



	S.1A	S.1S	S1.2A (Zoom Eyepiece)	S1.2A (Reticle Eyepiece)	S1.2S (Zoom Eyepiece)	S1.2S (Reticle Eyepiece)	S.2	S.3A (Zoom Eyepiece)	S.3A (Reticle Eyepiece)	S.3S (Zoom Eyepiece)	S.3S (Reticle Eyepiece)	CS.1A	CS.1S	CS.2
Magnification Range	25x - 50x	25x - 50x	25x - 50x	30x	25x - 50x	30x	12x - 27x	20x - 40x	24x	20x - 40x	24x	15x - 45x	15x - 45x	26x - 66x
Obj. Lens Diameter	80mm	80mm	80mm		80mm		56mm	67mm		67mm		65mm	65mm	85mm
Exit Pupil	3.2mm / 1.6mm	3.2mm / 1.6mm	3.2mm / 1.6mm	2.65mm	3.2mm / 1.6mm	2.65mm	4.7mm / 2.1mm	3.35mm / 1.65mm	2.8mm	3.35mm / 1.65mm	2.8mm	4.3mm / 1.4mm	4.3mm / 1.4mm	3.3mm / 1.3mm
FOV	2.2° / 1.6°	2.2° / 1.6°	2.2° / 1.6°	2.2° (115ft)	2.2° / 1.6°	2.2° (115ft)	3.3° / 2.1°	2.7° / 1.9°	2.7° (141ft)	2.7° / 1.9°	2.7° (141ft)	3.3° / 1.5°	3.3° / 1.5°	2.2° / 1.1°
Apparent FOV (FOV x Power)	55° / 80°	55° / 80°	55° / 80°	66°	55° / 80°	66°	39.6° / 56.7°	54° / 76°	65°	54° / 76°	65°	50° / 70°	50° / 70°	56° / 70°
Field of View (ft/1000yds)	115ft / 84ft	115ft / 84ft	115ft / 84ft	115ft	115ft / 84ft	115ft	173ft / 110ft	141ft / 100ft	141ft	141ft / 100ft	141ft	174ft / 81ft	174ft / 81ft	113ft / 56ft
Brightness	10.24 / 2.56	10.24 / 2.56	10.24 / 2.56	7.02	10.24 / 2.56	7.02	21.78 / 4.3	11.22 / 2.72	7.84	11.22 / 2.72	7.84	18.5 / 2.0	18.5 / 2.0	10.7 / 1.7
Twilight Factor	44.7 / 63.2	44.7 / 63.2	44.7 / 63.2	49	44.7 / 63.2	49	25.9 / 38.9	36.6 / 51.8	40.1	36.6 / 51.8	40.1	31 / 54	31 / 54	47 / 75
Multi Position Eyecups Y/N	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Eye Relief	17mm - 18mm	17mm - 18mm	17mm - 18mm	18mm	17mm - 18mm	18mm	18.6mm - 20.2mm	17mm - 16mm	18mm	17mm - 16mm	18mm	16mm - 19mm	16mm - 19mm	16mm - 17mm
Eye Piece Construction	5 group 7 element	5 group 7 element	5 group 7 element	4 group 7 element	5 group 7 element	4 group 7 element	4 group 7 element	5 group 7 element	4 group 7 element	5 group 7 element	4 group 7 element	5 group 8 element	5 group 8 element	5 group 8 element
Near Focus	5m	5m	5m	5m	5m	5m	2.5m	3m	3m	3m	3m	12ft	12ft	16ft
Dimension WxHxD	14.9x6.3x3.9	15.9x3.9x3.9	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	15.0x4.0x5.9
Weight	64.5oz	64.5oz	65.1oz	60.5oz	65.1oz	60.5oz	34.4oz	60.0oz	60.0oz	60.0oz	60.0oz	40.4oz	40.4oz	60.0oz
Prisms Type	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan		Schmidt-Pechan		Abbe-Koenig	Schmidt-Pechan		Schmidt-Pechan		Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan
Prism Reflective Coating Type	Dielectric Coating	Dielectric Coating	Dielectric Coating		Dielectric Coating		N/A	Dielectric Coating		Dielectric Coating		Fully multi-coated	Fully multi-coated	Fully multi-coated
Phase Correction Coating	Yes	Yes	Yes		Yes		Yes	Yes		Yes		Yes	Yes	Yes
Lens Coating	Oilphobic + flat multi	Oilphobic + flat multi	Oilphobic + flat multi		Oilphobic + flat multi		Oilphobic + flat multi	Oilphobic + flat multi		Oilphobic + flat multi		Fully multi-coated	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)		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		-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
Frame Material	Aluminum/Polymer/Magnesium	Aluminum/Polymer/Magnesium	Aluminum/Polymer/Magnesium		Aluminum/Polymer/Magnesium		Magnesium/Polymer	Aluminum/Polymer/Magnesium		Aluminum/Polymer/Magnesium		Magnesium/Aluminum	Magnesium/Aluminum	Magnesium/Aluminum
Internal Gas Purged	Nitrogen	Nitrogen	Nitrogen		Nitrogen		Nitrogen	Nitrogen		Nitrogen		Nitrogen	Nitrogen	Nitrogen
Objective Filter Thread	82mm	82mm	82mm		82mm		58mm	69mm		69mm		No	No	No
Focus System	Vari-speed focusing System	Vari-speed focusing System	Vari-speed focusing System		Vari-speed focusing System		Vari-speed focusing System	Vari-speed focusing System		Vari-speed focusing System		Standard	Standard	Standard
Lens Type	Flourite Glass	Flourite Glass	Flourite Glass		Flourite Glass		Flourite Glass	Flourite Glass		Flourite Glass		ED	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	Japanese components assembled in the US		Japanese components assembled in the US		China	China	China