

IP Video Solutions

Product overview



BOSCH
Invented for life



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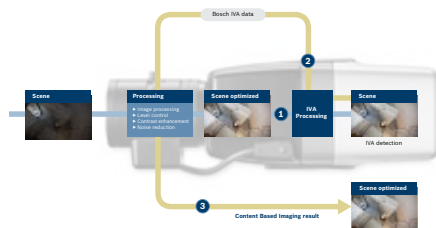
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IP Video Solutions

Product overview

Bosch has perfected the study of Imageology—the science of surveillance. The result is a complete range of professional IP security products that provide comprehensive integration and exceptional image quality for every application, every environment.

Content Based Imaging Technology



New HD camera generation features this Content Based Imaging— for detecting objects of importance and then tracking their movements. With models optimized for extreme low light or high dynamic range, this portfolio is the solution of choice everywhere that HD surveillance is required under challenging lighting conditions.

State-of-the-art Intelligent Video Analysis (IVA) software from Bosch is used in most of the new DINION and FLEXIDOME cameras to detect objects of importance and track their movements. These IVA-enabled HD and HDR cameras use Content Based Imaging Technology (CBIT) to optimize a dynamic image based upon meta data generated by the IVA. The scene analysis data from the IVA module tunes the image processing pipeline on-the-fly.

HD Security Breakthrough. Anywhere. Everywhere



A new generation of video surveillance technology and solutions from Bosch guarantees better operational awareness through access to high-quality HD video images:

- Anywhere— Through the bandwidth barrier
- Everywhere— With Breakthrough imaging

View high quality HD video despite low or limited bandwidth connections. Dynamic Transcoding technology ensures you can view your video immediately -- anytime, anywhere.

Get the important details by overcoming image quality compromised by challenging lighting conditions. With Content Based Imaging, the information you need is targeted and optimized so you don't miss a detail.

Integration Partner Program



Bosch IP standard- and high-definition cameras, encoders and analytics work seamlessly with a wide range of security software and recording solutions from Bosch and other industry providers.

Through ONVIF conformance, the open availability of Bosch video software development kits and a team dedicated to special integration and support projects, it is easy to manage Bosch video products within your system design.

Visit ipp.boschsecurity.com for details on the Bosch Integration Partner Program

IP Video Solutions

Dome Cameras

Advantage Line

► FLEXIDOME micro 2000

► IP 200



	NUC-20002-F2	NUC-20012-F2	NDC-274-P	NDC-274-Px	NDC-284-PT
Camera Type	Compact and stylish indoor IP microdome camera	Compact and stylish indoor HD microdome camera	Compact and stylish indoor HD microdome camera	Compact and stylish outdoor (PT) or in-vehicle mount (PM) HD microdome camera	Compact and stylish outdoor MP microdome camera
Maximum Resolution	480p	720p	1080p	1080p	5 MP
Image Sensor Type	1/4" CMOS	1/4" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Day / Night	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)
IR Sensitive	–	–	–	–	–
Minimum Illumination [day mode]	0.1 lux	0.1 lux	0.3 lux	0.3 lux	0.3 lux
Minimum Illumination [night mode]	–	–	–	–	–
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / –	■ / –	■ / –	■ / –	■ / –
intelligent Dynamic Noise Reduction [iDNR]	■	■	–	–	–
intelligent Auto Exposure [iAE]	–	–	–	–	–
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	■	■	■	–	–
Intelligent Video Analysis [IVA]	–	–	–	–	–
Privacy Masking	■	■	■	■	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	–	–	■	■	■
Region Of Interest Tracking	–	–	–	–	–
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	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
Cloud firmware update	■	■	■	■	■
Lens	2.5 mm	2.5 mm	4.37 mm	4.37 mm	3.74 mm
Motorized Back Focus	–	–	–	–	–
Motorized Varifocal	–	–	–	–	–
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@480p	30 ips@720p	30 ips@1080p	30 ips@1080p	12 ips@5MP
Build in Microphone	■	■	■	–	–
Build in loudspeaker	–	–	–	–	–
Audio Line In / Out	– / –	– / –	– / –	– / –	– / –
Alarm Input / Output	– / –	– / –	– / –	– / –	– / –
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■	■
Max. Power Consumption	2.80W	3.84W	3.84W	3.84W	3.84W
Vandal Resistant	–	–	–	IK8	IK8
All-weather Rating [outdoor]	–	–	–	IP66	IP66
Operating Temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-30° to 50° C (-22° to 122° F)
Integrated Infrared	–	–	–	–	–
Night Vision Maximum Range	–	–	–	–	–
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Dome Cameras

►FLEXIDOME micro 5000

Advantage Line

►IP 200



	NUC-50022-Fxx	NUC-50051-Fxx	NDC-225-P	NDC-225-PI	NDC-255-P
Camera Type	Compact and stylish outdoor (Fx) or in-vehicle mount (F2M) HD microdome camera	Compact and stylish outdoor (Fx) or in-vehicle mount (F2M) MP microdome camera	indoor IP dome camera	indoor IP dome camera with Built-in IR illuminator and varifocal lens	indoor IP dome camera with varifocal lens
Maximum Resolution	1080p	5 MP	480p	480p	480p
Image Sensor Type	1/2.7" CMOS	1/3.2" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS
Day / Night	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)
IR Sensitive	–	–	–	■	–
Minimum Illumination [day mode]	0.1 lux	0.1 lux	1.0 lux	1.0 lux	1.0 lux
Minimum Illumination [night mode]	–	–	–	0 lux	–
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / –	■ / –	– / –	– / –	– / –
intelligent Dynamic Noise Reduction [iDNR]	■	■	–	–	–
intelligent Auto Exposure [iAE]	–	–	–	–	–
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	–	–	■	■	■
Intelligent Video Analysis [IVA]	–	–	–	–	–
Privacy Masking	■	■	–	–	–
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	■	■	–	–	–
Region Of Interest Tracking	–	–	–	–	–
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDHC Card Up to 32 GB	microSDHC Card Up to 32 GB	microSDHC Card Up to 32 GB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	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 (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)
Cloud firmware update	■	■	–	–	–
Lens	4.37 mm (F4) 2.5 mm (F2/F2M)	3.74 mm (F4) 2.5 mm (F2/F2M))	4 mm	4 mm	2.8- 10 mm
Motorized Back Focus	–	–	–	–	–
Motorized Varifocal	–	–	–	–	–
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@1080p	12 ips@5MP	30 ips@480p	30 ips@480p	30 ips@480p
Build in Microphone	–	–	■	■	■
Build in loudspeaker	–	–	–	–	–
Audio Line In / Out	– / –	– / –	■ / ■	■ / ■	■ / ■
Alarm Input / Output	– / –	– / –	1 / 1	1 / 1	1 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■	■
Max. Power Consumption	3.84W	3.84W	4.1W	6.6W	4.1W
Vandal Resistant	IK8	IK8	–	–	–
All-weather Rating [outdoor]	IP66	IP66	–	–	–
Operating Temperature	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)	-10° to 50° C (14° to 122° F)	-10° to 45° C (14° to 113° F)	-10° to 50° C (14° to 122° F)
Integrated Infrared	–	–	–	–	–
Night Vision Maximum Range	–	–	–	–	–
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Dome Cameras

	Advantage Line ►IP 200 ►FLEXIDOME indoor 5000			Advantage Line ►IP 200	
					
	NDC-265-P	NIN-50022-V3	NIN-50051-V3	NII-50022-V3	NDN-265-PIO
Camera Type	indoor HD dome camera with varifocal lens	indoor HD dome camera with varifocal lens	indoor MP dome camera with varifocal lens	indoor HD dome camera with Built-in IR illuminator and varifocal lens	Outdoor HD dome camera with Built-in IR illuminator and varifocal lens
Maximum Resolution	720p	1080p	5 MP	1080p	720p
Image Sensor Type	1/4" CMOS	1/2.7" CMOS	1/3.2" CMOS	1/2.7" CMOS	1/4" CMOS
Day / Night	■ (Electronic)	■	■	■	■
IR Sensitive	–	■	■	■	■
Minimum Illumination [day mode]	1 lux	0.3 lux	0.3 lux	0.3 lux	0.3 lux
Minimum Illumination [night mode]	–	0.1 lux	0.1 lux	0 lux	0 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / –	■ / –	■ / –	■ / –	■ / –
intelligent Dynamic Noise Reduction [iDNR]	–	■	■	■	–
intelligent Auto Exposure [iAE]	–	–	–	–	–
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	■	■	■	■	■
Intelligent Video Analysis [IVA]	–	–	–	–	–
Privacy Masking	–	■	■	■	–
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	–	■	■	■	–
Region Of Interest Tracking	–	–	–	–	–
SD Card Slot	microSDHC Card Up to 32 GB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDHC Card Up to 32 GB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	Auto or Alarm JPEG Posting (FTP only)	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 (FTP only)
Cloud firmware update	–	■	■	■	–
Lens	2.7 - 9 mm	3 - 10 mm	3 - 10 mm	3 - 10 mm	2.7 - 9 mm
Motorized Back Focus	–	–	–	–	–
Motorized Varifocal	–	–	–	–	–
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@720p	30 ips@1080p	12 ips@5MP	30 ips@1080p	30 ips@720p
Build in Microphone	■	■	■	■	–
Build in loudspeaker	–	–	–	–	–
Audio Line In / Out	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
Alarm Input / Output	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■	■
Max. Power Consumption	4.2W	3.84W	3.84W	5.4W	6.72W
Vandal Resistant	–	–	–	–	IK10
All-weather Rating [outdoor]	–	–	–	–	IP 66
Operating Temperature	-10° to 50° C (14° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)
Integrated Infrared	–	–	–	■	■
Night Vision Maximum Range	–	–	–	15 m	15 m
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Dome Cameras

►FLEXIDOME outdoor 5000

►FLEXIDOME 7000



	NDN-50022-V3	NDN-50051-V3	NDI-50022-V3	NDC-455Vxx
Camera Type	Outdoor HD dome camera with varifocal lens	Outdoor HD dome camera with varifocal lens	Outdoor HD dome camera with Built-in IR illuminator and varifocal lens	Outdoor IP dome camera with varifocal lens
Maximum Resolution	1080p	5 MP	1080p	576p
Image Sensor Type	1/2.7" CMOS	1/3.2" CMOS	1/2.7" CMOS	1/3" CCD
Day / Night	■	■	■	■ (Electronic)
IR Sensitive	■	■	■	–
Minimum Illumination [day mode]	0.3 lux	0.3 lux	0.3 lux	0.3 lux (V03) 0.37 lux (V09)
Minimum Illumination [night mode]	0.1 lux	0.1 lux	0 lux	0.012 lux (V03) 0.14 lux (V09)
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / –	■ / –	■ / –	– / –
intelligent Dynamic Noise Reduction [iDNR]	■	■	■	–
intelligent Auto Exposure [iAE]	–	–	–	–
Video Motion Detection [VMD]	■	■	■	■
Audio detection	■	■	■	■
Intelligent Video Analysis [IVA]	–	–	–	■ (depends of model)
Privacy Masking	■	■	■	–
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	■	■	■	–
Region Of Interest Tracking	–	–	–	–
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDHC Card Up to 32 GB
Email with JPEG Alarm or SMS Alarm	■	■	■	■
FTP and Dropbox accounts applications	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
Cloud firmware update	■	■	■	■
Lens	3 - 10 mm	3 - 10 mm	3 - 10 mm	2.8 - 10 mm (V03) 9 - 40 mm (V09)
Motorized Back Focus	–	–	–	–
Motorized Varifocal	–	–	–	–
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Quad Streaming**
Max. Images Per Second [IPS]	30 ips@1080p	12 ips@5MP	30 ips@1080p	30 ips@576p
Build in Microphone	–	■	–	–
Build in loudspeaker	–	–	–	–
Audio Line In / Out	■ / ■	■ / ■	■ / ■	■ / ■
Alarm Input / Output	1 / 1	1 / 1	1 / 1	1 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■
Max. Power Consumption	3.84W	3.84W	5.4W	9.6W
Vandal Resistant	IK10	IK10	IK10	exceeding IK10
All-weather Rating [outdoor]	IP 66	IP 66	IP 66	IP 66
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)	-20° to 50° C (-4° to 122° F)
Integrated Infrared	–	–	■	–
Night Vision Maximum Range	–	–	15 m	–
ONVIF conformant	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

** Three [3] H.264 streams with one [1] M JPEG stream.

IP Video Solutions

Dome Cameras

► FLEXIDOME 7000



	NDN-498Vxx	NIN-733-Vxxxx	NIN-832-Vxxxx	NIN-932-Vxxxx
Camera Type	Outdoor IP dome camera with varifocal lens	Intelligent high sensitivity HD dome camera (starlight) with motorized varifocal lens	Intelligent HD dome camera with motorized varifocal lens	Intelligent and high Dynamic Range HD dome camera with motorized varifocal lens
Maximum Resolution	576p	720p	1080p	1080p
Image Sensor Type	1/3" CCD	1/3" CMOS	1/2.7" CMOS	1/3" CMOS
Day / Night	■	■	■	■
IR Sensitive	■	■	■	■
Minimum Illumination [day mode]	0.28 lux(V03) 0.42 lux(V06) 0.32 lux(V09)	0.017 lux(V03xx) 0.03 lux(V10xx)	0.22 lux(V03xx) 0.4 lux(V10xx)	0.25 lux(V03xx) 0.45 lux(V10xx)
Minimum Illumination [night mode]	0.099 lux(V03) 0.14 lux(V06) 0.11 lux(V09)	0.0057 lux(V03xx) 0.01 lux(V10xx)	0.05 lux(V03xx) 0.1 lux(V10xx)	0.08 lux(V03xx) 0.15 lux(V10xx)
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / -	■ / -	■ / -	■ / ■
Intelligent Dynamic Noise Reduction [iDNR]	-	■	■	■
Intelligent Auto Exposure [iAE]	-	■ (IVA models only)	■ (IVA models only)	■
Video Motion Detection [VMD]	■	■	■	■
Audio detection	■	■	■	■
Intelligent Video Analysis [IVA]	■ (depends of model)	■ (depends of model)	■ (depends of model)	■
Privacy Masking	-	■	■	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	-	■	■	■
Region Of Interest Tracking	-	■	■	■
SD Card Slot	microSDHC Card Up to 32 GB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■	■
FTP and Dropbox accounts applications	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, 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
Cloud firmware update	■	■	■	■
Lens	2.8 - 10 mm(V03) 6- 50 mm(V06) 9 - 22 mm(V09)	3 - 9 mm(V03xx) 10 - 23 mm(V10xx)	3 - 9 mm(V03xx) 10 - 23 mm(V10xx)	3 - 9 mm(V03xx) 10 - 23 mm(V10xx)
Motorized Back Focus	-	■	■	■
Motorized Varifocal	-	■	■	■
Compression / Multistreaming	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**
Max. Images Per Second [IPS]	30 ips@576p	60 ips@720p	30 ips@1080p	30 ips @1080p
Build in Microphone	-	-	-	-
Build in loudspeaker	-	-	-	-
Audio Line In / Out	■ / ■	■ / ■	■ / ■	■ / ■
Alarm Input / Output	1 / 1	2 / 1	2 / 1	2 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	■	■	■
Power Over Ethernet [PoE]	■	■	■	■
Max. Power Consumption	9.6W	7.2W	7.2W	7.2W
Vandal Resistant	exceeding IK10	IK10	IK10	IK10
All-weather Rating [outdoor]	IP 66	IP 66	IP 66	IP 66
Operating Temperature	-20° to 50° C (-4° 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)
Integrated Infrared	-	-	-	-
Night Vision Maximum Range	-	-	-	-
ONVIF conformant	■	■	■	■

** Three [3] H.264 streams with one [1] M JPEG stream.

IP Video Solutions

Dome Cameras

►FLEXIDOME 7000



	NDN-733Vxx-xx	NDN-832Vxx-xx	NDN-932Vxx-xx
Camera Type	Intelligent high sensitivity HD dome camera(starlight) with motorized back focus and varifocal lens	Intelligent HD dome camera with motorized back focus and varifocal lens	Intelligent and high Dynamic Range HD dome camera with motorized back focus and varifocal lens
Maximum Resolution	720p	1080p	1080p
Image Sensor Type	1/3" CMOS	1/2.7" CMOS	1/3" CMOS
Day / Night	■	■	■
IR Sensitive	■	■	■
Minimum Illumination [day mode]	0.017 lux	0.22 lux	0.25 lux
Minimum Illumination [night mode]	0.0057 Lux	0.05 lux	0.08 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / -	■ / -	■ / ■
intelligent Dynamic Noise Reduction [iDNR]	■	■	■
intelligent Auto Exposure [iAE]	■ (IVA models only)	■ (IVA models only)	■
Video Motion Detection [VMD]	■	■	■
Audio detection	■	■	■
Intelligent Video Analysis [IVA]	■ (depends of model)	■ (depends of model)	■
Privacy Masking	■	■	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	■	■	■
Region Of Interest Tracking	■	■	■
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■
FTP and Dropbox accounts applications	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
Cloud firmware update	■	■	■
Lens	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)
Motorized Back Focus	■	■	■
Motorized Varifocal	-	-	-
Compression / Multistreaming	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**
Max. Images Per Second [IPS]	60 ips@720p	30 ips@1080p	30 ips @1080p
Build in Microphone	-	-	-
Build in loudspeaker	-	-	-
Audio Line In / Out	■ / ■	■ / ■	■ / ■
Alarm Input / Output	2 / 1	2 / 1	2 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■
Max. Power Consumption	12W	12W	12W
Vandal Resistant	exceeding IK10	exceeding IK10	exceeding IK10
All-weather Rating [outdoor]	IP 66 & IP 67	IP 67 & IP 67	IP 66 & IP 67
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)
Integrated Infrared	-	-	-
Night Vision Maximum Range	-	-	-
ONVIF conformant	■	■	■

** Three [3] H.264 streams with one [1] M JPEG stream.

IP Video Solutions

Box Cameras

Advantage Line

►IP micro 2000

►IP 200



	NPC-20002-F2	NPC-20012-F2	NBC-225-P	NBC-255-P	NBC-265-P
Camera Type	Compact and stylish indoor IP microbox camera	Compact and stylish indoor HD microbox camera	indoor IP box camera	indoor IP box camera with varifocal lens	indoor HD box camera with varifocal lens
Maximum Resolution	480p	720p	480p	480p	720p
Image Sensor Type	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS
Day / Night	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)	■ (Electronic)
IR Sensitive	—	—	—	—	—
Minimum Illumination [day mode]	0.1 lux	0.1 lux	1.0 lux	1.0 lux	1.0 lux
Minimum Illumination [night mode]	—	—	—	—	—
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / —	■ / —	— / —	— / —	■ / —
intelligent Dynamic Noise Reduction [iDNR]	■	■	—	—	—
intelligent Auto Exposure [IAE]	—	—	—	—	—
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	—	■	■	■	■
Intelligent Video Analysis [IVA]	—	—	—	—	—
Privacy Masking	■	■	—	—	—
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	—	—	—	—	—
Region Of Interest Tracking	—	—	—	—	—
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	SD Card Up to 32 GB	SD Card Up to 32 GB	SD Card Up to 32 GB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	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 (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)
Cloud firmware update	■	■	—	—	—
Lens	2.5 mm	2.5 mm	4.9 mm	2.8 - 10 mm	2.8 - 12 mm
Motorized Back Focus	—	—	—	—	—
Motorized Varifocal	—	—	—	—	—
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@480p	30 ips@720p	30 ips@480p	30 ips@480p	30 ips@720p
Build in Microphone	—	■	■	■	■
Build in loudspeaker	—	■	—	—	—
Audio Line In / Out	— / —	— / —	■ / ■	■ / ■	■ / ■
Alarm Input / Output	— / —	— / —	1 / 1	1 / 1	1 / 1
Hybrid capability [continuous IP + Analog out]	—	—	—	—	—
Power Over Ethernet [PoE]	—	■	■	■	■
Max. Power Consumption	2.8W	3.7W	3.36W	3.36W	3.6W
Vandal Resistant	—	—	—	—	—
All-weather Rating [outdoor]	—	—	—	—	—
Operating Temperature	-10° to 45° C (14° to 113° F)	-10° to 50° C (14° to 122° F)	0° to 50° C (+32°F to 122° F)	0° to 50° C (+32°F to 122° F)	0° to 50° C (+32°F to 122° F)
Integrated Infrared	—	—	—	—	—
Night Vision Maximum Range	—	—	—	—	—
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Box Cameras

Advantage Line

► IP 200



► IP bullet 200



► IP bullet 5000



	NBC-255-W	NBC-265-W	NTC-255-PI	NTC-265-PI	NTI-50022-V3
Camera Type	Wireless indoor IP box camera with varifocal lens	Wireless indoor HD box camera with varifocal lens	OutdoorIP 66 rated robust IP bullet camera with Built-in IR illuminator and varifocal lens	OutdoorIP 66 rated robust HD bullet camera with Built-in IR illuminator and varifocal lens	OutdoorIP 66 rated robust HD bullet camera with Built-in IR illuminator and varifocal lens
Maximum Resolution	480p	720p	480p	720p	1080p
Image Sensor Type	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/4" CMOS	1/2.7" CMOS
Day / Night	■ (Electronic)	■ (Electronic)	■	■	■
IR Sensitive	-	-	■	■	■
Minimum Illumination [day mode]	1.0 lux	1.0 lux	1 lux	0.3 lux	0.3 lux
Minimum Illumination [night mode]	-	-	0 lux	0 lux	0 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	- / -	■ / -	- / -	■ / -	■ / -
intelligent Dynamic Noise Reduction [iDNR]	-	-	-	-	■
intelligent Auto Exposure [iAE]	-	-	-	-	-
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	■	■	■	■	■
Intelligent Video Analysis [IVA]	-	-	-	-	-
Privacy Masking	-	-	-	-	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	-	-	-	-	■
Region Of Interest Tracking	-	-	-	-	-
SD Card Slot	SD Card Up to 32 GB	SD Card Up to 32 GB	-	-	-
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting (FTP only)	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
Cloud firmware update	-	-	■	■	■
Lens	2.8 - 10 mm	2.8 - 12 mm	3.7 - 10 mm	2.7 - 9 mm	3 - 10 mm
Motorized Back Focus	-	-	-	-	-
Motorized Varifocal	-	-	-	-	-
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@480p	30 ips@720p	30 ips@480p	30 ips@720p	30 ips@1080p
Build in Microphone	■	■	-	-	-
Build in loudspeaker	-	-	-	-	-
Audio Line In / Out	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
Alarm Input / Output	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Hybrid capability [continuous IP + Analog out]	-	-	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■	■
Max. Power Consumption	4.6W	4.6W	6W	6.72W	7.32W
Vandal Resistant	-	-	IK7	IK7	IK7
All-weather Rating [outdoor]	-	-	IP66	IP66	IP66
Operating Temperature	0° to 45° C (+32°F to 113° F)	0° to 45° C (+32°F to 113° F)	-20° to 55° C (-4° to 131° F)	-20° to 50° C (-4° to 122° F)	-30° to 50° C (-22° to 122° F)
Integrated Infrared	-	-	■	■	■
Night Vision Maximum Range	-	-	25 m	25 m	25 m
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Box Cameras

►DINION 7000



	NBC-455	NBN-498	NBN-733V	NBN-832V	NBN-932V
Camera Type	indoor IP box camera	indoor IP box camera	Intelligent high sensitivity HD box camera(starlight)	Intelligent HD box camera	Intelligent and high Dynamic Range HD box camera
Maximum Resolution	576p	576p	720p	1080p	1080p
Image Sensor Type	1/3" CCD	1/3" CCD	1/3" CMOS	1/2.7" CMOS	1/3" CMOS
Day / Night	■ (Electronic)	■	■	■	■
IR Sensitive	—	■	■	■	■
Minimum Illumination [day mode]	0.3 lux	0.15 lux	0.017 lux	0.22 lux	0.25 lux
Minimum Illumination [night mode]	0.12 lux	0.06 lux	0.0057 lux	0.05 lux	0.08 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	— / —	■ / —	■ / —	■ / —	■ / ■
intelligent Dynamic Noise Reduction [iDNR]	—	—	■	■	■
intelligent Auto Exposure [iAE]	—	—	■ (IVA models only)	■ (IVA models only)	■
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	■	■	■	■	■
Intelligent Video Analysis [IVA]	■ (depends of model)	■ (depends of model)	■ (depends of model)	■ (depends of model)	■
Privacy Masking	—	—	■	■	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	—	—	■	■	■
Region Of Interest Tracking	—	—	■	■	■
SD Card Slot	microSDHC Card Up to 32 GB	microSDHC Card Up to 32 GB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	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 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
Cloud firmware update	■	■	■	■	■
Lens	C / CS	C / CS	C / CS	C / CS	C / CS
Motorized Back Focus	—	—	■	■	■
Motorized Varifocal	—	—	—	—	—
Compression / Multistreaming	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**
Max. Images Per Second [IPS]	30 ips@576p	30 ips@576p	60 ips@720p	30 ips@1080p	30 ips @1080p
Build in Microphone	—	—	—	—	—
Build in loudspeaker	—	—	—	—	—
Audio Line In / Out	■ / ■	■ / ■	■ / ■	■ / ■	■ / ■
Alarm Input / Output	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	■	■	■	■	■
Max. Power Consumption	9.6W	9.6W	6W	10.8W	6W
Vandal Resistant	—	—	—	—	—
All-weather Rating [outdoor]	—	—	—	—	—
Operating Temperature	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 50° C (-4° to 122° F)	-20° to 55° C (-4° to 131° F)	-20° to 50° C (-4° to 122° F)
Integrated Infrared	—	—	—	—	—
Night Vision Maximum Range	—	—	—	—	—
ONVIF conformant	■	■	■	■	■

** Three [3] H.264 streams with one [1] M JPEG stream.

IP Video Solutions

Specialty Cameras

	►DINION imager	►DINION capture	►VOT thermal	►FLEXIDOME corner 9000	
					
	NEI-30xV05-x3WE	NER-L2Rx-1	VOT-320-Vxxx	NEC-36x-11W	NCN-90022-F1
Camera Type	Intelligent all weather active IR IP camera	Licence Plates Capture IP camera for vehicles moving at speeds up to 225km/h	Thermal IP camera	Rugged No-Grip Corner IP camera	Rugged No-Grip Corner HD camera
Maximum Resolution	576p	576p	320 x 240	576p	1080p
Image Sensor Type	1/3" CCD	1/3" CCD	FPA - Vox	1/3" CCD	1/2.7" CMOS
Day / Night	■	■	N.A	■	■
IR Sensitive	■	■	Thermal	■	■
Minimum Illumination [day mode]	2.4 lux	0 lux	N.A.	0.02 lux	0.3 lux
Minimum Illumination [night mode]	0 lux	0 Lux	0 lux	0 lux	0 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / -	■ / -	- / -	- / -	■ / -
intelligent Dynamic Noise Reduction [iDNR]	-	-	-	-	■
intelligent Auto Exposure [iAE]	-	-	-	-	-
Video Motion Detection [VMD]	■	■	■	■	■
Audio detection	-	-	-	-	■
Intelligent Video Analysis [IVA]	■	-	-	■	-
Privacy Masking	■	■	N.A.	-	■
Region Of Interest & Electronic PTZ [ROI] & [E-PTZ]	-	-	-	-	■
Region Of Interest Tracking	-	-	-	-	-
SD Card Slot	-	-	SD Card Up to 32 GB	-	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■	■	■
FTP and Dropbox accounts applications	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
Cloud firmware update	-	-	-	-	■
Lens	5 - 50 mm	Models which cover 4.9, 7.1, 10.2, 14.8, 21.3 m optimal distances	9 mm(-V9L, -V9H) 13 mm(-V13L, -V13H) 19 mm(-V19L, -V19H) 60 mm(-V60L, -V60H)	2.5 mm	2 mm
Motorized Back Focus	-	-	-	-	-
Motorized Varifocal	-	-	-	-	-
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Tri-streaming*
Max. Images Per Second [IPS]	30 ips@576p	30 ips@576p	8.3 ips@240p(-VxxL) 30 ips@240p(-VxxH)	30 ips@576p	30 ips@1080p
Build in Microphone	-	-	-	-	-
Build in loudspeaker	-	-	-	-	-
Audio Line In / Out	- / -	- / -	- / -	- / -	■ / ■
Alarm Input / Output	0 / 1	0 / 0	2 / 2	0 / 0	1 / 1
Hybrid capability [continuous IP + Analog out]	(on service mode)	(on service mode)	(NTSC on service mode)	(on service mode)	(on service mode)
Power Over Ethernet [PoE]	PoE+	PoE+	-	-	PoE+
Max. Power Consumption	35W	22W	75W	11W	8.4W
Vandal Resistant	IK10	-	-	IK10	IK10
All-weather Rating [outdoor]	IP67	IP67	IP66	IP65	IP65
Operating Temperature	-40° to 50° C (-40°F to 122° F)	-40° to 50° C (-40°F to 122° F)	-50° to 55° C (-58°F to 131° F)	-50° to 50° C (-58°F to 122° F)	-10° to 50° C (14°F to 122° F)
Integrated Infrared	■(850 or 940nm)	■	Thermal 8.3 or 25 Hz	■(850 or 940nm)	■(940nm)
Night Vision Maximum Range	160 m(NEI-308) / 80 m(NEI-309)	Capture range up to 28m	1450m	9m	9m
ONVIF conformant	■	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

IP Video Solutions

Moving Cameras

►AUTODOME easy II



►AUTODOME junior



►AUTODOME 7000



	VEZ-211 / 221	VJR-811 / 821 / 831	VG5-7028 / 7036	VG5-7220
Camera Type	Compact IP PTZ Dome	Compact HD PTZ Dome	Stylish and Intelligent IP PTZ Dome	Stylish and Intelligent HD PTZ Dome
Maximum Resolution	576p	1080p	576p	1080p
Image Sensor Type	1/4" CCD	1/2.8" CMOS	1/4" CCD	1/2.8" CMOS
Day / Night	–	■	■	■
IR Sensitive	–	■	■	■
Minimum Illumination [day mode]	1 lux	1.2 lux	0.66 lux (36x) 0.33 lux(28x)	0.8 lux
Minimum Illumination [night mode]	–	0.06 lux	0.104 lux (36x) 0.066 lux(28x)	0.12 lux
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / –	– / –	■ / –	■ / –
Intelligent Dynamic Noise Reduction [iDNR]	–	–	–	–
Intelligent Auto Exposure [iAE]	–	–	–	–
Video Motion Detection [VMD]	■	■	■	■
Audio detection	–	■	■	■
Intelligent Video Analysis [IVA]	■	■	■	■
Intelligent Tracking	–	–	■	■
SD Card Slot	–	–	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■	■
FTP and Dropbox accounts applications	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting(FTP only)	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting	Auto or Alarm JPEG Posting, Video Clips or JPEG Exporting
Cloud firmware update	–	–	■	■
Lens	4.2 - 42 mm	6.3 - 63 mm	3.4-122.4 mm(x36) 3.5-98 mm(x28)	4.7 - 94 mm
Zoom optical	10x	10x	36x or 28x	20x
Zoom digital	12x	16x	12x	12x
Privacy Masking	12 masks	24 masks	24 masks	24 masks
Virtual Masking	–	–	24 masks	24 masks
Nbr of presets / guard tours	99 / 2	99 / 2	256 / 2	256 / 2
Tilt angle	-90° to +4°	-90° to 0°	-90° to 14°(pendant)	-90° to 14°(pendant)
Compression / Multistreaming	H.264 Tri-streaming*	H.264 Tri-streaming*	H.264 Quad Streaming**	H.264 Quad Streaming**
Max. Images Per Second [IPS]	30 ips@576p	60 ips@720p 30 ips@1080p	30 ips@576p	60 ips@720p 30 ips@1080p
Build in Microphone	–	–	–	–
Build in loudspeaker	–	–	–	–
Audio Line In / Out	– / –	■ / ■	■ / ■	■ / ■
Alarm Input / Output	2 / 1	2 / 1	7 / 4	7 / 4
Hybrid capability [continuous IP + Analog out]	–	–	–	–
Power Over Ethernet [PoE]	only Indoor	PoE+(only Indoor)	HiPoE	HiPoE
Max. Power Consumption	12W / 27W(indoor / outdoor)	17W / 42W(indoor / outdoor)	24W / 60W(indoor / outdoor)	24W / 60W(indoor / outdoor)
Vandal Resistant	–	–	IK8 with rugged bubble	IK8 with rugged bubble
All-weather Rating [outdoor]	IP65(outdoor)	IP65(outdoor)	IP66(outdoor)	IP66(outdoor)
Operating Temperature	-30° to 50° C (-22° to 122° F)	-30° to 50° C (-22° to 122° F)	-40° to 55° C (-40°F to 131° F)	-40° to 55° C (-40°F to 131° F)
Integrated Infrared	–	–	–	–
Night Vision Maximum Range	–	–	–	–
ONVIF conformant	■	■	■	■

* Two [2] H.264 streams with one [1] M-JPEG stream.

** Three [3] H.264 streams with one [1] M JPEG stream.

IP Video Solutions

Moving Cameras

►MIC with IP Power Supply



	MIC-550AL §	MIC-550IR §	MIC612 §
Camera Type	Rugged IP PTZ camera	Rugged IP PTZ camera with twin integrated IR illuminators	Rugged thermal PTZ camera
Maximum Resolution	576p	576p	576p(optical) 320x256 / 640x480(thermal)
Image Sensor Type			
Day / Night	■	■	■(optical) ■(optical)
IR Sensitive	■	■	■(optical)
Minimum Illumination [day mode]	0.66 lux (36x) 0.33 lux(28x)	0.66 lux (36x) 0.33 lux(28x)	0.66 lux(optical) N.A.(thermal)
Minimum Illumination [night mode]	0.104 lux (36x) 0.066 lux(28x)	0 lux	0.104 lux(optical) 0 lux(thermal)
Wide Dynamic Range [WDR] / High Dynamic Range [HDR]	■ / -	■ / -	■ / -
intelligent Dynamic Noise Reduction [iDNR]	-	-	-
intelligent Auto Exposure [iAE]	-	-	-
Video Motion Detection [VMD]	■	■	■
Audio detection	-	-	-
Intelligent Video Analysis [IVA]	■	■	■
Intelligent Tracking	-	-	-
SD Card Slot	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB	microSDXC Card Up to 2 TB
Email with JPEG Alarm or SMS Alarm	■	■	■
FTP and Dropbox accounts applications	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
Cloud firmware update	■	■	■
Lens	3.4-122.4 mm(x36) 3.5-98 mm(x28)	3.4-122.4 mm(x36) 3.5-98 mm(x28)	3.4-122.4 mm(optical) 35 mm(thermal T models) 50 mm(thermal H models)
Zoom optical	36x or 28x	36x or 28x	36x
Zoom digital	12x	12x	12x
Privacy Masking	24 masks	24 masks	24 masks
Virtual Masking	-	-	-
Nbr of presets / guard tours	99 / 2	99 / 2	99 / 2
Tilt angle	-58° to 90°(upright) -103° to 70°(canted)	-58° to 90°(upright) -103° to 70°(canted)	-58° to 90°(upright) -103° to 70°(canted)
Compression / Multistreaming	H.264 Quad Streaming**	H.264 Quad Streaming**	H.264 Quad Streaming**
Max. Images Per Second [IPS]	30 ips@576p	30 ips@576p	30 ips@576p
Build in Microphone	- / -	- / -	- / -
Build in loudspeaker	- / -	- / -	- / -
Audio Line In / Out	- / -	- / -	- / -
Alarm Input / Output	8 / 2(optional card)	4 / 0	8 / 2(optional card)
Hybrid capability [continuous IP + Analog out]	■	■	■
Power Over Ethernet [PoE]	-	-	-
Max. Power Consumption	18W	115W(camera + IP power supply)	115W(camera + IP power supply)
Vandal Resistant	IK10	IK10	IK10
All-weather Rating [outdoor]	IP68	IP68	IP68
Operating Temperature	-40° to 60° C (-40°F to 140° F)	-40° to 60° C (-40°F to 140° F)	-40° to 60° C (-40°F to 140° F)
Integrated Infrared	-	■	Thermal 8.3 or 25 Hz
Night Vision Maximum Range	-	150 m	800 m (T models) 1500 m (H models)
ONVIF conformant	■	■	■

** Three [3]H.264 streams with one [1] M JPEG stream.

§ IP features are possible when using optional MIC-IP-PSU Power Supply

IP Video Solutions

Digital Recording

Advantage Line

All-in-one solution



			DIVAR IP 3000	BRS HD Series	DIVAR IP 7000
System	Target System Size		32+ Cameras	10,000+ Cameras	64+ Cameras
	Operating System		Microsoft Storage Server 2008 R2	Windows 7	Microsoft Server 2008 R2
	Rack Mountable		No	■	■
	SDK Available		■ [VSDK v5.x]	■ [VSDK v5.x]	■ Yes [VSDK v5.x]
Video	Input	Channels	Up to 32 per appliance	Up to 64	Up to 64 appliance
	Output	Looping Video	—	—	—
		Composite Outs	0	0	0
		VGA	1 DVI	1 DVI, 1 DP [Tower Model]	1 DVI, 1 DP
		Spot Monitor	1 per IP decoder	0	per IP decoder
Audio	Input / Output Channels		Up to 32 [audio playback via remote station only]	Up to 64 [audio playback via remote station only]	Up to 64 [audio playback via remote station only]
	Compression Type		G.726	G.726	G.726
	Synchronous Audio		■	■	■
	Associate Multiple Cameras to 1 Audio		■	■	■
Alarms	Inputs		Up to 144 via ADAM I/O modules [+1 per IP camera]	Up to 144 via ADAM I / O modules [+1 per IP camera]	Up to 144 via ADAM I / O modules [+1 per IP camera]
	Call up Pre-Position on Dome Cameras		■	■	■
	Increase Frame Rate on Alarm		■	■	■
	Simultaneous Normal & Event Recording		■	■	■
	Multiple Camera Linking on Alarm Event		■	■	■
	Notification via Email		■	■	■
	Pre-Alarm		■	■	■
	Motion Detection		■	■	■
Recording	Video Compression		H.264, MPEG-4, ONVIF, RTSP, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, ONVIF, RTSP, JPEG
	Frame Rate [IPS] - NTSC		150 Mbps	Up to 1250 ips @ 1080p*	200 Mbps
	IPS Per Camera - NTSC		25 / 30 IPS	30 ips @ 1080p	25 / 30 IPS
	Supported Resolutions		CIF / 2CIF / 4CIF / 720p / 1080p / 5MP	CIF / 2CIF / 4CIF / 720p / 1080p / 3MP	CIF / 2CIF / 4CIF / 720p / 1080p / 5MP
	Individual Camera Adjustment		■ [IPS & Quality]	■ [IPS & Quality]	■ [IPS & Quality]
	Schedule Recording Modes		Day / Night / Weekend / Holiday / Specific Day	Day / Night / Weekend / Holiday / Specific Day	Day / Night / Weekend / Holiday / Specific Day
Storage	Internal HDD [GB]		4000 - 8000 GB	1000 - 4000 - 8000 - 16000 GB	4000 - 8000 - 16000 GB
	On-board RAID		No	■ [on rackmount models]	■
	External Storage		■ [iSCSI]	■ [Direct Attached SCSI]	■ [iSCSI]
	Export	Supported Devices	External CD/DVD Writer, USB 2.0, iSCSI	Internal CD / DVD Writer, USB 2.0, Network Drive, DAS SCSI	Internal CD/DVD Writer, USB 2.0, iSCSI
		Data Format	Native, ASF	Native, ASF	Native, ASF
		Back-up Mode	Manual or Automatic	Manual or Automatic	Manual or Automatic

IP Video Solutions

Digital Recording

Advantage Line All-in-one solution



			DIVAR IP 3000	BRS HD Series	DIVAR IP 7000
Search		Timeline Search Bar [Color Coded]	■	■	■
		Search Mode	Date/time, Device, Events, Alarm State / Priority, Smart Motion Search, IVA	Date / time, Camera Name, Events, Pre-Alarm, Motion, Smart Motion Search	Date/time, Device, Events, Alarm State / Priority, Smart Motion Search, IVA
		Smart Motion Search	■	■	■
Display		Live Resolution [PAL / NTSC]	CIF / 2CIF / 4CIF / 720p / 1080p / 5MP	CIF / 2CIF / 4CIF / 720p / 1080p	CIF / 2CIF / 4CIF / 720p / 1080p / 5MP
		Screen Division [Multiscreen]	Full, 3x3, 4x4, 4x5, 5+6	4:3: Full, 2x2, 3x3, 4x4, 5x6, 5+1, 7+1, 9+1, 12+1, 16+1, 8+2, 9+4 16:9: 2x3, 3x4, 2+1, 3+1, 4+2, 6+2, 6+3	Full, 3x3, 4x4, 4x5, 5+6
Security	User Control	User Levels	Unlimited	Unlimited	Unlimited
		Camera Lockouts by User	■	■	■
		Set Viewing Permissions	■	■	■
		Data Integrity Check (e.g. Watermarking)	■	■	■
Remote Access		Network	10 / 100 / 1000 Ethernet	10 / 100 / 1000 Ethernet	10 / 100 / 1000 Ethernet
		Web Browser Access	■	■	■
		Simultaneous Accessible Users	20 with software / 5 with web browser	20 with software / 5 with web browser	20 with software / 5 with web browser
		Mobile Client	■	—	■
PC Client		Admin Control	■	■	■
		PTZ Control	■	■	■
		Export Options	Native File Format and ASF	Native File Format and ASF	Native File Format and ASF
Other		Instant Playback	■ / ■	■	■
		Digital Zoom [Live / Playback]	■	■ / ■	■ / ■
		PTZ Joystick Control	■	—	■
		ATM / POS Interface	■	■	■

IP Video Solutions

Digital Storage

Advantage Line

Network Video Recorder



			DIVAR IP 2000	DLA 1200 Series	DIVAR IP 6000	DIVAR IP 6000	DSA-N2E6X2 Series
Mechanical	Target System Size		1 to 16 Cameras	1 to 64 Cameras	32 to 128 Cameras	32 to 128 Cameras	128 Cameras and above
	Form Factor		Mini-Tower	Mid-Tower	1U 19-inch Rack Mount	2U 19-inch Rack Mount	2U 19-inch Rack Mount
	System Weight		6.75 kg(14.88 lbs)	10.8 kg(23.80 lbs)	16.3 kg(36 lbs)	8 bay: 23.6 kg(52 lbs)	27 kg(60 lbs)
	Operating Temperature		10° to 35° C (50° to 95° F)	10° to 35° C (50° to 95° F)	10° to 35° C (50° to 95° F)	10° to 35° C (50° to 95° F)	10° to 40° C (50° to 104° F)
	Product Safety		CE, UL, EN, IEC	CE, UL, EN, IEC	CE, UL, EN, IEC	CE, UL, EN, IEC	EN 60950, CE, CSA 60950, UL 60950, others
	Warranty		3 Years [all components]	3 Years [all components]	3 Years [all components]	3 Years [all components]	3 Years [all components]
	Power Supplies	Number	1	1	2	2	2
		Redundant	—	—	■	■	■
		Hot Swappable	—	—	■	■	■
		Power Consumption	200W	200W	4 bay: 230W	8 bay: 291W	399W
Fans	Number	1	1	3	5	2 redundant modules	
	Hot Swappable	No	—	—	—	■	
System	Processor	Type	Intel® Atom D525	Intel® Pentium G6950 Dual Core	Intel® Pentium G6950 Dual Core	Intel® Pentium G6950 Dual Core	Single-core PPC I/O Processor
		Speed	1.80 GHz, 1333 MHz FSB	2.8 GHz, 1333 MHz FSB	2.8 GHz, 1333 MHz FSB	2.8 GHz, 1333 MHz FSB	800MHz LSISAS2116
		Cache	1MB L2 Cache	3MB L2 Cache	3MB L2 Cache	3MB L2 Cache	32 kB Data Cache; 512 kB L2 Cache
	Memory		1GB, DDR3-1333 SO-DIMM	4GB, DDR2-800 ECC RAM	4GB, DDR2-800 ECC RAM	4GB, DDR2-800 ECC RAM	2GB, DDR2 SDRAM VLP DIMM
	Host Interface	Type	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	1 GbE/10 GbE
		Number	1	2	2	2	2
		RAID Levels	JBOD	JBOD/RAID-1	RAID-5	RAID-5	RAID-5/RAID-6
Storage	Disk Drives	Type	SATA-II	SATA-II	SATA-II	SATA-II	2,0TB 7K Nearline SAS
		Maximum Drives Supported	4	4	4	8	12
		Hot Swappable	—	—	■	■	■
		Available Capacities	2 TB	1 TB	1 TB	2 TB	2 TB

IP Video Solutions

Digital Storage

Advantage Line

Network Video Recorder



			DIVAR IP 2000	DLA 1200 Series	DIVAR IP 6000	DIVAR IP 6000	DSA-N2E6X2 Series
Storage	Storage Expansion	Expansion Links	—	—	—	—	6Gb/s SAS [Copper]
		Number of Expansion Units	—	—	—	—	Up to 7 Expansion Shelves
		Maximum Drives Supported	—	—	—	—	96
		Hot Swappable	—	—	—	—	■
	Capacity	Base System [Raw]	8 TB	4 TB	4 TB	16 TB	12 TB
		Base System [RAID Config.]	[JBOD]	3.6 TB [JBOD]	2.7 TB	12.93 TB	20.482 TB [RAID-5] 18.620 TB [RAID-6]
		Base System + Expansion [Raw]	—	—	—	—	192 TB
		Base System + Expansion [RAID-5 Config.]	—	—	—	—	164 TB
Performance		Array Throughput/Bandwidth	100 Mbps	150 Mbps	200 Mbps	200 Mbps	500 Mbps [Base] 800 Mbps [Base + Shelf]
		Drive Throughput	3.0 Gbps	3.0 Gbps	3.0 Gbps	3.0 Gbps	6.0 Gbps
		Max. iSCSI Camera Connections	16	32	64	64	400
		Max. iSCSI Replay Sessions	4	8	8	8	32
Monitoring	Remote Mgmt.	Remote Desktop	■	■	■	■	SANtricity
		Web Client	■	■	■	■	—
	Monitoring	SNMP	■	■	■	■	■ [via dedicated SNMP Server]
		Alerts	■	?	e-Mail, LAN broadcast	e-Mail, LAN broadcast	■
Platform Support	Supported HW	Recorders	—	Diver 700 Series	Diver 700 Series	Diver 700 Series	n/a
		Direct-to-iSCSI	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v4.x or greater	Any Bosch IP device running FW v5.52 or greater
	Supported SW	BVC	■	■	■	■	■
		VIDOS	—	■ [v4.02 or newer]	■ [v4.02 or newer]	■ [v4.02 or newer]	—
		BVMS	■ [v4.50 or newer]	■ [v2.20 or newer]	■ [v2.20 or newer]	■ [v2.20 or newer]	■ [v4.0 or newer]
		VRM	■ [v3.00 Embedded]	■ [v2.11 Embedded]	■ [v2.11 Embedded]	■ [v2.11 Embedded]	■ [v2.22 or newer]

IP Video Solutions

Encoders and Decoders

► Encoders

► Decoders

► Transcoders



		VIP-X1XF-E	VIP X1XF	VideoJet X20 XF E	VideoJet X40 XF E	VideoJet X16 XF E	VIP XDA	VIP-XDHD	VideoJet XTC XF
	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	HD Video Decoder	4 Channel / Dual-stream Transcoder
Video / Audio	Camera Inputs	1	1	2	3	16	—	—	4
	Monitor Outputs	—	—	—	—	—	1/4 [single/quad]	1 of 3 [DVI-I, HDMI, DP]	—
	Video Codec	H.264	H.264	H.264 MPH.264 BP	H.264 MPH.264 BP	H.264 MPH.264 BP	H.264 BP MPEG-4 SH+ MPEG-2	H.264 MPEG-4	H.264 MPH.264 BP
	Frame Rate [IPS]	25 / 30 @ 4CIF	25 / 30 @ 4CIF	25 / 30	25 / 30	25 / 30 @ 4CIF	25 / 30 @ 4CIF	25 / 30 @ 1080p	25 / 30 @ 4CIF
	Audio In / Out	1 / 1	1 / 1	2 / 1	2 / 1	2 / 1	0 / 1	—	—
Storage	Type	SD Card	SD Card	CF	CF	—	—	—	CF
	Capacity	2 TB	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	0	4
	Relay Out	1	2	1	1	1	4	0	1
	ONVIF conformant	■	■	■	■	■	—	—	—
	Transcoding at the edge	—	—	—	■	—	—	—	—

IP Video Solutions

Encoders and Decoders

► Modular Systems



	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	—	■

Legend ■ Yes — No

IP Video Solutions

Encoders and Decoders



2.8—12 mm



		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
	Monitor Outputs	—	—
	Video Codec	H.264 MP@H.265 BP+ M-JPEG	H.264 MP@H.265 BP+ M-JPEG
	Frame Rate [FPS]	25/30 @ 4CIF	25/30 @ 4CIF
	Audio In / Out	2 / 1	2 / 1
Storage	Type	—	—
	Capacity	—	—
Intelligence	Direct-to-iSCSI	■	■
	Video Analytics	IVA	IVA
Interfaces	Alarm In	4	4
	Relay Out	1	1
	SFP Fiber Slot	■	■
	ONVIF conformant	■	■

IP Video Solutions

Video Software

Advanced Viewing Client

Video Management System



	BVC [v1.4]/Rec@edge	BRS [v8.11] including Appliance	BVMS [v4.5] Lite	BVMS [v4.5] Pro
Channel Count	Up to 128	Up to 64 per Station	32 to 64	8 to Unlimited
System Architecture Support	Standalone	Standalone or Peer-to-Peer [200 max.]	Standalone to Client Server	Client Server [one server / 2000 cameras] Multi Server [up to 50 servers / 10,000 cameras] Multi-System [unlimited servers / cameras]
Full VMS	Advanced Viewing Client	Recorder + Viewing Client	Full VMS	Full VMS
Software based Video IP Platform	■	■	■	■
ONVIF for 3rd Party Camera Intergration	■ [with VRM2.30 / VSG1]	■ [with v8.10]	■	■
Multi-site Support [independent systems tied together]	—	■ [via VPN tunnelled connection]	■	■
Multi-site Support	—	Independant Client with VPN or via Web, one site at a time	■	■
Mobile Clients	—	—	■ MVS Licence required max 20 connection per site	■ MVS Licence required max 20 connection per site
Workstations / Clients	1 standalone at a time [separate config needed]	5 web connections, 20 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	■	■	■	■
Resolution				
HD-ready	■	■	■	■
SD and HD	■	■	■	■
SD and HD Decoder support	■	—	■	■
Monitor Wall Client GUI Support	■	—	■	■
Encoding				
H.264	■	■	■	■
MPEG-4	■	■	■ [via BRS only]	■ [via BRS only]
3rd party camera support	ONVIF 1.02/Profile-S with DLA	AXIS MPEG-4 [No PTZ]; ONVIF 1.02 / Profile-S	■ ONVIF 1.02 / Profile-S	■ ONVIF 1.02 / Profile-S
H.264 and MPEG-4 & HD Decoder support	H.264, MPEG-4	—	H.264, MPEG-4	H.264, MPEG-4
Display				
Multi-monitor support	■ [2]	■ [via browser or BVC]	■ [4]	■ [4]
Workstation OS support	XP, Vista, Win7,SP1	Win XP SP3 [32-bit]; Win7 [32 / 64-bit]	XP, Win7,SP1	XP, Win7,SP1
16:9 Monitor support	■	■	■	■
Mapping	—	—	■	■
Dynamic cameo scaling	■	—	—	—

IP Video Solutions

Video Software

Advanced Viewing Client

Video Management System



		BVC [v1.4]/Rec@edge	BRS [v8.11] including Appliance	BVMS [v4.5] Lite	BVMS [v4.5] Pro
Alarm Management	User management	—	■	■	■
	Digital I/O alarms	■	■	■	■
	System event alarms	■	■	■	■
	Motion alarms	■	■	■	■
	Event response and command scripts	—	■	■	■
	IVA alarms	■	■	■	■
	IVA forensics	■	—	■	■
	Audio	■	■	■	■
Control	AutoDome Intelligent Tracking	■	—	—	—
	PTZ	■	■	■	■
	IntuiKey	■ [limited functionality]	■ [via BVC only]	■	■
	Virtual matrix	—	—	■	■
Storage	@edge camera support	■	—	■	■
	iSCSI	■	—	■	■
	NVR support	—	■	■ [BRS, VIDOS]	■ [BVMS Appliance BRS, VIDOS]
	VRM	■ [via DLA]	—	■ [via DLA]	■
	IVA metadata	■	—	■	■
	Failover/recording	—	—	—	■
	DLA Support [VRM Mode]	■ [1]	—	■ [5]	■ [40]
Integration	BVMS	—	■	—	—
	BRS	■	—	■	■
	DxR 400 / 600 / 700	■	—	■	■
	BVC	—	■	—	—
	Bosch G Series panel	—	■	—	—
	Access	—	■	■	■
	OPC	—	■	■	■
	CLI / CCL	—	■	■	■
Networking	ATM/POS	—	■	■	■
	LAN / intranet	■	■	■	■
	WAN	—	■ [via hardware VPN]	■	■
	Remote / Decoupled Client	—	■	■	■
	Mobile Viewing APP	—	—	■ [Apple only]	■ [Apple only]
	Web Client	—	■	■	■

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