	B.1		B.2			B.3			B.4		B.5				C.1			C.2		C.3	
Magnification	8x	10x	7x	9x	11x	6x	8x	10x	10x	12x	10x	12x	15x	18x	8x	10x	12x	7x	10x	10x	12x
Obj. lens diameter	42mm	42mm	45mm	45mm	45mm	30mm	30mm	30mm	56mm	56mm	56mm	56mm	56mm	56mm	42mm	42mm	42mm	28mm	28mm	50mm	50mm
Exit pupil	5.25mm	4.2mm	6.4mm	5mm	4.1mm	5mm	3.75mm	3mm	5.6mm	4.7mm	5.6mm	4.7mm	3.7mm	3.1mm	5.25mm	4.2mm	3.5mm	4mm	2.8mm	5mm	4.1mm
FOV	7.4°	6.5°	7.4°	7.2°	6°	8.5°	8.2°	6.5°	6.7°	5.5°	6.5°	5.5°	4.5°	3.7°	6.5°	6°	5°	6.5°	5°	5°	4.8°
Apparent FOV (FOV x Power)	59.2°	65°	51.8°	64.8°	66°	51°	65.5°	65°	67°	66°	65°	66°	67.5°	66.6°	52°	60°	60°	45.5°	50°	50°	57°
Field of view (ft/1000yds)	388	341	388	377	314	446	430	341	351.8	288.8	341	289	236	194	341	314	262	341	262	262	251
Brightness	27.6	17.6	51	25	16.7	25	14.1	9	31.4	21.8	31.4	21.8	13.9	9.6	27.6	17.6	12.3	16	7.8	25	16.8
Light transmission (%)	91.90%	90.90%	93.70%	93.70%	94.80%	94.60%	95.20%	94.60%	93.70%	94.20%	92.90%	92.90%	92.90%	92.90%	90%	89%	89%	90%	89%	90%	89%
Twilight Factor	18.3	20.5	17.7	20.1	22.2	13.4	15.5	17.3	23.7	25.9	23.7	25.9	29	31.7	18.3	20.5	22.4	14	16.7	22.4	24.5
Multi Position Eyecups Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eye Relief	18.6mm	16mm	18mm	17.3mm	16.7mm	18.3mm	15.1mm	15.3mm	17mm	18mm	19mm	17.4mm	17.8mm	18mm	19.5mm	16mm	15mm	16mm	15mm	19.5mm	15mm
Near Focus	6.6ft	6.6ft	6.5ft	4.9ft	4.9ft	8.2ft	8.2ft	8.2ft	9.8ft	9.8ft	9.8ft	9.8ft	9.8ft	9.8ft	5.9ft	5.9ft	5.9ft	9.8ft	9.8ft	8.2ft	8.2ft
Eye Width Adjustment	56~73mm	56~73mm	56~75mm	56~75mm	56~75mm	56~73mm	56~73mm	56~73mm	56~74mm	56~74mm	56~75mm	56~75mm	56~75mm	56~75mm	58~72mm	58~72mm	58~72mm	58~72mm	58~72mm	58~72mm	58~72mm
Dimension WxHxD	5x6.2x2.1	5x6.2x2.2	5.7x7.1x2.2	5.7x7.1x2.3	5.7x7.1x2.4	4.7x4.6x1.7	4.7x4.6x1.8	4.7x4.6x1.9	6.1x8.2x2.7	6.1x8.2x2.8	6.1x8.2x2.5	6.1x8.2x2.6	6.1x8.2x2.5	6.1x8.2x2.6	5x5.7x2	5x5.7x3	5x5.7x4	4.5x4.6x1.7	4.5x4.6x1.8	5.3x6.6x2.3	5.3x6.6x2.4
Weight	29.125oz	29.75oz	33.25oz	33.25oz	33.25oz	16.25oz	16.25oz	16.25oz	48oz	48oz	45oz	45oz	45oz	45oz	24oz	24.5oz	24.5oz	12.4oz	12.6oz	28oz	28oz
Lens Constr. Obj.	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)	3 groups 2 elements (ED)	3 groups 2 elements (ED)	3 groups 4 elements (ED)	3 groups 4 elements (ED)
Lens Constr. Ocular	4 groups 5 elements	4 groups 6 elements	4 groups 4 elements	5 groups 6 elements	4 groups 6 elements	4 groups 5 elements	4 groups 5 elements	4 groups 5 elements	4 groups 5 elements	5 groups 6 elements	4 groups 5 elements	4 groups 6 elements	4 groups 6 elements	4 groups 6 elements	3 groups 4 elements	3 groups 4 elements	3 groups 5 elements	2 groups 3 elements	4 groups 5 elements	2 groups 3 elements	3 groups 4 elements
Prisms Type	Schmidt-Pechan	Schmidt-Pechan	Abbe-Koenig	Abbe-Koenig	Abbe-Koenig	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Abbe-Koenig	Abbe-Koenig	Abbe-Koenig	Abbe-Koenig	Abbe-Koenig	Abbe-Koenig	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan
Prism Reflective Coating Type	Dielectric coating	Dielectric coating	N/A	N/A	N/A	Dielectric coating	Dielectric coating	Dielectric coating	N/A	N/A	N/A	N/A	N/A	N/A	Dielectric coating	Dielectric coating	Dielectric coating	Dielectric coating	Dielectric coating	Dielectric coating	Dielectric coating
ED Glass	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Fluorite	Fluorite	Fluorite	Fluorite	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens Coating	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant	Scratch and Oil Resistant
Diopter Correction (dpt)	+/-3	+/-3	+/-2	+/-4	+/-4	+/-2	+/-4	+/-4	+/-2	+/-2	more than +/-2	more than +/-2	more than +/-2	more than +/-2	+/-3	+/-3	+/-4	+/-3	+/-3	+/-4	+/-4
Pressure Tested to What Pressure	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 30 min. (IPX7)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)	1m for 5 min. (IPX6)
Storage Temperature	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F	-40°~158°F
Functional Temperature	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F	-13°~140°F
Frame Material	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Polymer	Polymer	Polymer	Polymer	Polymer	Magnesium	Magnesium	Magnesium	Magnesium	Polymer	Polymer	Polymer	Polymer	Polymer	Polymer	Polymer
Internal Gas Purged	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen
Tripod Adaptable Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Origin	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese Components Assembled in the US	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines	Japanese and Chinese Components Assembled in the Philippines