



	S.1A	S.1S	S.2	S.3A	S.3S	CS.1A	CS.1S
Magnification Range	25x - 50x	25x - 50x	12x - 27x	20x - 40x	20x - 40x	15x - 45x	15x - 45x
Obj. Lens Diameter	80mm	80mm	56mm	67mm	67mm	65mm	65mm
Exit Pupil	3.2mm / 1.6mm	3.2mm / 1.6mm	4.7mm / 2.1mm	3.35mm / 1.65mm	3.35mm / 1.65mm	4.3mm / 1.4mm	4.3mm / 1.4mm
FOV	2.2° / 1.6°	2.2° / 1.6°	3.3° / 2.1°	2.7° / 1.9°	2.7° / 1.9°	3.3° / 1.5°	3.3° / 1.5°
Apparent FOV (FOV x Power)	55° / 80°	55° / 80°	39.6° / 56.7°	54° / 76°	54° / 76°	50° / 70°	50° / 70°
Field of View (ft/1000yds)	115ft / 84ft	115ft / 84ft	173ft / 110ft	141ft / 100ft	141ft / 100ft	174ft / 81ft	174ft / 81ft
Brightness	10.24 / 2.56	10.24 / 2.56	21.78 / 4.3	11.22 / 2.72	11.22 / 2.72	18.5 / 2.0	18.5 / 2.0
Twilight Factor	44.7 / 63.2	44.7 / 63.2	25.9 / 38.9	36.6 / 51.8	36.6 / 51.8	31 / 54	31 / 54
Multi Position Eyecups Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eye Relief	17mm - 18mm	17mm - 18mm	18.6mm - 20.2mm	17mm - 16mm	17mm - 16mm	16mm - 19mm	16mm - 19mm
Eye Piece Construction	5 group 7 element	5 group 7 element	4 group 7 element	5 group 7 element	5 group 7 element	5 group 8 element	5 group 8 element
Near Focus	5m	5m	2.5m	3m	3m	12ft	12ft
Dimension WxHxD	14.9x6.3x3.9	15.9x3.9x3.9	11x2.8x2.6	13x6.3x3.4	14x3.6x3.4	11.4x5.6x3.1	12.13x3.13x3.1
Weight	64.5oz	64.5oz	34.4oz	60.0oz	60.0oz	40.4oz	40.4oz
Prisms Type	Schmidt-Pechan	Schmidt-Pechan	Abbe-Koenig	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan
Prism Reflective Coating Type	Dielectric Coating	Dielectric Coating	N/A	Dielectric Coating	Dielectric Coating	Fully multi-coated	Fully multi-coated
Phase Correction Coating	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens Coating	Oilphobic + flat multi	Oilphobic + flat multi	Oilphobic + flat multi	Oilphobic + flat multi	Oilphobic + flat multi	Fully multi-coated	Fully multi-coated
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)
Storage Temperature	-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
Frame Material	Aluminum/Polymer/Magnesium	Aluminum/Polymer/Magnesium	Magnesium/Polymer	Aluminum/Polymer/Magnesium	Aluminum/Polymer/Magnesium	Magnesium/Aluminum	Magnesium/Aluminum
Internal Gas Purged	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen	Nitrogen
Objective Filter Thread	82mm	82mm	58mm			No	No
Focus System	Vari-speed focusing System	Vari-speed focusing System	Vari-speed focusing System	Vari-speed focusing System	Vari-speed focusing System	Standard	Standard
Lens Type	Flourite Glass	Flourite Glass	Flourite Glass	Flourite Glass	Flourite Glass	ED	ED
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	China	China