



PENTAX

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	Prism	Type of Focus	Magnification	Obj. Lens Diameter (mm)	Exit Pupil (mm)	Relative Brightness	Eye Relief (mm)	Focus Range (meters)	Field of View (at 1000m)	Dimensions	Weight	Recommended Use
8x42 DCF HR		roof-prism center	8	42	5.2	27.6	22.0	4m-∞	108	172mm x 127mm	660g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
10x42 DCF HR		roof-prism center	10	42	4.2	17.6	20.0	4m-∞	87	169mm x 127mm	660g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
12x42 DCF HR		roof-prism center	12	42	3.5	12.2	18.0	4m-∞	73	169mm x 127mm	660g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
8x56 DCF		roof-prism center	8	56	7.0	49.0	21.5	8m-∞	114	236mm x 156mm	1210g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
9x63 DCF		roof-prism center	9	63	7.0	49.0	21.5	10m-∞	102	258mm x 160mm	1320g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x20 DCF		roof-prism center	7	20	2.9	8.2	12	2.5m-∞	131	94mm x 102mm	210g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
9x20 DCF		roof-prism center	9	20	2.2	4.9	10	2.5m-∞	108	91mm x 102mm	210g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
8x24 UCF III		porro-prism center	8	24	3.0	9.0	13.0	4m-∞	131	106mm x 107mm	290g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
10x24 UCF III		porro-prism center	10	24	2.4	5.8	10.0	4m-∞	105	99mm x 107mm	290g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
12x24 UCF III		porro-prism center	12	24	2.0	4.0	8.0	4m-∞	87	99mm x 107mm	290g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
16x24 UCF III		porro-prism center	16	24	1.5	2.3	10.0	4m-∞	58	102mm x 107mm	320g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x21 UCF Mini		porro-prism center	7	21	3.0	9.0	12.0	3m-∞	140	80mm x 105mm	210g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
9x21 UCF Mini		porro-prism center	9	21	2.3	5.4	12.0	3m-∞	110	80mm x 105mm	210g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
8x24 UCF WR		porro-prism center	8	24	3.0	9.0	13.0	4m-∞	131	110mm x 113mm	330g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
10x24 UCF WR		porro-prism center	10	24	2.4	5.8	10.0	4m-∞	105	106mm x 113mm	330g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x35 PCF II		porro-prism center	7	35	5.0	25.0	14.0	6m-∞	163	123mm x 181mm	720g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
8x40 PCF II		porro-prism center	8	40	5.0	25.0	14.0	6m-∞	143	139mm x 184mm	780g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x50 PCF II		porro-prism center	7	50	7.1	51.0	20.0	6m-∞	124	190mm x 190mm	920g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
10x50 PCF II		porro-prism center	10	50	5.0	25.0	14.0	6m-∞	114	180mm x 190mm	900g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
12x50 PCF II		porro-prism center	12	50	4.2	17.4	15.0	6m-∞	96	182mm x 190mm	930g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
16x50 PCF II		porro-prism center	16	50	3.1	9.6	14.0	9m-∞	52	182mm x 190mm	920g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x50 PIF		porro-prism individual	7	50	7.1	50.4	20.0	8m-∞	128	195mm x 210mm	1650g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
10x50 PIF		porro-prism individual	10	50	5.0	25.0	15.0	8m-∞	114	195mm x 210mm	1650g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
30x60 HG Scope		roof-prism internal	30	60	2.0	4.0	18.0	4m-∞	262	76mm x 308mm	1025g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
7x20 Monoculars		roof-prism ring	7	20	2.9	8.2	12.0	3.9m-∞	131	99mm x 28mm	58g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞
8x30 Monoculars		roof-prism ring	8	30	3.8	14.4	12.5	2.4m-∞	108	124mm x 42mm	190g	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞

How to read a binocular.

Binocular models are generally described by a three-part code such as: 8x40 PCF II The first part (8x) represents the power of magnification. In this case, it means objects seen through the binoculars will appear eight times closer than images seen by the unaided eye. The second number (40) stands for the effective diameter of the objective lens. The relation between these first two numbers determines how well the binoculars "see" the letters at the end of the code (PCF) describe the construction of the model, the arrangement of the optical elements and the focusing system.

