



**VECTRONIX
SHOOTING
SOLUTIONS.**

VECTOR X 42 TECHNICAL DATA

Laser Class 1M



	VECTOR X 8×42	VECTOR X 10×42	VECTOR X 12×42
Order numbers	917234 with MSR-DMR ¹ reticle 917233 with MSR-SMR ² reticle	917236 with MSR-DMR ¹ reticle 917235 with MSR-SMR ² reticle	917238 with MSR-DMR ¹ reticle 917237 with MSR-SMR ² reticle
Optics			
Observation	DVO, binocular	DVO, binocular	DVO, binocular
Objective lens diameter	42mm	42mm	42mm
Magnification	8×	10×	12×
Reticles	MSR-DMR ¹ MSR-SMR ²	MSR-DMR ¹ MSR-SMR ²	MSR-DMR ¹ MSR-SMR ²
Field of view at 1000yd/1000m in degrees	387 ft/130m 7.4°	330 ft/110m 6.3°	272 ft/91m 5.2°
Field of view with Range Enhancers 42 at 1000yd/1000m in degrees	277 ft/92m 5.3°	236 ft/79m 4.5°	194 ft/65m 3.7°
Exit pupil	5.25mm	4.2mm	3.5mm
Eye-relief	18mm	17mm	17mm
Interpupillary distance	58 to 77mm	58 to 77mm	58 to 77mm
Diopter compensation	±4dpt.	±4dpt.	±4dpt.
Nano coating on outer lenses	Yes	Yes	Yes
Twilight number	18.3	20.5	22.45
Rangefinder			
Laser type	905nm, class 1M according to IEC 60825-1	905nm, class 1M according to IEC 60825-1	905nm, class 1M according to IEC 60825-1
Range capability			
max range	3yd/2m to 7000yd/6400m	3yd/2m to 7000yd/6400m	3yd/2m to 7000yd/6400m
tree	3yd/2m to 3000yd/2800m	3yd/2m to 3000yd/2800m	3yd/2m to 3000yd/2800m
deer	3yd/2m to 2400yd/2200m	3yd/2m to 2400yd/2200m	3yd/2m to 2400yd/2200m
Specified performance	2900yd/2650m on 2.3m × 2.3m target; visibility: 10km, albedo 0.6, detection probability >90%	2900yd/2650m on 2.3m × 2.3m target; visibility: 10km, albedo 0.6, detection probability >90%	2900yd/2650m on 2.3m × 2.3m target; visibility: 10km, albedo 0.6, detection probability >90%
Accuracy	±1m at 9m to 100m ±2m at 100m to 500m <0.5% of distance beyond 500m	±1m at 9m to 100m ±2m at 100m to 500m <0.5% of distance beyond 500m	±1m at 9m to 100m ±2m at 100m to 500m <0.5% of distance beyond 500m
False alarm rate	<2%	<2%	<2%
Beam divergence (typical)	1.8 × 0.1mrad	1.8 × 0.1mrad	1.5 × 0.1mrad
Time per measurement	<0.25sec	<0.25sec	<0.25sec
Communication interface			
Wireless	Bluetooth® 5.1 LowEnergy		

¹ optimized for usage with Range Enhancers 42

² optimized for usage without Range Enhancers 42

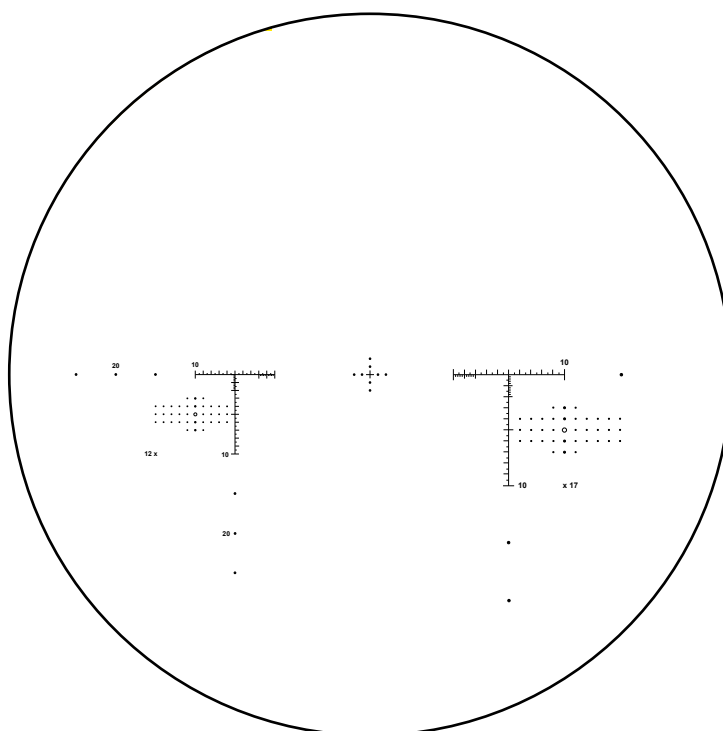
Physial	VECTOR X 8×42	VECTOR X 10×42	VECTOR X 12×42
Housing	magnesium	magnesium	magnesium
Armoring	shock absorbing rubber	shock absorbing rubber	shock absorbing rubber
Colour	tac-grey	tac-grey	tac-grey
Tripod	¼"-20 UNC standard tripod interface	¼"-20 UNC standard tripod interface	¼"-20 UNC standard tripod interface
Dimensions	163mm × 130mm × 65mm	156mm × 130mm × 65mm	169mm × 130mm × 65mm
Weight without battery	~1013g/~35oz	~977g/~34oz	~1015g/~36oz
Front objective thread	M46 × 0.75	M46 × 0.75	M46 × 0.75
Ballistics	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Internal ballistics	Applied Ballistics® Elite		
External ballistics	Applied Ballistics®, Hornady 4DOF®, Trasol		
Kestrel	5700 Elite, 5700X Elite, 5700X WEZ, 5700 Hornady 4DOF®		
Garmin ballistic watches	Foretrex® 701/901, tactix® Delta, tactix® 7/8, instinct® 2X, Montana 700, GPSMap® 67i, Descent Mk 2i, Marq Commander Carbon, D2 Mach 1 Pro, etc.		
Mapping	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Maps	Google Maps, BaseMap, CivTAC (plug-in required)		
Mobile App	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Available for	iOS, Android		
Digital magnetic compass and sensors	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Units	360°/6283mrad/6400mil		
Azimuth accuracy [16]	±5°		
Maximum inclination	±89°/±1553mrad/±1582mil		
Declination, adjustable	±179°		
Others	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Temperature sensor	-20°C/-4°F to +50°C/122°F		
Barometric pressure sensor	300hPa to 1100hPa		
Display	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Type	AMOLED microdisplay		
Brightness control	automatic/manual		
Power supply	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42		
Standard, on-board	1 × 3V lithium battery (CR123A)		
Battery capacity	[20°C] >10000 measurements		
Rechargeable battery (optional)	Type 18650		

Environmental	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42
Protection class	IP67 (waterproof 1m 30min)
Operational temperature	-20°C/68°F to +50°C/122°F
Storage temperature	-40°C/104°F to +70°C/158°F
Shock	60g/6ms
Vibration	2g; 10Hz to 150Hz

Accessories	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42
	Part number
Range Enhancers 42 (1.4×) incl. protective case	917239 (2 pcs)
Tenebræx Anti-Reflection Devices 42	917806 (2 pcs)
Tenebræx Lens Covers 42	919583 (2 pcs)
Tripod adapter RRS	919588 (1 pc)
Tripod adapter AREA419	919589 (1 pc)

Spare parts	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42
	Part Number
Eyecup set for 8×42	919007 (2 pcs)
Eyecup set for 10×42/12×42	919008 (2 pcs)
Neck strap	917231 (1 pc)
Front lens flip cover 42	917232 (1 pc)
Range Enhancer 42 (1.4×)	918795 (1 pc)
Lens cover set for Range Enhancer 42 (front and rear)	919011 (2 pcs)
Eyeiece cover	919004 (1 pc)
Tripod adapter incl. screws and torx key	917802 (1 pc)
Tripod cover VECTOR X	919050 (1 pc)
Battery cover CR123A	919003 (1 pc)
Battery cover 18650	919052 (1 pc)
Clip for battery compartment cover incl. cord	919009 (1 pc)

Scope of delivery	VECTOR X 8×42 / VECTOR X 10×42 / VECTOR X 12×42
	Laser rangefinder binocular, neck strap, 2× front lens flip cover 42, eyepiece cover, protective case 42, tripod adapter incl. screws and torx key, additional battery cover 18650, CR123A 3V battery, VECSS logo patch, lens cleaning cloth, quickstart guide, safety instructions;

MSR-DMR reticle optimized for usage with Range Enhancers 42**MSR-SMR reticle** optimized for usage without Range Enhancers 42