

# Scope Specs Table

## For: 6-24x | 5-30x | 4-20x | 6-20x

Bottom Magni. = 6x or lower

Top Magni. = 20x or higher

with 10y-Side Parallax

Exposed Turrets

Holdoff Reticle

\$200-500(-2000)

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### Requirements for this Table (a few exceptions are included)

Bottom magnification = 6x or lower

Top magnification = 20x or higher

Minimum parallax = 10 yards or less (a few exceptions with 15y)

Side parallax adjustment

Turrets = exposed (with a few exceptions with capped turrets)

Reticle = holdoff reticle (evenly spaced hash lines or dots for aiming with holdoff/ holdover)

Price = mostly between \$200 and \$500, but some are quite a bit more expensive, and they are included because they have all around very good specs (e.g., large magnification at the top end, or large magnification range; large FoV at the bottom end; etc.)

### Abbreviations in the Table

**Green** is a good thing... – e.g.: a very good warranty, a shorter size or lighter weight than average for this magnification range, a larger than average elevation adjustment range, a very wide field of view (FoV), or some additional feature (bubble level, a 0-stop, turret turn counter, numbers on the hash lines of the reticle), etc.

**Red** is less of a good thing... – e.g.: a not so great warranty, a longer size or heavier weight than average, a smaller than average elevation adjustment range, a very narrow field of view (FoV), or some other negative or limiting feature, like: a small exit pupil (reducing the eye box), a min. parallax longer than 10y, a reticle without illumination, capped turrets, an FFP reticle without thick outside posts, or a price higher than the max. price that was set for this scope table), etc.

**Purple** is something noteworthy that could be either good or bad, depending on the shooting scenario... – e.g.: an objective lens that is exceptionally small or large for its magnification (e.g., a small lens allows less light to enter, and reduces the need to focus to correct parallax errors), or an exceptionally short or long eye relief (affecting the scope mounting location and eye/head placement), etc.

**Orange** is a caution flag, a marginal feature or characteristic... – e.g.: warranty limitations, a marginal FoV, a smaller objective diameter for (supposedly) less light than average for the magnification range, an uneven number of mils or moas per turret turn (not multiples of 5mil or 10moa), a 34mm tube (somewhat limiting scope mount choices), a 0-stop that is limited to a certain max. amount of moa (especially for high magnification scopes 24x and up, this is not a “true 0-stop”), a price so low as to shed doubt on the quality of the scope, etc.

**SFP** vs. **FFP** = table starts with **SFP** (*second focal plane*) scopes, then *first focal plane* (**FFP**)

**Thick O/S Posts** [for **FFP**] = thick black outside posts, i.e., 3 or 4 of the crosshairs are thick toward the outside (the posts are not hollow rectangles, but filled in with black), which allows seeing the crosshairs easily even when at low magnification. Some have no thick posts, and some have *semi thick* posts.

**10x** [or 16x, or another number] [for **SFP**] = the magnification at which the holdoff hash lines or dots have been calibrated, i.e., where 1 moa indicated on the reticle actually is 1.047" in reality at 100 yards

**Series and Part No.** = the manufacturer's product or parts number; helpful to identify the scope at a seller's page as some scopes are very similar and the seller's description is either misleading or insufficient to identify the scope with certainty; also for shopping for the lowest price it helps to enter the number in the search

**Discont.** = product has been discontinued (but still could be purchased used)

**Warranty Info:** **Life** = life time warranty | **5y** = 5 years warranty | **OOwn** = warranty only for the original owner | **Unlmt** = unlimited warranty | **Anyb.** = warranty applies to any owner, anybody (e.g., even if you bought it used) | **NoRec.** = no receipt (proof of purchase) required | **Rec. [or: R.]** = receipt (proof of purchase) required | **30d** = must register the scope within 30 days of purchase

**FoV** = Field of View (in ft at 100y):

- **FoV @ bottom magnification:**

A large FoV at the bottom end of the magnification range is important for *hurried close range shooting*, as the large FoV helps rapid target acquisition. Note that a wide FoV is not critical for *unhurried shooting*, i.e., shooting on stationary targets (or quarry that isn't skittish and gives the shooter time to set up the shot).

The color coding in the table is based on my very personal, unabashedly subjective estimation: *For my kind of hurried close range shooting* I'd like to have a FoV of at least around 3ft at 10y (1m at 10m) (which translates to around 30ft @100y, as FoV is usually reported at 100y; it is color coded black).

The color coding at the bottom end of the magnification is applied irrespective of the scope's magnification, so naturally 6-24x scopes for example don't usually get a green rating, but orange or red. Note however that there are sometimes huge differences in FoV between scopes with the same magnification range which makes the bottom end magnification an unreliable indicator of FoV when scope shopping.

**41ft or more** | **40-35ft** | **34-28ft** | **27-22ft** | **21-17ft** | **16ft or less**

- **FoV @ top magnification:**

Between two scopes with the same top end magnification the one with a larger FoV is preferable, all other things being equal. This is because the larger FoV might allow to see more clues to how the wind is behaving, or allows to see additional quarry, or makes following the quarry easier if it decides to move. The color coding in the table is based on

what is typical for this magnification, i.e., what I have observed to be average for this top magnification. Examples: At 16x a FoV of 6.3ft normal, whereas a FoV of **4.7ft** is rather narrow and limited. A FoV of **8.5ft** would be great.

Color Coding for the Evaluation of FoV at the <i>Top End</i> Magnification																																						
Magnification	1							7		8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32												
Magnification	1									8								16								32									64			
“times life size”	1x							7x		8x	9x	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32		39		46		53		60	64			
Evaluation of Field of View (FoV): Top End* FoV @ 100y																																						
FoV in ft	from worst to best									ft				ft				ft				ft				ft												
red bold	red/orange gets this evaluation if the value is as indicated or worse								8.5	8	7.5		6		5	5	4	4	4		4				3	3												
red									10	9	9		7		6	5	5	5	4		4				3	3												
orange									11	10	10		8		7	6	5	5	5		5				4	4												
Typical Value			color black						13	12	11		9		8	7	6	6	6		5				4	4												
green	green gets this evaluation if the value is as indicated or better								15	14	13		11		9	8	7	7	6		5				4	4												
green bold									18	17	15.5		13		10	9	9	8	7		6				4	4												
Magnification	1							7		8	9	10	11	12	13	14	15	16	18	20	22	24	26	28	30	32												

IR = illuminated reticle [Y = yes | **NO**]

Reticle; Ret D = "dots" = enough dots or hash lines on the crosshairs for holdoffs for elevation and windage

N = "numbers" = the dots or hash lines are numbered for quicker holdoffs

Grid = the reticle is a grid style ("Christmas tree style"): for some shooters and for scope cams it "clutters" the reticle, but it allows for more precise elevation and windage holdoffs simultaneously

CD = "center dot" = the crosshairs use a dot at the center where the two crosshairs intersect

BDC = bullet drop compensating reticle, meaning that the spacing between the hash lines is uneven and therefore not usable for holdoffs unless shooting the ammo the reticle was calibrated for

Line thickness = Given in both mil and moa for easy comparison. For SFP scopes the line thickness given is only true in relation to the scope image at the magnification that the reticle has been calibrated. However, the thickness does not actually change when changing the magnification, only the scope image. For FFP scopes that line thickness in relation to the scope image is always the same, no matter which magnification.

Capped Turrets! BUT Clickable = means that though the turrets are capped, when uncapped they are finger adjustable, the numbers are visible from behind the rifle, and the zero can be reset

Hawke scopes: Careful when purchasing them, new or used. Hawke has the annoying habit of coming out with new scope models but fails to either add the designation "Gen. 2" or to give them a new series name. In addition they have the habit of adding a couple of innocuous letters or numbers to the name of the scope – which mean massive changes in the features or the performance. These letters or numbers are easy to miss for both the buyers and commercial and private sellers. To assure you are getting the scope with the features you are thinking you are getting, check that the manufacturer's model number is the correct one. The Scope Specs Table notes the numbers for most scope models for that very reason.

## Prices

In US dollars

Price Low = lowest street prices in US dollars I found in 2019 – and updated according to the list

below. An additional extra low *street* price is separated by a *comma* ,  
*Price Mfctr.* 's = manufacturer's price [it's the last price in that field, after the semicolon ; ]  
 Prices and/or models updated as follows: 2021-06: Hawke | 2021-07: Shepherd | 2022-02:  
 Alpen | Arken | Riton | Bushnell | 2023-05: Falcon | 2023-06: Trijicon | 2023-07:  
 Discoveryopt, aka Discovery | Primary Arms

				Magni. → FoV		→ Eye Box			Exposed Turrets				Holdoff Reticle				Dimensions			
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfctr.'s in US \$	Warranty	Springer-Rated	Magnification	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	Thick D/S Posts? FFP — SFP Calibration at ?	Enough Dots, No's, Grid CenterDot	Line thickness	Tube Dia-meter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series	Part No.																			
SFP Scopes																				
UTG: Accushot No. SCP3-UG6245A0IEW	209; 310	Life		6-24x	15-5	56	8-2.2	Y	??	1/8 moa	15 moa	MOA ≠	≠ MIL	SFP 10x	D*		30	32.2 910g	17.5" 44c	*Should state glass etched reticle
Nikko: Diamond Long Range No. NDSI62450LRHMD •Ret. HMD	250; ?	Life, 0.Own		6-24x	21-5	50		Y	40	1/4 moa		MOA ≠	≠ MIL	SFP x?	D		30	27.8 788g	15.4" 39c	
Vector: Atlas No. SCOL-04	399; ?	5y, Rec.		5-30x	24.6-3.8	56	11-1.9	Y	80	1/8 moa	15 moa	MOA ≠	≠ MIL	SFP x?	D, N	?	35	35.3 1000g	14.8" 38c	
MTC: Viper Pro Tactical	520; ?	Life <sup>30d</sup> R. 0.Own		5-30x	24-4 <sup>2</sup>	50		Y	42	1/4 moa	10 moa	MOA ≠	≠ MIL	SFP x?	D	?	30	25.8 732g	16.4" 42c	not customizable
MTC: Viper Pro	570; ?	Life <sup>30d</sup> R. 0.Own		5-30x	24-4 <sup>2</sup>	50		Y	42	1/4 moa	30 moa	MOA ≠	≠ MIL	SFP x?	D	?	30	30.7 869g	16.4" 42c	Customizbl. Turrets   Magnifier Cap
Bushnell: Engage No. REN62450DG	450; 350, 540	Life, NoRec.		6-24x	18-4	50	? NO	50		1/8 moa	8 moa	MIL ≠	≠ MOA	SFP x?	D	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	23.7 672g	14.2" 36c	
Vector: Aston No. SCOL-24	?; 430	5y		5-30x	19.9-3 <sup>3</sup>	56	11-1.9	Y	50	1/4 moa	15 moa	MOA =	= MOA	SFP 10x	D, CD		30	29.5 835g	15.7" 40c	Parallax 20y! ! Locking Turrets
Hawke: Sidewinder 30 SF No. 17220 Discontinued	439; 600	Life, R. 0.Own	Yes!	6-24x	15-4	56	9-2.0	Y	62	1/4 moa	15 moa	MOA ≠	≠ MIL	SFP 20x	D	?	30	29.8 844g	15.9" 40c	
Aztec: Emerald SFP	440; —	Life		5.5-25x	19 <sup>1</sup> -4 <sup>2</sup>	50	? NO	c. 40?		1/4 moa	15 moa	MOA =	= MOA	SFP 18x✓	D, N	?	30	25.4 720g	14.4 37c	
Optisan: EVX Gen. 2: 5-20x50i No. 37526	430; 440	Life		5-20x	23-6	50	10-2.5	Y	50	0.1 mil	4.8 mil	MIL =	= MIL	SFP x?	D, (N)	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	27.0 765g	14.4" 37c	
Sightron: S-TAC: [SFP] •Ret. MOA-2 S-TAC-20X50MOA	470; 540	Life		4-20x	23.6-4.4	50	? NO	80 40 wind-age		1/4 moa	15 moa	MOA =	= MOA	SFP 20x	D	.03 <sup>mi</sup> .10 <sup>mo</sup>	30	23.8 675g	14.8" 38c	Dialing Turrets (capped w/ N1) Turn Counter
Hawke: Sidewinder 30 SF No. 17150	479; 639	Life, R. 0.Own	Yes	6.5-20x	19.5-6 <sup>3</sup>	44	7-2.2	Y	95	0.1 mil	6 mil	MIL =	= MIL	SFP 20x	D, Grid	?	30	24.0 680g	13.3" 34c	T Turn Counter
Vector: Paragon Gen. 2 No. SCOL-27	360; ?	Life, NoRec.		6-30x	18.8-3.8	56	8-2.2	Y	60	0.1 mil	8 mil	MIL =	= MIL	SFP 10x	D, N, Grid		30	23.6 670g	14.4" 37c	Parallax 15y Locking Turrets
Vector: Paragon Gen. 2 No. SCOL-26	360; ?	Life, NoRec.		5-25x	22.5-4.5	56	9-1.5	Y	60	0.1 mil	8 mil	MIL =	= MIL	SFP x?	D, N, Grid		30	24.7 700g	15.7" 40c	Parallax 15y Locking Turrets
Element: Helix SFP •MIL Ret. PR-1C SFP •MOA Ret. EHR-1C SFP	400; —	Life, NoRec.		6-24x	19 <sup>1</sup> -4 <sup>2</sup>	50	9-2.0	NO	65	0.1 mi 1/4 mo	6 mil 15 moa	MIL =	= MIL	SFP 24x	D, N	?	30	26.0 737g	13.3" 36c	Toolless Re-zero; 0-Stop; Turn Counter
Hawke: Airmax 30 SF No. 13320 Discontinued	408; 480	Life, R. 0.Own	Yes!	6-24x	17 <sup>3</sup> -4.5	50	8-2.0	Y	65	1/4 moa	15 moa	MOA ≠	≠ MIL	SFP 10x	D	?	30	26.7 757g	15.6" 40c	"small Eyebow" Locking Turrets
Hawke: Airmax 30 SF Compact No. 13220	395; 459	Life, R. 0.Own	Yes!	6-24x	21.9-5.5	50	8-2.1	Y	53	0.1 mil	6 mil	MIL =	= MIL	SFP 10x	D	?	30	23.6 670g	13.0" 33c	Capped Turrets BUT Large for Clicking! T Turn Counter
Hawke: Frontier SF •Mil Pro Ret. No. 18130	479; 629	Life, R. 0.Own	Yes	4-20x	28-6	44	11-2.2	Y	63	0.1 mil	8 mil	MIL =	= MIL	SFP 20x	D, N, Grid	?	1"	20.6 584g	13.2" 34c	3 Screws to rezero; Locking Turrets; 0-Stop

				Magni. → FoV	→ Eye Box			Exposed Turrets				Holdoff Reticle				Dimensions				
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfctr.'s in US \$	Warranty	Springer-Rated	Magnification	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adj. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? — SFP Calibration at ?	Enough Dots, No S, CD CenterDot	Line thickness	Tube Diameter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Hawke: Frontier SF • Ret. Mil Pro No. 18140	529; 699	Life, R. 0.Own	Yes!	5-25x	22.5-4.5	50	10-2.0	Y	37	0.1 mil	8 mil	MIL =	=MIL	SFP 20x	D, N, Grid	?	1"	22.2 628g	14.4 36c	3 Screws to rezero; Locking Turrets; 0-Stop
Hawke: Sidewinder 30 SF • 20x Half Mil Ret. No. 47260	499; 659	Life, R. 0.Own	Yes	6-24x	21 <sup>-3</sup> -5.4	56	9-2.3	Y	70	0.1 mil	6 mil	MIL =	=MIL	SFP 20x	D, Grid	?	30	27.3 775g	14.3 36c	T Turn Counter
Vector: Continental 30mm Tactical No. SCOL-33T	?; 499	Life, NoRec.		4-24x	31 <sup>-1</sup> -5 <sup>-2</sup>	50	9-2.1	Y	67	0.1 mil	8 mil	MIL =	=MIL	SFP 20x	D, N, Grid		30	23.6 670g	14.6 37c	Parallax 15y Locking Turrets
Vector: Continental X8 ED Tactical No. SCOL-T51	?; 765	Life, NoRec.		4-32x	30.7-3.8	56	8-1.7	Y	70	0.1 mil	8 mil	MIL =	=MIL	SFP ?x	D, N, Grid		30	28.0 795g	15.1 39c	Parallax 17-15y (yes); 0-Stop; Locking Turrets
Maven: RS.5 Only SHR-MIL Ret.!	1400; 1400	Life	?	4-24x	27.8-4.6	50	8 <sup>-5</sup> -2.1	Y	100	0.1 mil	10 mil	MIL =	=MIL	SFP 24x	• 5mi Elev, CD	?	30	25.5 723g	14.4 37c	0-Stop; Windage capped
Hawke: Frontier SF • Mil Pro Ret. No. 18130	479; 629	Life, R. 0.Own	Yes	4-20x	28 <sup>-2</sup> -5.7	44	11-2.2	Y	63	0.1 mil	8 mil	MIL =	=MIL	SFP 20x	D, N, Grid	?	1"	20.6 584g	13.2 34c	3 Screws to rezero; Locking Turrets; 0-Stop
Hawke: Frontier 30 SF • Mil Pro Ret. No. 18441	740; 949	Life, R. 0.Own	Yes	5-30x	22.5-3.6	56	11-1.9	Y	57	0.1 mil	8 mil	MIL =	=MIL	SFP 20x	D, N, Grid	?	30	25.5 724g	15.8 40c	Parallax 15y 3 screws to rezero; Locking Turrets; 0-Stop
Hawke: Frontier 30 SF • Mil Pro Ret. No. 18431	699; 899	Life, R. 0.Own	Yes	4-24x	28 <sup>-2</sup> -4.8	50	12-2.1	Y	73	0.1 mil	8 mil	MIL =	=MIL	SFP 20x	D, N, Grid	?	30	23.4 662g	14.5 37c	Parallax 15y 3 screws to rezero; Locking Turrets; 0-Stop
Trijicon: Tenmile • Red Dot No. TM42450-C-3000007 • Green Dot No. TM42450-C-3000008	900, 1200; 1890	Life	?	4-24x	28.5-4.7	50	8-2.0	Y	100 70 Windage	0.1 mil	8 mil	MIL =	=MIL	SFP 24x	D	.06 <sup>mi</sup> .20 <sup>mo</sup>	30	25.7 729g	14.5 37c	0-Stop; Turn Counter; Capped Windage Turret
Sightron: [S6=] SVI SFP • MOA-7 No. 66002	1500; 1600	Life	?	5-30x	22.7-3.8	56	?	Y	80 60 Windage	¼ moa	20 moa	MOA =	=MOA	SFP 30x	D, N, CD	.03 <sup>mi</sup> .10 <sup>mo</sup>	34	33.3 944g	16.7 42c	0-Stop; 3 screws to rezero
Delta: Stryker HD • DLS-1 Ret. [MIL] Ret. No. DU-2504 • DLS-3 MOA Ret. No. DU-2506	1590; —	10y, Rec.	?	5-50 x	19.2-2 <sup>-1</sup>	56	7-1.1	Y	100 50 Windage	0.05 mil ⅙ moa	10 mil 25 moa	MIL = MOA =	=MIL =MOA	SFP 40x	• D, CD • D, N, CD	.005 <sup>mi</sup> .02 <sup>mo</sup>	34	38.8 1100g	14.3 36c	0-Stop; Turn Counter
Trijicon: Tenmile • MRAD Center Dot w/ Wind Holds No. TM5056-C-3000017 • MOA Long Range No. TM5056-C-3000018	1816; 2837	Life	?	5-50 x	21 <sup>-2</sup> -2 <sup>-1</sup>	56	7-1.0	Y	100 50 Windage	0.05 mil ⅙ moa	4 mil ? moa	MIL = MOA =	=MIL =MOA	SFP 40x	D, N, mini Grid, CD	.01 <sup>mi</sup> .03 <sup>mo</sup>	34	38.4 1089g	16.0 41c	0-Stop; Turn Counter; Capped Windage Turret
FFP Scopes																				
FFP Scopes – without Thick Outside Posts in the Reticle																				
Monstrum: • G1 Ret. No. FFPS62450-R • G2 Ret. No. G2-BFFPS62450-R	• 230 • 200	1y		6-24x	???	50	?	Y	? 80	¼ moa	15 moa	MOA =	=MOA	FFP No Thick Posts	D	?	30	30.0 29.0	16.6 15.5"	
Sun Optics: FFP Variable No. CS41-62450	400; 557	1y		6-24x	17-4	50	8-2.0	NO	??	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D	.10 <sup>mi</sup> .34 <sup>mo</sup>	30	26.0 737g	14.5 37c	
Vector: Veyron 6-24x44 No. SCFF-23	198; 289	5y	Yes	6-24x	17.5-4 <sup>-3</sup>	44	7-1.8	NO	50	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>3</sup> No Thick Posts	D	.025 <sup>mi</sup> .08 <sup>mo</sup>	30	20.5 580g	11.7 30c	Locking Turrets
Vector: Marksman 6-24x50 No. SCFF-26 (Ret. 6-25x50, SCFF-11)	?; 230	5y, Rec.		6-24x	17-5	50	8-2.1	NO	60	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>16</sup> No Thick Posts	D, N, Grid	?	30	24.7 700g	14.2 36c	Locking turrets



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Brand: Series Part No.																				
MTC: King Cobra F1	446,629; —	Life <sup>30d</sup> R. 0.Own		6-24x	16-4	50	?	Y	38 (??)	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>18</sup> No Thick Posts	D		30	26.3 746g	14.4" 37c	Locking Turrets Magnify. Lens Cap
Hawke: Sidewinder 30 SFFF No. 17420 Discontinued	500; 600	Life, R. 0.Own	Yes!	6-24x	17-4	56	9-2.0	Y	60	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>10</sup> No Thick Posts	D	?	30	31.1 880g	15.9" 40c	
Hawke: Airmax 30 FFP SF No. 13352	496; 589	Life, R. 0.Own	Yes!	6-24x	21 <sup>0</sup> -5 <sup>2</sup>	50	8-2.1	Y	57	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D	?	30	27.0 765g	14.9" 38c	Capped Turrets! BUT Clickable
Hawke: Vantage 30 WA FFP No. 14304	424; 589	Life, R. 0.Own	<12 FPE	6-24x	21 <sup>0</sup> -5 <sup>2</sup>	50	8-2.1	Y	60	0.1il	6 mil	MIL =	=MIL	FFP No Thick Posts	D	?	30	26.6 755g	14.9" 38c	
Vector: Taurus No. SCFF-14	?; 449	Life, NoRec.		5-30x	20.4-3.5	56	11-1.8	Y	40	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>2</sup> No Thick Posts	D, N	?	30	28.7 813g	15.6" 40c	Parallax 17y (20y stated)
Konus (Italy): Pro F30 No. 7297	590; ?	Life		6-24x	16-4	52	8-2.2	Y	60	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>12</sup> No Thick Posts	D	.04 <sup>mi</sup> OR? .05 .14 <sup>mo</sup>	30	28.6 810g	16.4" 42c	Cant Bubble Large Parallax T.
Hawke: Sidewinder 30 FFP •FFP Half Mil Ret. No. 17460 •FFP MOA Ret. No. 17461	629, 799; 670, 799	Life, R. 0.Own	Yes	6-24x	21 <sup>3</sup> -5.4	56	9-2.3	Y	70	0.1mi 1/4mo	6 mil 15 moa	MIL =	= MIL	FFP No Thick Posts	D, Grid	?	30	27.3 775g	14.3" 36c	T Turn Counter
Vector: Taurus No. SCFF-17	?; 430	Life, NoRec.		4-24x	25.5-4.2	50	12-2.1	Y	50	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>23</sup> No Thick Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	27.1 770g	15.0" 38c	Parallax is 10y. Locking turrets
Hawke: Frontier 30 FFP •Mil Pro 20x Ret. No. 18530	950; 1050	Life, R. 0.Own	Yes	4-20x	28 <sup>2</sup> -5.7	50	12-2.5	Y	80	0.1 mil	8 mil	MIL =	=MIL	FFP <sup>36</sup> No Thick Posts	D, N, Grid	?	30	22.2 630g	13.2" 34c	Parallax 15y 3 Screws to rezero; Locking Turrets; 0-Stop
Hawke: Frontier 30 FFP •Mil Pro 25x Ret. No. 18540	849; 1049	Life, R. 0.Own	Yes	5-25x	22.5-4.5	56	11-2.2	Y	65	0.1 mil	8 mil	MIL =	=MIL	FFP <sup>14</sup> No Thick Posts	D, N, Grid	?	30	24.8 698g	13.2" 37c	Parallax 15y 3 Screws to rezero; Locking Turrets; 0-Stop
FFP Scopes – with Thick Outside Posts in the Reticle																				
Vector: Tourex No. SCFF-19	?; 280	5y, Rec.		6-24x	18-5	50	8-2.1	Y	50	1/4 moa	15 moa	MOA =	=MOA	FFP <sup>17</sup> Thick O/S Posts	D, N but 4*12, 20, 28, 36	?	30	26.3 745g	14.3" 37c	0-Stop
Monstrum: •G3 Ret. No. G3F62450 •GH Ret. No. FFPS62450-H	•250 •200	1y		6-24x	18-5	50	?	Y	80	1/4 moa	15 moa	MOA =	=MOA	FFP Thick O/S Posts	D	?	30	30.0 850g	15.8" 16.6"	Parallax is 10y
Aztec: Emerald FFP	540; —	Life	Yes!	5.5-25x	19 <sup>1</sup> -4 <sup>2</sup>	50	?	Y	c. 40?	1/4 moa	15 moa	MOA =	=MOA	FFP <sup>19</sup> Thick O/S Posts	D, N mini Grid	?	30	25.4 720g	14.4 37c	"Low DoF"
ACME Machine •TR-MIL Ret. No. 08-625 •TR-MOA Ret. No. 08-624	?; 300			6-24x	17-4	50	8-2.1	Y	60	0.1mil 1/4mo	??mil 12moa	MIL =	=MIL	FFP <sup>20</sup> Thick O/S Posts	D		30	28.5 808g		Parallax is 10y. T. Turn Counter
Sightron: S-TAC: [FFP] •Ret. MIL No. S-TAC4-20XGFFPZSIPMH	660; 800	Life		4-20x	22-4	50	?	Y	80 40 wind-age	0.1 mil	5 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	.035 <sup>mi</sup> .12 <sup>mo</sup>	30	25.6 725g	15.0" 38c	0-Stop. T Turn Counter
Element: Nexus •APR-1C MRAD Ret. •APR-2D MRAD Ret. •EHR-1C MOA Ret. •EHR-1D MOA Ret.	1500; 1500	Life		5-20x	23 <sup>3</sup> -5.8	50	8-2.5	Y	80 50 wind-age	0.1mi 1/4mo	10 mi 20mo	MIL =	=MIL	FFP Thick O/S Posts	•D, N •+Grid •D, N •+Grid	?	30	28.0 794g	13.8" 35c	0-Stop. T Turn Counter. Toolless Rezero
Hi-Lux (US): PentaLux TAC-VF 4-20x50 FFP G2	539; 575	Life, Rec.	No	4-20x	28-6	50	12-2.5	Y	80	0.1 mil	12 mil	MIL =	=MIL	FFP <sup>32</sup> Thick O/S Posts	D, N	?	30	27.9 791g	14.7" 37c	Locking Turrets Throw Lever
Swampfox (US): Warhawk •Sharpsh. Grid Ret. MIL •Sharpsh. Grid Ret. MOA No. TWK42050-3L No. TWK42050-3M	??; 659	Life (50000 rounds)		4-20x	32 <sup>0</sup> -7 <sup>2</sup>	50	13-2.4	Y	90	0.1mi 1/4mo	10 mi 25mo	MIL =	=MIL	FFP <sup>34</sup> Semi Thick Posts	D, N, Grid	?	34	32.8 930g	15.0 38c	Locking Turrets

				Magni. → FoV	→ Eye Box			Exposed Turrets				Holdoff Reticle				Dimensions				
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfgt.'s in US \$	War-ranty	Springer-Rated	Magni-fication	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? — SFP Calibration at ?	Enough Dots, No S's, CD Grid CenterDot	Line thick-ness	Tube Dia-meter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series      Part No.																				
Athlon: Helos BTR Gen. 2 •APRS6 MIL Ret.      No. 214109	500; 712	Life, NoRec.		4-20x	28-6	50	?	Y	100	0.1mi	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	.05mi .17mo .05mi .17mo	30	27.6 782g	13.3" 34c	0-Stop T Turn Counter
•APLR6 MOA Ret.      No. 214108										1/4mo	25mo	MOA =	=MOA							
Nikko: Diamond FFP 30 •PRR Ret.      No. NSFFP62450PRR	300; ?	Life, 0.Own		6-24x	19-5	50	?	Y	50	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>27</sup> O/S Posts •Thick •Not Thick	D, N D, —	.05mi .17mo	30	24.0 680g	14.2" 36c	Locking Turrets
•Skeleton HMD Reticle No. NSFFP62450HMD																				
Nikko: Diamond FFP 34 •PRR Ret.      No. NSFFP3441644PRR	430; ?	Life, 0.Own		6-24x	21-5	50	?	Y	80	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>28</sup> O/S Posts •Thick •Not Thick	D, N D, —	.05mi .17mo	34 26.5 750g	14.2" 36c	Locking Turrets	
•Skeleton HMD Ret. No. NSFFP3462450PRR																				
Optisan: EVX, Gen. 2: 6-24x50 F1 •w/ IR      No. 37583   •w/o IR No.      37534	?; 560	Life		6-24x	19.4-4.9	50	8-2.1	Ei th er	50	0.1 mil	4.8 mil	MIL =	=MIL	FFP <sup>21</sup> Semi Thick Posts	D, (N)	?	30	26.5 751g	14.8" 38c	Locking Turrets
Riton (US): 3 Conquer	500; 587	Life, NoRec	Yes	6-24x	17-4	50	8-2.1	Y	70	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	.045mi .15mo	30	27.1 768g	14.1" 36c	0-Stop
Swampfox (US): Patriot •Sharpsh. Grid Ret. MIL      No. PAT62450-L	300; 429	Life (50000 rounds)		6-24x	17.5-4 <sup>2</sup>	50	8-2.1	NO	65	0.1mi	6 mi	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	30	24.0 680g	14.5 37c	
•Sharpsh. Grid Ret. MOA No. PAT62450-M										1/4mo	15mo	MOA =	=MOA							
Blackhound (US): Genesis 6-24x50 FFP •MIL •MOA	?; 400	Life, Anyb.	?	6-24x	16-4	50	?	Y	70	0.1mi 1/4mo	5 mil 15mo	MIL = MOA =	=MIL =MOA	FFP <sup>9</sup> Thick O/S Posts	D, N	?	30	27.5 780g	14.1" 36c	0-Stop T Turn Counter
Athlon: Argos BTR Gen 1 •MIL Ret.      No. 21406T Discontinued •MOA Ret.      No. 214060	297; 445	Life, NoRec.		6-24x	17-4	50	8-2.1	Y	60 (a user reported 70)	0.1mi 1/4mo	5 mil 12mo	MIL = MOA =	=MIL =MOA	FFP <sup>13</sup> Thick O/S Posts	D, N, Grid	.02mi .07mo .04mi .14mo	30	29.6 835g	14.1" 36c	T Turn Counter "Tracks, Wide DoF, small Eye Box"
Athlon: Argos BTR Gen 2 •MIL Ret.      No. 214063  •MOA Ret.      No. 214062	380; 450	Life, NoRec.		6-24x	16.7-4.5	50	8-2.1	Y	60 (a user reported 70)	0.1mi 1/4mo	6 mil 15mo	MIL = MOA =	=MIL =MOA	FFP <sup>31</sup> Thick O/S Posts	D, N, Grid	.02mi .07mo .04mi .14mo	30	30.3 859g	14.1" 36c	0-Stop T Turn Counter
Vortex: Diamondback Tactical •MIL Ret.      No. DBK-10029 •MOA Ret.      No. DBK-10028	400, 300; 500	Life		6-24x	18 <sup>0</sup> -4.5	50	8-2.1 calcu- lated	NO	65	0.1mi 1/4mo	6 mil 15mo	MIL = MOA =	=MIL =MOA	FFP <sup>8</sup> Thick O/S Posts	D, N, Grid	.03mi .12mo	30	24.6 697g	14.3" 36c	"Tracks" "small Eyebbox"
Element: Helix FFP •MIL Ret. APR-2D MRAD •MOA Ret. APR-2D MOA	480; —	Life, NoRec.		6-24x	18 <sup>3</sup> -4.6	50	9-2.2	NO	65	0.1 mi 1/4 mo	6 mil 15 moa	MIL = MOA =	=MIL =MOA	FFP <sup>30</sup> Thick O/S Posts	D, N, Grid	?	30	26.0 737g	14.3" 36c	Toolless Re-zero; 0-Stop; Turn Counter
Bushnell: Match Pro •w/ IR      No. MP6245BF8 •w/o IR      No. MP6245BF2	—; 500, 450	Life NoRec.		6-24x	18-4	50	?	Ei th er	65	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>44</sup> Thick O/S Posts	D, N, Grid	.05mi .17mo	30	29.8 845g	14.0" 36c	Locking Turrets; Toolless Re-zero
Athlon: Helos BTR •MIL Ret.      No. 214107 Gen. 1 = Discontinued •MOA Ret.      No. 214106	459, 570; 712	Life, NoRec.		6-24x	17-5	50	8-2.1	Y	60	0.1mi 1/4mo	6 mil 15 mo	MIL = MOA =	=MIL =MOA	FFP <sup>6</sup> Thick O/S Posts	D, N, Grid	.02mi .07mo .04mi .14mo	30	29.7 842g	14.0" 36c	T Turn Counter Locking Turrets
Athlon: Midas TAC •MILAPRS2 Ret.      No. 213075 •MILAPRS3 Ret.      No. 213077 •MOA APLR4 Ret.      No. 213076	•630 756   •670 837   •670 837	Life, NoRec.		6-24x	17.8-4.6	50	11-1.8	Y	85 50 Wind-age	0.1mi 1/4mo	10 mil 25 moa	MIL = MOA =	=MIL =MOA	FFP <sup>5</sup> Thick O/S Posts	D, N D, N, Grid D, N, Grid	.03mi .10mo .036mi .12mo	30	26.3 746g	14.6" 37c	0-Stop T Turn Counter Windage Capped

				Magni. → FoV	→ Eye Box	Exposed Turrets			Holdoff Reticle				Dimensions							
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfctr.'s in US \$	Warranty	Springer-Rated	Magnification	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? — SFP Calibration at ?	Enough Dots, No S, CD CenterDot	Line thickness	Tube Diameter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series Part No.																				
Delta: Stryker HD No. DO-2515 •DLR-1 Ret. •DPRC-1 Ret. No. DO-2514	1595; —	10y Rec.		35-21x	33.3-5.7	44	?	Y	170 80 Windage	0.1 mil	10mil	MIL =	=MIL	FFP Thick O/S Posts	•D, (N), CD •D, N, CD, Grid	.05 <sup>mi</sup> .17 <sup>mo</sup> .035 <sup>mi</sup> .12 <sup>mo</sup>	34	28.4 805g	12.4"	0-Stop 32c T Turn Counter Locking Turrets Windage Capped ▲Eye relief from 7.1-9.9cm
Alpen: Apex No. 4015	720; 980	Life, 60d		45-27x	22 <sup>-2</sup> -3.8	50	10-1.9	Y	80	¼ moa	25 moa	MOA =	=MOA	FFP Thick O/S Posts	D	?	30	heavy ???	16.9"	
Shepherd (US): BRS •BRS-MIL Ret.  •BRS-MOA Ret.	749; 849	Life, 00wn		5-25x	22.5-4.5	56	?	Y	60	0.05 mil	?mil	MIL =	=MIL	FFP <sup>35</sup> Thick O/S Posts	D, N, Grid	? ? .04 <sup>mi</sup> .13 <sup>mo</sup>	34	37.9 1075g	15.4"	T Turn Counter Locking Turrets
Swampfox (US): Warhawk •Sharpsh. Grid Ret. MIL No. TWK52556-3L •Sharpsh. Grid Ret. MOA No. TWK52556-3M	569; 689	Life (50000 rounds)		5-25x	24.4-4.6	56	11-2.2	Y	90	0.1mi	10 mi 25mo	MIL =	=MIL	FFP <sup>34</sup> Semi Thick Posts	D, N, Grid	?	34	36.8 1043g	15.4"	Parallax 15y Locking Turrets
Swampfox (US): Kentucky Long •Sharpsh. Grid Ret. MIL No. KTK53056-4L •Sharpsh. Grid Ret. MOA No. KTK53056-4M	467; 599	Life (50000 rounds)		5-30x	21.8-3.4	56	9-1.7	Y	80	0.1mi	6 mi	MIL =	=MIL	FFP <sup>22</sup> Semi Thick Posts	D, N, Grid	?	30	31.8 902g	15.5"	Parallax 15y Locking Turrets
Athlon: Helos BTR Gen. 2 No. 214114 •MIL Ret.  •MOA Ret. No. 214113	600; 750	Life, NoRec.		6-24x	19.9-5.1	56	?	Y	100	0.1mi	10 mil	MIL =	=MIL	FFP <sup>6</sup> Thick O/S Posts	D, N, Grid	.03 <sup>mi</sup> .10 <sup>mo</sup> .04 <sup>mi</sup> .12 <sup>mo</sup>	34	34.5 978g	14.3"	0-Stop 37c T Turn Counter
Zero Tech (US): Vengeance	?; 800	Life, NoRec.		5-25x	21 <sup>-3</sup> -5.7	56	9-1.9	Y	96 69 Windage	0.1 mil	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	.04 <sup>mi</sup> .15 <sup>mo</sup>	34	39.0 1105g	15.1"	Parallax 15y 3 screws de rezero; Locking Turrets; 0-Stop
Arken (US): EPL4 No. EPL4-6241VHR •MIL Ret. •MOA Ret. No. EPL4-6240VHR	400; 440	Life		6-24x	18.6-4.7	50	?	Y	68 40 Windage	0.1mi	8 mi	MIL =	=MIL	FFP <sup>42</sup> Thick O/S Posts	D, N, CD	.03 <sup>mi</sup> .10 <sup>mo</sup>	30	23.7 672g	13.8"	0-Stop, 3 screws to rezero, T Turn Counter
Swampfox (US): Kentucky Long •Sharpsh. Grid Ret. MIL No. KTK42450-4L •Sharpsh. Grid Ret. MOA No. KTK42450-4M	459; 569	Life (50000 rounds)		4-24x	30.9-4.7	50	11-2.0	Y	90	0.1mi	6 mil	MIL =	=MIL	FFP <sup>33</sup> Semi Thick Posts	D, N, Grid	?	30	28.2 800g	15.1"	Locking Turrets
Falcon (UK): S30 Gen. 1 (–2020) No. S3001 Discontinued	377, 423; –	10y, 0.Own		5-30x	24 <sup>-0</sup> -3.9	56	11-1.9 canted	NO	57	0.1 mil	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	32.5 920g	15.8"	T Turn Counter 40c
Falcon (UK): S30 Gen. 2 (2020–) Discontinued	?; –	10y, 0.Own		5-30x	24-4	56	11-1.9 canted	NO	90	0.1 mil	12 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	34	36.0 1020g	14.6"	No T Turn Counter, but 12mil/turn
Hi-Lux (US): Phenom 5-30x56 FFP	507; 599	Life, Rec.	No	5-30x	23-4	56	10-1.2	Y	90	0.1 mil	12 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	32.0 907g	14.7"	Locking Turrets 12mil/turn
Hawke: Frontier 34 FFP No. 18640 •MIL Ret. •MOA Ret. No. 18641	1260; 1400	Life, R. 0.Own	Yes	5-30x	22.5-3.8	56	11-1.9	Y	100 53 Windage	0.1mi 1/4mo	8 mil	MIL =	=MIL	FFP Semi Thick Posts	D, N, Grid	.03 <sup>mi</sup> .11 <sup>mo</sup>	34	29.3 830g	15.4"	Parallax 15y 3 screws; Locking Turrets; Zero Stop
Vortex: Strike Eagle No. SE-52504 •MIL Ret. •MOA Ret. No. SE-52503 Some Fails! <a href="https://www.youtube.com/watch?v=uo6VY4xpQs">https://www.youtube.com/watch?v=uo6VY4xpQs</a>	700; 800	Life		5-25x	24 <sup>-0</sup> -5.2	56	?	Y	110 78 Windage	0.1mi 1/4mo	10 mi 25 mo	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	.03 <sup>mi</sup> .11 <sup>mo</sup>	34	31.8 902g	15.5"	Parallax 15y 0-Stop with 47moa Limit Locking Turrets



				Magni. → FoV	→ Eye Box	Exposed Turrets			Holdoff Reticle				Dimensions							
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfgtr.'s in US \$	War-ranty	Springer-Rated	Magni-fication	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? — SFP Calibration at ?	Enough Dots, No S, CD Grid CenterDot	Line thick-ness	Tube Dia-meter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series    Part No.																				
Element: Titan • MIL Ret. APR-2D • MOA Ret. APR-2D • MOA Ret. EHR-1C • MIL Ret. APR-1C	800; —	Life, NoRec.		5-25x	24 <sup>-1</sup> -4.9	56	11-2.1	Y	90 <sup>50°</sup> Win-dage	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP <sup>29</sup> Thick O/S Posts	D, N, Grid, CD D, (N). D, N, CD.	??	34	39.0 1105g	15.2" 39c	Parallax 15y 0-Stop with 47moa Limit Toolless Re-zero; T Turn Counter
Riton: 5 Conquer (or X5) • PSR MIL Ret. • BAF MOA Ret.	550, 600; 824	Life	Yes	5-25x	22.5-4.5	50	10-2.2	Y	70	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP <sup>39</sup> Thick O/S Posts	D, N, Grid, CD	.035 <sup>mi</sup> .12 <sup>mo</sup>	34	34.0 963g	15.4" 39c	0-Stop with 70moa Limit <sup>N2</sup> ; 3 Screws to rezero
Falcon: Endura • MIL B2GD B28 Grid-Dot Ret.    No. FO-B252 • MOA M40 Plus-Dot (M4PD) Ret.    No. FO-B251	680; —;	Life		3.5-25x	27 <sup>-0</sup> -4.4	56		Y	110	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP <sup>46</sup> Thick O/S Posts	D, N, Grid	.04 <sup>mi</sup> .12 <sup>mo</sup>	34	35.1 995g	14.8" 38c	True 0-Stop; T-Counter
Sightron: [S6=] SVI FFP • MIL MH-7 IR Ret.    No. 66003 • MOA MOA-8 IR    No. 66004	1650; 1700	Life		5-30x	22.7-3.8	56		Y	75	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP Thick O/S Posts	D, N, Grid, CD	.03 <sup>mi</sup> .01 <sup>mo</sup>		33.3 944g	16.7" 42c	0-Stop; 3 Screws to rezero
Riton: 5 Conquer (or X5) • TPSR MIL Ret. • BAF MOA Ret.	700; 1003, 1400	Life	Yes	4-28x	30-4 <sup>3</sup>	56	8-2.0	Y	95	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP <sup>40</sup> Thick O/S Posts	D, N, Grid, CD	.035 <sup>mi</sup> .12 <sup>mo</sup> ? <sup>mi</sup> ? <sup>mo</sup>	34	36.8 1043g	14.9" 38c	Parallax c. 13y 0-Stop w/ 70moa Limit <sup>N2</sup> ; 3 Screws to rezero
Vector: Continental 34mm • No. SCFF-29 VCT (typical grid) • No. SCFF-40 MBR (w/ 25mil elev. holds and person-ranging diagram) • No. SCFF-39 MBR (same ret. as SCFF-40) Scope Color is FDE.	680; 850	Life, NoRec.		4-24x	30.6-5 <sup>-1</sup>	56	8-2.3	Y	115	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>25</sup> Thick O/S Posts	D, N, Grid	.04 <sup>mi</sup> .14 <sup>mo</sup>	34	27.5 780g	14.3" 36c	0-Stop with 68moa Limit Locking Turrets mech. T-Counter
Element: Theos • APR-2D MRAD Ret.	1980 onsale; 2800	Life, NoRec.		6-36 x	20 <sup>-3</sup> -3.4	56	9-1.6	Y	100 <sup>40°</sup> Win-dage	0.1 mil	12 mil	MIL =	=MIL	FFP <sup>51</sup> Thick O/S Posts	D, N, Grid	??	34	36.5 1035g	14.8" 38c	0-Stop, mech. Turn Counter, Toolless Re-zero, Wind. Capped
Vortex: Razor HD Gen. II [no Gen. I or II] EBR-7D Ret.: • MIL Ret.    No. RZR-63602 • MOA Ret.    No. RZR-63601	3000; 4000	Life		6-36 x	20 <sup>-5</sup> -3.5	56	?	Y	125 <sup>55°</sup> Win-dage	0.1mi ¼mo	10 mi 25 mo	MIL = MOA =	=MIL =MOA	FFP <sup>37</sup> Thick O/S Posts	D, N, Grid, CD	.03 <sup>mi</sup> .10 <sup>mo</sup>	34	31.8 1279g	15.3" 39c	0-Stop with 95moa Limit Locking Turrets mech. T-Counter
Bushnell: Match Pro ED	—; 700	Life NoRec.		5-30x	24.5-4 <sup>-1</sup>	56	?	Y	103	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>34</sup> Thick O/S Posts	D, N, Grid, CD	.04 <sup>mi</sup> .14 <sup>mo</sup>	34	32.0 907g	15.4" 39c	Parallax 15y 0-Stop; Locking Turrets; Toolless Re-zero; mech. T-Counter
Vector: Continental 34mm • No. SCFF-30 VCT • No. SCFF-41 MBR (w/ 25mil elev. holds and person-ranging diagram)	710; 900	Life, NoRec.		5-30x	24.7-4 <sup>-1</sup>	56	8-1.8	Y	88 <sup>mine had 96 moa</sup>	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>25</sup> Thick O/S Posts	D, N, Grid	.03 <sup>mi</sup> .10 <sup>mo</sup>	34	28.6 810g	15.4" 39c	0-Stop with 70moa Limit Locking Turrets mech. T-Counter
Riton: 7 Conquer (formerly X7) • ODEN Ret.	1000; 1800	Life	Yes	3-24x	35-4.6	56	6.6-2.2	Y	120	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>48</sup> Thick O/S Posts	D, N, Grid, CD	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	35.0 992g	13.9" 35c	Parallax is c. 15y (≠ "20y") 0-Stop with 70moa Limit <sup>N2</sup> ; 3 Screws to rezero
Element: Nexus Gen. 2 • APR-1C MRAD Ret. • APR-2D MRAD Ret. • APR-1C MOA Ret. • APR-2D MOA Ret.	2000; 2000	Life		4-25x	29 <sup>-2</sup> -4.7	50	7-2.0	Y	100 <sup>40°</sup> Win-dage	0.1mi ¼mo	10 mi 20mo	MIL = MOA =	=MIL =MOA	FFP Thick O/S Posts	• D, N • +Grid • D, N • +Grid	?	30	30.7 870g	13.8" 35c	Toolless 0-Stop. T Turn Counter. Toolless Rezero

				Magni. → FoV	→ Eye Box				Exposed Turrets			Holdoff Reticle				Dimensions				
*in 2019, some 2020, 2021, 2022, 2023	Price*: Low; Mfctr.'s in US \$	War-ranty	Springer-Rated	Magnification	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	Thick O/S Posts? FFP – SFP Calibrated at ?	Enough Dots, No's, CD CenterDot	Line thick-ness	Tube Dia-meter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series <small>Part No.</small>																				
Maven: RS.4 •CFR-MIL Ret.  •SHR-MIL Ret.  •MOA-2 Ret. [Not SHR-W Ret..!]	1800; 1800	Life	?	5-30x	23 <sup>3</sup> -3.9	56	9-1.9	Y	120	0.1mi	10 mi	MIL =	=MIL	FFP Thick O/S Posts	All: CD •D,N, Grid, •5mi Elev.,N •D,N, Grid	??	34	35.4 1004g	12.8"	Parallax is <11y 0-Stop; Toolless Re-zero; T Turn Counter
Apex: Rival	1600; 2000	Life NoRec.		4-32x	29.9-3.7	56	8-1.6	Y N3	110 70 Win-dage	0.1 mil	15 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid, CD	.03 <sup>mi</sup> .10 <sup>mo</sup>	34	37.0 1049g	15.0"	Parallax 15y True 0-Stop; Locking Turrets; mech. T-Counter 3 Screws to rezero
Riton: 7 Conquer (formerly X7) •PSR MIL Ret.	1000, 1310; 1683, 2300	Life	Yes	4-32x	27 <sup>0</sup> -3 <sup>4</sup>	56	7-1.6	Y	105	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>41</sup> Thick O/S Posts	D, N, Grid, CD	??	34	37.0 1049g	15.0"	Parallax is <11y 0-Stop w/ 70moa limit <sup>N2</sup> ; 3 Screws to rezero
Nightforce: NX8 •MOAR F1 Ret. •MIL-C F1 Ret. •MIL-XT Ret.	2150; 2150	Life, Anyb., Register		4-32x	26 <sup>1</sup> -4.6	50	7-1.6	Y 70 Win-dage	90	1/4mo	25 mo	MOA =	=MOA	FFP <sup>45</sup> Thick O/S Posts	•D, N •D, N, CD • and Grid	?? <sup>mi</sup> ?? <sup>mo</sup> .04 <sup>mi</sup> .14 <sup>mo</sup> ?? <sup>mi</sup> ?? <sup>mo</sup>	30	28.6 811g	13.4"	0-Stop; 3 Screws to rezero; Locking Turrets
Sightron: [S8=] SVIII FFP ED •LRM Ret. <small>No. 29001</small>  •MH-6 Ret. <small>No. 29000</small>	2900; 2000 on sale, 2900	Life		5-40 x	23.7-3.0	56	very small	Y 70 Windage	135	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>50</sup> Thick O/S Posts	•D, N, CD  • and Grid	.03 <sup>mi</sup> .10 <sup>mo</sup>	40	49.0 1389g	16.8"	0-Stop; T-Counter; 3 Screws to rezero; Locking Turrets; sold with low rings
Falcon (UK): S18i FFP → For comparison only <sup>2019</sup> Discontinued	343, 380; –	10y, 0.Own	Yes	3-18x	39.7 → @10m = 1.4m	50	16-2.8 calculated	Y	90 Mine had 105	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>11</sup> Thick O/S Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	31.0 880g	14.6"	T-Counter
*in 2019, some 2020, 2021	Price*: Low ; Mfctr.'s US \$	War-ranty	Springer-Rated	Magnification	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. Adjmt. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	Thick O/S Posts? FFP – SFP Calibrated at ?	Enough Dots, No's, CD CenterDot	Line Thick-ness	Tube Dia-meter	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series <small>Part No.</small>				Magni. → FoV	→ Eye Box				Exposed Turrets			Holdoff Reticle				Dimensions				

## Notes About Different Scopes – N1, N2, N3, etc.:

**N1:** Sightron ExacTrack turret adjustment system: Though the turrets of the indicated scope are capped, they are made for dialing, because they use the same ExacTrack turret adjustment system as the uncapped scopes of the following series (as of the 2012 and 2022 catalog): S-TAC | SVIII | S6 | SV | SIII | SII | SII Big Sky → Dialing Turrets (capped w/ <sup>N1</sup>)

**N2:** This has been confirmed by various shooters on Snipers Hide. Riton, upon insistant request sent them a turret without 0-stop in order to be able to use the full elevation adjustment. It seems that a bit of grinding can achieve the same without asking Riton.

<https://www.snipershide.com/shooting/threads/riton-x7-question.7169618/#post-10871354>

**N3:** Not daylight bright.

Review EPIK ARMS, @ 10:42min: <https://www.youtube.com/watch?v=JhR4kNjZJXg>

**N4:** This scope has “Gen. 2” in its name, as it belongs two the second generation of its series – but is *not the second iteration of this particular scope* with this particular magnification range and objective diameter.

## Reticles: Footnotes: Links for Views or Videos of FFP Reticles at Different Magnifications

Note on more detailed reticle diagrams:

• Athlon: Each scope on their homepage includes detailed diagrams: <https://athlonoptics.com>

- Discovery: many scopes reticles are listed here: <https://discoveryoptics.co.uk/reticles/>

- <sup>1</sup> Discovery: HD/34mm: 4-24x50 FFP: Reticle at all magnifications: @ 4.56min:  
<https://www.youtube.com/watch?v=DerSb0Y-d34>
- <sup>2</sup> Vector: Taurus: 5-30x56 FFP: Reticle at all magnifications: @ 10:04min:  
<https://www.youtube.com/watch?v=xV6m6OUR33c>  
Reticle at all magnifications, in front of a favorable background:  
<https://www.youtube.com/watch?v=pQ82hBoSwdw>
- <sup>3</sup> Discovery: HD/34mm: 5-30x56 FFP:  
Reticle at all magnifications, in front of a non-favorable background: @ 1:51min:  
<https://www.youtube.com/watch?v=b4EF9OMRv2M>  
Reticle at all magnifications: @ 29.55min:  
<https://www.youtube.com/watch?v=PQSVqejjaEKE>  
*Illuminated* Reticle at all magnifications, but no *non-illuminated* view: @ 1:23min:  
<https://www.youtube.com/watch?v=31y22fzGb1M>
- <sup>4</sup> Discovery: HD: 5-25x50 FFP: *Illuminated* Reticle at all magnifications, but no *non-illuminated* view: @ 4:29  
<https://www.youtube.com/watch?v=SJZNGszt0E4>  
non-illuminated view: @ 2.35min: <https://www.youtube.com/watch?v=zR9mUevdVX0>
- <sup>5</sup> Athlon: Midas TAC: Reticle at min. and max. magnification:
  - MIL: APRS2 Reticle: <https://athlonoptics.com/product/midas-tac-6-24x50-aprs2-ffp-mil-scope/>
  - MIL Grid: APRS3 Reticle: <https://athlonoptics.com/product/midas-tac-6-24x50-aprs3-ffp-mil-scope/>
  - MOA: APLR4 Reticle: <https://athlonoptics.com/product/midas-tac-6-24x50-aplr4-ffp-moa-scope/>
- <sup>6</sup> Athlon: Helos BTR: Reticle at min. and max. magnification:
  - APMR MIL Grid: <https://athlonoptics.com/product/rifle-scopes-helos-btr/>
  - APLR2 MOA: <https://athlonoptics.com/product/rifle-scopes-helos-btr-3/>
- <sup>7</sup> Discovery: ED: 6-24x50 FFP: Reticle at all magnifications: @ 6.44min:  
<https://www.youtube.com/watch?v=1Ph66qud50M>
- <sup>8</sup> Vortex: Diamondback: 6-24x50 FFP: Reticle at all magnifications: @ 6.55min:  
<https://www.youtube.com/watch?v=weHwC3amwfE>
- <sup>9</sup> Blackhound: Genesis: 6-24x50 FFP: Reticle at min. and max. magnification:
  - Alpha MIL reticle: Owner's Manual: <https://www.blackhoundoptics.com/product/genesis-6-24x50-ffp-mil/>
  - Ascent MOA reticle: <https://www.blackhoundoptics.com/product/genesis-6-24x50-ffp-moa/>
- <sup>10</sup> Hawke: Sidewinder: 30 SF FFP: 6-24x56 [No. 17420]: Reticle at min. and max. magnification:  
<https://us.hawkeoptics.com/sidewinder-30-sf-ffp-riflescopes.html>
- <sup>11</sup> Falcon: S18i 3-18x50 FFP: Reticle at all magnifications: @ 2:06min:  
<https://www.youtube.com/watch?v=RGmnOFp2fUU>
- <sup>12</sup> Falcon: F30 6-24x50 FFP: Reticle at 6x magnification (24x at the mfctr's webpage): @ 5:33min:  
<https://www.youtube.com/watch?v=swZJkEM76hw>
- <sup>13</sup> Athlon: Argos BTR Gen. 1: 6-24x50 FFP: Reticle at min. and max. magnifications:
  - APMR MIL reticle: <https://athlonoptics.com/product/rifle-scope-argos-6-24x50/>
  - APLR2 MOA reticle: <https://athlonoptics.com/product/rifle-scopes-argos-6-24x50-atmr-ffp-ir-moa/>
- <sup>14</sup> Hawke: Frontier 30 FFP: 5-25x56, Mil Pro 25x Reticle [No. 18540]: Reticle at 25x magnification: @ 5:25min  
<https://www.youtube.com/watch?v=Gcud4IGjOA>  
Cf. also footnote <sup>36</sup> for the same reticle in an FFP scope, and both reticles have to cover a 5-fold magnification range and thus will be similar at the bottom end of the magnification and the top end.
- <sup>15</sup> Vector: Counterpunch: 6-25x56 FFP: Reticle at all magnifications:  
<https://www.youtube.com/watch?v=E9qIPzpxvTQ>
- <sup>16</sup> Vector: Marksman: 6-24x50 FFP: Reticle at all magnifications: @ 6:33min:  
<https://www.youtube.com/watch?v=BnLJLvXVSol>  
and @ 4.47min: <https://www.youtube.com/watch?v=nepYkyfjpng>
- <sup>17</sup> Vector: Tourex: 6-24x50 FFP: Reticle at various magnifications: @ 2.04min:  
[https://www.youtube.com/watch?v=zD-HN8uU\\_fo](https://www.youtube.com/watch?v=zD-HN8uU_fo)
- <sup>18</sup> MTC: King Cobra F1: 6-24x50 FFP: Reticle at all magnifications: @ 1:03min:  
<https://www.youtube.com/watch?v=4RjMgVRqTM4>
- <sup>19</sup> Aztec: Emerald: 5.5-25x50 FFP: Reticle at all magnifications: @ 4.21min:  
<https://www.youtube.com/watch?v=8GwntsJAuU>

- <sup>20</sup> ACME Machine: 6-24x50 FFP: Reticle at 6x, 14x, and 24x magnifications: @ 1:55min:  
<https://www.youtube.com/watch?v=LCI2SM7G2t0>  
Reticle at 6x and 24x, MOA:  
<https://www.acmemachine.com/optics-sights/6-24x50mm-first-focal-plane-tactical-rifle-scope-tr-mil-reticle/?variant=48625453254>
- <sup>21</sup> Optisan: EVX: 6-24x50 FFP F1: Reticle at 6x, 15x, and 24x magnifications: @ 12:33min:  
<https://www.youtube.com/watch?v=RuXmjOLxwNw>
- <sup>22</sup> Swampfox: Kentucky Long: 5-30x56 FFP: MOA Reticle: Reticle at all magnification: @ 3:16min:  
<https://www.youtube.com/watch?v=riYsEFSXYyw>
- <sup>23</sup> Vector: Taurus: 4-24x50 FFP: Reticle at min. and max. magnification: @ 0:37min (play at slowest playback speed, the min. magnification will be shown only for a *split second* – but shows how thin the outside post really are, they are not really “medium”):  
<https://www.youtube.com/watch?v=rZRVuR5-398>
- <sup>24</sup> Discovery: HD: 4-20x50 SFIR FFP: Reticle at all magnifications: @ 2:42min:  
[https://www.youtube.com/watch?v=C1qBt7yg\\_ek](https://www.youtube.com/watch?v=C1qBt7yg_ek)
- <sup>25</sup> Vector: Continental 34mm: 4-24x56 FFP: Reticle at all magnifications: @ 1:27min:  
<https://www.youtube.com/watch?v=ceLSb2gkmbk>  
<https://www.vectoroptics.com/data/uploads/2020/06/22/1592831142.jpg>
- <sup>26</sup> Vector: Continental 34mm: 5-30x56 FFP: Reticle at all magnifications: @ 2:23min:  
<https://www.youtube.com/watch?v=S97yza3Fph4>  
Reticle at min. and max. magnification:  
<https://www.vectoroptics.com/data/uploads/2020/06/22/1592831200.jpg>
- <sup>27</sup> Nikko: Diamond FFP 30: 6-24x50: *Skeleton HMD Reticle* (No. NSFFP62450HMD) (the PRR Reticle is different and does have thick outside posts!): Reticle at different magnifications: 6x: @ 13:44min | 16x: @ 14:14min | 24x: 14:31min:  
[https://www.youtube.com/watch?v=VOy2IWN7N\\_c](https://www.youtube.com/watch?v=VOy2IWN7N_c)
- <sup>28</sup> Nikko: Diamond FFP: Nikko's *Skeleton HMD* reticle is used in several scopes and it does not have thick outside posts; the double lines used are just as thin as the rest of the reticle. Here is an example of the *Skeleton HMD* reticle, in the Diamond FFP 30mm 6-24x50: Reticle at different magnifications: 6x: @ 13:44min | 16x: @ 14:14min | 24x: 14:31min:  
[https://www.youtube.com/watch?v=VOy2IWN7N\\_c](https://www.youtube.com/watch?v=VOy2IWN7N_c)
- <sup>29</sup> Element: Titan: 5-25x56:  
MIL Ret. APR-1C: Likely from 5x–25x – recommended to play it with slow motion: @ 3:46min  
<https://www.youtube.com/watch?v=eSGzTPkRxZY>  
MIL Ret. APR-1C + APR-1D: @ 5:02min:  
<https://www.youtube.com/watch?v=2CmHU4lhqQ>  
MIL Ret. APR-1D: @ 6:50min:  
<https://www.youtube.com/watch?v=0-C6DhTkDgw>  
MOA Ret. EHR-1C + EHR-1D: @ 6:31min:  
<https://www.youtube.com/watch?v=2CmHU4lhqQ>  
Manual of all four reticles, at 5x and 25x:  
<https://element-optics.com/wp-content/uploads/2020/10/5x7-TITAN-MANUAL-Amended.pdf>  
Difference between Titan and Nexus (more expensive – because of lighter and smaller, with higher quality)  
<https://www.youtube.com/watch?v=W4qdh7-v2mM>
- <sup>30</sup> Element: Helix: 6-24x50 FFP:  
APR-2D MRAD: 6x and 24x: @ 1:01min and 1:16:  
<https://www.youtube.com/watch?v=DggOXpR2ymY>  
APR-2D MOA: Reticle at all magnifications: @ 0:14min  
<https://www.youtube.com/watch?v=YeWbkurVV0o>
- <sup>31</sup> Athlon: Argos BTR Gen. 2: 6-24x50 FFP: Reticle at min. and max. magnifications:  
• APMR MIL reticle: <https://athlonoptics.com/product/argos-btr-gen2-6-24x50-apmr-ffp-ir-mil-copy/>  
• APLR2 MOA reticle: <https://athlonoptics.com/product/argos-btr-gen2-6-24x50-atmr-ffp-ir-moa-copy/>
- <sup>32</sup> Hi-Lux: PentaLux: TAC-VF 4-20x50 FFP G2: 20x: @ 0:20min:  
[https://www.youtube.com/watch?v=NAbX\\_POUKgc](https://www.youtube.com/watch?v=NAbX_POUKgc)  
@ 5:12min:



<https://www.youtube.com/watch?v=dvzUNANmNXs>

- <sup>33</sup> Swampfox: Kentucky Long: 4-24x50 FFP:

Cf. the other models of this series that have the same six-fold magnification range, resulting in the same ratio of reticle increase/decrease:

Kentucky Long: 5-30x56 FFP: MOA Reticle: Reticle at all magnification: @ 3:16min:

<https://www.youtube.com/watch?v=riYsEFSXYw>

And also: Swampfox: Kentucky Long: 2-12x44 FFP: MOA: Reticle at 2x and at 12x(?):

<https://images-na.ssl-images-amazon.com/images/I/71%2B5YMUAXfL.AC.SL1500.jpg>

<https://images-na.ssl-images-amazon.com/images/I/71aX%2BZ5aDFL.AC.SL1500.jpg>

- <sup>34</sup> Swampfox: Warhawk: 5-25x56 FFP: MOA Reticle: at 5x: @ 1:04min (very briefly, use slo-mo, or pause it):

<https://www.youtube.com/watch?v=fFh5jleVgxE>

Cf. also the same reticle in the Kentucky Long models (several videos available; however the Warhawk has only a five-fold magnification range, as opposed to the Kentucky Long's six-fold, which means the reticle will increase/decrease 17% less).

- <sup>35</sup> Shepherd: BRS: 5-25x56 FFP: Reticle at min. and max. magnifications:

BRS-MIL Ret.: <https://shepherdsopes.com/wp-content/uploads/2020/06/BRS-MIL-5-25x.jpg>

Also: <https://shepherdsopes.com/wp-content/uploads/2021/03/BRS-5-25-Instructions.pdf>

BRS-MOA Ret.: [not found yet]

- <sup>36</sup> Hawke: Frontier 30 FFP: 4-20x50, Mil Pro 20x Reticle [No. 18530]: at 4x to 20x: @ 7:55min | And illuminated at night and during daylight: @ 9:09min:

<https://www.youtube.com/watch?v=E9SLP7RiaWg>

- <sup>37</sup> Vortex: Razor HD Gen. II: 6-35x56, EBR-7D Mil Reticle: Reticle at all magnifications: @ 21:39min, and throughout the video, including illumination, and including comparisons to other scopes:

[https://www.youtube.com/watch?v=h\\_KRIbzOMKU](https://www.youtube.com/watch?v=h_KRIbzOMKU)

- <sup>38</sup> Hawke: Frontier 34 FFP: 5-30x56, Mil Pro Ext. Reticle [No. 18640]:

Cf. another model of this series that has the same six-fold magnification range, resulting in the same ratio of reticle increase/decrease:

Hawke: Frontier 34 FFP: 3-18x50, Mil Pro Ext. Reticle [No. 18620]: Reticle at all magnifications, illuminated: @ 2:02min:

<https://www.youtube.com/watch?v=3ztnkBiv4lk>

- <sup>39</sup> Riton: 5 Conquer: 5-25x50 FFP, MIL: Reticle at all magnifications: @ 8:52min and more at 12:39min:

<https://www.youtube.com/watch?v=kWvTDIOmMoc>

Reticle subtensions: MIL: <https://www.amazon.com/Riton-Optics-Conquer-5-25x50-MRAD/dp/B082DNFXKB>

Reticle subtensions: MOA: <https://www.amazon.com/Riton-Optics-Conquer-5-25x50-MOA/dp/B082DNVW2S>

- <sup>40</sup> Riton: 5 Conquer: 4-28x56 FFP:

Reticle subtensions: MIL: Page 7: <https://ritonoptics.com/wp-content/uploads/2022/04/5-Conquer-4-28x56-Manual-2022.pdf>

Reticle subtensions: MOA: ?

- <sup>41</sup> Riton: 7 Conquer: 4-32x56 FFP, MIL:

Reticle subtensions: <https://ritonoptics.com/wp-content/uploads/2019/12/7Conquer4-32x56.RitonOptics.ReticleSubtensions.jpg>

or: <https://ritonoptics.com/wp-content/uploads/2022/04/7-Conquer-4-32x56-Manual-2022.pdf>

Reticle at all magnifications, with and without illumination: <https://www.youtube.com/watch?v=tpG7mCpb0v8>

Reticle thickness: The manual and the webpage do not give the thickness of the most basic reticle line, only subtensions and others. I had published in an earlier version of this Scope Specs Table a thickness of 0.02mil. This is wrong. The manual, when enlarged, shows this is the length of a short but both-sided hashline.

<https://ritonoptics.com/wp-content/uploads/2022/04/7-Conquer-4-32x56-Manual-2022.pdf>

Also, the video of the reticles does *not* give the impression that the reticle lines are 3 or 4 times thicker than most other scopes: <https://www.youtube.com/watch?v=tpG7mCpb0v8>

- <sup>42</sup> Arken: EPL4: 6-24x50 FFP:

MIL VHR Subtensions:

[https://www.arkenopticsusa.com/ipx/w\\_1920,q\\_100/https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2Fdaa6661e721237bec2a01cfd12962abab2540216-4005x4005.png%3Fauto%3Dform](https://www.arkenopticsusa.com/ipx/w_1920,q_100/https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2Fdaa6661e721237bec2a01cfd12962abab2540216-4005x4005.png%3Fauto%3Dform)



[at?url=https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2Fdaa6661e721237bec2a01cfd12962abab2540216-4005x4005.png%3Fauto%3Dformat&w=1920&q=100](https://cdn.sanity.io/images/fu57cw5zd/production/daa6661e721237bec2a01cfd12962abab2540216-4005x4005.png?format=webp&w=1920&q=100)

MOA VHR Subtensions:

[https://www.arkenopticsusa.com/ipx/w\\_1920,q\\_100/https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2F3917883977bc6e2f37f55eab92830f303f99d20d-4005x4005.png%3Fauto%3Dformat?url=https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2F3917883977bc6e2f37f55eab92830f303f99d20d-4005x4005.png%3Fauto%3Dformat&w=1920&q=100](https://www.arkenopticsusa.com/ipx/w_1920,q_100/https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2F3917883977bc6e2f37f55eab92830f303f99d20d-4005x4005.png%3Fauto%3Dformat?url=https%3A%2F%2Fcdn.sanity.io%2Fimages%2Fu57cw5zd%2Fproduction%2F3917883977bc6e2f37f55eab92830f303f99d20d-4005x4005.png%3Fauto%3Dformat&w=1920&q=100)

<sup>43</sup> Bushnell: Match Pro ED: 5-30x56 FFP MIL:

Subtensions: [https://www.bushnell.com/on/demandware.static/-/Library-Sites-HuntShootAccessoriesSharedLibrary/default/dw8dd6d632/productPdfFiles/MP53056DM-DMI\\_MatchPro\\_Manual\\_5LIM\\_1022\\_web.pdf](https://www.bushnell.com/on/demandware.static/-/Library-Sites-HuntShootAccessoriesSharedLibrary/default/dw8dd6d632/productPdfFiles/MP53056DM-DMI_MatchPro_Manual_5LIM_1022_web.pdf)

<sup>44</sup> Bushnell: Match Pro: 6-24x50 FFP MIL: Reticle at all magnifications, illuminated:

@ 9:43min: [https://youtu.be/XT8v6Uwr\\_FQ?t=583](https://youtu.be/XT8v6Uwr_FQ?t=583)

also: @ 13:47min: [https://youtu.be/XT8v6Uwr\\_FQ?t=827](https://youtu.be/XT8v6Uwr_FQ?t=827)

<sup>45</sup> Nightforce: NX8: 4-32x50 F1

MIL-C:

Note: The MIL-C reticle is sometimes wrongly depicted in seller webpages as not having thick outside posts.

Reticle at all magnifications: <https://www.youtube.com/watch?v=Sz2n06itBy4>

and also: @ 0:06min: <https://www.youtube.com/watch?v=nu2IE5DBJzo>

MIL-XT:

Important Note: The camera in this video was incorrectly set to automatic exposure. Therefore, the camera when filming a largely dark image (woods) increased the brightness of the image automatically. This caused the reticle lines *to be washed out* when they are in front of a light colored background (white target). When the scope magnification was increased, the image was less of the dark woods and more of the white target, which caused the camera to adjust the brightness again – this time appropriate to the white target at lower brightness. This can be observed when at 0:13min the reticle lines suddenly are not washed out anymore but become visible very nicely.

Reticle at all magnifications: @ 0:07min: <https://www.youtube.com/watch?v=0P2F3lfapRc>

MOAR F1:

Not found yet.

Subtensions: Note: The reticle subtensions on the Nightforce webpage are probably incorrect because the reticle manual they offer (as of Jan. 2, 2023) gives the subtension measurements only for scopes other than the NX8 4-32x50 F1.

<sup>46</sup> Falcon: Endura: 3.5-25x56 FFP

MIL: Diagram: <https://www.falconoptics.com/wp-content/uploads/2022/06/B28-Grid-Dot-B2GD-FFP.pdf>

MOA: Reticle at all magnifications: @ 11:30min: <https://youtu.be/MwpYgGiaSDI?t=691>

<sup>47</sup> Discoveryopt: ED-ELR: 5-40x56 SFIR FFP: at 5x, 15x, and 40x:

[http://www.discoveryopt.com/repository/image/3508bf75-9d1f-46a0-9fb0-503e708b2476.jpg\\_%7Bi%7Dxaf.jpg](http://www.discoveryopt.com/repository/image/3508bf75-9d1f-46a0-9fb0-503e708b2476.jpg_%7Bi%7Dxaf.jpg)

<sup>48</sup> Riton: 7 Conquer: 3-24x56 FFP: Reticle at all magnifications: @ 3:13min:

<https://www.youtube.com/watch?v=LZAgWSQJzt0>

<sup>49</sup> Apex: Rival: 4-32x56 FFP: Reticle at all magnifications: @ 1:58min:

<https://www.youtube.com/watch?v=3pPJKCqVmXE>

<sup>50</sup> Sightron: [S8=] SVIII: 4-40x56 FFP: no images found yet beyond the manufacturer's, here:

<https://sightron.com/collections/sviii-series>

However, a shooter on Snipers Hide has described the visibility of different reticle details at varying magnifications, here:

<https://www.snipershide.com/shooting/threads/magnification-whores-check-this-out.7086276/#post-9748119>

<sup>51</sup> Element: Theos: 6-36x56 FFP: Reticle at all magnifications: @ 2:26min:

[https://www.youtube.com/watch?v=WgO4wU8\\_7Es](https://www.youtube.com/watch?v=WgO4wU8_7Es)

## Important Scope Tests and Reviews

• 4x min. to 36x max. Outdoor Life (2023). 'The Best Long Range Rifle Scopes of 2023'

<https://www.outdoorlife.com/gear/best-long-range-rifle-scopes/>