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# Added value for you

#### **Intelligent Dynamic Noise Reduction**

Quiet scenes with little or no movement require a lower bitrate. By intelligently distinguishing between noise and relevant information, such as movement, Intelligent Dynamic Noise Reduction reduces bitrate by up to 50%. And because noise is reduced at the source during image capture, the lower bitrate does not compromise video quality. With Intelligent Dynamic Noise Reduction, our focus is to significantly reduce storage costs, and lessen network strain by only using bandwidth when needed.

#### **Intelligent Auto Exposure**

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

#### **Intelligent Tracking**

In video surveillance, moving objects are usually the most significant objects of interest. Intelligent Tracking automatically tracks moving objects based on predefined alarm rules or a simple click. By intelligently distinguishing between single and multiple reference points, Intelligent Tracking will

provide uninterrupted tracking. Optimal capture of the object of interest is assured by dynamically adjusting the field of view. With Intelligent Tracking, our focus is never to lose track of objects of interest.

#### Intelligent video analytics at the edge

Video analytics acts as the 'brains' of your security system, using metadata to add sense and structure to your video footage. This in turn enables your network video cameras to understand what they're seeing and alert you to any potential threats the moment they happen. Each camera in effect becomes smart. Allowing you to retrieve the right footage from hours of stored video instantly, analyse the scene by providing all kinds of statistics (metadata) and take appropriate action faster, easier and more efficiently Tailor your solution to your exact needs, Bosch smart cameras feature two different types of Video Analytics as standard:

#### **Essential Video Analytics**

Perfect for small and medium businessess, large stores, and commercial buildings.

- Advanced intrusion detection
- Enforcing health and safety regulations
- Loitering
- Left object
- Analyzing behavior in retail environments

#### **Intelligent Video Analytics**

Can do everything that Essential Video Analytics does. It is specifically designed for the most demanding environments. It delivers the highest levels of accuracy for mission critical applications such as:

- Perimeter protection of airports, critical infrastructures and government buildings
- Ship tracking in harbors or coastal environments
- Traffic monitoring in challenging environments
- Excellent tracking of objects in extreme weather

#### starlight

Bosch cameras with starlight technology are the gold standard in low light video performance. The original just got better with improved light sensitivity, a wide choice of resolutions, various form factors, dynamic ranges up to 120 dB, framerates of up to 60 frames per second and video analytics at the edge as a standard. Make sure you're not left in the dark. To take your video surveillance solution to the next level, always choose original starlight cameras from Bosch.

Back in 2012, Bosch introduced the world's first starlight cameras. Designed to give excellent images, even in the lowest light conditions, they revolutionized the industry and created true 24/7 surveillance. The latest sensor technology, combined with sophisticated noise suppression, results in a light sensitivity of 0.00825 lux in color and 0.00275 lux in monochrome. This enables starlight cameras to produce full color images in the dark beyond the point where other cameras have switched

to monochrome. Where other cameras fail to show any image at all, starlight cameras are still capable of delivering detailed monochrome images.

#### 4K ultra HD

Covering a large area and identifying objects at a great distance is challenging. That's why the 4K ultra HD technology in our DINION IP ultra 8000 MP offers 12 megapixel resolution to deliver amazing detail even when zoomed-in. With an incredibly high frame rate of 20 frames per second for a 12 megapixel camera, you can capture fast moving objects in high resolutions. This speed and these resolutions provide the level of detail that makes the difference when collecting evidence. The images produced are perfect for a detailed and effective retrospective analysis. The camera's ability to give a wide-angle overview and multiple focus points on a single screen helps you focus on details without losing the bigger picture. With the DINION IP ultra 8000 MP, our focus is to enable you to see every detail, everywhere.

# Dome Cameras

## ▶FLEXIDOME IP micro 2000

## ▶FLEXIDOME IP micro 5000









Commoveial Time N	lumb ou	NUC-21002-F2	NUC-21012-F2	NUC 51022 Fyy	NUC-51051-Fxx
Commercial Type N				NUC-51022-Fxx	NUC-51051-FXX
Bosch USPs	Intelligent Dynamic Noise Reduction	•			
	Intelligent Auto Exposure / Intelligent Defog	-/-	-/-	-/-	-/-
	starlight (extreme low-light sensitivity)		-	-	-
	4K ultra HD	-	-	-	-
ideo analytics	Essential Video Analytics	<del>-</del>	-	-	-
t the edge	Intelligent Video Analytics	-	-	-	-
asic features	Maximum resolution	VGA	HD 720p	HD 1080p	5 MP
	Image sensor type	1/4"	1/4"	1/2.7"	1/3"
	Max. frames per second (fps)	30 fps@ 480p	30 fps@ 720p	30 fps@ 1080p	12 fps@ 5MP
	Indoor / outdoor / in-vehicle	■/-/-	■/-/-	■/■/■	■/■/■
	Day / night	■ (electronic)	■ (electronic)	■ (electronic)	■ (electronic)
	Wide Dynamic Range (WDR)	76dB	76dB	76dB	65dB
	ONVIF conformant				
	Built-in microphone			-	_
	Power over Ethernet (PoE)				
dvanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	Privacy masking	_, · · · · · · · · · · · · · · · · · · ·		•	
	Region Of Interest tracking	_	-	-	_
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
	Built-in video analytics	=,-	-, - -	=, =	-/ - -
	Audio detection	•	•	_	_
ensitivity	Minimum illumination day mode (color)	1 lux	1 lux	0.4 lux (F4)	0.8 lux (F4)
ensitivity	willimum mummation day mode (color)	Tiux	1100	1 lux (F2/F2M)	2 lux (F2/F2M)
	Minimum illumination night mode (black/white)	-	-	0.4 lux (F4) 1 lux (F2/F2M)	0.8 lux (F4) 2 lux (F2/F2M)
	Night vision	-	-	-	-
	Max. range at night	-	-	-	-
ens	Automatic Back Focus (ABF)	_	-	-	-
	Automatic varifocal	_	-	-	-
	Focal length	2.5 mm	2.5 mm	3.6 mm (F4) 2.5 mm (F2/F2M)	3.6 mm (F4) 2.5 mm (F2/F2M)
	Horizontal Angle of View (HAoV)	66.7°	89°	97° (F4) 135° (F2/F2M)	74° (F4) 105° (F2/F2M)
ORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	24/10/5/2	26/10/5/3	34/13/7/3 (F4) 16/6/3/2 (F2)	69/27/14/7 (F4) 40/16/8/4 (F2)
torage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)
Ü	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 Exportin
onnections	Alarm input / output	-/-	-/-	-/-	-/-
	Audio in / out	-	-	- -	_
	Hybrid* / confrontation monitor	<b>-/</b> ■	-/∎	-/■	<b>-/</b> ∎
ousing	Weather rating	/ <b>-</b>		IP66	/ <b>-</b> IP66
iousing	Vandal resistant	_	_	IK08	IK08
	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Dome Cameras

▶FLEXIDOME IP indoor 4000 HD

▶FLEXIDOME IP indoor 4000 IR

▶FLEXIDOME IP outdoor 4000 HD

▶FLEXIDOME IP outdoor 4000 IR









Commercial Type N	lumber	NIN-41012-V3	NII-41012-V3	NDN-41012-V3	NDI-41012-V3
Bosch USPs	Intelligent Dynamic Noise Reduction	•	•		•
	Intelligent Auto Exposure / Intelligent Defog	-/■	-/■	-/ <b>■</b>	-/ <b>■</b>
	starlight (extreme low-light sensitivity)	-	_	_	-
	4K ultra HD	_	_	_	-
ideo analytics	Essential Video Analytics	-	_	-	-
t the edge	Intelligent Video Analytics	_	_	-	-
Sasic features	Maximum resolution	HD 720p/1.3 MP (4:3)			
	Image sensor type	1/2.7"	1/2.7"	1/2.7"	1/2.7"
	Max. frames per second (fps)	30 fps@ 720p	30 fps@ 720p	30 fps@ 720p	30 fps@ 720p
	Indoor / outdoor / in-vehicle	■/ - /-	■/-/-	■/■/-	■/■/-
	Day / night			•	
	Wide Dynamic Range (WDR)	76dB	76dB	76dB	76dB
	ONVIF conformant				
	Built-in microphone			-	_
	Power over Ethernet (PoE)		-		•
dvanced features		■/4 streams	■/4 streams	■/4 streams	■/4 streams
, availos a roataros	Privacy masking	<u> </u>		•	,
	Region Of Interest tracking	<u>-</u>		_	<del>-</del>
arm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
iaim mggering	Built-in video analytics		<b>-</b> , -	<b>-</b> , -	_,
	Audio detection	•			
ensitivity	Minimum illumination day mode (color)	0.24 lux	0.24 lux	0.24 lux	0.24 lux
Chartivity	William manimation day mode (color)	0.24 Tux	0.24 147	0.24 147	0.24 Tux
	Minimum illumination night mode (black/white)	0.05 lux	0 lux (IR on)	0.05 lux	0 lux (IR on)
	Night vision	_	■ (infrared)	_	■ (infrared)
			15 m (50 ft)	-	15 m (50 ft)
	Max. range at night Automatic Back Focus (ABF)		15 111 (50 11)	-	15 III (50 It)
ens			<del>-</del>	-	_
	Automatic varifocal		-		
	Focal length	3.3 - 10 mm			
	Horizontal Angle of View (HAoV)	35.3° - 105.5°	35.3° - 105.5°	35.3° - 105.5°	35.3° - 105.5°
ORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	16-79/6-31/3-16/2-8	16-79/6-31/3-16/2-8	16-79/6-31/3-16/2-8	16-79/6-31/3-16/2-8
torage	Memory card slot	■ (up to 2 TB)			
-	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
onnections	Alarm input / output	1/1	1/1	1/1	1/1
	Audio in / out	1/1	■/■	■/■	1/1
	Hybrid* / confrontation monitor	=/=	=/- =/=	=/- =/=	1/1
ousing	Weather rating		- -	IP66	■/■ IP66
ousing	Vandal resistant		_	IK10	IK10
	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-40° to 50° C (-22° to 122° F)	-40° to 50° C (-22° to 122° F)

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

# Dome Cameras

#### ▶FLEXIDOME IP indoor 5000 HD

#### ▶FLEXIDOME IP indoor 5000 MP







Available - Not available					
Commercial Type N	lumber	NIN-51022-V3	NIN-50022-A3	NIN-50051-A3	
Bosch USPs	Intelligent Dynamic Noise Reduction	1	•	•	
	Intelligent Auto Exposure / Intelligent Defog	<b>-/</b> ■	- / <b>■</b>	-/■	
	starlight (extreme low-light sensitivity)	_	-	-	
	4K ultra HD	-	-	-	
ideo analytics/	Essential Video Analytics	-	-	-	
fideo analytics Essential Video Analytics Intelligent Video Analytics		-	-	-	
Basic features	Maximum resolution	HD 1080p	HD 1080p	5MP	
	Image sensor type	1/2.7"	1/2.7"	1/3"	
	Max. frames per second (fps)	30 fps@ 1080p	30 fps@ 1080p	12 fps@ 5MP	
	Indoor / outdoor / in-vehicle	■/ - /-	■/ - /-	■/ - /-	
	Day / night		•		
	Wide Dynamic Range (WDR)	76dB	76dB	81dB	
	ONVIF conformant		•		
	Built-in microphone	•	•		
	Power over Ethernet (PoE)	•	•	•	
dvanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	
	Privacy masking	•	•		
	Region Of Interest tracking	-	-	-	
Alarm triggering	Tamper detection / Video motion detection	E/E	■/■	■/■	
	Built-in video analytics	-	-	-	
	Audio detection		•		
Sensitivity	Minimum illumination day mode (color)	0.24 lux	0.24 lux	0.35 lux	
	Minimum illumination night mode (black/white)	0.05 lux	0.05 lux	0.05 lux	
	Night vision	-	+	-	
	Max. range at night	<del>-</del>	-	-	
.ens	Automatic Back Focus (ABF)	-	-	-	
	Automatic varifocal	-	•		
	Focal length	3 - 10 mm	3 - 10 mm	3 - 10 mm	
	Horizontal Angle of View (HAoV)	36° - 117°	36° - 117°	27.8° - 86.6°	
OORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	24-118/9-47/5-24/2-12	24-118/9-47/5-24/2-12	55-208/22-83/11-42/5-21	
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)	
	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	1/1	1/1	1/1	
	Audio in / out	=/,± ■/■	■/■	■/■	
	Hybrid* / confrontation monitor		 ■/■	-,- •/•	
lousing	Weather rating	<del>-</del> -	-/ <del>-</del>	_, _ _	
	Vandal resistant	<del>-</del>	_	_	
	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

# Dome Cameras

# ▶FLEXIDOME IP indoor 5000 IR







Commercial Type N	umber	NII-51022-V3	NII-50022-A3	NII-50051-A3
osch USPs	Intelligent Dynamic Noise Reduction		•	
DOSCII OOI S	Intelligent Auto Exposure / Intelligent Defog	-/∎	<b>-/</b> ■	-/∎
	starlight (extreme low-light sensitivity)	-	-	-
	4K ultra HD	-	-	-
ideo analytics	Essential Video Analytics	-	-	-
t the edge	Intelligent Video Analytics	-	-	-
asic features	Maximum resolution	HD 1080p	HD 1080p	5MP
	Image sensor type	1/2.7"	1/2.7"	1/3"
	Max. frames per second (fps)	30 fps@ 1080p	30 fps@ 1080p	12 fps@ 5MP
	Indoor / outdoor / in-vehicle	■/ - /-	■/ - /-	<b>I</b> / - /-
	Day / night			
	Wide Dynamic Range (WDR)	76dB	76dB	81dB
	ONVIF conformant			
	Built-in microphone			
	Power over Ethernet (PoE)			
dvanced features		∎/4 streams	■/4 streams	∎/4 streams
	Privacy masking			
	Region Of Interest tracking	-	-	_
larm triggering	Tamper detection / Video motion detection	■/■	■/■	I/I
00 0	Built-in video analytics	-	_	-
	Audio detection			
ensitivity	Minimum illumination day mode (color)	0.24 lux	0.24 lux	0.35 lux
	Minimum illumination night mode (black/white)	0 lux (IR on)	0 lux (IR on)	0 lux (IR on)
	Night vision	■ (infrared)	■ (infrared)	■ (infrared)
	Max. range at night	15 m (50 ft)	15 m (50 ft)	15 m (50 ft)
ens	Automatic Back Focus (ABF)	-	-	-
	Automatic varifocal	-	•	
	Focal length	3 - 10 mm	3 - 10 mm	3 - 10 mm
		200 1170	200 4470	27.00.00.00
	Horizontal Angle of View (HAoV)	36° - 117°	36° - 117°	27.8° - 86.6°
OORI distances	Detect / Observe / Recognize / Identify	24-118/9-47/5-24/2-12	24-118/9-47/5-24/2-12	55-208/22-83/11-42/5-21
JOH distances	(Distances according to EN-50132-7 standard)	24 110/3 4//3 24/2 12	24 110/3 47/3 24/2 12	33 200/22 03/11 42/3 21
torage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)
	Cloud application storage	Auto or Alarm JPEG Posting,	Auto or Alarm JPEG Posting,	Auto or Alarm JPEG Posting,
		Video Clips or JPEG Exporting	Video Clips or JPEG Exporting	Video Clips or JPEG Exporting
onnections	Alarm input / output	1/1	1/1	1/1
	Audio in / out	<b>1/1</b>	■/■	1/1
	Hybrid* / confrontation monitor	1/1	■/■	1/1
lousing	Weather rating	_	-	<u>-</u>
-	Vandal resistant	_	_	_
	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Dome Cameras

▶FLEXIDOME IP outdoor 5000 HD

▶FLEXIDOME IP outdoor 5000 IR

▶FLEXIDOME IP outdoor 5000 MP

▶FLEXIDOME IP outdoor 5000 IR









Commercial Type N	lumber	NDN-50022-A3	NDI-50022-A3	NDN-50051-A3	NDI-50051-A3
Bosch USPs	Intelligent Dynamic Noise Reduction	•	•	•	
	Intelligent Auto Exposure / Intelligent Defog	<b>-/</b> ■	<b>-/</b> ■	-/■	<b>-/</b> ■
	starlight (extreme low-light sensitivity)	_	-	-	-
	4K ultra HD	_	-	-	-
ideo analytics	Essential Video Analytics	-	-	-	-
t the edge	Intelligent Video Analytics	-	-	-	-
asic features	Maximum resolution	HD 1080p	HD 1080p	5MP	5MP
	Image sensor type	1/2.7"	1/2.7"	1/3"	1/3"
	Max. frames per second (fps)	30 fps@ 1080p	30 fps@ 1080p	12 fps@ 5MP	12 fps@ 5MP
	Indoor / outdoor / in-vehicle	■/■/-	■/■/-	■/■/-	■/■/-
	Day / night				
	Wide Dynamic Range (WDR)	76dB	76dB	81dB	81dB
	ONVIF conformant				
	Built-in microphone	_	_	-	_
	Power over Ethernet (PoE)				•
dvanced features		■/4 streams	■/4 streams	■/4 streams	■/4 streams
	Privacy masking		,	•	•
	Region Of Interest tracking	_	-	_	_
arm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
arm triggering	Built-in video analytics		<b>-</b> , -	_, _ 	<u>-, -</u>
	Audio detection				•
ensitivity	Minimum illumination day mode (color)	0.24 lux	0.24 lux	0.35 lux	0.35 lux
Chartivity	William manimation day mode (color)	0.24 Tux	0.24 Iux	0.55 lux	0.03 lux
	Minimum illumination night mode (black/white)	0.05 lux	0 lux (IR on)	0.05 lux	0 lux (IR on)
	Night vision	_	■ (infrared)	-	■ (infrared)
	Max. range at night	_	15 m (50 ft)	_	15 m (50 ft)
ens	Automatic Back Focus (ABF)	_		_	
	Automatic varifocal				•
	Focal length	3 - 10 mm			
	Horizontal Angle of View (HAoV)	36° - 117°	36° - 117°	27.8° - 86.6°	27.8° - 86.6°
ORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	24-118/9-47/5-24/2-12	24-118/9-47/5-24/2-12	55-208/22-83/11-42/5-21	55-208/22-83/11-42/5-21
torage	Memory card slot	■ (up to 2 TB)			
	Cloud application storage	Auto or Alarm JPEG Posting,			
		Video Clips or JPEG Exporting			
onnections	Alarm input / output	1/1	1/1	1/1	1/1
	Audio in / out	=/=	■/■	■/■	■/■
	Hybrid* / confrontation monitor	1/1	-/■	■/■	■/■
ousing	Weather rating	IP66	IP66	IP66	IP66
ū	Vandal resistant	IK10	IK10	IK10	IK10
	Operating temperature	-40° to 50° C (-22° to 122° F)	-40° to 50° C (-22° to 122° F)	-40° to 50° C (-22° to 122° F)	-40° to 50° C (-22° to 122° F)

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Dome Cameras

►FLEXIDOME IP starlight 6000 VR ►FLEXIDOME IP starlight 7000 VR ►FLEXIDOME IP starlight 7000 VR









■ Available – Not av	railable				
Commercial Type N	lumber	NIN-63013-Axxx	NIN-73013-Axxx	NIN-63023-Axxx	NIN-73023-Axxx
Bosch USPs	intelligent Dynamic Noise Reduction		•	•	•
	intelligent Auto Exposure / Intelligent Defog		•		•
	starlight (extreme low-light sensitivity)		•		•
	4K ultra HD	-	_	_	_
Video analytics	Essential Video Analytics	•	-	•	_
at the edge	Intelligent Video Analysis	-		_	•
Basic features	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)	60fps @ 720p	60fps @ 720p	60fps @ 1.3MP / 1080p	60fps @ 1.3MP / 1080p
	Indoor / outdoor / in-vehicle	■/■/-	■/■/-	■/■/-	■/■/-
	Day / night	•	i	•	
	Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB
	ONVIF conformant	•	•	•	_
	Built-in microphone	_	_	_	_
	Power over Ethernet (PoE)		•	•	
Advanced features	` '	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	Privacy masking	•	,	,	
	Region Of Interest tracking		•	•	•
	Upright video mode				
Alarm triggering	Tamper detection / Video motion detection				
000	Built-in video analytics		•		i
	Audio detection			•	
Sensitivity	Minimum illumination day mode (color)	0.014 lx	0.014 lx	0.014 lx	0.014 lx
	Minimum illumination night mode (black / white)	0.0047 lx	0.0047 lx	0.0047 lx	0.0047 lx
	Night vision	■ (starlight)	■ (starlight)	■ (starlight)	■ (starlight)
	Max. range at night	_ (====================================	_ (	_ (	_ (555.1.6.1.7)
Lens	Automatic Back Focus (ABF)			•	
	Automatic varifocal		•	<u> </u>	-
	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-50132-7 standard)	43-122/17-47/9-24/4-12 (A3xx)	43-122/17-47/9-24/4-12 (A3xx) 144-313/56-122/28-62/14-31 (A10xx)	43-122/17-47/9-24/4-12 (A3xx)	43-122/17-47/9-24/4-12 (A3xx) 144-313/56-122/28-62/14-31 (A10x:
Storage	Memory card slot	■ up to 2 TB	■ up to 2 TB	■ up to 2 TB	■ up to 2 TB
	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* / confrontation 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

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Dome Cameras

▶FLEXIDOME IP starlight 7000 RD

▶FLEXIDOME IP 7000 RD

▶FLEXIDOME IP dynamic 7000 RD







Available - Not av	unubic			
Commercial Type N	lumber	NDN-733Vxx-xx	NDN-832Vxx-xx	NDN-932Vxx-IP
Bosch USPs	Intelligent Dynamic Noise Reduction		•	•
	Intelligent Auto Exposure / Intelligent Defog	■ (IVA models only)/■	■ (IVA models only)/	■/■
	starlight (extreme low-light sensitivity)		-	_
	4K ultra HD	<del>-</del>	-	-
/ideo analytics	Essential Video Analytics	-	-	-
at the edge	Intelligent Video Analytics	■ (depends on model/mode)	■ (depends on model/mode)	•
Basic features	Maximum resolution	HD 720p/1.3 MP (4:3)	HD 1080p	HD 1080p
	Image sensor type	1/3"	1/2.7"	1/3"
	Max. frames per second (fps)	60 fps@ 720p	30 fps@ 1080p	30 fps@ 1080p
	Indoor / outdoor / in-vehicle	<b>I</b> /I/-	■/■/-	■/■/-
	Day / night	•		•
	Wide Dynamic Range (WDR)	84dB (IVA model with IAE + 16dB)	76dB (IVA model with IAE + 16dB)	90dB (with IAE + 16dB)
	ONVIF conformant		•	•
	Built-in microphone	<del>-</del>	-	-
	Power over Ethernet (PoE)		•	•
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	∎/4 streams
Advanced reatures	Privacy masking			
	Region Of Interest tracking		•	
larm triggering	Tamper detection / Video motion detection	1/1	■/■	1/1
00 0	Built-in video analytics	■ (depends on model)	■ (depends on model)	I
	Audio detection		•	1
Sensitivity	Minimum illumination day mode (color)	0.017 lux	0.22 lux	0.25 lux
	Minimum illumination night mode (black/white)	0.0057 lux	0.05 lux	0.08 lux
	Night vision	■ (starlight)	-	-
	Max. range at night	<del>-</del>	-	-
ens	Automatic Back Focus (ABF)			•
	Automatic varifocal	-	-	-
	Focal length	1.8 - 3 mm (V02-xx), 3.8 - 13 mm (V03-xx), 9 - 40 mm (V09-xx)	1.8 - 3 mm (V02-xx), 3.8 - 13 mm (V03-xx), 9 - 40 mm (V09-xx)	1.8 - 3 mm (V02-xx), 3.8 - 13 mm (V03-xx) 9 - 40 mm (V09-xx)
	Horizontal Angle of View (HAoV)	77° - 105° (V02-xx), 21° - 72° (V03-xx), 7.1° - 30° (V09-xx)	87° - 115°(V02-xx), 26° - 87°(V03-xx), 8.5° - 37° (V09-xx)	70°-98°(V02-xx), 19°-63°(V03-xx), 6.2°-26° (V09-xx)
OORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	20-32/8-13/4-6/2-3 (V02-xx) 35-138/14-55/7-28/4-14 (V03-xx) 96-413/38-164/19-83/10-41 (V09-xx)	16-40/6-16/3-8/2-4 (V02-xx) 27-166/11-66/5-33/3-17 (V03-xx) 77-517/30-205/15-103/8-52 (V09-xx)	22-55/9-22/4-11/2-5 (V02-xx) 42-229/17-91/8-46/4-23 (V03-xx) 111-709/44-281/22-142/11-71 (V09-xx)
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)
·	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, Video Clips or JPEG Exporting
Connections	Alarm input / output	2/1	2/1	2/1
	Audio in / out	•	_, _ ■	_, - ■
	Hybrid* / confrontation monitor	-/-	- -/-	
lousing	Weather rating	IP66 & IP67	IP66 & IP67	IP66 & IP67
	Vandal resistant	Exceeding IK10	Exceeding IK10	Exceeding IK10
	Operating temperature	-50° to 50° C (-58° to 122° F)	-50° to 50° C (-58° to 122° F)	-50° to 50° C (-58° to 122° F)

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Dome Cameras

▶FLEXIDOME IP panoramic 5000 MP

►FLEXIDOME IP panoramic 5000 MP ►FLEXIDOME IP panoramic 7000 MP ►FLEXIDOME IP panoramic 7000 IC











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Available - Not available				willier		
Commercial Type N	lumber	NUC-52051-F0	NUC-52051-F0E	NIN-70122-Fx(A)	NFN-70122-Fx(A)	
Bosch USPs	Intelligent Dynamic Noise Reduction	•		•	•	
	Intelligent Auto Exposure / Intelligent Defog	-/■	-/∎	■ (customized region)/	■ (customized region)/	
	intelligent Tracking	-	-		•	
	starlight (extreme low-light sensitivity)	_	-	_	-	
/ideo analytics	Essential Video Analytics	-	-	_	-	
at the edge	Intelligent Video Analytics	-	-	■ (depends on model)	•	
Basic features	Maximum resolution	5MP	5MP	12MP	12MP	
Basic features	Image sensor type	1/3"	1/3"	1/2.3"	1/2.3"	
	Max. frames per second (fps)	15 fps	15 fps	30 fps	30 fps	
	Indoor / outdoor / in-vehicle	■/-/-	■/■/-	■/-/-	■/-/-	
	Day / night	■ (electronic)	■ (electronic)		•	
	Wide Dynamic Range (WDR)	81dB	81dB	92dB (IVA model with IAE + 16dB)	92dB (IVA model with IAE + 16dB)	
	ONVIF conformant					
	Built-in microphone		-		-	
	Power over Ethernet (PoE)					
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams	
	Edge dewarping	-				
	Privacy masking					
	Region Of Interest tracking	-	-			
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	1/1	■/■	
	Built-in video analytics	<u>-</u>	, _	■ (depends on model)	■ (depends on model)	
	Audio detection		_		•	
	PTZ Intelligent Tracking	_	-		•	
Sensitivity	Minimum illumination day mode (color)	0.36 lux	0.36 lux	0.46 lux (F1) 0.55 lux (F0)	0.46 lux (F1) 0.55 lux (F0)	
	Minimum illumination night mode (black/white)	0.12 lux	0.12 lux	0.15 lux (F1) 0.18 lux (F0)	0.15 lux (F1) 0.18 lux (F0)	
	Night vision	-	_	_	_	
	Max. range at night	-	_	_	-	
Lens	Focal length	1.19 mm	1.19 mm	1.6 mm (F1) 2.1 mm (F0)	1.6 mm (F1) 2.1 mm (F0)	
	Horizontal Angle of View (HAoV)	360°	360°	180° (F1) 360° (F0)	180° (F1) 360° (F0)	
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	19/7/4/1	19/7/4/1	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)	
Storage	Memory card slot	■ MicroSD (up to 2 TB)	■ MicroSD (up to 2 TB)	■ MicroSD (up to 2 TB)	■ MicroSD (up to 2 TB)	
otorago	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, Best Face Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Best Fac Detection JPEG posting (IVA models only), Video Clips or JPEG Exporting	
Connections	Alarm input / output	-	=	-	-	
	Audio in / out	-	-	-	-	
	Hybrid* / confrontation monitor	-	_	-	_	
Housing	Weather rating	_	IP66	-	-	
Ü	Vandal resistant	IK4	IK10	IK6	IK6	

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Fixed Cameras



►TINYON IP 2000 WI ►TINYON IP 2000 PIR



#### ■ Available - Not available

Commercial Type N	lumber	NPC-20002-F2	NPC-20012-F2(-W)	NPC-20012-F2WL(-W)	NPC-20012-F2L(-W)
Bosch USPs	Intelligent Dynamic Noise Reduction				•
	Intelligent Auto Exposure / Intelligent Defog	-/-	-/-	-/-	-/-
	starlight (extreme low-light sensitivity)	-	-	-	-
	4K ultra HD	<del>-</del>	-	-	-
Video analytics	Essential Video Analytics	<del>-</del>	-	-	-
at the edge	Intelligent Video Analytics	-	-	-	-
Basic features	Maximum resolution	VGA	HD 720p	HD 720p	HD 720p
	Image sensor type	1/4"	1/4"	1/4"	1/4"
	Max. frames per second (fps)	30 fps@ 480p	30 fps@ 720p	30 fps@ 720p	30 fps@ 720p
	Indoor / outdoor / in-vehicle	■/-/-	■/-/-	■/-/-	■/-/-
	Day / night	■ (electronic)	■ (electronic)	■ (electronic)	■ (electronic)
	Wide Dynamic Range (WDR)	76dB	76dB	76dB	76dB
	ONVIF conformant		•		1
	Built-in microphone	-	•		1
	Power over Ethernet (PoE)	_	•	-	1
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	Privacy masking				1
	Region Of Interest tracking	_	_	_	-
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
	Built-in video analytics	-	-	-	-
	Audio detection	-	•		
	Passive infrared (PIR) motion detection	_	_		1
Sensitivity	Minimum illumination day mode (color)	1 lux	1 lux	1 lux 0 lux (with wLED)	1 lux 0 lux (with wLED)
	Minimum illumination night mode (black/white)	_	_	-	-
	Night vision	-	-	■ (wLED)	■ (wLED)
	Max. range at night	_	_	4 m (13 ft)	4 m (13 ft)
Lens	Automatic Back Focus (ABF)	_	-	-	<u>-</u>
	Automatic varifocal	-	-	-	-
	Focal length	2.5 mm	2.5 mm	2.5 mm	2.5 mm
	Horizontal Angle of View (HAoV)	75°	89°	89°	89°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	16/7/3/2	26/10/5/3	26/10/5/3	26/10/5/3
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	-	■ (up to 2 TB)
-	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	-/-	-/-	■/■	■/■
	Audio in / out	-/-	-/- (built-in loudspeaker)	-/- (built-in loudspeaker)	-/- (built-in loudspeaker)
	Hybrid* / confrontation monitor	-/-	-/-	-/-	-/-
	Wireless (WPS, IEEE 802, 11b/g/n)	<u>-</u>	-		<u>-</u>
Housing	Weather rating	_	-	-	-
Ü	Vandal resistant	_	_	-	-
	Operating temperature	-10° to 45° C (14° to 113° F)	-10° to 50° C (14° to 122° F)	-10° to 40° C (14° to 104° F)	-10° to 45° C (14° to 113° F)

►TINYON IP 2000

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Fixed Cameras

►DINION IP 4000 HD ▶DINION IP 5000 HD ►DINION IP 5000 MP ►DINION IP bullet 4000 HD ▶DINION IP bullet 5000 HD













Commercial Type N	lumber	NBN-40012-xxx	NBN-50022-xxx	NBN-50051-xxx	NTI-40012-A3(S)**	NTI-50022-A3(S)**
Bosch USPs	Intelligent Dynamic Noise Reduction					
	Intelligent Auto Exposure / Intelligent Defog	-/∎	-/∎	-/-	-/∎	-/∎
	starlight (extreme low-light sensitivity)	_	-	_	-	-
	4K ultra HD	_	-	_	-	_
Video analytics	Essential Video Analytics	_	-	-	-	-
at the edge	Intelligent Video Analytics	_	-	_	-	-
Basic features	Maximum resolution	HD 720p/1.3 MP (4:3)	HD 1080p	5MP	HD 720p	HD 1080p
	Image sensor type	1/2.7"	1/2.7"	1/3"	1/2.9"	1/2.9"
	Max. frames per second (fps)	30 fps@ 720p	30 fps@ 1080p	12 fps@ 5MP	30 fps@ 720p	30 fps@ 1080p
	Indoor / outdoor / in-vehicle	■/■ (with housing)/-	■/■ (with housing)/-	■/■ (with housing)/-	■/■/-	■/■/-
	Day / night		•		•	
	Wide Dynamic Range (WDR)	76dB	76dB	81dB	76dB	76dB
	ONVIF conformant		•		•	•
	Built-in microphone		•		-	-
	Power over Ethernet (PoE)		•		•	•
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	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	0.25 lux	0.35 lux	0.07 lux	0.07 lux
	Minimum illumination night mode (black/white)	0.05 lux	0.05 lux	0.05 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 Back Focus (ABF)	_	-	-	-	-
	Automatic varifocal	-	-	-	•	•
	Focal length	3.3 - 12 mm (V3)/CS mount	3.3 - 12 mm (V3)/CS mount	3.3 - 12 mm (V3)/CS mount	2.7 - 12 mm	2.7 - 12 mm
	Horizontal Angle of View (HAoV)	34° - 110° (V3)	34° - 110° (V3)	25° - 82° (V3)	32° - 100°	32° - 100°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	18-84/7-33/4-17/2-8 (V3)	27-125/11-50/5-25/3-13 (V3)	60-234/24-93/12-47/6-23 (V3)	21-89/8-35/4-17/2-9	21-89/8-35/4-17/2-9
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)			
	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 Exportin
Connections	Alarm input / output	1/1	1/1	1/1	1/1	1/1
	Audio in / out	■/■	■/■	■/■	■/■	■/■
	Hybrid* / confrontation monitor	■/■	■/■	■/■	■/■	■/■
Housing	Weather rating	_	_	_	IP66	IP66
	Vandal resistant	-	-	-	IK08	IK08
	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 60° C (-22° to 140° F)	-30° to 60° C (-22° to 140° F)

 $<sup>^\</sup>star$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system  $^{\star\star}$  The NTI-40012-A3S model has a pre-mounted Surface Mount Box

# IP Video Dome Cameras

►DINION IP starlight 6000 HD ►DINION IP starlight 7000 HD ►DINION IP starlight 7000 HD









Commercial Type Number		NBN-63013-B ** NBN-73013-BA **		NBN-63023-B **	NBN-73023-BA **
Bosch USPs	intelligent Dynamic Noise Reduction				
	intelligent Auto Exposure / Intelligent Defog	■/■	■/■	■/■	■/■
	starlight (extreme low-light sensitivity)				
	4K ultra HD	_	-	-	-
Video analytics	Essential Video Analytics		-		-
at the edge	Intelligent Video Analysis	-	•	-	•
Basic features	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)	60fps @ 720p	60fps @ 720p	60fps @ 1.3MP / 1080p	60fps @ 1.3MP / 1080p
	Indoor / outdoor / in-vehicle	■/■(with housing)/-	■/■(with housing)/-	■/■(with housing)/-	■/∎(with housing)/-
	Day / night				
	Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB
	ONVIF conformant				
	Built-in microphone	-	-	-	-
	Power over Ethernet (PoE)		•		•
Advanced features	Compression (H.264 & MJPEG) / multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	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)	0.014 lx	0.014 lx	0.014 lx	0.014 lx
	Minimum illumination night mode (black / white)	0.0047 lx	0.0047 lx	0.0047 lx	0.0047 lx
	Night vision	■ (starlight)	■ (starlight)	■ (starlight)	■ (starlight)
	Max. range at night	-	<del>-</del>	-	-
Lens	Automatic Back Focus (ABF)		•		•
	Automatic varifocal	-	+	-	-
	Focal length	Lenses available separately C/CS mount	Lenses available separately C/CS mount	Lenses available separately C/CS mount	Lenses available separately C/CS mount
		1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm	1.8 - 3 mm, 3.8 - 13 mm, 9 - 40 mm
	Horizontal Angle of View (HAoV)	depending on optional lens			
DORI distances	Detect / Observe / Recognize / Identify (Distances in according to EN-50132-7 standard)	depending on optional lens			
Storage	Memory card slot	■ up to 2 TB			
	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* / confrontation monitor	■/■	■/■	■/■	■/■
Housing	Weather rating	depending on optional housing			
-	Vandal resistant	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)

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system, \*\*Lens not included

Fixed Cameras

►DINION IP starlight 8000 MP

►DINION IP ultra 8000 MP







Commercial Type N	lumber	NBN-80052-BA	NBN-80122-xxx
Bosch USPs	Intelligent Dynamic Noise Reduction		
Doscii ooi s	Intelligent Auto Exposure / Intelligent Defog	1/-	<u>-</u> ■/-
	starlight (extreme low-light sensitivity)	-/	<del>-</del> -
	4K ultra HD	_	•
Video analytics	Essential Video Analytics	_	<u> </u>
at the edge	Intelligent Video Analytics	•	•
Basic features	Maximum resolution	5 MP (16:9)/5.5 MP (4:3)	12 MP (4:3)/UHD (16:9)
Dasic leatures	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 / in-vehicle	■/■ (with housing)/–	20 lps@ 12Mr, 30 lps@ 0HD  ■/■ (with housing)/-
		■/■ (with housing)/-	■/■ (with nousing)/-
	Day / night	07-ID (EMP) /105-ID (1000-) (:th IAE : 10-ID)	024D (
	Wide Dynamic Range (WDR)	97dB (5MP)/105dB (1080p) (with IAE + 16dB)	92dB (with IAE + 16dB)
	ONVIF conformant	<u> </u>	<b>_</b>
	Built-in microphone		<del>-</del>
	Power over Ethernet (PoE)	<b>I</b>	14
Advanced features		∎/4 streams	■/4 streams
	Privacy masking		<u> </u>
	Region Of Interest tracking		<u> </u>
Alarm triggering	Tamper detection / Video motion detection	1/1	■/■
	Built-in video analytics		
	Audio detection		<b>I</b>
Sensitivity	Minimum illumination day mode (color)	0.0121 lux (5 MP) 0.00825 lux (1080p)	0.36 lux (FxA) 0.11 lux (CA)
	Minimum illumination night mode (black/white)	0.004 lux (5 MP) 0.00275 lux (1080p)	0.12 lux (FxA) 0.037 lux (CA)
	Night vision	■ (starlight)	-
	Max. range at night	-	-
Lens	Automatic Back Focus (ABF)		- (FxA)/∎(CA)
	Automatic varifocal	-	-
	Focal length	C/CS mount	3.2 mm (F2A) 5 mm (F6A) C/CS mount (CA) - 35/50/75
	Horizontal Angle of View (HAoV)	Depending on optional lens	71° (F6A) 120° (F2A) C/CS mount (CA) - 35/50/75
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	Depending on optional lens	46/18/9/5 (F2A) 114/45/23/11 (F6A) Depending on optional lens (CA)
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)
	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	<b>1/1</b>	1/1
	Hybrid* / confrontation monitor	1/1	-/-
Housing	Weather rating	-	<u>-</u>
Ü	Vandal resistant	-	-
	Operating temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Specialty Cameras

## ▶DINION IP capture 5000

## ▶DINION IP imager 9000 HD

## ▶FLEXIDOME IP corner 9000 MP





■ Available – Not av	allable				
Commercial Type Number		NER-L2Rx-1	NAI-90022-AAA	NCN-90022-F1	
Bosch USPs	Intelligent Dynamic Noise Reduction	-		•	
	Intelligent Auto Exposure / Intelligent Defog	-/-	■/-	-/-	
	starlight (extreme low-light sensitivity)	-	-	-	
	4K ultra HD	-	-	-	
Video analytics	Essential Video Analytics	-	-	-	
at the edge	Intelligent Video Analytics	-	ı	-	
Basic features	Maximum resolution	576p	HD 1080p	1080p	
	Image sensor type	1/3"	1/2.7"	1/2.7"	
	Max. frames per second (fps)	30 fps@ 576p	30 fps@ 1080p	30 fps@ 1080p	
	Indoor / outdoor / in-vehicle	-/1/-	-/∎/-	■/-/-	
	Day / night	•	ı	•	
	Wide Dynamic Range (WDR)	120dB	76dB (with IAE +16dB)	76dB	
	ONVIF conformant		ı	•	
	Built-in microphone	-	-	-	
	Power over Ethernet (PoE)		■ (HiPoE)	•	
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	∎/4 streams	■/4 streams	■/4 streams	
	Privacy masking	-	ı		
	Region Of Interest tracking	-	1	_	
Alarm triggering	Tamper detection / Video motion detection	1/1	■/■	■/■	
	Built-in video analytics	-	ı	-	
	Audio detection	-	ı		
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)	0 lux (IR on)	
	Night vision	■ (infrared)	■ (infrared)	■ (infrared)	
	Max. range at night	28 m (92 ft)	120 m (394 ft)	9 m (30 ft)	
ens	Automatic Back Focus (ABF)	-	ı	-	
	Automatic varifocal	-	ı	-	
	Focal length	5 - 50 mm varifocal (calibrated to optimal capture distance)	10 - 23 mm	2 mm	
	Horizontal Angle of View (HAoV)	5.3° - 31.9°	14.8° - 34°	121°	
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	-	126-296/50-117/25-59/13-30	20/8/4/2	
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)	
	Cloud application storage	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	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	-/-	■/■	1/1	
	Hybrid* / confrontation monitor	-/-	■/■	-/-	
Housing	Weather rating	IP67	IP66	IP65	
	Vandal resistant	-	IK10	IK10	
	Operating temperature	-40° to 50° C (-40° to 122° F)	-40° to 50° C (-40° to 122° F)	-10° to 50° C (14° to 122° F)	

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Specialty Cameras

►EXTEGRA IP starlight 9000 FX

▶EXTEGRA IP dynamic 9000 FX

**▶**VOT thermal







Commercial Type Number		NXF-9130-xx	NXF-9230-xx	VOT-320-Vxxx	
Bosch USPs	Intelligent Dynamic Noise Reduction			-	
	Intelligent Auto Exposure / Intelligent Defog	-/∎	<b>-/</b> ■	-/-	
	starlight (extreme low-light sensitivity)		-	-	
	4K ultra HD	-	-	-	
/ideo analytics	Essential Video Analytics	-	-	-	
at the edge	Intelligent Video Analytics		•		
Basic features	Maximum resolution	HD 720p	HD 1080p	320 x 240	
	Image sensor type	1/3"	1/2.8"	FPA - Vox	
	Max. frames per second (fps)	60 fps@ 720p	30 fps@ 1080p	8.3 fps@ 240p (-VxxL), 30 fps@ 240p (-VxxH	
	Indoor / outdoor / in-vehicle	-/∎ (ex-proof/corrosive)/-	-/∎ (ex-proof/corrosive)/-	1/1/-	
	Day / night		•	-	
	Wide Dynamic Range (WDR)	90dB	90dB	_	
	ONVIF conformant	1	1		
	Built-in microphone	_	-	_	
	Power over Ethernet (PoE)	■ (HiPoE)	■ (HiPoE)	_	
Advanced features	Compression (H.264 & MJPEG)/multi-streaming		•	■/4 streams	
	Privacy masking		1	_	
	Region Of Interest tracking	_	_	_	
Alarm triggering	Tamper detection / Video motion detection	1/1	■/■	<b>1/1</b>	
	Built-in video analytics				
	Audio detection				
Sensitivity	Minimum illumination day mode (color)	0.052 lux	0.066 lux	-	
	Minimum illumination night mode (black/white)	0.0103 lux	0.033 lux	0 lux	
	Night vision	■ (external EX65 IR)	■ (external EX65 IR)	■ (thermal)	
	Max. range at night	_	-	1450 m (4758 ft)	
ens	Automatic Back Focus (ABF)		1	_	
	Automatic varifocal		1	_	
	Focal length	4.3 - 129 mm	4.3 - 129 mm	9 mm (-V9L, -V9H), 13 mm (-V13L, -V13H), 19 mm (-V19L, -V19H), 60 mm (-V60L, -V60H	
	Horizontal Angle of View (HAoV)	2.1° to 59°	2.3° to 65°	_	
OORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	45-1397/18-554/9-279/5-140	68-2095/27-831/14-419/7-210	Depending on optional lens	
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 32 GB)	
	Cloud application storage	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)	
Connections	Alarm input / output	3/2	3/2	2/2	
	Audio in / out	1/1	1/1	-/-	
	Hybrid* / confrontation monitor	-/-	-/-	-/-	
lousing	Weather rating	IP67	IP67	IP66	
	Vandal resistant	-	-	-	
	Operating temperature	-50° to 60° C (-58° to 140° F) (aluminum) -50° to 55° C (-58° to 131° F) (stainless steel)	-50° to 60° C (-58° to 140° F) (aluminum) -50° to 55° C (-58° to 131° F) (stainless steel)	-50° to 55° C (-58° to 131° F)	

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Moving Cameras

# ►AUTODOME IP 4000 HD

## ►AUTODOME IP 4000 HD





Available - NOL av				
Commercial Type N	lumber	NEZ-4112-XXXW4	NEZ-4212-XXXW4	
Bosch USPs Intelligent Dynamic Noise Reduction		•	•	
	Intelligent Auto Exposure / Intelligent Defog	-/∎	-/∎	
	Intelligent Tracking	-	-	
	starlight (extreme low-light sensitivity)	-	+	
Video analytics	Essential Video Analytics	-	-	
at the edge	Intelligent Video Analytics	-	-	
Basic features	Maximum resolution	HD 720p	HD 1080p	
	Image sensor type	1/2.8" CMOS	1/2.8" CMOS	
	Max. frames per second (fps)	30 fps@ 720p	30 fps@ 1080p	
	Indoor / outdoor / in-vehicle	■/-/-	■/-/-	
	Day / night		1	
	Wide Dynamic Range (WDR)	76dB	76dB	
	ONVIF conformant		1	
	Built-in microphone	-	-	
	Power over Ethernet (PoE)	■ (PoE+)	■ (PoE+)	
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	
	Privacy masking		•	
	Nbr of presets/guard tours	256/2	256/2	
	Wiper	-	-	
Alarm triggering	Tamper detection / Video motion detection	■/■	1/1	
	Built-in video analytics	-	-	
	Audio detection		•	
	PTZ Intelligent Tracking	-	-	
Sensitivity	Minimum illumination day mode (color)	0.17 lux	0.17 lux	
	Minimum illumination night mode (black/white)	0.039 lux	0.039 lux	
	Night vision	-	-	
	Max. range at night	-	-	
_ens	Focal length	5.1 ~ 61.2 mm	5.1 ~ 61.2 mm	
	Horizontal Angle of View (HAoV)	4.64° to 51.3°	4.64° to 51.3°	
	PTZ Zoom optical/digital	12x/16x	12x/16x	
	Tilt angle	-90° to 0°	-90° to 0°	
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	53-632/21-251/11-126/5-63	80-948/32-376/16-190/8-95	
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	
	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	2/1	
	Audio in / out	- - -	1/1	
	Hybrid* / confrontation monitor	-/-	-/-	
Housing	Weather rating	IP65 (pendant)/IP51 (in-ceiling)	IP65 (pendant)/IP51 (in-ceiling)	
Ü	Vandal resistant	IK10	IK10	
	Operating temperature	-10° to 60° C (-14° to 140° F)	-10° to 60° C (-14° to 140° F)	

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Moving Cameras

►AUTODOME IP 5000 HD ►AUTODOME IP 5000 HD

►AUTODOME IP 5000 IR

►AUTODOME IP 5000 IR









Available - Not av	aliable			to a second	TOTAL TOTAL
Commercial Type N	lumber	NEZ 5130-XXXW4	NEZ 5230-XXXW4	NEZ 5130-IRCW4	NEZ 5230-IRCW4
Bosch USPs	Intelligent Dynamic Noise Reduction				•
	Intelligent Auto Exposure / Intelligent Defog	-/■	-/■	<b>-/</b> ■	-/■
	Intelligent Tracking	-	-	-	-
	starlight (extreme low-light sensitivity)	<del>-</del>	-	-	_
/ideo analytics	Essential Video Analytics	-	-	_	-
at the edge	Intelligent Video Analytics	-	-	_	_
Basic features	Maximum resolution	HD 720p	HD 1080p	HD 720p	HD 1080p
	Image sensor type	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
	Max. frames per second (fps)	30 fps@ 720p	30 fps@ 1080p	30 fps@ 720p	30 fps@ 1080p
	Indoor / outdoor / in-vehicle	■/■/-	■/■/-	-/∎/-	-/∎/-
	Day / night		•		•
	Wide Dynamic Range (WDR)	76dB	76dB	76dB	76dB
	ONVIF conformant		•		•
	Built-in microphone	_	_	-	_
	Power over Ethernet (PoE)	■ (PoE+)	■ (PoE+)	■ (PoE+)	■ (PoE+)
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams	■/4 streams
	Privacy masking				
	Nbr of presets/guard tours	256/2	256/2	256/2	256/2
	Wiper	_	_	-	-
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
	Built-in video analytics	_	_	-	_
	Audio detection	1			
	PTZ Intelligent Tracking	_	_	_	_
Sensitivity	Minimum illumination day mode (color)	0.22 lux	0.22 lux	0.11 lux	0.11 lux
•	Minimum illumination night mode (black/white)	0.044 lux	0.044 lux	0 lux (IR on)	0 lux (IR on)
	Night vision	-	-	■ (infrared)	■ (infrared)
	Max. range at night	-	-	180 m (590 ft)	180 m (590 ft)
_ens	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 65°	2.3° to 65°	2.3° to 65°	2.3° to 65°
	PTZ Zoom optical/digital	30x/16x	30x/16x	30x/16x	30x/16x
	Tilt angle	-90° to 0°	-90° to 0°	-90° to 0°	-90° to 0°
OORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	40-1275/16-506/8-255/4-128	60-1913/24-759/12-383/6-191	40-1275/16-506/8-255/4-128	60-1913/24-759/12-383/6-191
Storage	Memory card slot	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)	■ (up to 2 TB)
Ü	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, Vide Clips or JPEG Exporting
Connections	Alarm input / output	2/1	2/1	2/1	2/1
	Audio in / out	=/= ■/■	=, =	=, = =/=	=, -
	Hybrid* / confrontation monitor	-/-	-, - -/-	-/-	-/-
Housing	Weather rating	IP66 (pendant)/IP51 (in-ceiling)	IP66 (pendant)/IP51 (in-ceiling)	IP66	, IP66
	Vandal resistant	IK10	IK10	-	-
	Operating temperature	-40° to 60° C (-40° to 140° 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)

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Moving Cameras

►AUTODOME IP 7000

►AUTODOME IP 7000 HD

►AUTODOME IP starlight 7000 HD

►AUTODOME IP starlight 7000 HD











■ Available – Not ava	ailable				
Commercial Type N	lumber	VG5-7028/7036	VG5-7220	VG5-7130	VG5-7230
Bosch USPs	Intelligent Dynamic Noise Reduction	_	_		
	Intelligent Auto Exposure / Intelligent Defog	-/-	-/-	-/∎	-/∎
	Intelligent Tracking				•
	starlight (extreme low-light sensitivity)	_	_		•
ideo analytics	Essential Video Analytics	_	_	-	_
t the edge	Intelligent Video Analytics		•		
Basic features	Maximum resolution	4CIF	HD 1080p	HD 720p	HD 1080p
	Image sensor type	1/4" CCD	1/2.8"	1/3" CMOS	1/2.8"
	Max. frames per second (fps)	30 fps@ 576p	60 fps@ 720p 30 fps@ 1080p	60 fps@ 720p	60 fps@ 720p 30 fps@ 1080p
	Indoor / outdoor / in-vehicle	■/■/-	■/■/−	■/■/-	■/■/−
	Day / night	•	<u> </u>	i	i
	Wide Dynamic Range (WDR)	92dB	86dB	90dB	120dB
	ONVIF conformant	•	•		•
	Built-in microphone	_	_	_	_
	Power over Ethernet (PoE)	■ (HiPoE)	■ (HiPoE)	■ (HiPoE)	■ (HiPoE)
dvanced features	` '	■/4 streams	■/4 streams	■/4 streams	■/4 streams
aranoou noucunoo	Privacy masking	<b>2</b> , 1 streams	<b>1</b> , 1 ou ou me		<b>1</b> / 1 str string
	Nbr of presets/guard tours	256/2	256/2	256/2	256/2
	Wiper	-	_	_	-
larm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■	■/■
iaiiii tiiggeiiiig	Built-in video analytics	=/- =	-/- -		=/- =
	Audio detection	-	-	:	-
	PTZ Intelligent Tracking	-	-	-	-
ensitivity	Minimum illumination day mode (color)	0.66 lux (36x) 0.33 lux (28x)	0.06 lux	0.052 lux	0.006 lux
ensitivity	Minimum illumination day mode (color)  Minimum illumination night mode (black/white)	0.104 lux (36x) 0.066 lux (28x)	0.033 lux	0.032 lux	0.000 lux
	Night vision	0.104 lux (30x) 0.000 lux (20x)	0.033 lux	■ (starlight)	(starlight)
		_	<del>-</del>	■ (Stariigiit)	■ (Starright)
one	Max. range at night	3.4 - 122.4 mm (x36)	4.0.04 mm	4.3 - 129 mm	- 4.2 120 mm
ens	Focal length	3.5 - 98 mm (x28)	4.9 - 94 mm		4.3 - 129 mm
	Horizontal Angle of View (HAoV)	28x : 2.13 to 54.98 36x : 1.7 to 56.35	3.3 to 59.5	2.3° to 59°	2.3° to 63.7°
	PTZ Zoom optical/digital	36x or 28x/12x	20x/12x	30x/12x	30x/12x
	Tilt angle	-90° to 14° (pendant)	-90° to 14° (pendant)	-90° to 14° (pendant)	-90° to 14° (pendant)
OORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	27-757/11-301/5-151/3-76 (28x) 26-949/10-377/5-190/3-95 (36x)	75-1517/30-602/15-303/8-152	45-1275/18-506/9-255/5-128	62-1913/25-759/12-383/6-19:
torage	Memory card slot	■ (up to 32 GB/2 TB)	■ (up to 32 GB/2 TB)	■ (up to 2 TB)	■ (up to 2 TB)
Ü	Cloud application storage	Auto or Alarm JPEG Posting,	Auto or Alarm JPEG Posting,	Auto or Alarm JPEG Posting,	Auto or Alarm JPEG Posting,
	Cloud application storage	Video Clips or JPEG Exporting	Video Clips or JPEG Exporting	Video Clips or JPEG Exporting	Video Clips or JPEG Exporting
Connections	Alarm input / output	C.	Video Clips or JPEG Exporting 7/4	Video Clips or JPEG Exporting 7/4	Video Clips or JPEG Exporting 7/4
Connections	<u> </u>	Video Clips or JPEG Exporting			
Connections	Alarm input / output	Video Clips or JPEG Exporting 7/4	7/4	7/4	7/4
	Alarm input / output Audio in / out	Video Clips or JPEG Exporting 7/4 ■/■	7/4 ■/■	7/4 ■/■	7/4 ■/■
Connections	Alarm input / output Audio in / out Hybrid* / confrontation monitor	Video Clips or JPEG Exporting 7/4  ■/■  -/-	7/4 ■/■ -/-	7/4 ■/■	■/■ -/-

 $<sup>^{\</sup>star}$  The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system

Moving Cameras

►MIC IP starlight 7000 HD

►MIC IP starlight 7000 HD

## ►MIC 612











Commercial Type N	lumber	MIC-7130-Px4xx	MIC-7230-x5	MIC612 **
Bosch USPs	Intelligent Dynamic Noise Reduction	•	•	-
	Intelligent Auto Exposure / Intelligent Defog	-/■	-/■	-/-
	Intelligent Tracking		•	-
	starlight (extreme low-light sensitivity)	•	•	-
Video analytics	Essential Video Analytics	-	-	-
at the edge	Intelligent Video Analytics		•	
Basic features	Maximum resolution	HD 720p	HD 1080p	550 TVL (optical) 320/640 (thermal)
	Image sensor type	1/3"	1/2.8"	1/4" CCD/FPA
	Max. frames per second (fps)	60 fps@ 720p	60 fps@ 720p 30 fps@1080p	30 fps@ 576p
	Indoor / outdoor / in-vehicle	-/∎/-	-/∎/-	-/=/-
	Day / night	•	•	■ (optical)
	Wide Dynamic Range (WDR)	90dB	120dB@ 30fps 90dB@ 60fps	-
	ONVIF conformant			
	Power over Ethernet (PoE)	■ (HiPoE)	■ (HiPoE)	-
Advanced features	Compression (H.264 & MJPEG)/multi-streaming	■/4 streams	■/4 streams	■/4 streams
	Privacy masking			•
	Nbr of presets/guard tours	256/2	256/2	99/2
	Wiper			
Alarm triggering	Tamper detection / Video motion detection	■/■	■/■	■/■
	Built-in video analytics		•	•
	Audio detection	■ (with VJC-7000-90)	■ (with VJC-7000-90)	-
	PTZ Intelligent Tracking	•	•	-
Sensitivity	Minimum illumination day mode (color)	0.052 lux	0.006 lux	0.66 lux (optical) N.A. (thermal)
	Minimum illumination night mode (black/white)	0.0103 lux	0.0009 lux	0.104 lux (optical) 0 lux (thermal)
	Night vision	■ (optional illuminator)	■ (optional illuminator)	■ (thermal)
	Max. range at night	175 m (575 ft)	300 m (971 ft)	1500 m (4922 ft)
Lens	Focal length	4.3 - 129 mm	4.3 - 129 mm	3.4 - 122.4 mm (optical), 35 mm (thermal T models 50 mm (thermal H models)
	Horizontal Angle of View (HAoV)	2.1° to 58.3°	2.3° to 63.7°	1.7° to 57.8°
	PTZ Zoom optical/digital	30x/12x	30x/12x	36x/12x
	Tilt angle	-58° to 90° (upright), -90° to 90° (canted)	-58° to 90° (upright), -90° to 90° (canted)	-58° to 90°
DORI distances	Detect / Observe / Recognize / Identify (Distances according to EN-50132-7 standard)	45-1396/18-554/9-279/4-139	62-1913/25-759/12-383/6-191	26-949/10-377/5-190/3-95 (optical)
Storage	Memory card slot	■ (up to 32 GB) (with VJC-7000-90)	■ (up to 32 GB) (with VJC-7000-90)	■ (up to 32 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
Connections	Alarm input / output	5/3 (with MIC-ALM-WAS-24)	5/3 (with MIC-ALM-WAS-24)	8/2 (optional card)
	Audio in / out	■/■ (with VJC-7000-90)	■/■ (with VJC-7000-90)	■/■
	Hybrid* / confrontation monitor	■ (with external decoder)/-	■ (with external decoder)/-	■/-
Housing	Weather rating	IP68	IP68	IP68
	Vandal resistant	IK10	IK10	IK10
	Operating temperature	-40° to 60° C (-40° to 140° F)	-40° to 60° C (-40° to 140° F)	-40° to 60° C (-40° F to 140° F)

<sup>\*</sup> The hybrid functionality offers an easy migration path from legacy CCTV to a modern IP-based system \*\* IP features are possible when using optional MIC-IP-PSU Power Supply

# IP Video Digital Recording

All-in-one solution ▶DIVAR IP 3000

## ►DIVAR IP 7000 2U

►DIVAR IP 7000 3U







#### ■ Available - Not available

Commercial Type Number		DIP-304x-xxx	DIP-718x-xxx	DIP-71Fx-xxx
Basic functions	Max. system size	32	128	128
	Integrated video management		•	•
	RAID Level	-	RAID-5, RAID-6	RAID-5, RAID-6
	Supported resolutions	CIF/2CIF/4CIF/720p/1080p/5MP	CIF/2CIF/4CIF/720p/1080p/5MP/UHD	CIF/2CIF/4CIF/720p/1080p/5MP/UHD
	Video compression	H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, 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)	1x Gigabit Ethernet	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)
	USB ports	4x USB 2.0/1x USB 3.0	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 DVI, 1 VGA	4x mini-DP (one mini-DP to VGA adapter included)	4x mini-DP (one mini-DP to VGA adapter included)
	Spotmonitor	1 per IP decoder, 2nd video output (VGA)	3x via local mini-DP, 1 per IP decoder	3x via local mini-DP, 1 per IP decoder
Audio	In/out channels	32 (audio playback via remote station only)	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	2 TB	3 or 4 TB	3 or 4 TB
	Base system capacity TB	0, 4 or 8 TB	0, 12, 16, 24 or 32 TB	0, 48 or 64 TB
	Max. Base system capacity TB	8 TB	32 TB	64 TB
	Full system capacity TB	24 TB	288 TB	320 TB
	Extenable/external support	iSCSI	iSCSI	iSCSI
Storage extentions	Max. number of units	2x DIVAR IP 2000 or DIVAR IP 5000	4x DIVAR IP 6000	4x DIVAR IP 6000
	Maximum drives supported	4	4, 6 or 8	16
	Available capacities per drive	2 TB	3 or 4 TB	3 or 4 TB
	Hot swappable	<del>-</del>	•	•
xport/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

Table continued on the next page

# IP Video Digital Recording

All-in-one solution
►DIVAR IP 3000

►DIVAR IP 7000 2U

▶DIVAR IP 7000 3U







Commercial Type Number		DIP-304x-xxx	DIP-718x-xxx	DIP-71Fx-xxx
Redundancy	Power suply 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
Advanced features support	Forensic search support (metadata)		ı	•
	Webclient			•
Supported software	Bosch Video Client	■ (v1.5 or newer)	■ (v1.5 or newer)	■ (v1.5 or newer)
	Bosch Video Management System	■ (v4.50 or newer)	■ (v6.0 or newer)	■ (v6.0 or newer)
	3rd Party software	-	_	-
3rd party integration tools	Optional ATM/POS integration			•
	SDK (IPP)			•

<sup>\*\*</sup> Not all models are available in all regions, please check with your local sales representive

# **IP Video**Digital Storage

Network Video Recorder ▶DIVAR IP 5000

►DIVAR IP 6000 2U

►DIVAR IP 6000 3U

▶DSA E-Series









■ Available - Not available

<b>Commercial Type Number</b>		DIP-504xxx-xxx	DIP-618x-xxx	DIP-61Fx-xxx	DSA-Nxxxxx-xxxx
Basic functions	Max. system size	32	128	128	600
	Integrated video management	_	_	_	_
	RAID Level	RAID-1	RAID-5, RAID 6	RAID-5	RAID-5/RAID-6
	Supported resolutions	CIF/2CIF/4CIF/720p/1080p/5MP	CIF/2CIF/4CIF/720p/1080p/5MP/UHD	CIF/2CIF/4CIF/720p/1080p/5MP/UHD	CIF/2CIF/4CIF/720p/1080p/5MP
	Video compression	H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, MPEG-4, ONVIF, RTSP, JPE
	Transcoding		•	•	_
	ONVIF				•
Mechanical	Form factor	4-bay Mini-Tower	2U 19-inch Rack Mount	3U 19-inch Rack Mount	2U 19-inch Rack Mount
	Network connections (LAN)	2x Gigabit Ethernet	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)	2x Gigabit Ethernet, 1x 100Mbit (Mgmt)	2x Gigabit Ethernet/ 2x 10 Gigabit Ethernet
	USB ports	4x USB 3.0	4x USB 2.0, 2x USB 3.0	4x USB 2.0, 2x USB 3.0	_
	Number of power supplies	1	2	2	2
	Power supplies hot swappable	_			•
Video output	Connector type	_	VGA	VGA	_
	Spotmonitor	_	1 per IP decoder	1 per IP decoder	_
Audio	In/out channels	32 (audio playback via remote station only)	128 (audio playback via remote station only)	128 (audio playback via remote station only)	800 (audio playback via remote station only)
	Compression type	G.726	G.726	G.726	G.726
	Synchronous audio				•
	Associate multiple cameras to 1 Audio				
Recording	Video Recording Manager (VRM)		■ (VRM ready)	■ (VRM ready)	_
	Schedule recording modes	•	•		•
Storage options	Max. drives supported	4	8	16	12
	Available capacities per drive	2 or 4 TB	3 or 4 TB	3 or 4 TB	2, 3, 4 or 6 TB
	Base system capacity TB	0, 4, 8 or 16 TB	0, 12, 16, 24 or 32 TB	0, 48 or 64 TB	_
	Max. Base system capacity TB	16 TB	32 TB	64 TB	24/36/48/72 TB
	Full system capacity TB	16 TB	224 TB	256 TB	384/768/1162 TB **
	Extenable/external support	iSCSI	iSCSI	iSCSI	6Gb/s SAS (Copper)
Storage extentions	Max. number of units	-	4x DIVAR IP 6000 2U or 3x DIVAR IP 6000 3u	4x DIVAR IP 6000 2U or 3x DIVAR IP 6000 3u	7/3 **
	Maximum drives supported	_	4, 6 or 8	16	12/60 **
	Available capacities per drive	_	3 or 4 TB	3 or 4 TB	2, 3, 4 or 6 TB **
	Hot swappable	_	•		•
xport/back-up of data	Data format	MP4	WMF, Bosch ASF	WMF, Bosch ASF	WMF, Bosch ASF
	Built-in DVD writer	_			_
	Supported devices	Web download, FTP, Dropbox	USB 2.0, USB 3.0, iSCSI	USB 2.0, USB 3.0, iSCSI t	External CD/DVD Writer, USB 2.0, iSCSI
	Back-up mode	manual	manual	manual	manual or automatic
Redundancy	Power suply redundancy	_		•	•
	Hot swappable HDD	_			

# IP Video Digital Storage

# Network Video Recorder ▶DIVAR IP 5000 ▶DIVAR IP 6000 2U ▶DIVAR IP 6000 3U ▶DSA E-Series









Commercial Type Number		DIP-504x-xxx	DIP-618x-xxx	DIP-61Fx-xxx	DSA-Nxxxxx-xxxx
Software options	PTZ control	o *	o *	o *	_
	CCTV keyboard support	o *	o *	o *	_
	Admin control	o *	o *	o *	_
	Export options	o *	o *	o *	_
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	2x 10 Gigabit Ethernet
	Web browser access	•			_
	Simultaneous accessible users	5	5	5	_
Advanced features support	Forensic search support (metadata)	•	•		_
	Webclient	•	-	-	SANtricity
Supported software	Bosch Video Client	•			_
	Bosch Video Management Systeem	■ (v2.20 or newer)	■ (v6.0 or newer)	■ (v6.0 or newer)	_
	3rd Party software	via RTSP	-	_	_
3rd party integration tools	Optional ATM/POS integration	_	-	_	_
	SDK (IPP)	•	-	_	_

o \* Via Bosch video software

<sup>\*\*</sup> Up to three high-density shelf expansion units (60 x 6 TB HDD per expension shelf) to one Dual controller base unit may be connected - CTN:DSA-N2C7X6-12AT

# Video Software

## ▶Video Management System





#### ■ Available - Not available

aliable – Not av	Adiable		
ommercial Type Number		BVMS (v6.0) Lite	BVMS (v6.0) Pro
	Channel Count	32 to 64	8 to 200,000
	System Architecture Support	Standalone to Client Server	Client Server (one server/2000 cameras) Multi Server (up to 30 servers/10,000 cameras) Multi-System (unlimited servers/cameras)
	Full VMS	Full VMS	Full VMS
	Software based Video IP Platform		
	ONVIF for 3rd Party Camera Intergration	1	
	Multi-site Support (independent systems tied together)	•	•
	Multi-site Support (dispersed system recording, cameras, remote independent client)	•	•
	Mobile Clients	<ul> <li>MVS license required: 1 license provides up to 20 connections.</li> <li>Multiple servers with MVS</li> </ul>	MVS license required: 1 license provides up to 20 connections. Multiple servers with MVS per site
	Workstations/Clients	2 clients for 32, 4 clients for 64	100 (Client-Server and Multi-Server), Unlimited (Multi-System)
	LDAP	•	
	COTS (Commercial off the Shelf) for Server/Workstation	•	•
solution	HD-ready	•	
	SD and HD		
	SD and HD Decoder support		
	Monitor Wall Client GUI Support		
	4K ultra HD support		
oding	H.264		
	MPEG-4	■ (via BRS only)	■ (via BRS only)
	3rd party camera support	■ ONVIF 1.02/Profile-S/RTSP and MJPEG	■ ONVIF 1.02/Profile-S/RTSP and MJPEG
isplay	Multi-monitor support	<b>(</b> 4)	<b>(</b> 4)
	Workstation OS support	Win7, SP1, Win8.1	Win7, SP1, Win8.1
	16:9 Monitor support		
	Mapping		ı
	Dynamic cameo scaling	-	-
	Client dewarping	ı	

Table continued on the next page

# Video Software

## ▶Video Management System





Commercial Type Nu	mher	BVMS (v6.0) Lite	BVMS (v6.0) Pro
Alarm Management	User management	DVING (VO.O) Lite	DVIII3 (10.0) 1 10
Alarm Management	Digital I/O alarms	•	•
	System event alarms		1
	Motion alarms		
	Event response and command scripts		•
	IVA alarms		1
	IVA forensic search	•	1
	Audio		•
	Compound events	<u>-</u>	<u> </u>
		<del>-</del>	-
	Scheduled dependent alarming	<u> </u>	
	Event allocation to user groups	l .	ı
Control	AUTODOME Intelligent Tracking	<u> </u>	I .
	PTZ	<u> </u>	ı
	IntuiKey	1	1
	Virtual matrix	1	1
Storage	@edge camera support	I .	I .
	iSCSI	I	I
	NVR support	■ (BRS)	■ (BRS)
	VRM	1	1
	IVA metadata	1	1
	Support redundant storage	<del>-</del>	1
	DLA Support (Maximum count of VRM servers)	■ (5)	■ (125)
Integration	BVMS	-	_
	BRS	<u>I</u>	<u> </u>
	DxR 400/600/700	<u>.</u>	
	BVC	-	_
	Bosch intrusion panel	■ (GV4 and B-series)	■ (GV4 and B-series)
	Access	_	_
	OPC	1	
	CLI/CCL	1	
	ATM/POS	ı	
	BIS	ı	
	Script control for all system functions	ı	
	SDK integration into 3rd party SW		
	Virtual inputs		
	Barco Transform N series	1	ı
Networking	LAN/intranet	1	
	WAN	ı	
	Remote/Decoupled Client	1	
	Mobile Viewing APP	■ (iOS only)	■ (iOS only)
	Web Client	1	

Viewing Software

#### ▶Video Security App

## ▶Video security client

## ▶Advanced Viewing Client







Available – Not ava			88	
ommercial Type Nu				BVC (v1.7)/Rec@edge
	No. of channels	16	Up to 16	32 per site
	Usage situation	Mobile usage	Stationairy and hybrid	Standalone
	Workstation OS support	iOS, Android	Win7, Win8	XP, Vista, Win7,SP1
	Software based Video IP Platform			•
	Multi-site Support (independent systems tied together)	_	-	-
	Multi-site Support (dispersed system recording, cameras, remote independent client)	_	-	-
ey technologies	Dynamic Transcoding	•		
pported	IVA	1	•	
	Client side dewarping (panoramic)	- (planned mid 2015)	•	
	4K ultra HD		•	
	starlight			
ncoding	H.264	•		
	MPEG-4	- I		1
	3rd party camera support	■ (with VSG)	■ (with VSG)	ONVIF 1.02/Profile-S with DIVAR IP
iewing	Multi-monitor support	_	_	<b>(2)</b>
0	Workstation OS support	iOS	Win7, Win8	XP, Vista, Win7,SP1
	16:9 monitor support	n/a	· · · · · · · · · · · · · · · · · · ·	
	Viewing frequency	, _	_	_
	Dynamic cameo scaling			
larm Management		_	_	_
.a managomoni	Digital I/O alarms	_	_	
	System event alarms	_	_	
	Motion alarms	_	_	
	Event response and command scripts	_	_	_
	IVA alarms	_	_	
	IVA forensic search	■ (limited functionality)	■ (limited functionality)	
	Audio	_		
	Compound events	_	<del>-</del>	_
	Scheduled dependent alarming	_	_	_
	Event allocation to user groups	_	_	_
Control	AUTODOME Intelligent Tracking	•	•	
Oncion	PTZ	•	<u>-</u>	<u> </u>
	IntuiKey	<del>-</del>	<del>-</del>	■ (limited functionality)
	Virtual matrix	_		_ (mined functionality)
torage	@edge camera support	•	•	
ioi age	iSCSI	-		i
	NVR support	<del>-</del>		<del>-</del>
	VRM	•	•	■ (via DIVAR IP)
	IVA metadata	•		= (via 510 ii 111)
	Support redundant storage	<del>-</del>		<u>-</u>
	DLA Support (VRM Mode)	•	•	<b>I</b> (1)
atogration	BRS	_	<u>-</u>	_ (1)
	DxR 400/600/700	_	_	•

**Encoders and Decoders** 

Encoders ►VIP X1XF E

►VIP X1XF ▶VIDEOJET X20 XF E ▶VIDEOJET X40 XF E

▶VIDEOJET multi 4000

Decoders

►VIDEOJET decoder 3000 ►VIDEOJET decoder 8000















■ Available - Not available

■ Available - Not available

Commercial T	ype Number	VIP-X1XF-E	VIP-X1XF	VJT-X20XF-E	VJT-X40XF-E	VJM-4016	VJD-3000	VJD-8000
	Description	Single Channel Video Encoder	Single Channel Premium Encoder	2 Channel H.264 Video Encoder	4 Channel H.264 Video Encoder	16 Channel H.264 Video Encoder	Single/Quad-stream Decoder	4K UHD and MP Video Decoder
Video/Audio	Camera Inputs	1	1	2	4	16	_	-
	Monitor Outputs	_	-	_	-	-	1 of 2 (HDMI, CVBS)	2 (mini DP)
	Video Codec	H.264	H.264	H.264 MP H.264 BP	H.264 MP H.264 BP	H.264 High Profile	H.264 M-JPEG, JPEG	H.264, MPEG-4
	Max. frames per second (fps)	25/30@4CIF	25/30@4CIF	25/30	25/30	25/30@4CIF	30@1080p (single view) 60@720p (single view) 4x 25/30@4CIF (quad view)	2x 20@12MP 2x 30@4K 4x 60@1080p 6x 30@1080p 8x 60@720p
	Audio in / out	1/1	1/1	2/1	2/1	2/1	1/1	0/1 (via DP)
	Transcoding at the edge	_	-	•		_	_	-
Storage	Туре	SD Card	SD Card	CF	CF	_	_	-
	Capacity	2 TB	2 TB	2 TB	2 TB	_	_	-
Intelligence	Direct-to-iSCSI		•	•		•	_	-
	Video Analytics	Motion+	IVA	Motion+	Motion+	Motion+	_	-
Interfaces	Alarm In	1	2	4	4	4	4	-
	Relay Out	1	2	1	1	1	1	-
	ONVIF conformant		•	•			_	-
Other	Keyboard	_	_	_	_	_		-
	IP Matrix	_	_	-	_	_	•	-

#### ▶ Modular Systems









Commercial Type Number	VIP X1600-B	VIP X1600-XFB
Description	Base System	Base System
Bays	4	4
Ethernet	Two 1 Gbps ports (1 front, 1 rear)	Three 1 Gbps ports (2 front, 1 rear)
SFP Fiber Slot	_	•

Commercial Type Number		VIP X1600 XFM4A	VIP X1600 XFM4B	
	Description	4 Channel H.264 Encoder Module	4 Channel H.264 Encoder Module with Bilinx	
Video/Audio	Camera Inputs	4	4	
	Video Codec	H.264 MP H.264 BP+ M-JPEG	H.264 MP H.264 BP+ M-JPEG	
	Max. frames per second (fps)	25/30@4CIF	25/30@4CIF	
	Audio in / out	2/1	2/1	
Intelligence	Direct-to-iSCSI			
	Video Analytics	IVA	IVA	
Interfaces	Alarm In	4	4	
	Relay Out	1	1	
	SFP Fiber Slot			
	ONVIF conformant			

IP Video Transcoders

Transcoders
►VIDEOJET XTC XF

Transcoder/network & alarm interface device ▶VIDEOJET connect 7000





<b>Commercial Ty</b>	rpe Number	VJT-XTCXF	VJC-7000-90
	Description	4 Channel/Dual-stream Transcoder	5 Channel network switch/Single-stream Transcoder
Video/Audio	Camera Inputs	4	4
	Video Codec	H.264 High Profile	H.264 High Profile
	Max. frames per second (fps)	25/30@4CIF	25/30@4CIF
	Audio in / out	-	1/-
	Transcoding at the edge		
Storage	Туре	CF	CF
	Capacity	2 TB	2 TB
Intelligence	Direct-to-iSCSI	-	_
	Video Analytics	-	_
Interfaces	Alarm In	4	4 dry contacts, 2 monitored tamper alarm (With MIC IP 7000)
	Alarm Out	1	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	-	1

Flat Panel Monitors

## ▶ High Definition















Commercial Type Nu	mber	UML-193-90	UML-223-90	UML-273-90	UML-323-90	UML-423-90	UML-463-90	UML-553-90
Display	Туре	19" LED	22" LED	27" LED	32" LED	42" LED	46" LED	55" LED
	Max Pixel Resolution	1366 x 768	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	Horizontal Resolution	650 TVL	650 TVL	650 TVL	650 TVL	650 TVL	650 TVL	650 TVL
	Aspect Ratio	16:9	16:9	16:9	16:9	16:9	16:9	16:9
	Brightness (cd/m²)	250	250	300	350	500	450	450
	Contrast Ratio	1000:1	1000:1	3000:1	3000:1	4000:1	3500:1	4000:1
	Backlight	30,000 hours	30,000 hours	30,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours
	Viewing Angle (HxV)	170° x 160°	170° x 160°	178° x 178°				
Composite Video/Auc	lio Loop-through	passive	passive	passive	passive	passive	passive	passive
PC Compatible			•					•
Connectors	Composite Video (BNC)	_	-	2 (looping video)				
	VGA		•				•	
	DVI-D	•			1			
	HDMI		•				•	
Audio	Input		•				•	
	Speaker	•					•	•
Mechanical	Width	448 mm	515 mm	642 mm	745 mm	977 mm	1024 mm	1256 mm
	Height	332 mm*	370 mm*	380 mm	440 mm	570 mm	578 mm	727 mm
	Depth	182 mm*	182 mm*	76 mm	77 mm	83 mm	112 mm	83 mm
	Weight	3.0 kg	3.6 kg	9.1 kg	12.5 kg	20 kg	25 kg	32 kg
Power	Power Supply	integrated	integrated	included	integrated	integrated	integrated	integrated
	Power Consumption	42W	42W	75W	75W	150W	149 w	170W
Misc.	Picture-in-picture	-	-	-	-	-	-	-
	Front Panel Lockout		•		1			
	IR Remote	-	-	-				•
Cables Included	VGA-to-VGA	•			1			
	DVI-to-DVI	•	•		1			
Mounting	VESA Compliant							•
	Rack-mountable	-	-	-	-	-	-	-
	Table Stand	included	included	included	UMM-LED32-SD	UMM-LED42-SD	UMM-LED46-SD	UMM-LED42-SD
	Fixed Wall Mount	_	-	-	-	ST650	ST650	ST650
	Swivel/Tilt Wall Mount	_	_	UMM-WMT-32	UMM-WMT-32	_		_

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