

## MS Series Binoculars Specification

Model	7X50MS	10X50MS	12X50MS	11X70MS	16X70MS
<b>Optical Characteristic</b>					
Magnification	7±2%	10±2%	12±4%	11±2%	16±2%
Objective Diameter	φ50mm	φ50mm	φ50mm	φ70mm	φ70mm
Exit Pupil Diameter	φ7.14mm	φ5mm	φ4.2mm	φ6.4mm	φ4.4mm
Relative Brightness	51	25	17,6	41	19,4
Twilight Factor	18,7	22,4	24,5	27,7	33,5
Flattener Eyepiece Structure(#Elements/#Groups)	5E / 4G	7E / 5G	7E / 5G	7E / 5G	7E / 5G
Field of View - Angular	7.5°	6.5°	5.5°	4.8°	4.1°
Field of View at 1000m	131m at 1000m	114m at 1000m	96m at 1000m	84m at 1000m	72m at 1000m
Field of View at 1000Yards	393ft	342ft	288ft	252ft	216ft
Eye Relief	23mm	20mm	16mm	23mm	20mm
Minumum Focus Distance	≤5m	≤6m	≤6m	≤10m	≤10m
reticle	Option	Option	Option	Option	Option
Light Transmission	≥90%	≥90%	≥90%	≥90%	≥90%
Resolution (Center)	≤4.2"	≤4.2"	≤4.2"	≤3"	≤3"
Lens Coating	FMC	FMC	FMC	FMC	FMC
Prism Coating	FMC	FMC	FMC	FMC	FMC
Prism Type	Porro Prism	Porro Prism	Porro Prism	Porro Prism	Porro Prism
Prism Glass Material	BaK4	BaK4	BaK4	BaK4	BaK4
<b>Mechanical Characteristic</b>					
Closed Interpupillary Distance	56mm	56mm	56mm	56mm	56mm
Open Interpupillary Distance	74mm	74mm	74mm	74mm	74mm
Positive Ocular Diopter Adjustment	+ 6	+ 8	+ 10	+ 6	+ 8
Negative Ocular Diopter Adjustment	- 6	- 8	- 10	- 6	- 8
Focus Type	Individual Eyepiece Focus	Individual Eyepiece Focus	Individual Eyepiece Focus	Individual Eyepiece Focus	Individual Eyepiece Focus
<b>Alignment</b>					
Convergence	0	0	0	0	0
Divergence	≤8'	≤8'	≤8'	≤6'	≤6'
Dipvergence	≤4'	≤4'	≤4'	≤4'	≤4'
<b>Environmental Characteristic</b>					
Water Resistance / Proof	1m Water Depth/30Min	1m Water Depth/30Min	1m Water Depth/30Min	1m Water Depth/30Min	1m Water Depth/30Min
High Temperature Resistance-Operational	+ 70°C	+ 70°C	+ 70°C	+ 70°C	+ 70°C
Low Temperature Resistance-Operational	- 40°C	- 40°C	- 40°C	- 40°C	- 40°C
<b>Dimensional</b>					
Height X Width X Thickness(Binocular Only)	197X215X72(mm)	190X215X72(mm)	178X215X72(mm)	305X235X87(mm)	298X235X87(mm)
Weight (Binocular Only)	1380g (Magnesium body)	1380g (Magnesium body)	1380g (Magnesium body)	2100g (Magnesium body)	2100g (Magnesium body)
<b>Special Features</b>					
Rubber Armoring	Yes	Yes	Yes	Yes	Yes
Body color	Black	Black	Black	Black	Black
Carrying case	Yes	Yes	Yes	Yes	Yes
Carrying strap	Yes	Yes	Yes	Yes	Yes
Covers of the objective and ocular lenses	Yes	Yes	Yes	Yes	Yes
Metal Tripod Adapters	Yes	Yes	Yes	Yes	Yes
Tripod Mounting Screw	Yes	Yes	Yes	Yes	Yes
Foldable Eye Cups	Yes	Yes	Yes	Yes	Yes
Nitrogen Fill	Yes	Yes	Yes	Yes	Yes