



Poniższe informacje o produkcie pochodzą ze strony producenta i mają charakter informacyjny.

W celu poznania szczegółowej oferty zapraszamy do kontaktu.

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**NOWOCZESNE ROZWIĄZANIA TELEKOMUNIKACYJNE DLA TWOJEJ FIRMY**

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# IP Cameras Quick Guide



# BOSCH

Invented for life

	General Surveillance				Day/Night High Performance						Megapixel Resolution	
	Indoor		Indoor/Outdoor		Indoor/Outdoor						Indoor/Outdoor	
												
Bosch IP Cameras	200 Series	200 Series	Dinion IP Series	FlexiDome IP	Dinion IP DN Series	FlexiDome IP DN	AutDome Easy II IP	AutoDome IP			Megapixel Cameras	
	NBC-225-P <sup>(1)</sup> NBC-255-P <sup>(2)</sup>	NDC-225-P <sup>(1)</sup> NDC-255-P <sup>(2)</sup>	NBC-455	NDC-455	NBN-498	NDN-498	VEZ-211	100 Series	200 Series <sup>(1)</sup> 300 Series <sup>(2)</sup>	500i Series	NWC-700 NWC-800	NWC-900
Image Sensor Type	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CCD	1/3" progressive scan CCD	1/3" progressive scan CCD	1/3" progressive scan CCD	1/4 in. CCD	1/3" Interline CCD	1/4" CCD	1/4" CCD	1/2" CMOS	1/2" CMOS
Day/Night	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes
IR Sensitive	No	No	No	No	Yes	Yes	No	Yes	Yes***	Yes	No	Yes
Dynamic Range (WDR)	60 dB	60 dB	60 dB	60 dB	120 dB	120 dB	50 dB	80 dB	Up to 128x	Up to 128x	60 dB	60 dB
Pan/Tilt/Zoom	No	No	No	No	No	No	Yes	No	360° 12X digital zoom <sup>(2)</sup>	360° 12X digital zoom	Digital PTZ	Digital PTZ
Video Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	200 - No 300 - Yes	Yes	Yes (programmable mask)	Yes (programmable mask)
Privacy Masking	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No	No
Auto Black	No	No	Yes	Yes	Yes	Yes	No	Yes	No	No	No	No
Intelligent Video Analysis (IVA)**	No	No	Yes	Yes	Yes	Yes	Optional	No	No	Yes	No	No
Lens	Fixed 4.9mm <sup>(1)</sup> 2.8 to 10 mm <sup>(2)</sup>	Fixed 4.0 mm <sup>(1)</sup> 2.8 to 10 mm <sup>(2)</sup>	C/CS	2.8 to 10 mm 9.0 to 22 mm	C/CS	2.8 to 10 mm 9.0 to 22 mm	10x Zoom (4.2-42.0 mm)	2.7 to 13.5 mm 5 to 50 mm	18x Color <sup>(1)</sup> 18, 26, 36x Day/Night <sup>(2)</sup>	18, 26, 36x Day/Night	C/CS	C/CS
Minimum Illumination (day mode) [lux]	1.0	1.0	0.3	0.30	0.015*	0.028*	1.0 F 1.8	0.29 (D/N)	0.5 (18x, 26x D/N)	0.6 (36x D/N)	0.5 - 2.0 MP 1.0 - 3.1 MP	1.0
Minimum Illumination (night mode) [lux]	N/A	N/A	0.012 F1.2	0.012	.0060*	0.0099*	N/A	0.12 (D/N)	0.1 (26x D/N)	0.16 (36x D/N)	N/A	0.01
Compression/Multistreaming	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(2) H.264 (1) M-JPEG	(5) M-JPEG Streams	(5) M-JPEG Streams
Images Per Second Color (max.)	25 @ VGA	25 @ VGA	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	25 @ 4CIF	30 @ 1280 x 1024	30 @ 1280 x 1024
Maximum Resolution	640 x 480 (VGA)	640 x 480 (VGA)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	1600 x 1200 (2.0 MP) 2040 x 1530 (3.1 MP)	2040 x 1530
Alarm Input/Output	1/1	1/1	2/1	2/1	2/1	2/1	2/1	No	200 - No Alarms 300 - 7/4	7/4	No	No
Audio / Audio Alarm	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Audio In	Audio In	No	No
Power Over Ethernet (PoE)	Yes	Yes	Yes	Yes	Yes	Yes	Yes (indoor version)	No	No	No	Yes	Yes
Power Consumption	3.36W	4.1W	6W	8W	6W	8W	12W (indoor) 27W Max (Outdoor)	11.5W - 47.5W	11.5W - 47.5W	14W - 50W	4W	4W
Operating Temperature	0° to 50° C	-10° to 50° C	-20° to 50° C	-20° to 50° C	-20° to 50° C	-20° to 50° C	-10°C to 40°C (indoor) -30°C to 50°C (outdoor)	-55° to 50° C (w/XT kit)	-55° to 50° C (w/XT kit)	-60° to 50° C (w/XT kit)	0° to 40° C	0° to 40° C
Vandal Resistant	N/A	No	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	N/A	N/A
All-weather Rating	N/A	IP54	N/A	IP 66 / NEMA 4X	N/A	IP 66 / NEMA 4X	IP65 (outdoor)	IP66 / NEMA 4X (pendant housing)	IP66 / NEMA 4X (pendant housing)	IP66 / NEMA 4X (pendant housing)	N/A	N/A
ONVIF compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No

\*SensUP ON \*\*Via license \*\*\*Refer to Dataheets for individual camera details

# IP Cameras Quick Guide

## IP Camera 200 Series

Easy to install, all-in-one indoor solution for start-up surveillance



- ▶ Complete network video surveillance system inside a compact camera
- ▶ Progressive scan for sharp images of moving objects
- ▶ Tri-streaming: H.264 and M-JPEG
- ▶ Removable SD/SDHC card offers days of storage inside the camera
- ▶ PC surveillance software supports multiple camera monitoring
- ▶ Two-way audio and audio alarm
- ▶ PoE-enabled for easy installation
- ▶ ONVIF Ready

### IP Camera 200 Series & Accessories

<b>NBC-255-P</b>	IP Camera System, 2.8 - 10 mm lens, mount, power supply
<b>NBC-225-P</b>	IP Camera System, 4.9 mm lens, mount, power supply
<b>NDC-255-P</b>	IP Dome Camera System including varifocal lens and power supply
<b>NDC-225-P</b>	IP Dome Camera System including fixed lens and power supply
<b>LTC9348/00</b>	Indoor dome housing
<b>UHI-SBG-0</b>	Indoor housing
<b>MVC-FAPEX</b>	Archive player export license

## FlexiDome IP

Perfectly designed cameras for discreet surveillance



- ▶ Vandal-resistant dome camera offers maximum protection
- ▶ 20-bit image processing technology reveals every detail of the image
- ▶ Day/Night IR sensitivity or NightSense produces detailed images, day or night
- ▶ Tri-streaming: dual H.264 and M-JPEG reduces bandwidth and storage
- ▶ Direct-to-iSCSI recording eliminates network video recorder, reducing costs
- ▶ Video Content Analysis improves detection accuracy and reduces false alarms
- ▶ PoE-enabled for easy installation
- ▶ IP66/NEMA 4X rated for indoor and outdoor climates

### FlexiDome IP Cameras & Accessories

<b>NDC-455V03-11P</b>	Color w/NightSense, 2.8-10mm
<b>NDC-455V03-12P</b>	Color w/NightSense, 2.8-10mm, IVA
<b>NDC-455V09-11P</b>	Color w/NightSense, 9.0-22mm
<b>NDC-455V09-12P</b>	Color w/NightSense, 9.0-22mm, IVA
<b>NDC-455V03-11PS</b>	Color w/NightSense, 2.8-10mm, SMB
<b>NDC-455V03-12PS</b>	Color w/NightSense, 2.8-10mm, IVA, SMB
<b>NDC-455V09-11PS</b>	Color w/NightSense, 9.0-22mm, SMB
<b>NDC-455V09-12PS</b>	Color w/NightSense, 9.0-22mm, IVA, SMB
<b>NDN-498V03-11P</b>	2X Day/Night, 2.8-10mm
<b>NDN-498V09-12P</b>	2X Day/Night, 2.8-10mm, IVA
<b>NDN-498V03-11PS</b>	2X Day/Night, 9.0-22mm
<b>NDN-498V03-12PS</b>	2X Day/Night, 9.0-22mm, IVA
<b>NDN-498V09-11PS</b>	2X Day/Night, 2.8-10mm, SMB
<b>NDN-498V09-12PS</b>	2X Day/Night, 9.0-22mm, IVA, SMB
<b>VDA-WMT-DOME</b>	FlexiDome Wall Mount
<b>VDA-PMT-DOME</b>	FlexiDome Pipe Mount
<b>VDA-CMT-DOME</b>	FlexiDome Corner Mount

## Dinion IP

Flexible, high performance solutions for the most challenging locations



- ▶ 20-bit image processing technology reveals every detail of the image
- ▶ Day/Night IR sensitivity or NightSense produces detailed images, day or night
- ▶ Tri-streaming: dual H.264 and M-JPEG reduces bandwidth and storage
- ▶ Direct-to-iSCSI recording eliminates network video recorder, reducing costs
- ▶ Video Content Analysis improves detection accuracy and reduces false alarms
- ▶ PoE-enabled for easy installation

### Dinion IP Cameras & Accessories

<b>NBC-455-11P</b>	Color w/ NightSense
<b>NBC-455-12P</b>	Color w/ NightSense, IVA
<b>NBN-498-11P</b>	2X Day/Night
<b>NBN-498-12P</b>	2X Day/Night, IVA
<b>MVC-FIVA4-CAM</b>	IVA 4.0 VCA software license

## AutoDome Easy II IP

Compact, rugged, affordable PTZ camera



- ▶ 70% smaller than a traditional PTZ dome cameras
- ▶ Ideal for discreet surveillance applications in large retail stores, banks, schools and commercial office buildings
- ▶ Tri-streaming: dual H.264 and M-JPEG reduces bandwidth and storage
- ▶ IVA (Intelligent Video Analysis)-ready for intelligence at the edge, detecting and alerting for user-defined events such as lines being crossed, loitering and objects left behind or removed from the scene

### AutoDome Easy II IP Cameras

<b>VEZ-211-IWTE</b>	Indoor, White, Tinted
<b>VEZ-211-IWTEIVA</b>	Indoor, White, Tinted w/ IVA
<b>VEZ-211-IWCE</b>	Indoor, White, Clear
<b>VEZ-211-IWCEIVA</b>	Indoor, White, Clear w/ IVA
<b>VEZ-211-EWTE</b>	Outdoor, White, Tinted
<b>VEZ-211-EWTEIVA</b>	Outdoor, White, Tinted w/ IVA
<b>VEZ-211-EWCE</b>	Outdoor, White, Clear
<b>VEZ-211-EWCEIVA</b>	Outdoor, White, Clear w/ IVA

\*Charcoal color options also available. Please see datasheet.

## AutoDome

Versatile, tough, high-speed PTZ cameras



- ▶ Modular camera design future-proofs technology investment – simply update modules instead of replacing entire camera
- ▶ Day/Night IR sensitivity or NightSense produces detailed images, day or night
- ▶ Hybrid IP capability offers migration path from analog to IP
- ▶ Tri-streaming: dual H.264 and M-JPEG reduces bandwidth and storage
- ▶ Direct iSCSI device support

### AutoDome IP Cameras

<b>100 SERIES</b>	Fixed Camera Systems
<b>200 SERIES</b>	PTZ Camera Systems
<b>300 SERIES</b>	Advanced PTZ Camera Systems
<b>500i SERIES</b>	Intelligent PTZ Camera Systems
<b>VG4-MTRN-E1</b>	TCP/IP Communications Module (H.264)

Visit [www.autodome.com](http://www.autodome.com) and select 'Configuration Tool' to design an ideal AutoDome System

## Megapixel

Ultra high-definition video cameras for revealing the finest details



- ▶ Ultra-high resolution images essential for identification
- ▶ Day/Night operation produces detailed images around the clock
- ▶ IP connectivity for viewing and controlling cameras from anywhere
- ▶ PoE-enabled for easy installation

### Megapixel Cameras & Lens

<b>NWC-0700</b>	2.0 MP Color, 12VDC/PoE
<b>NWC-0800</b>	3.1 MP Color, 12VDC/PoE
<b>NWC-0900</b>	Day/Night, 1.3MP Mono/3.1MP Color, 12VDC/PoE
<b>VLM-0814-MP</b>	MP lens, C 2/3-IN, 8 mm manual iris, f/1.4 to close
<b>VLM-1214-MP</b>	MP lens, C 2/3-IN, 12 mm manual iris f/1.4 to close
<b>VLM-1614-MP</b>	MP lens, C 2/3-IN, 16 mm manual iris f/1.4 to close
<b>VLM-2514-MP</b>	MP lens, C 2/3-IN, 25 mm manual iris f/1.4 to close
<b>VLM-3V1228-MP</b>	MP lens, C 2/3-IN, 12-36 mm manual iris f/2.8 to close
<b>VLM-2V0414-MP</b>	MP lens, C 1/2-IN, 4-8 mm manual iris f/1.4 to close
<b>VLG-2V0414-MP</b>	MP lens, C 1/2-IN, 4-8 mm direct drive f/1.4 to 360

# IP Cameras Quick Guide

## EX30

Powerful, long-range day/night Black Diamond Infrared Imager



- ▶ Black Diamond technology plus precision-engineered optics for nighttime imaging performance to 350 ft (100 m) in total darkness
- ▶ Day/Night 550 TVL color / 570 TVL monochrome with mechanical filter technology
- ▶ Video Content Analysis improves detection accuracy and reduces false alarms
- ▶ High-signal, low-noise images improve compression, lower bit rates and optimize video analytics
- ▶ Field-proven NEMA 4X all-weather design for long-term, reliable performance in harsh environments

### EX30 Cameras & Accessories

<b>NEI-308V05-21B</b>	1/3" Extended Day/Night, 540 TVL, 850 nm IR,
<b>NEI-308V05-21W</b>	5-50mm, black (-21B) or white (-21W)
<b>NEI-309V05-21B</b>	1/3" Extended Day/Night, 540 TVL, 940 nm IR,
<b>NEI-309V05-21W</b>	5-50mm, black (-21B) or white (-21W)
<b>EXMB.015B</b>	Pole mount adaptor, black
<b>EXMB.061B</b>	Stainless pole top bracket
<b>EXSH01B</b>	Sunhood, black
<b>EXMB.029B</b>	Ceiling mount bracket, black
<b>UPA-2450-60</b>	120 VAC, 60 Hz, 24 VAC, 50 VA out
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License

## EX36

Discreet, ultra-tough, corner-mount camera



- ▶ US Patented No-Grip, anchor-free design for maximum safety in high-risk environments
- ▶ 45° tilt eliminates blind spots for vandal-resistant surveillance of a 15ft x 15ft room, including the floor directly beneath the camera
- ▶ Available with 940 nm active-infrared for covert illumination and effective nighttime imaging under any lighting condition
- ▶ Intelligent Video Analysis-ready
- ▶ IR version available with a nighttime imaging performance up to 30ft (9m)

### EX36 Cameras & Accessories

<b>NEC-360F02-21W</b>	1/3" Color, 500 TVL, 2.5mm
<b>NEI-368F02-21W</b>	1/3" Extended Day/Night, 540 TVL, 850 nm IR, 2.5mm
<b>NEI-369F02-21W</b>	1/3" Extended Day/Night, 540 TVL, 940 nm IR, 2.5mm
<b>UPA-2430-60</b>	120 VAC, 60 Hz, 24 VAC, 30 VA out
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License

## EX80

Day/night Infrared Imager with Black Diamond technology



- ▶ Black Diamond technology plus precision-engineered optics for nighttime imaging performance to 200 ft (60 m) in total darkness
- ▶ 480 TVL 1/3" CCD for vivid daytime color, 420 TVL 1/3" monochrome CCD for nighttime imaging
- ▶ Intelligent Video Analysis-ready
- ▶ High-signal, low-noise images improve compression, lower bit rates and optimize video analytics
- ▶ Field-proven NEMA 4X all-weather design for long-term, reliable performance in harsh environments

### EX80 Cameras & Accessories

<b>NEI-808V04-21B</b>	Day/Night dual sensor, 480/420 TVL, 850 nm IR,
<b>NEI-808V04-21W</b>	4-9mm, black (-21B) or white (-21W)
<b>NEI-809V04-21B</b>	Day/Night dual sensor, 480/420 TVL, 940 nm IR,
<b>NEI-809V04-21W</b>	4-9mm, black (-21B) or white (-21W)
<b>EXMB.015B</b>	Pole mount adaptor, black
<b>EXMB.061B</b>	Stainless pole top bracket
<b>EXSH01B</b>	Sunhood, black
<b>EXMB.029B</b>	Ceiling mount bracket, black
<b>UPA-2450-60</b>	120 VAC, 60 Hz, 24 VAC, 50 VA out
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License

## EX82

High-resolution day/night Infrared Imager with Black Diamond technology



- ▶ Black Diamond technology combines with precision-engineered optics for nighttime imaging performance to 250 ft (75 m) in total darkness
- ▶ 550 TVL 1/3" color CCD for outstanding daytime color, 550 TVL 1/3" monochrome CCD for nighttime imaging
- ▶ Intelligent Video Analysis-ready
- ▶ High-signal, low-noise images improve compression, lower bit rates and optimize video analytics
- ▶ Field-proven NEMA 4X all-weather design for long-term, reliable performance in harsh environments

### EX82 Cameras & Accessories

<b>NEI-828V04-21B</b>	Day/Night dual sensor, 500/540 TVL, 850 nm IR,
<b>NEI-828V04-21W</b>	4-9mm, black (-21B) or white (-21W)
<b>NEI-829V04-21B</b>	Day/Night dual sensor, 500/540 TVL, 940 nm IR,
<b>NEI-829V04-21W</b>	4-9mm, black (-21B) or white (-21W)
<b>NEI-828V09-21B</b>	Day/Night dual sensor, 500/540 TVL, 850 nm IR,
<b>NEI-828V09-21W</b>	9-22mm, black (-21B) or white (-21W)
<b>NEI-829V09-21B</b>	Day/Night dual sensor, 500/540 TVL, 940 nm IR,
<b>NEI-829V09-21W</b>	9-22mm, black (-21B) or white (-21W)
<b>EXMB.015B</b>	Pole mount adaptor, black
<b>EXMB.061B</b>	Stainless pole top bracket
<b>EXSH01B</b>	Sunhood, black
<b>EXMB.029B</b>	Ceiling mount bracket, black
<b>UPA-2450-60</b>	120 VAC, 60 Hz, 24 VAC, 50 VA out
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License

## ZX55

Long-range day/night Infrared Imager with Black Diamond technology



- ▶ IVA (Intelligent Video Analysis)-ready for intelligence at the edge, detecting and alerting for user-defined events such as lines being crossed, loitering and objects left behind or removed from the scene
- ▶ IP Infrared Imaging harnesses the power of infrared illumination to deliver outstanding images day or night at a range of up to 1000 feet (300m), integrating seamlessly with existing IP network infrastructure
- ▶ Black Diamond reduces night-time image noise for improved compression performance and low bit rates while delivering the necessary details for effective night-time function of video analytics
- ▶ iSCSI recording

### ZX55 Cameras & Accessories

<b>NEI-558V90-21BS</b>	Long range IP IR Imager, Day/night, 9-90 mm, 850 nm Black Diamond, NTSC, black, wall mount
<b>NEI-559V90-21BS</b>	Long range IP IR Imager, Day/night, 9-90 mm, 940 nm Black Diamond, NTSC, black, wall mount
<b>NEI-558V90-21BP</b>	Long range IP IR Imager, Day/night, 9-90 mm, 850 nm Black Diamond, NTSC, black, pole mount
<b>NEI-559V90-21BP</b>	Long range IP IR Imager, Day/night, 9-90 mm, 940 nm Black Diamond, NTSC, black, pole mount
<b>ALTV244220</b>	230 VAC Power supply
<b>ALTV244UL</b>	120 VAC Power Supply
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License

## EX85

Dual megapixel Infrared Imager for amazing level of detail day or night



- ▶ 3.1 megapixel day sensor / 1.3 megapixel nighttime sensor for superior image detail and 24/7 optimized performance of video analytics
- ▶ Black Diamond technology for high-definition, detection-level night vision at 420 ft (128 m) in total darkness
- ▶ Bit Reduce technology minimizes bit rate without compromising image quality
- ▶ Field-proven IP67 all-weather design for long-term, reliable performance in harsh environments
- ▶ Maximum coverage means fewer cameras for reduced installation and running costs

### EX85 Cameras & Accessories

<b>EX85D8IP08B</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 8mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP08W</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 8mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP12B</b>	1/2" Megapixel Day/Night, 12mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP12W</b>	1/2" Megapixel Day/Night, 12mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP25B</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 25mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP25W</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 25mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP50B</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 50mm, 850 nm IR, black (B) or white (W)
<b>EX85D8IP50W</b>	1/2" Megapixel Day/Night, 3.1 / 1.3 dual sensor, 50mm, 850 nm IR, black (B) or white (W)
<b>EXMB.015B</b>	Pole mount adaptor, black (B) or white (W)
<b>EXMB.015W</b>	Pole mount adaptor, black (B) or white (W)
<b>EXMB.017B</b>	Wall mount adaptor, black (B) or white (W)
<b>EXMB.017W</b>	Wall mount adaptor, black (B) or white (W)
<b>EXMB.061B</b>	Stainless pole top bracket
<b>EXSH01B</b>	Sunhood, black
<b>EXMB.029B</b>	Ceiling mount bracket, black (B) or white (W)
<b>EXMB.029W</b>	Ceiling mount bracket, black (B) or white (W)
<b>UPA-2450-60</b>	120 VAC, 60 Hz, 24 VAC, 50 VA out
<b>NEA-IP200B-FS3</b>	IVA 3.0 VCA License



# IP Cameras Quick Guide



# BOSCH

Invented for life

## Extreme Environment



Bosch IP Cameras	EX7 Ceiling-Mount No-Grip	EX30 IP Infrared Imager	EX36 Corner-mount No-Grip	EX80 IP Infrared Imager	EX82 IP Infrared Imager	ZX55 IP Infrared Imager	EX85 Megapixel IP Infrared Imager
Camera Options	Color or High-Performance Day/Night	High-Performance Day/Night	Color or High-Performance Day/Night	Standard Resolution Color/Monochrome	High Resolution Color/Monochrome	High Performance Day/Night	Megapixel Color/ Megapixel Monochrome
Image Sensor Type	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/2" CMOS Color Sensor, 3.1 Megapixel 1/2" CMOS Mono. Sensor, 3.1 Megapixel
Day/Night	Optional	Yes	Optional	Yes	Yes	Yes	Yes
IR Sensitive	Optional	Yes	Optional	Yes	Yes	Yes	Yes
Dynamic Range (WDR)	No	No	No	No	No	No	60 dB
Pan/Tilt/Zoom (PTZ)	No	No	No	No	No	No	Digital PTZ
Intelligent Video Analysis (IVA)**	Yes	Yes	Yes	Yes	Yes	Yes	No
Video Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Programmable Mask)
Auto Black	No	No	No	No	No	No	No
Lens	4-9 mm Auto-iris 9-22 mm Auto-iris 5-50 mm Auto-iris	5-50 mm Auto-iris	2.5 mm, 3.6 mm	4-9 mm Auto-iris	4-9 mm Auto-iris 9-22 mm Auto-iris	9-90 mm Auto-iris	8 mm, 12 mm, 25 mm, 50 mm
Minimum Illumination (day mode) [lux]	2.7 F1.4 Color	0.02 F1.4 Day/Night	2.7 F1.4 Color	1.0 F2	2.7 F1.4	0.02 F1.4 Day/Night	1.0 F1.4
Wavelength	n/a	850 nm or 940 nm	850 nm or 940 nm	850 nm or 940 nm	850 nm or 940 nm	850 nm or 940 nm	850 nm
Night Vision Maximum Range	n/a	350 ft. (~100 m) @ 850 nm	30 ft. @ 850 nm	200 ft. (60 m) @ 850 nm	250 ft. (75 m) @ 850 nm	1000 ft. (300m) @ 850 nm	420 ft. (128 m) @ 850 nm
Compression/Multistreaming	(2) H.264*** (1) JPEG	(2) H.264*** (1) JPEG	(2) H.264*** (1) JPEG	(2) H.264*** (1) JPEG	(2) H.264*** (1) JPEG	(2) H.264*** (1) JPEG	(1) 5 JPEG Streams
Images Per Second Color (max.)	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 1280 x 1024
Maximum Resolution	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	704 x 480 (4CIF)	2040 x 1530
Alarm Input/Output	No	No	No	No	No	No	No
Audio / Audio Alarm	No	No	No	No	No	No	No
Power Over Ethernet (PoE)	No	No	No	No	No	12-24 VAC or VDC	No
Power Consumption	5W	36W (with IR)	11W Max. (with IR)	36W Max.	36W Max.	58W Max.	24W Max.
Operating Temperature	-13° to 140° F -25° to 60° C	-58° to 122° F -50° to 50° C	-58° to 122° F -50° to 50° C	-58° to 122° F -50° to 50° C	-58° to 122° F -50° to 50° C	-58° to 122° F -50° to 50° C	-40° to 122° F -40° to 50° C
Vandal-Resistant	Yes	No	Yes	No	No	No	No
All-Weather Rating	IP66	IP67 / NEMA4	n/a	IP67 / NEMA4	IP67 / NEMA4	IP67 / CSA Type 4X	IP67 / NEMA4

\*\*\*Bosch IP camera firmware version 4.0