PRIMA pro

PRIMA pro MAGNIFICATION TABLE

			↓ Turret Magification Factor (x) ↓											
Magnichanger turret position →			0.33		0.5		0.8		1.3		2		3	
Binocular Focal Length (mm)	Objective Focal Length (mm)	Eyepiece Mag. (X)/FOV. (mm)	Total Mag.(X)	Field of View (mm)	Total Mag.(X)	Field of View (mm)	Total Mag.(X)	Field of View (mm)	Total Mag.(X)	Field of View (mm)	Total Mag.(X)	Field of View (mm)	Total Mag.(X)	Field of View (mm)
170	175	10/18	3.2	56.15	4.9	37.1	7.8	23.2	12.6	14.3	19.4	9.3	29.1	6.2
170	200	10/18	2.8	64.2	4.3	42.4	6.8	26.5	11.1	16.3	17.0	10.6	25.5	7.1
170	250	10/18	2.2	80.2	3.4	52.9	5.4	33.1	8.8	20.4	13.6	13.2	20.4	8.8
170	300	10/18	1.9	96.3	2.8	63.5	4.5	39.7	7.4	24.4	11.3	15.9	17.0	10.6
170	400	10/18	1.4	128.3	2.1	84.7	3.4	52.9	5.5	32.6	8.5	21.2	12.8	14.1
170	175	12.5/18	4.0	56.1	6.1	37.1	9.7	23.2	15.8	14.3	24.3	9.3	36.4	6.2
170	200	12.5/18	3.5	64.2	5.3	42.4	8.5	26.5	13.8	16.3	21.3	10.6	31.9	7.1
170	250	12.5/18	2.8	80.2	4.3	52.9	6.8	33.1	11.1	20.4	17.0	13.2	25.5	8.8
170	300	12.5/18	2.3	96.3	3.5	63.5	5.7	39.7	9.2	24.4	14.2	15.9	21.3	10.6
170	400	12.5/18	1.8	128.3	2.7	84.7	4.3	52.9	6.9	32.6	10.6	21.2	15.9	14.1
170	NuVar 10 WD. 220 to 320	10/18	1.4 to 1.9	96.3 to 128.3	2.1 to 2.8	63.5 to 84.7	3.4 to 4.5	39.7 to 52.9	5.5 to 7.4	24.4 to 32.6	8.5 to 11.3	15.9 to 21.2	12.8 to 17.0	10.6 to 14.1
170	NuVar 10 WD. 220 to 320	12.5/18	1.8 to 2.3	96.3 to 128.3	2.7 to 3.5	63.5 to 84.7	4.3 to 5.7	39.7 to 52.9	6.9 to 9.2	24.4 to 32.6	10.6 to14.2	15.9 to 21.2	15.9 to21.3	10.6 to 14.1
170	Nuvar20 WD. 200-400	10/18	1.2 to 1.9	93.0 to 155.6	1.8 to 2.9	61.4 to 102.7	2.8 to 4.7	38.4 to 64.2	4.6 to 7.6	23.6 to 39.5	7.0 to 11.7	15.4 to 25.7	10.5 to 17.6	10.2 to 17.1
170	Nuvar20 WD. 200-400	12.5/18	1.4 to 2.4	93.0 to 155.6	2.2 to 3.7	61.4 to 102.7	3.5 to 5.9	38.4 to 64.2	5.7 to 9.5	23.6 to 39.5	8.8 to14.7	15.4 to 25.7	13.1 to 22.0	10.2 to 17.1

Finding Total Magnification

The following formula is used to calculate the total magnification of the system :

Total Magnification =(Binocular Focal Length/Objective Focal Length) X (Eyepice Magnification) X (Magnification Factor)

For Example : Binocular Focal Length =170 mm
Objective Lens Focal Length =300 mm
Eyepiece Magnification =10X
Total Magnification= (170/300) X (10x) X (2.0)
Therefore : Total Magnification = 11.33X

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