

IP Cameras Quick Guide



BOSCH

Invented for life

	General Purpose				High Resolution/High Performance				Megapixel Resolution	
Bosch IP Cameras	200 Series NBC-255-P	200 Series NBC-225-P	Dinion IP NWC-0455	FlexiDome IP NWD-455	Dinion DN IP NWC-0495	FlexiDome DN IP NWD-495	AutoDome IP 100 Series	AutoDome IP 500i Series	Megapixel NWC-0700/0800	Megapixel NWC-0900
Image Sensor Type	1/4" CMOS	1/4" CMOS	1/3" Interline CCD	1/3" Interline CCD	1/3" Interline CCD	1/3" Interline CCD	1/3" Interline CCD	1/4" CCD	1/2" CMOS	1/2" CMOS
Day/Night	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
IR Sensitive	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes
Dynamic Range (WDR)	No	No	60 dB	60 dB	90 dB	90 dB	90 dB	No	60 dB	60 dB
Pan/Tilt/Zoom	No	No	No	No	Yes	No	No	360° continuous/107°/12X digital zoom	Digital PTZ	Digital PTZ
Intelligent Video Analysis (IVA)**	No	No	Yes	Yes	Yes	Yes	No	No	No	No
Video Motion Detection	Yes	Yes	Yes	Yes	Yes (Multizone)	Yes (Multizone)	No	Yes	Yes (programmable mask)	Yes (programmable mask)
Auto Black	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No
Lens	2.8 to 10 mm F/1.4 CS	Fixed 4.9 mm F/2.8	C/CS	2.6 to 6 mm F/1.4 3.7 to 12 mm F/1.6 9.0 to 22 mm F/1.4	CS	3 to 9 mm F/1.4 9.0 to 22 mm F/1.4	2.7 to 13.5 mm F/1.4 5 to 50 mm F/1.6	18X Zoom (4.1 to 73.8 mm) F/1.4	C/CS	C/CS
Minimum Illumination (day mode) [lux]	1.0 F1.4	1.0 F2.8	0.3 F1.2	0.44 (2.6 to 6 mm) 0.38 (3.7 to 12 mm)	0.024* F1.2	0.032*	0.029* (2.7 to 13.5 mm) 0.042* (5 to 50 mm)	.0041*	0.5 (F1.4) - 2.0 MP 1.0 (F1.4) - 3.1 MP	1.0 (F1.4)
Compression/Multistreaming	(1) H.264*** (1) M-JPEG	(1) H.264*** (1) M-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	(2) H.264*** (1) JPEG	(1) 5 JPEG Streams	(1) 5 JPEG Streams
Images Per Second Color (max.)	30 @ VGA	30 @ VGA	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 4CIF	30 @ 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)	1600 x 1200 (2.0 MP) 2040 x 1530 (3.1 MP)	2040 x 1530
Alarm Input/Output	1/1	1/1	1/1	No	1/1	No	1/1	7/4	No	No
Audio / Audio Alarm	Yes	Yes	No	No	No	No	No	No	No	No
Power Over Ethernet (PoE)	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Power Consumption	3.36W	3.36W	8W	10.5W	8W	10.5W	11.5W - 47.5W	14W - 50W	4W	4W
Operating Temperature	32° to 122° F 0° to 50° C	32° to 122° F 0° to 50° C	14° to 104° F -10° to 40° C	14° to 104° F -10° to 40° C	14° to 104° F -10° to 40° C	14° to 104° F -10° to 40° C	14° to 122° F (Indoor) -10° to 50° C -67° to 122° F (w/ XT kit) -55° to 50° C	14° to 104° F (Indoor) -10° to 40° C -76° to 122° F (w/ XT kit) -60° to 50° C	32° to 104° F 0° to 40° C	32° to 104° F 0° to 40° C
Vandal Resistant	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	N/A	N/A
All-weather Rating	N/A	N/A	N/A	IP 66 / NEMA 4X	N/A	IP 66 / NEMA 4X	IP66 / NEMA 4X (pendant housing) IP54 (in-ceiling housing)	IP66 / NEMA 4X (pendant housing) IP54 (in-ceiling housing)	N/A	N/A

* SensUP ON ** Via license *** Bosch IP camera firmware version 4.0

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
- ▶ Dual-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

NBC-255-P	IP Camera System, 2.8 - 10 mm lens, mount, power supply
NBC-225-P	IP Camera System, 4.9 mm lens, mount, power supply
LTC9348/00	Indoor housing
UHI-CBG-0	Indoor housing
MVC-FAPEX	Archive player export license

FlexiDome IP

Perfectly designed cameras for discreet surveillance



- ▶ Vandal-resistant dome camera offers maximum protection
- ▶ Day/Night IR sensitivity or NightSense produces detailed images, day or night
- ▶ MPEG-4 compression reduces bandwidth and storage demands
- ▶ 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

FlexiDome IP Cameras & Accessories

NWD-455V03-20P	Color w/ NightSense, 2.6 - 6 mm lens, PoE
NWD-455V04-20P	Color w/ NightSense, 3.7 - 12 mm lens, PoE
NWD-455V09-20P	Color w/NightSense, 9.0 - 22 mm lens, PoE
NWD-495V03-20P	Day/Night, w/ 3 - 9 mm lens, PoE
NWD-495V09-20P	Day/Night, w/ 9.0 - 22 mm lens, PoE
VDA-NWDPMT	Pendant Pipe Mount
VDA-NWDWMT	Wall Mount
VDA-NWDCMT	Corner Mount
NWD-04X5-FS1	IVMD (Intelligent Video Motion Detection) v1.0 License
NWD-4X5-FS3	IVA (Intelligent Video Analysis) v3.X License

Dinion IP

Flexible, high performance solutions for the most challenging locations



- ▶ 15-bit technology delivers award-winning image quality
- ▶ Day/Night IR sensitivity or NightSense produces detailed images, day or night
- ▶ MPEG-4 compression reduces bandwidth and storage demands
- ▶ Hybrid capability offers migration path from analog to IP
- ▶ 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

NWC-0455-20P	Color w/ NightSense, PoE
NWC-0455-28	Color w/ NightSense, w/2.8 to 10 mm lens
NWC-0455-28W	Color w/ NightSense, w/2.8 to 10 mm lens & mount
NWC-0455-55	Color w/ NightSense, w/5 to 50 mm lens
NWC-0455-55W	Color w/ NightSense, w/5 to 50 mm lens & mount
NWC-0495-20P	Day/Night, WDR, PoE, 60Hz
NWC-0495-28	Day/Night, WDR, w/2.8 to 11 mm IR lens
NWC-0495-28W	Day/Night, WDR, w/2.8 to 11 mm IR lens & mount
NWC-0495-75	Day/Night, WDR, w/7.5 to 50 mm IR lens
NWC-0495-75W	Day/Night, WDR, w/7.5 to 50 mm IR lens & mount
NWC-04X5-FS1	IVMD v1.0 License
NWC-04X5-FS3	IVA v3.X License

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
- ▶ DVD-quality 4CIF video at 30 IPS
- ▶ MPEG-4 compression reduces bandwidth and storage demands
- ▶ Direct iSCSI device support

AutoDome IP Cameras

100 SERIES	Fixed Camera Systems
200 SERIES	PTZ Camera Systems
300 SERIES	Advanced PTZ Camera Systems
500i SERIES	Intelligent PTZ Camera Systems
VG4-MTRN	TCP/IP Communications Module

Visit 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

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

EX7

High-performance day/night camera in a sleek, vandal-resistant housing



- ▶ US Patented No-Grip, anchor-free design provides maximum safety for high-risk environments including prison cells and hospitals
- ▶ 45° tilt eliminates blind spots for vandal-resistant surveillance of a 15 ft x 15 ft room including the floor directly beneath the camera
- ▶ Available with 940 nm active infrared for covert illumination and effective nighttime imaging in any lighting condition
- ▶ Intelligent Video Analysis-ready

EX7 Cameras & Accessories

NEC-070V04-21W	1/3" Color, 500 TVL, 4-9mm
NEC-070V09-21W	1/3" Color, 500 TVL, 9-22mm
NEC-070V05-21W	1/3" Color, 500 TVL, 5-50mm
NEN-070V04-21W	1/3" Day/Night, 540 TVL, 4-9mm
NEN-070V09-21W	1/3" Day/Night, 540 TVL, 9-22mm
NEN-070V05-21W	1/3" Day/Night, 540 TVL, 5-50mm
NEA-IP200B-FS3	IVA 3.0 VCA License

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
- ▶ 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

EX30 Cameras & Accessories

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

EX36 Cameras & Accessories

NEC-360F02-21W	1/3" Color, 500 TVL, 2.5mm
NEC-360F04-21W	1/3" Color, 500 TVL, 3.6mm
NEI-368F02-21W	1/3" Extended Day/Night, 540 TVL, 850 nm IR, 2.5mm
NEI-368F04-21W	1/3" Extended Day/Night, 540 TVL, 850 nm IR, 3.6mm
NEI-369F02-21W	1/3" Extended Day/Night, 540 TVL, 940 nm IR, 2.5mm
NEI-369F04-21W	1/3" Extended Day/Night, 540 TVL, 940 nm IR, 3.6mm
UPA-2430-60	120 VAC, 60 Hz, 24 VAC, 30 VA out
NEA-IP200B-FS3	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

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

NEI-828V04-21B	Day/Night dual sensor, 500/540 TVL, 850 nm IR,
NEI-828V04-21W	4-9mm, black (-21B) or white (-21W)
NEI-829V04-21B	Day/Night dual sensor, 500/540 TVL, 940 nm IR,
NEI-829V04-21W	4-9mm, black (-21B) or white (-21W)
NEI-828V09-21B	Day/Night dual sensor, 500/540 TVL, 850 nm IR,
NEI-828V09-21W	9-22mm, black (-21B) or white (-21W)
NEI-829V09-21B	Day/Night dual sensor, 500/540 TVL, 940 nm IR,
NEI-829V09-21W	9-22mm, black (-21B) or white (-21W)
EXMB.015B	Pole mount adaptor, black
EXMB.061B	Stainless pole top bracket
EXSH01B	Sunhood, black
EXMB.029B	Ceiling mount bracket, black
UPA-2450-60	120 VAC, 60 Hz, 24 VAC, 50 VA out
NEA-IP200B-FS3	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 Imager harnesses the power of infrared illumination to deliver outstanding images day or night, 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

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

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

IP Cameras Quick Guide



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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, IR Corrected 9-22 mm Auto-iris, IR Corrected 5-50 mm Auto-iris, IR Corrected	5-50 mm Auto-iris, IR Corrected	2.5 mm, 3.6 mm	4-9 mm Auto-iris, IR Corrected	4-9 mm Auto-iris, IR Corrected 9-22 mm Auto-iris, IR Corrected	9-90 mm Auto-iris, IR Corrected	8mm, 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

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