



CAMERA COMPARISON CHART

Model	NL-MC305	NL-CC565	NL-MD167	NL-CD173	NL-MD4168V	NL-CD4176V	BULLET-BW
Image Device	1/3-inch B/W CCD	1/3-inch Color CCD	1/3-inch B&W CCD	1/3-inch Color CCD	1/3-inch B&W HR CCD	1/3-inch Color CCD	1/3-inch B&W CCD
Resolution	380 TVL	420 TVL	380 TVL	330 TVL	600 TVL	480 TVL	420 TVL
Picture Elements (HxV)	512 x 492	510 x 492	510 x 492	510 x 492	542 x 492	768 x 494	542 x 492
Min Illumination Day	0.01 lux at F1.2	0.5 lux at F2.0	0.1 lux at F3.8, 50 IRE	0.8 lux at F1.2, 50 IRE	0.1 lux at F2.0	0.8 lux at F2.0	0.05 lux at F2.0
Min Illumination Night	-	-	-	-	-	-	-
Lens	-	-	3.6 mm, F3.8 fixed	3.6 mm, F2.0 fixed	2.6 to 6.0 mm VF	2.6 to 6.0 mm VF	3.6 mm
S/N Ratio	46 dB (AGC off)	48 dB (AGC off)	46 dB	50 dB	50 dB (AGC off)	50 dB (AGC off)	>50 dB (AGC off)
Backlight Compensation	60 percent center	On/Off	Auto	Auto	On/Off	On/Off	-
Iris Control	Electronic DC or video type	Electronic DC or video type	Electronic	Electronic	Auto	Auto	Electronic
Shutter Speed (second)	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/50, 1/60 ~ 1/100,000
Operating Temperature °C	-10 to 40 °C	-10 to 40 °C	0 to 50 °C	0 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C
Operating Temperature °F	14 to 104 °F	14 to 104 °F	32 to 122 °F	32 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F
Power Requirement	24 VAC	24 VAC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Power Consumption	3 watts	2.7 watts	2 watts	2 watts	1 watt	1 watt	1.2 watts



Model	BULLET-C	NL-MFD2280V	NL-CFD2480V	NL-MSD1280V	NL-CSD1480V	NL-CSD1480IR	NL-CSD1482V	NL-CSD1486V
Image Device	1/3-inch Color CCD	1/3-inch B&W CCD	1/3-inch Super HAD Color CCD	1/3-inch B&W CCD	1/3-inch Super HAD Color CCD	1/3-inch Super HAD Color CCD	1/3-inch Super HAD Color CCD	1/3-inch Super HAD Color CCD
Resolution	380 TVL	420 TVL	500 TVL	420 TVL	500 TVL	500 TVL	500 TVL	500 TVL
Picture Elements (HxV)	500 x 482	512 x 492	768 x 494	512 x 492	768 x 494	768 x 494	768 x 494	768 x 494
Min Illumination Day	0.3 lux at F2.0	0.05 lux at F2.0	0.3 lux at F2.0	0.05 lux at F2.0	0.3 lux at F2.0	0.3 lux at F2.0	0.3 lux at F2.0	0.3 lux at F2.0
Min Illumination Night	-	-	-	-	-	0 lux up to 60 feet/22 LEDs	-	-
Lens	3.6 mm	4 to 9 mm VF	4 to 9 mm VF	4 to 9 mm VF	4 to 9 mm VF	4 to 9 mm VF	2.6 to 6 mm VF	9 to 22 mm VF
S/N Ratio	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)
Backlight Compensation	-	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off	On/Off
Iris Control	Electronic	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Shutter Speed (second)	1/50, 1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000
Operating Temperature °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C
Operating Temperature °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F
Power Requirement	12 VDC	12 VDC or 24 VAC	12 VDC or 24 VAC	12 VDC or 24 VAC	12 VDC or 24 VAC	12 VDC or 24 VAC	12 VDC or 24 VAC	12 VDC or 24 VAC
Power Consumption	1.2 watts	1.2 watts at 12 VDC; 1.92 watts at 24 VAC	1.5 watts at 12 VDC; 2.16 watts at 24 VAC	1.2 watts at 12 VDC; 1.92 watts at 24 VAC	1.5 watts at 12 VDC; 2.16 watts at 24 VAC	1.5 watts at 12 VDC; 2.16 watts at 24 VAC	1.5 watts at 12 VDC; 2.16 watts at 24 VAC	1.5 watts at 12 VDC; 2.16 watts at 24 VAC



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Model	BULLET-C/VF	NL-660IR/20M	NL-630IR/20M	NL-EH380/20IR	BULLET-BW/IR	BULLET-C/IR	BULLET-BW/IR21
Image Device	1/3-inch Color HR CCD	1/3-inch Color CCD	1/3-inch Color CCD	1/3-inch Color CCD	1/3-inch B&W CCD	1/3-inch Color CCD	1/3-inch B&W CCD
Resolution	480 TVL	480 TVL	420 TVL	420 TVL	420 TVL	380 TVL	420 TVL
Picture Elements (HxV)	768 x 494	771 x 492	512 x 492	512 x 492	542 x 492	500 x 582	542 x 492
Min Illumination Day	0.1 lux at F2.0	0.5 lux at F2.0	0.5 lux at F2.0	0.5 lux at F2.0	-	-	-
Min Illumination Night	-	0 lux up to 20 feet/21 LEDs	0 lux up to 20 feet/21 LEDs	0 lux up to 20 feet/20 LEDs	0 lux up to 20 feet/7 LEDs	0 lux up to 20 feet/7 LEDs	0 lux up to 50 feet/20 LEDs
Lens	4 to 9 mm VF F1.6 to F2.4	4 mm	4 mm	4 mm, fixed	3.6 mm	3.6 mm	3.6 mm
S/N Ratio	>50 dB	>48 dB (AGC off)	>48 dB (AGC off)	>48 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)	>50 dB (AGC off)
Backlight Compensation	-	Auto	Auto	Auto	-	-	Auto
Iris Control	Electronic	Auto	Auto	Auto	Electronic	Electronic	Electronic
Shutter Speed (second)	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000	1/60 ~ 1/100,000
Operating Temperature °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C	-10 to 50 °C
Operating Temperature °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F	14 to 122 °F
Power Requirement	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Power Consumption	1.6 watts	60 mA, 410 mA (IR on)	60 mA, 410 mA (IR on)	90 mA, 270 mA (IR on)	1.8 watts	2.28 watts	4.08 watts



Model	BULLET-C/IR21	BULLET-DN/IR36	NL-IR56	NL-MBC42BL	NL-MBC42CL	NL-CBC138BL	NL-CBC138CL	NL-PIRCAM
Image Device	1/3-inch Color CCD	1/3-inch Super HAD Color CCD	Infrared illuminator	1/3-inch B&W interline transfer	1/3-inch Color interline transfer	1/3-inch B&W interline transfer	1/3-inch Color interline transfer	1/3-inch B&W interline transfer
Resolution	380 TVL	500 TVL	-	420 TVL	420 TVL	380 TVL	380 TVL	350 TVL
Picture Elements (HxV)	500 x 582	768 x 494	-	510 x 492	510 x 492	510 x 492	510 x 492	512 x 492
Min Illumination Day	-	-	-	0.05 lux	0.05 lux	1.0 lux	1.0 lux	2.0 lux at F4.5
Min Illumination Night	0 lux up to 50 feet/21 LEDs	0 lux up to 60 feet/36 LEDs	0 lux/56 LEDs	-	-	-	-	-
Lens	3.6 mm	4 to 9 mm VF	-	3.6 mm	3.7 mm	3.6 mm	3.7 mm	5.5 mm
S/N Ratio	>50 dB (AGC off)	>50 dB (AGC off)	-	>50 dB	>50 dB	>46 dB	>46 dB	>46 dB
Backlight Compensation	Auto	Auto	-	-	-	-	-	-
Iris Control	Electronic	Auto	-	Electronic	Electronic	Electronic	Electronic	Electronic
Shutter Speed (second)	1/60 ~ 1/100,000	1/60 ~ 1/100,000	-	1/100,000	1/100,000	1/100,000	1/100,000	1/100,000
Operating Temperature °C	-10 to 50 °C	-10 to 50 °C	-20 to 50 °C	-10 to 55 °C	-10 to 55 °C	-20 to 60 °C	-20 to 60 °C	10 to 55 °C
Operating Temperature °F	14 to 122 °F	14 to 122 °F	-4 to 122 °F	14 to 131 °F	14 to 131 °F	4 to 140 °F	4 to 140 °F	50 to 131 °F
Power Requirement	12 VDC	24 VAC	12 VDC	9 to 15 VDC	9 to 15 VDC	12 VDC	12 VDC	12 VDC
Power Consumption	3.36 watts	9.6 watts	650 mA	80 mA	80 mA	180 mA	180 mA	2 watts