

Quick Selection Guide

Extreme Series: All-Environment Cameras



BOSCH
Invented for life

All-Environment



EX10

EX14

EX14-M

EX14N

EX27N

		EX10	EX14	EX14-M	EX14N	EX27N
Camera Information	Camera Type	Extreme Environment	Extreme Environment	Marine	Integrated Day/Night	All-environment
	Camera Options	High Resolution Day/Night	High Resolution Day/Night	High Resolution Day/Night	High Resolution Day/Night	High Resolution Day/Night
Imaging	Image Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
	Day/Night	■	■	■	■	■
	Lens Option	2.5 mm, 2.9 mm, 3.6 mm 4.3 mm, 6.0 mm, 8 mm, 12 mm, 16 mm	4 - 9 mm * 9 - 22 mm *	4 - 9 mm *	4 - 9 mm *	4 - 9 mm *
Sensitivity [F1.4]	Min. Illumination (day mode)	2.7 lux (Color)	2.7 lux @F1.4 (Color)	0.1 lux (Color)	0.02 lux	0.02 lux
	Min. Illumination (night mode)	0.02 lux (D/N)	0.02 lux (D/N)	0.001 lux (D/N)	0 lux	0 lux
Infrared	Integrated IR	□	□	■	■	■
	Wavelength	N/A	N/A	940 nm	850 nm	850 or 940 nm
	Night Vision Max. Range	N/A	N/A	40 ft (12 m)	40 ft (12 m)	40 ft (12 m)
	3D Diffuser	N/A	N/A	■	□	■
Power	Input Voltage	12-24 VAC or VDC	12-24 VAC or VDC	12-24 VAC or VDC	12-24 VAC or VDC	12-24 VAC or VDC
	Max. Power Consumption	1.4 W	2 W	5 - 8 W	4.5 W	4.5 W
Environmental	Operating Temperature	-76° to +140° F -60° to +60° C	-76° to +140° F -60° to +60° C	-76° to +140° F -60° to +60° C	-76° to +140° F -60° to +60° C	-58° to 122° F -50° to 50° C
	Construction	ABS / nylon resin	ABS / nylon resin	Acrylonitrile Styrene Acrylate and Polycarbonate resin	ABS / nylon resin	Aluminum
	All-weather Rating	IP67 / NEMA6 / NEMA6P	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X

* Auto-iris, IR Corrected

Quick Selection Guide

Extreme Series: Vandal-Proof Cameras



Vandal-Proof



EX36 EX36-IP EX36N EX40 EX40N EX49 EX49N

		EX36	EX36-IP	EX36N	EX40	EX40N	EX49	EX49N
Camera Information	Camera Type	Corner-mount No-grip Camera	Corner-mount No-grip Camera	Corner-mount No-grip Camera	Ultra Vandal-proof Dome	Ultra Vandal-proof Dome	Ultra Vandal-proof Dome	Ultra Vandal-proof Dome
	Mounting Type	Corner Mount	Corner Mount	Corner Mount	Surface Mount	Surface Mount	Conical No-grip	Conical No-grip
	Camera Options	High Resolution Color	Color or High-Performance Day/Night	High Resolution Day/Night	Color, Day/Night	High Resolution Day/Night	Color, Day/Night	High Resolution Day/Night
Imaging	Image Sensor	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD	1/3" CCD
	Day/Night	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Pan-Tilt-Twist Gimbal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Lens Options	2.5 mm 3.6 mm	2.5 mm 3.6mm	2.5 mm 3.6 mm	2.8 - 10 mm Auto-iris	2.8 - 10 mm Auto-iris	2.8 - 10 mm Auto-iris	2.9 mm 6 mm
Sensitivity [F1.4]	Min. Illumination (day mode)	2.7 lux (Color)	2.7 lux (Color)	0.02 lux	2.7 lux (Color)	0.02 lux	2.7 lux (Color)	0.02 lux
	Min. Illumination (night mode)	N/A	0 lux (D/N)	0 lux	0 lux (D/N)	0 lux	0 lux (D/N)	0 lux
Infrared	Integrated IR	<input type="checkbox"/>	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Wavelength	N/A	850 or 940 nm	850 or 940 nm	N/A	850 or 940 nm	N/A	850 or 940 nm
	Night Vision Max. Range	N/A	30 ft. (9 m)	30 ft (9 m)	N/A	40 ft (12 m)	N/A	40 ft (12 m)
	Constant Light	N/A	<input type="checkbox"/>	<input type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>
	3D Diffuser	N/A	<input checked="" type="checkbox"/> *	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Power	Input Voltage	12 - 24 VAC or VDC	12 VDC / 24 VAC	12 - 24 VAC or VDC	12 - 24 VAC or VDC	12 - 24 VAC or VDC	12 - 24 VAC or VDC	12 - 24 VAC or VDC
	Max. Power Consumption	1.4 W	11W	10.8 W	5 W	8 W	5 W	8 W
Environmental	Operating Temperature	-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 +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 -40° to +60° C
	Vandal Resistant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	All-weather Rating	N/A	N/A	N/A	IP66	IP66	IP66	IP66

* IR models only

Quick Selection Guide

Extreme Series: Infrared Imagers



Infrared Imagers



VEI-30

NEI-30

EX85

ZX55

ZX55-IP

		VEI-30	NEI-30	EX85	ZX55	ZX55-IP
Camera Information	Camera Type	Dinion Infrared Imager	Dinion IP Infrared Imager	Megapixel IP Infrared Imager	Infrared Imager	IP Infrared Imager
	Camera Options	Dinion 2X Day/Night	Dinion 2X Day/Night	Megapixel Color/Monochrome	High Resolution Day/Night	High Resolution Day/Night
Imaging	Image Sensor	1/3" CCD	1/3" CCD	1/2" CMOS Color, 3.1 MP 1/2" CMOS Mono, 1.3 MP	1/3" CCD	1/3" CCD
	Day/Night	■	■	■	■	■
	Lens Options	5 - 50 mm *	5 - 50 mm *	8 mm, 12 mm 25 mm, 50 mm	9 - 90 mm *	9 - 90 mm *
Sensitivity [F1.4]	Min. Illumination (day mode)	0.047 lux (Color) **	0.047 lux (Color) **	1.0 lux	0.02 lux	0.02 lux
	Min. Illumination (night mode)	0 lux	0 lux	0 lux	0 lux	0 lux
Infrared	Integrated IR	■	■	■	■	■
	Wavelength	850 or 940 nm	850 or 940 nm	850 nm	850 or 940 nm	850 or 940 nm
	Constant Light	■	■	□	□	□
	3D Diffuser	■	■	■	■	■
Power	Input Voltage	12 VDC/24 VAC	12 VDC/24 VAC	12-24 VAC or VDC	12-24 VAC or VDC	12-24 VAC or VDC
	Max. Power Consumption	35 W	35 W	36 W	58 W	58 W
	Power over Ethernet + (PoE+)	N/A	■	□	N/A	□
Environmental	Operating Temperature	-40° to 122° F -40° to 50° C	-40° to 122° F -40° to 50° C	-40° to 122° F -40° to 50° C	-58° to 122° F -50° to 50° C	-58° to 122° F -50° to 50° C
	All-weather Rating	IP67 / NEMA 4X	IP67 / NEMA 4X	IP66 / NEMA4	IP67 / CSA Type 4X	IP67 / CSA Type 4X
IR Performance Range ±	Detection	525 ft (160 m)	525 ft (160 m)	420 ft (128 m)	1000 ft (300 m)	1000 ft (300 m)
	Classification	390 ft (120 m)	390 ft (120 m)	320 ft (98 m)	820 ft (250 m)	820 ft (250 m)
	Recognition	295 ft (90 m)	295 ft (90 m)	250 ft (76 m)	500 ft (150 m)	500 ft (150 m)
	Identification	165 ft (50 m)	165 ft (50 m)	150 ft (45 m)	330 ft (100 m)	330 ft (100 m)

* Auto-iris, IR Corrected

** SensUp On @ F1.2, 50 IRE

± Zero lux environment at 850 nm illumination

Quick Selection Guide

Extreme Series: Explosion-Protected



Explosion-Protected



EX65 Camera

MIC 440

EX65 Illuminator

		EX65 Camera	MIC 440	EX65 Illuminator
Camera Information	Camera Type	Explosion-protected Camera	Explosion-protected PTZ Camera	Explosion-protected Infrared Illuminator
	Camera Options	Color, Day/Night	PTZ Day/Night	n/a
Imaging	Image Sensor	1/3" CCD	1/4" CCD	n/a
	Day/Night	■	■	n/a
	Lens Options	5 - 50 mm *	4.1 - 73.8 mm (18x) 3.4 - 122.4 mm (36x)	n/a
	Min. Illumination (day mode)	0.047 lux (Color) **	0.7 lux (18x) 1.4 lux (36x)	n/a
Sensitivity [F1.4]	Min. Illumination (night mode)	0.019 lux **	0.01 lux (18x) 0.1 lux (36x)	n/a
	Integrated IR	□	□	■
Infrared	Wavelength	N/A	N/A	850 or 940 nm
	Night Vision Max. Range	N/A	N/A	178 ft (54 m)
	Beam Angle	N/A	N/A	20° or 50°
	LED	N/A	N/A	10x High-efficiency Surface Mount LED's
	Constant Light	N/A	N/A	■
	3D Diffuser	N/A	N/A	■
Power	Input Voltage	12-24 VAC or VDC	18 VAC	
	Max. Power Consumption	22 W	25.2 W	40 W
Environmental	Operating Temperature	-58° to 140° F (-50° to 60° C) Aluminum -58° to 131° F (-50° to 55° C) Stainless	-4° to +140° F -20° to +60° C	-58° to +140° F -50° to +60° C
	Construction	Stainless Steel or Anodized aluminum	Machined, Alodined, Powder-coated aluminum	Stainless Steel or Anodized aluminum
Certifications	Class I, II, III	√	I,II	√
	Division 1,2	√	√	√
	Group A			
	Group B,C,D,E,F,G	C,D,E,F,G	C,D,E,F,G	C,D,E,F,G
	ATEX Ex II 2G	√	√	√
	ATEX Exd IIC T6	√	√	√
	Temp Code T6	√	√	√
CSA/NEMA 4X compliant	√	√	√	

* Auto-iris, IR Corrected

** SensUp On @ F1.2, 50 IRE