■	■/■	■
	Intelligent Tracking	■	■	■	■
	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
	Built-in video analytics	■	■	■	■
	Audio detection	■	■	■	■
Sensitivity	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)
Lens	Max. range at night	550 m (1804.5 ft)	550 m (1804.5 ft)	300 m (984.25 ft)	300 m (971 ft) (optical) 1540m (5050 ft) w/320 pixel (thermal) 3550m (11,600 ft) w/640 pixel (thermal)
	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 (H AoV)	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
DORI distances	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)
	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-Z30x	MIC-7604-Z12x	MIC-7602-Z30x-OC	MIC-7604-Z12x-OC
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	■/■/4 streams	■/■/4 streams
	Maximum resolution	► HD 1080p	HD 1080p	4K UHD	HD 1080p	4K UHD
	Image sensor type	► 1/2"	1/2"	1"	1/2"	1"
	Max. frames per second (fps)	► 30 fps@ 1080p	30 fps@ 1080p	30 fps@ UHD	30 fps@ 1080p	30 fps@ UHD
	Indoor / outdoor	–/■	–/■	–/■	–/■	–/■
	Day / night	■	■	■	■	■
	Wide Dynamic Range (WDR)	► 120dB	120dB	62dB	120dB	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	► –	–	–	–	–
	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■	■/■
Alarm triggering	Audio detection	► ■	■	■	■	■
	PTZ Intelligent Tracking	–	–	–	–	–
Sensitivity	Minimum illumination day mode (color)	► 0.0047 lux	0.0047 lux	0.292 lux	0.0047 lux	0.292 lux
	Minimum illumination night mode (black / white)	► 0.0013 lux	0.0013 lux	0.0110 lux	0.0013 lux	0.0110 lux
	Night vision	■ (optional illuminator)	■ (optional illuminator)	■ (optional illuminator)	■ (optional illuminator)	■ (optional illuminator)
	Max. range at night	► 550 m (1804.5 ft)	550 m (1804.5 ft)	300 m (984.25 ft)	550 m (1804.5 ft)	300 m (984.25 ft)
Lens	Focal length	► 6.6 - 198 mm	6.6 - 198 mm	9.3 - 111.6 mm	6.6 - 198 mm	9.3 - 111.6 mm
	Horizontal Angle of View (HAoV)	► 2.1° to 58.3°	2.1° to 58.3°	6.1° to 64.6°	2.1° to 58.3°	6.1° to 64.6°
	PTZ Zoom optical/digital	► 30x/12x	30x/12x	12x/12x	30x/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 108-355/43-142/22-71/11-36	wide 69-226/27-89/14-46/7-23	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 154-504/61-202/31-101/15-50	tele 2895-6873/834-2726/419-1375/210-689	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	► ■	■	■	■	■
Housing	Hybrid / public view monitor	■ (with external decoder)/–	■ (with external decoder)/–	■ (with external decoder)/–	■ (with external decoder)/–	■ (with external decoder)/–
	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 / 24Vdc	■ (PoE+)/–/■	■ (PoE+)/–/■	■ (PoE+)/–/■	■ (PoE+)/–/■	■ (PoE+)/–/■

IP Video

Digital Recording

■ Available – Not available

▶ = indication of main differentiator(s)

All-in-one solution

▶DIVAR IP all-in-one 5000



▶DIVAR IP all-in-one 7000 2U



▶DIVAR IP all-in-one 7000 3U



Commercial Type Number		DIP-524xxx-xxx	DIP-728x-xxx	DIP-72Gx-xxx
Basic functions	Max. system size (channels)	▶ 42	256	256
	Integrated video management	■	■	■
	RAID Level	▶ –	RAID-5, RAID-6	RAID-5, RAID-6
	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	4x USB 2.0, 2x USB 3.0	4x USB 2.0, 2x USB 3.0
	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)	VGA (optional: 4x mini-DP)	VGA (optional: 4x mini-DP)
	Monitor output	▶ 3 (GPU-models: 4)	optional: 4x via local mini-DP	optional: 4x via local mini-DP
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	native, MOV, ASF	native, MOV, ASF
	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

■ Available – Not available

► = indication of main differentiator(s)

All-in-one solution

►DIVAR IP all-in-one 5000

►DIVAR IP all-in-one 7000 2U

►DIVAR IP all-in-one 7000 3U



Commercial Type Number		DIP-524xxx-xxx	DIP-728x-xxx	DIP-72Gx-xxx
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)	■ 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	■	■	■
	Simultaneous accessible users	4	4	4
Advanced features support	Forensic search support (metadata)	■	■	■
	Webclient	■	■	■
Supported software	Bosch Video Client	-	-	-
	Bosch Video Management System	■ (v9.0 or newer)	■ (v9.0 or newer)	■ (v9.0 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/x/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	—
Mechanical	ONVIF	■
	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
	Base system capacity TB	—
	Max. Base system capacity TB	12 bay: 48/96/144TB 60 bay: 240/480/720TB
	Full system capacity TB	12 bay: 384/768/1152TB 60 bay: 720/1440/2160TB
	Extensible / external support	6Gb/s SAS (Copper)
Storage extensions	Max. number of units	12 bay: 7 / 60 bay: 3
	Maximum drives supported	12/60
	Available capacities per drive	4, 8 or 12TB
	Hot swappable	■
Export/back-up of data	Data format	WMF, Bosch ASF
	Built-in DVD writer	—
	Supported devices	External CD/DVD Writer, USB 2.0, iSCSI
	Back-up mode	manual or automatic
Redundancy	Power supply redundancy	■
	Hot swappable HDD	■

Table continued on the next page

IP Video

Digital Storage

Network Video Recorder

► DSA E-Series



■ Available – Not available

Commercial Type Number		DSA-N6xxx-xxxx
Redundancy	Power supply redundancy	—
	Hot swappable HDD	—
Software options	PTZ control	—
	CCTV keyboard support	—
	Admin control	—
	Export options	—
Remote access	Mobile device (smart phone / tablet)	—
	Network	2x 10 Gigabit Ethernet
	Web browser access	—
	Simultaneous accessible users	—
Advanced features support	Forensic search support (metadata)	—
	Webclient	■
Supported software	Bosch Video Client	—
	Bosch Video Management System	—
	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/x/en/partners>

IP Video

Digital Storage

■ Available – Not available

▶ = indication of main differentiator(s)

Network Video Recorder

▶DIVAR network 2000

▶DIVAR network 3000

▶DIVAR network 5000



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
	Power supply redundancy	–	–	–
Redundancy	Hot swappable HDD	–	–	–
	PTZ control	■	■	■
Software options	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	■	■	■
	3rd 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/x/en/partners>

IP Video

Video Software

► Video Management System



■ Available – Not available

► = indication of main differentiator(s)

Name		BVMS Viewer	BVMS Lite	BVMS Plus	BVMS Professional	BVMS Enterprise
System features	Included cameras (max cameras)	► 16 (500)	8 (42)	8 (256)	8 (2000)	200.000
	Maximum number of clients	► 1	5	10	100	100
	Maximum number of Bosch Video Management System (VMS) servers	► 1	1	1	1	10/30
	Maximum number of Bosch Video Recording Manager (VRM) servers	► 32**	2	2	125	1.250
	Maximum storage capacity	► n.a.	2 x 2PB	2x 2 PB	125 x 2PB	1.250 x 2PB
	Forensic search	■	■	■	■	■
	DVR support	■	■	■	■	■
	Events and alarms	► –	■	■	■	■
	Streamlining	► –	■	■	■	■
	Remote access	► –	■	■	■	■
	Dynamic transcoding	■	■*	■*	■*	■*
	Web client	► –	■	■	■	n.a.
	Bosch Mobile Video Client App support	► –	■	■	■	n.a.
	Keyboard support	► –	■	■	■	■
	Maps	► –	■	■	■	■
	Audio support	► –	■	■	■	■
	Bosch VMS Config Wizard	► –	■	■	■	n.a.
	Live & Playback sites	► ■**	-	-	9.999	9.999
Supported camera devices	Bosch panoramic cameras	■	■	■	■	■
	Bosch UHD cameras	■	■	■	■	■
	Bosch HD cameras	■	■	■	■	■
	Bosch SD / VGA cameras	■	■	■	■	■
	Third party ONVIF Profile S 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 Video Recording Manager (VRM)	► –	■	■	■	■
	Dual Recording	► –	■	■	■	■
Alarm management	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	► –	5	10	20	200
	I/O module support	► –	■	■	■	■
	Active directory connectivity	■	■	■	■	■
	ATM-POS support	► –	■	■	■	■
	Additional data	► –	■	■	■	■
	Software Development Kit (SDK)	► –	■	■	■	■

* Additional hardware required

** Limited

IP Video

Viewing Software

■ Available – Not available

▶ = indication of main differentiator(s)

▶Video Security App



▶Video Security Client



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	–	–
	AUTODOME Intelligent Tracking	■	■
	PTZ	■	■
Control	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 3000

►VIDEOJET decoder 7000



■ Available – Not available

► = indication of main differentiator(s)

Commercial Type Number		VJD-3000	VJD-7513
	Description	Single / Quad-stream Decoder	High performance H.265 UHD decoder
Video/Audio	Monitor Outputs	1 of 2 (HDMI, CVBS)	2 (HDMI, DP via USB-C)
	Video Codec	H.264 M-JPEG, JPEG	H.265, H.264, MPEG-4, MPEG-2
	Max. frames per second (fps)	30@1080p (single view) 60@720p (single view) 4x 25/30@4CIF (quad view)	4x 30@UHD* 10x 60@1080p* 18x 60@720p* 28x 60@432p*
	Audio in / out	1/1	via HDMI
	Transcoding at the edge	–	–
Interfaces	Alarm In	4	–
	Relay Out	1	–
	ONVIF conformant	–	–
Other	Keyboard	■	supported for IP Matrix
	IP Matrix	■	■

* at 25°C with a single HD monitor connected

IP Video
Transcoders

Transcoder/network & alarm interface device
►VIDEOJET connect 7000



■ Available – Not available

Commercial Type Number		VJC-7000-90
	Description	5 Channel network switch / Single-stream Transcoder
Video/Audio	Camera Inputs	4
	Video Codec	H.264 High Profile
	Max. frames per second (fps)	25/30@4CIF
	Audio in / out	1/–
	Transcoding at the edge	■
Storage	Type	CF
	Capacity	2TB
Intelligence	Direct-to-iSCSI	–
	Video Analytics	–
Interfaces	Alarm In	4 dry contacts, 2 monitored tamper alarm (With MIC IP 7000)
	Alarm Out	3
	Relay Out	1 (for washer pump) (with MIC IP 7000)
	Network (PoE)	1x 10/100/1000Base-TX
	Network UTP	2x 10/100/1000Base-TX
	Network fiber	2 SFP Sockets (1000Base-FX)
	Network daisy chain	■ (up to 50)
Other	Output power	95W HiPoe
	Washer pump control	■ (relay)
	Support for daisy-chaining of multiple cameras	■

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/m2)	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	178 x 178	178 x 178	178 x 178	178 x 178
Connectors	Composite Video (BNC)	–	–	–	–	–	–
	VGA	–	–	■	■	■	■
	DVI-D	–	–	■	■	■	■
	HDMI	■	■	■	■	■	■
	Display Port	■	■	■	■	■	■
Audio	Input	–	–	■	■	■	■
	Speaker	■	■	■	■	■	■
Mechanical	Width	541 mm	615.1 mm	633.6 mm	737.9 mm	978.3 mm	1253.8 mm
	Height	387.3 mm	428.4 mm	371.8 mm	431.5 mm	568.8 mm	722.6 mm
	Depth	219.7 mm	219.7 mm	64.8 mm	71.5 mm	74.7 mm	74.1 mm
	Weight	3.5 kg	4.0 kg	6.8 kg	11.6 kg	18.6 kg	30.5 kg
Power	Power Supply	Separate	Separate	Integrated	Integrated	Integrated	Integrated
	Power Consumption	<35W	<45W	<50W	<60W	<75W	<155W
Misc.	Picture-in-picture	–	–	–	–	–	–
	Front Panel Lockout	–	–	–	–	–	–
	IR Remote	–	–	■	■	■	■
Cables Included	VGA-to-VGA	–	–	■	■	■	■
	HDMI-to-HDMI	■	■	■	■	■	■
	DVI-to-DVI	–	–	–	–	–	–
	DP-to-DP	■	■	■	■	■	■
	DP-to-MiniDP converter	■	■	■	■	■	■
Mounting	VESA Compliant	■	■	■	■	■	■
	Rack-mountable	–	–	–	–	–	–
	Fixed desktop stand	within box	within box	within box	within box	within box	within box
	Adjustable desktop stand	UMM-LED27-SD	UMM-LED27-SD	UMM-LED27-SD	–	–	–
	Fixed Wall Mount	–	–	–	–	ST650	ST650
	Swivel/Tilt Wall Mount	UMM-LW-30B	UMM-LW-30B	UMM-LW-30B	UMM-WMT-32	–	–

Notes

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