

# 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(-1000)

April 1, 2022 | Matthias aka JungleShooter | JungleShooterX@gmail.com

### 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., great magnification range; great bottom end FoV; 10-mil turrets, 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, zero 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 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): 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 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**

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

*Reticle; Ret.* **D** = "dots" = enough dots or hash lines on the crosshairs for holdoffs

**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

**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

**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 price is separated by a *comma* ,

**Price Mfctr.'s** = manufacturer's price [last price in that field, after the semicolon ; ]

Prices and models updated as follows: 2021-06: Hawke | 2021-07: Shepherd | 2022-02: Alpen

				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions							
*in 2019, some 2020, 2021	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, Grid	Line thickness	1" or 30mm	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	322 910g	17.5" 44c	*Should state glass etched reticle	
Nikko: Diamond Long Range No. NDSIG62450LRHMD •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	25-4	56	11-1.9	Y	80	1/8 moa	15 moa	MOA ≠	≠ MIL	SFP x?	D, N	?	35 1000g	35.3 1000g	14.8" 38c		
MTC: Viper Pro Tactical	520; ?	Life, 300 R. 0.Own		5-30x	24-4	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, 300 R. 0.Own		5-30x	24-4	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; 540	Life, NoRec.		6-24x	18-4	50	?	N 0	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		
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	19-4	50	?	N 0	c. 40?	1/4 moa	15 moa	MOA =	= MOA	SFP 18x✓	D, N	?	30	25.4 720	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	4.5 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 No. S-TAC4-20X50MOA	470; 540	Life		4-20x	24-4	50	?	N 0	80 (40 wind age)	1/4 moa	15 moa	MOA =	= MOA	SFP x?	D	.03 <sup>mi</sup> .1 <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	19-6	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. SCUL-26	360; ?	Life, NoRec.		5-25x	22.5-5	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	

				Magni. → FoV	→ Eye Box				Exposed Turrets			Holdoff Reticle			Dimensions					
*in 2019, some 2020, 2021	Price*: Low; Mfctr.'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, Grid	Line thick-ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series Part No.																				
Element: Helix SFP • MIL Ret. PR-1C SFP • MOA Ret. EHR-1C SFP	400; —	Life, NoRec.		6-24x	19-4	50	9-2.0	N O	65	0.1 mil ¼ moa	6 mil 15 moa	MIL = MOA =	=MIL =MOA	SFP 24x	D, N	?	30	26.0 737g	13.3" 36c	Tool-less Zero Reset; Zero Stop; Turn Counter
Hawke: Airmax 30 SF No. 13320 Discontinued	408; 480	Life, R. 0.Own	Yes!	6-24x	17-4	50	8-2.0	Y	65	¼ moa	15 moa	MOA ≠	≠ MIL	SFP 10x	D	?	30	26.7 757g	15.6" 40c	"small Eyeball" Locking Turrets
Hawke: Airmax 30 SF Compact No. 13220	395; 459	Life, R. 0.Own	Yes!	6-24x	22-5	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; Locking Turrets; Zero Stop
Hawke: Frontier SF • Ret. Mil Pro No. 18140	529; 699	Life, R. 0.Own	Yes!	5-25x	22 <sup>5</sup> -4 <sup>5</sup>	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; Locking Turrets; Zero Stop
Hawke: Sidewinder 30 SF • 20x Half Mil Ret. No. 17260	499; 659	Life, R. 0.Own	Yes	6-24x	21-5	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
Discovery: HD/30mm SFP 5-25x50 No. 170103	207; 300	3y		5-25x	24-5	50	10-2.0 capped	Y	68	0.1 mil	6 mil	MIL =	=MIL	SFP 10x	D, N mini Grid	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	27.8 785g	13.2" 34c	Locking Turrets
Vector: Continental 30mm Tactical No. SCOL-33T	?; 499	Life, NoRec.		4-24x	31-5	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
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; Locking Turrets; Zero Stop
Hawke: Frontier 30 SF • Mil Pro Ret. No. 18441	740; 949	Life, R. 0.Own	Yes	5-30x	22 <sup>5</sup> -3 <sup>6</sup>	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; Locking Turrets; Zero Stop
Hawke: Frontier 30 SF • Mil Pro Ret. No. 18431	699; 899	Life, R. 0.Own	Yes	4-24x	28-5	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; Locking Turrets; Zero Stop
Sightron: S6 SFP • MOA-2 No. 66002	No avail. yet	Life	?	5-30x	23-4	56	?	Y (60 W)	80	0.1 mil	20 moa	MOA =	=MOA	SFP ??x	D	?	34	33.3 944g	16.7" 42c	Zero Stop
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	?	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	N O	??	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	17-4	44	7-1.8	N O	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 (for the 6-25x50, SCFF-11)	?; 230	5y, Rec.		6-24x	17-5	50	8-2.1	N O	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
MTC: King Cobra F1 —	446,629; —	Life <sup>304</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 SFFP 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	21-5	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	21-5	50	8-2.1	Y	60	0.1 il	6 mil	MIL =	=MIL	FFP No Thick Posts	D	?	30	26.6 755g	14.9" 38c	

				Magni. → FoV	→ Eye Box	Exposed Turrets			Holdoff Reticle				Dimensions							
*in 2019, some 2020, 2021	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, Grid	Line thickness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series <small>Part No.</small>																				
Discovery: HD: 4-20x50 SFIR <small>No. 170105</small>	200; 300	3y		4-20x	24-5	50	? Y	60		0.1 mil	6 mil	MIL =	=MIL	FFP <sup>24</sup> No Thick Posts	D, N, mini Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	28.1 795g	13.2" 34c	Locking Turrets
Vector: Taurus <small>No. SCFF-14</small>	?; 449	Life, NoRec.		5-30x	20-3	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 <small>No. 7297</small>	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> .05 <sup>OR?</sup> .14 <sup>mo</sup>	30	28.6" 810g	16.4" 42c	Cant Bubble Large Parallax T.
Discovery: HD: 5-25x50 SFIR DLTW FFP <small>No. 170110</small>	?; 315	3y		5-25x	24-5	50	Y	60		0.1 mil	6 mil	MIL =	=MIL	FFP <sup>4</sup> No Thick Posts	D, N	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	27.8 788g	13.5" 34c	Locking Turrets
Discovery: HD/34mm: 5-30x56 SFIR <small>No. 170114</small>	?; 392	3y		5-30x	23-3	56	11-1.9 Y	70 (or 50?)		0.1 mil	6 mil	MIL =	=MIL	FFP <sup>3</sup> No Thick Posts	D, N, Grid	?	34	31.8 903g	15.6" 40c	Parallax is 10y. Locking Turrets
Hawke: Sidewinder 30 FFP • FFP Half Mil Ret. <small>No. 17460</small>	629; 799. 670; 799	Life, R. 0.Own	Yes	6-24x	21-5	56	9-2.3 Y	70		0.1mi	6 mil	MIL =	= MIL	FFP No Thick Posts	D, Grid	?	30	27.3 775g	14.3" 36c	T Turn Counter
• FFP MOA Ret. <small>No. 17461</small>										1/4mo	15moa	MOA =	=MOA							
Vector: Taurus <small>No. SCFF-17</small>	?; 430	Life, NoRec.		4-24x	27-4	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
Discovery: HD/34mm: 4-24x50 SFIR <small>No. 170109</small>	330; 375	3y		4-24x	27-5	50	12-2.1 covered Y	85		0.1 mil	6 mil	MIL =	=MIL	FFP <sup>1</sup> No Thick Posts	D, N, Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	23.7 776g	14.7" 37c	Parallax is 10y. Locking Turrets
Hawke: Frontier 30 FFP • Mil Pro 20x Ret. <small>No. 18530</small>	799; 999	Life, R. 0.Own	Yes	4-20x	28-6	50	12-2.5 Y	77		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 3screws; Locking Turrets; Zero Stop
Hawke: Frontier 30 FFP • Mil Pro 25x Ret. <small>No. 18540</small>	849; 1049	Life, R. 0.Own	Yes	5-25x	22 <sup>5</sup> -4 <sup>5</sup>	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 3screws; Locking Turrets; Zero Stop
FFP Scopes – with Thick Outside Posts in the Reticle																				
Vector: Tourex <small>No. SCFF-19</small>	?; 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	Zero stop turrets
Monstrum: • G3 Ret. <small>No. G3F62450</small> • GH Ret. <small>No. FFPS62450-H</small>	•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	19-4	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. <small>No. 08-625</small> • TR-MOA Ret. <small>No. 08-624</small>	?; 300			6-24x	17-4	50	8-2.1 Y	60		0.1mil 1/4mo	??mil 12moa	MIL = 1/2moa	=MIL	FFP <sup>20</sup> Thick O/S Posts	D		30	28.5 808g		Parallax is 10y. T. Turn Counter
Discovery: VT-3: 6-24x50 SFAI FFP <small>No. 170602</small>	?; 290	3y		6-24x	19-5	50	? N O	50		1/8 moa	7.5 moa	MOA =	=MOA	FFP Thick O/S Posts	D, N, Person's Ranging	?	30	26.7 758g	14.7" 37c	Angle Indicator Locking Turrets
Discovery: VT-T: 6-24x50 SFVF FFP <small>No. 170503</small>	207; 350	3y		6-24x	19-5	50	? N O	60		0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	26.1 740g	14.7" 37c	w/Phone Adaptor Locking Turrets
Discovery: HI: 6-24x50 SFIR FFP <small>No. ???</small>	?; 259	Life✓	?	6-24x	???-?	50	? Y	??		0.1 mil	6 mil	MIL =	=MIL	FFPSemi Thick Posts	D, N, Grid	?	30	23.8? 675g? Really?	14.1" 36c	Mech. Range Finder, Angle Indicator 4 screws to re-zero
Sightron: S-TAC: [FFP] • Ret. MIL <small>No. S-TAC4-20x50FFP25IRMH</small>	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	Zero Stop T Turn Counter
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



				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions						
*in 2019, some 2020, 2021	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, Grid	Line thickness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series Part No.																				
Swampfox (US): Warhawk • Sharpsh. Grid Ret. MIL No. TWK42050-3L • Sharpsh. Grid Ret. MOA No. TWK42050-3M	??; 659	Life (50000 rounds)		4-20x	32-7	50	13-2.4	Y	90	0.1mi	10 mi	MIL =	=MIL	FFP <sup>34</sup> Semi Thick Posts	D, N, Grid	?	34	32.8 930g	15.0 38c	Locking Turrets
Athlon: Helos BTR Gen. 2 • APRS6 MIL Ret. No. 214109  • APLR6 MOA Ret. No. 214108	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	.05 <sup>mi</sup> .17 <sup>mo</sup> .05 <sup>mi</sup> .17 <sup>mo</sup>	30	27.6 782g	13.3" 34c	Zero Stop T Turn Counter
Nikko: Diamond FFP 30 • PRR Ret. No. NSFFP62450PRR • Skeleton HMD Reticle No. NSFFP62450HMD	300; ?	Life, O.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, —	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	24.0 680g	14.2" 36c	Locking Turrets
Nikko: Diamond FFP 34 • PRR Ret. No. NSFFP3441644PRR • Skeleton HMD Ret. No. NSFFP3462450PRR	430; ?	Life, O.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, —	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	26.5 750g	14.2" 36c	Locking Turrets
Optisan: EVX, Gen. 2: 6-24x50 F1 •w/ IR No. 37583   •w/o IR No. 37534	?; 560	Life		6-24x	19-6	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
Vector: Counterpunch: No. SCFF-03A Discontinued	?; 249	5y, Rec.		6-25x	19-6	56	9-2.4	Y	70	¼ moa	6 mil	MOA =	=MOA	FFP ??	too small	?	30	32.3 917g	15.6" 40c	
Vector: Counterpunch: No. SCFF-03C Discontinued	?; 249	5y, Rec.		6-25x	19-5	56	9-2.4	Y	70	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>15</sup> Thick O/S Posts	D	?	30	32.4 917g	15.5" 40c	
Riton (US): X3 Conquer No. 019962527661	442; 650	Life, NoRec		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	.045 <sup>mi</sup> .15 <sup>mo</sup>	30	27.1 768g	14.1" 36c	Zero Stop
Riton (US): Mod. 5 [not X5!]: Gen. 2: IR FFP No. 049962523960 Discontinued	420; 570	Life, NoRec		6-24x	17-4	50	8-2.1	Y	70	¼ moa	15 moa	MOA =	=MOA	FFP Thick O/S Posts	D	?	30	30.0 850g	14.0" 35c	Locking turrets
Swampfox (US): Patriot • Sharpsh. Grid Ret. MIL No. PAT62450-L • Sharpsh. Grid Ret. MOA No. PAT62450-M	300; 429	Life (50000 rounds)		6-24x	18-4	50	8-2.1	N O	65	0.1mi	6 mi	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	30	24.0 680g	14.5 37c	
Blackhound (US): Genesis 6-24x50 FFP •MIL •MOA	?; 400	Life, Anyb.	?	6-24x	16-4	50	?	Y	70	0.1mi	5 mil	MIL =	=MIL	FFP <sup>9</sup> Thick O/S Posts	D, N	?	30	27.5 780g	14.1" 36c	Zero Stop T Turn Counter
Athlon: Argos BTR Gen 1 • MIL Ret. No. 214061 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	5 mil	MIL =	=MIL	FFP <sup>13</sup> Thick O/S Posts	D, N, Grid	.02 <sup>mi</sup> .07 <sup>mo</sup> .04 <sup>mi</sup> .14 <sup>mo</sup>	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	17-4	50	8-2.1	Y	60 (a user reported 70)	0.1mi	6 mil	MIL =	=MIL	FFP <sup>31</sup> Thick O/S Posts	D, N, Grid	.02 <sup>mi</sup> .07 <sup>mo</sup> .04 <sup>mi</sup> .14 <sup>mo</sup>	30	30.3 859g	14.1" 36c	True Zero Stop T Turn Counter
Vortex: Diamondback Tactical •MIL Ret. No. DBK-10029 •MOA Ret. No. DBK-10028	400, 300; 500	Life		6-24x	18-4	50	8-2.1 calculated	N O	65	0.1mi	6 mil	MIL =	=MIL	FFP <sup>8</sup> Thick O/S Posts	D, N, Grid	.03 <sup>mi</sup> .12 <sup>mo</sup>	30	24.6 697g	14.3" 36c	"Tracks" "small Eyebow"
Discovery: ED: 6-24x50 SFIR No. 171104	335; 383	Life (for ED)	?	6-24x	21-5	50	?	Y	70	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>7</sup> Thick O/S Posts	D, N, Grid	?	30	25.8 730g	14.1" 36c	Locking Turrets 4 screws to re-zero
Element: Helix FFP • MIL Ret. APR-2D MRAD • MOA Ret. APR-2D MOA	480; —	Life, NoRec.		6-24x	18-5	50	9-2.2	N O	65	0.1 mi	6 mil	MIL =	=MIL	FFP <sup>30</sup> Thick O/S Posts	D, N, Grid	?	30	26.0 737g	14.3" 36c	Tool-less Zero Reset; Zero 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 Thick O/S Posts	D, N, Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	29.8 845g	14.0" 36c	Locking Turrets

				Magni. → FoV → Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions							
*in 2019, some 2020, 2021	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, Grid	Line thickness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series Part No.																				
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	6 mil	MIL =	=MIL	FFP <sup>6</sup> Thick O/S Posts	D, N, Grid	.02 <sup>mi</sup> .07 <sup>mo</sup> .04 <sup>mi</sup> .14 <sup>mo</sup>	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	18-5	50	11-1.8	Y (50 Win-dage)	85	0.1mi	10 mil	MIL =	=MIL	FFP <sup>5</sup> Thick O/S Posts	D, N, Grid D, N, Grid D, N, Grid	.03 <sup>mi</sup> .10 <sup>mo</sup>  .036 <sup>mi</sup> .12 <sup>mo</sup>	30	26.3 746g	14.6" 37c	Zero Stop T Turn Counter Windage Capped
Alpen: Apex No. 4015	720; 980	Life, 60d		4.5-27x	22-4	50	10-1.9	Y	80	1/4 moa	25 moa	MOA =	=MOA	FFP Thick O/S Posts	D	?	30	heavy ???	16.9" 43c	
Shepherd (US): BRS •BRS-MIL Ret.  •BRS-MOA Ret.	749; 849	Life, 0Own		5-25x	22 <sup>5</sup> -4 <sup>5</sup>	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>5mo</sup>	34	37.9 1075g	15.4 39c	T Turn Counter Locking Turrets
Swampfox (US): Warhawk •Sharpsh. Grid Ret. MIL •Sharpsh. Grid Ret. MOA No. TWK52556-3L No. TWK52556-3M	569; 689	Life (50000 rounds)		5-25x	25 <sup>5</sup> -5	56	11-2.2	Y	90	0.1mi	10 mi	MIL =	=MIL	FFP <sup>34</sup> Semi Thick Posts	D, N, Grid	?	34	36.8 1043g	15.4 39c	Parallax 15y Locking Turrets
Swampfox (US): Kentucky Long •Sharpsh. Grid Ret. MIL •Sharpsh. Grid Ret. MOA No. KTK53056-4L No. KTK53056-4M	467; 599	Life (50000 rounds)		5-30x	20-4	56	9-1.7	Y	80	0.1mi	6 mi	MIL =	=MIL or	FFP <sup>22</sup> Semi Thick Posts	D, N, Grid	?	30	31.8 902g	15.5" 39c	Parallax 15y Locking Turrets
Athlon: Helos BTR Gen. 2 •MIL Ret. No. 214114  •MOA Ret. No. 214113	600; 750	Life, NoRec.		6-24x	20-5	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" 37c	Zero Stop T Turn Counter
Swampfox (US): Kentucky Long •Sharpsh. Grid Ret. MIL •Sharpsh. Grid Ret. MOA No. KTK42450-4L No. KTK42450-4M	459; 569	Life (50000 rounds)		4-24x	31-5	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 38c	Locking Turrets
Falcon (UK): S30 Gen. 1 (–2020) No. S3001	377, 423; –	10y, 0Own		5-30x	24-5	56	11-1.9 capped	N 0	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" 40c	T Turn Counter
Falcon (UK): S30 Gen. 2 (2020–)	?; –	10y, 0Own		5-30x	24-5	56	11-1.9 capped	N 0	90	0.1 mil	12 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	34	36.0 1020g	14.6" 37c	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" 37c	Locking Turrets 12mil/turn
Hawke: Frontier 34 FFP •MIL Ret. No. 18640 •MOA Ret. No. 18641	1260; 1400	Life, R. 0Own	Yes	5-30x	22 <sup>5</sup> -4	56	11-1.9	Y 53 Win-dage	100	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	5.4" 39c	Parallax 15y 3 screws; Locking Turrets; Zero Stop
Vortex: Strike Eagle •MIL Ret. No. SE-52504 •MOA Ret. No. SE-52503 Some fails: <a href="https://www.youtube.com/watch?v=u06iY4xpQs">https://www.youtube.com/watch?v=u06iY4xpQs</a>	700; 800	Life		5-25x	24-5	56	?	Y 78 Win-dage	110	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" 39c	Parallax 15y Zero Stop → then only 47moa elev. adj. Locking Turrets
Element: Titan •MIL Ret. APR-1C •MIL Ret. APR-1D •MOA Ret. EHR-1C •MOA Ret. EHR-2D	800; –	Life, NoRec.		5-25x	24-5	56	11-2.1	Y 50 Win-dage	90	0.1mi 0.1mi 1/4mo 1/4mo	10 mi 10 mi 25 mo 25 mo	MIL = ML = MOA = MOA =	=MIL =MIL =MOA =MOA	FFP <sup>29</sup> Thick O/S Posts	D, N, noGrid noGrid noGrid Grid	?	34	39.0 1105g	15.2" 39c	Parallax 15y Zero Stop → then only 68moa elev. adj. T Turn Counter; Locking Turrets
Vector: Continental 34mm No. SCFF-29	750; 800	Life, NoRec.		4-24x	31-5	56	8-2.3	Y	113	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>25</sup> Thick O/S Posts	D, N, Grid	?	34	27.5 780g	14.3" 36c	Zero Stop → then only 68moa elev. adj. Locking Turrets

				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions						
*in 2019, some 2020, 2021  Brand: Series      Part No.	Price*: Low; Mfctr.'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. (MOA)	1 Click =	1 T. Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? – SFP Calibration at ?	Enough Dots, No's, Grid	Line Thickness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Vector: Continental 34mm No. SCFF-30	750; 800	Life, NoRec.		5-30x	24 <sup>7</sup> -4	56	8-1.8	Y	86	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>26</sup> Thick O/S Posts	D, N, Grid	.04 <sup>mi</sup> .14 <sup>mo</sup>	34	28.6 810g	15.4" 39c	Zero Stop → then only 68moa max. Locking Turrets
Falcon (UK): S18i FFP → For comparison only <sup>2019</sup>	343, 380; –	10y, 0.Own	Yes	3-18x	39-7 → @ 10m = 1.4m	50	16-2.8 covered	Y	90 Mine travels 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" 37c	T Turn Counter
*in 2019, some 2020, 2021  Brand: Series      Part No.	Price*: Low ; Mfctr.'s US \$	War-ranty	Springer-Rated	Magni-fication	FoV = Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y, N	Max. Elev. (MOA)	1 Click =	1 Turn =	Turrets in:	Reticle in:	FFP Thick O/S Posts? – SFP Calibrated at ?	Enough Dots, No's, Grid	Line Thickness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
				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>)

## 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> Hawke: Frontier 30 FFP: 3-15x50, Mil Pro 15x Reticle [No. 18520]:

No video found so far, however, cf. footnote <sup>36</sup> for the same reticle in an FFP scope, however there the reticle has to cover a 5-fold magnification range and thus will be much smaller at the bottom end of the magnification, and much larger at the top end than the present 3-15x scope that only has a 3-fold magnification range.

<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>