

# TECHNICAL SPECIFICATIONS

## BINOCULARS

Optical parameter	Description	Value	PASSION™ ED						PASSION™ HD				
			8x32	10x32	8x42	10x42	8x56	10x56	8x42	10x42	8.5x50	10x50	12.5x50
Magnification	-	-	8X	10X	8X	10X	8X	10X	8X	10X	8.5X	10X	12.5X
Field of view (FOV)	-	ft/1000y	410	316	426	340	389	352	375	336	315	309	286
Field of view (FOV)	-	m/1000m	136	105	142	113	129	117	125	112	105	103	95
Objective diameter	Effective diameter	mm	32	32	42	42	56	56	42	42	50	50	50
Ocular diameter	Effective diameter	mm	35	35	39.5	39.5	39.5	39.5	42.4	42.4	42.4	42.4	42.4
Exit pupil diameter	Measurement of the pupillary ocular beam	mm	4	3.2	5.25	4.2	7	5.6	5.25	4.2	5.9	5	4
Eye relief	From the last optical surface	inches	0.63	0.59	0.7	0.63	0.75	0.63	0.77	0.67	0.77	0.77	0.65
Eye relief	From the last optical surface	mm	16	15	18	16	19	16	19.5	17	19.5	19.5	16.5
Housing	Main body and hinge	-	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Close focus	Shortest focal distance	feet	6.6	8.2	6.6	8.2	8.2	9.8	6.5	6.5	9.8	9.8	9.8
Close focus	Shortest focal distance	meters	2	2.5	2	2.5	2.5	3	2	2	3	3	3
Interpupillary distance (IPD)	Center pupil to center pupil measurement	mm	56-73	56-73	56-75	56-75	58-75	58-75	57-75	57-75	58-76	58-76	58-76
Diopter adjustment range	-	-	+3 / -3	+3 / -3	+3 / -3	+3 / -3	+4 / -4	+4 / -4	+4 / -4	+4 / -4	+4 / -4	+4 / -4	+4 / -4
Waterproof	Mbars	-	200	200	200	200	200	200	500	500	500	500	500
Prism type	-	-	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Abbe Konig	Abbe Konig	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan	Schmidt-Pechan
Transmission daylight	ISO14490-5:2005	Total transmission	90%	90%	90%	90%	92%	92%	91%	91%	91%	91%	91%
Height	Without covers	inches	1.7	1.7	2.2	2.2	2.7	2.7	2.2	2.2	2.5	2.5	2.5
Height	Without covers	mm	44	44	55	55	68	68	56	56	64	64	64
Width	Fully extended	inches	4.6	4.6	5.1	5.1	6.3	6.3	5.1	5.1	5.3	5.3	5.3
Width	Fully extended	mm	118	118	130	130	160	160	130	130	135	135	135
Length	At outside diameter	inches	4.9	4.9	5.7	5.7	7.5	7.5	6.1	6.1	6.9	6.9	6.9
Length	At outside diameter	mm	125	125	145	145	190	190	156	156	175	175	175
Weight	Without covers	ounces	17.6	17.6	26	26	40.9	41.3	29.3	29.6	33.2	33.9	34.1
Weight	Without covers	grams	500	500	670	670	1160	1170	830	840	940	960	965