

# Scope Specs Table

**For e.g.: 6-20x | 5-24x | 4-20x**

**Bottom Magni. = 6x or lower**

**Top Magni. = 20x or higher**

**with 10y-Side Parallax**

**Exposed Turrets**

**Holdoff Reticle**

**Under \$500**

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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

Side Parallax Adjustment

Turrets = Exposed

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

Price = between \$200 and \$500

## **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.

**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

*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

*Price \$ Low* = lowest prices in US dollars I found in 2019 (some 2020) [additional price separated by a *comma* , – and separated by a *semicolon* ; from the manufacturer's price]

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

*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

*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 target shooting*. The color coding is based on my very personal, unabashedly subjective estimation that *for my kind of hurried close range shooting* I'd like to have a FoV of at least 3ft at 10y (which translates to 30ft @100y in the scope specs, 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 significant differences in FoV between scopes with the same magnification range.

**42ft or more** | **41-36ft** | 35-30ft | **29-23ft** | **22-17ft** | **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 simultaneous elevation *and* windage holdoffs

**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

				Magni. → FoV		→ Eye Box			Exposed Turrets				Holdoff Reticle				Dimensions			
*in 2019	Price* \$ Low; Mfctr.'s	War- ranty	Sprin- ger- 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:	Thick O/S Posts? FPP — SFP Calibration at ?	Enough Dots, No's	Line thick- ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series	Part No.			SFP Scopes												at max.				
UTG: True Hunter → For Comparison only! <small>No. SCP-UG6245A0IEW</small>	100; ?	Life		6-24x	14-4	50	9- 2.3	Y	?? 55 estim.	1/4 inch	15 smoa	SMOA ≠	≠MIL	SFP 10x	D*		1"	26.0 750g		*It should state "glass etched reticle"!
UTG: Accushot <small>No. SCP3-UG6245A0IEW</small>	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		
Discovery: HD/30mm SFP 5-25x50 <small>No. 170103</small>	207; ?	3y		5-25x	24-5	50	10- 2.0 capped	Y	68	0.1 mil	6 mil	MIL =	=MIL	SFP 10x	D, N	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	27.8 785g	13.2" 34c	Locking Turrets
Nikko: Diamond Long Range w/ HMD reticle(!) <small>No. NDSIG2450LRHMD</small>	250; ?	Life, 0.Own		6-24x	21-5	50		Y	40	1/4 moa		MOA ≠	≠MIL	SFP	D		30	27.8 788g	15.4" 39c	
Vector: Atlas <small>No. SCOL-04</small>	399; ?	5y, Rec.		5-30x	25-4	56	11- 1.9	Y	80	1/8 moa	15 moa	MOA ≠	≠MIL	SFP	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	50		Y	42	1/4 moa	10 moa	MOA ≠	≠MIL	SFP	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	50		Y	42	1/4 moa	30 moa	MOA ≠	≠MIL Custom	SFP	D	?	30	30.7 869g	16.4" 42c	Customizbl. Turrets   Magnifier Cap
Nikko: C-More X10 Discont. <small>No. NSCM22044</small>	410; ?	Life, 0.Own		2-20x	47-5	44	22- 2.2 capped	Y	60	1/4 moa		MOA ≠	≠MIL	SFP	D	?	30	25.7 730g	13.3" 34c	
Nikko: C-More X10 Discont. <small>No. NSCM33056</small>	507; ?	Life, 0.Own		3-30x	31-3	56		Y	50	1/8 moa		MOA ≠	≠MIL	SFP	D	?	30	34.2 970g	15.3" 39c	
Bushnell: Engage <small>No. REN62450DG</small>	450; 540	Life, NoRec.		6-24x	18-4	50	? N O	50	50	1/8 moa	8 moa	MIL ≠	≠MOA	SFP	D	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	23.7 672g	14.2" 36c	
Hawke: Sidewinder 30 SF <small>No. 17220 [not 17221]</small>	439; 600	Life, R. 0.Own		6-24x	15-4	56	9- 2.0	Y	62	1/4 moa	15 moa	MOA ≠	≠MIL	SFP	D	?	30	29.8 844g	15.9" 40c	
Hawke: Airmax 30 SF <small>No. 13320</small>	408; 480	Life, R. 0.Own		6-24x	17-4	50	8- 2.0	Y	65	1/4 moa	15 moa	MOA ≠	≠MIL	SFP w/ odd spacing	D	?	30	26.7 757g	15.6" 40c	"small Eyebow"
Aztec: Emerald SFP [not FFP!]	440; —	Life		55-25x	19-4	50	? N O	c. 40?	1/4 moa	15 moa		MOA =	=MOA	SFP 18"x	D, N	?	30	25.4 720	14.4 37c	
Hawke: Airmax 30 SF Compact <small>No. 13320</small>	?; 400	Life, R. 0.Own		6-24x	22-5	50		Y	53	0.1 mil	?	MIL =	=MIL	SFP 10x	D	?	30	23.6 670g	13.0" 33c	Capped Turrets! BUT Clickable Turn Counter
Optisan: EVX Gen. 2: 5-20X50i <small>No. 37526</small>	430; 440	Life		5-20x	23-6	50	10- 2.5	Y	50	0.1 mil	4.5 mil	MIL =	=MIL	SFP	D, (N)	.05 <sup>mi</sup> .18 <sup>mo</sup>	30	27.0 765g	14.4" 37c	
Sightron: S-TAC: [SFP, MOA] <small>No. 793139-260154</small>	450; ?	Life		4-20x	24-4	50	? N O	80 (40 wind age)	1/4 moa	15 moa		MOA =	=MOA	SFP	D	.03 <sup>mi</sup> .1 <sup>mo</sup>	30	23.8 675g	14.8" 38c	Capped Turrets! BUT Clickable Turn Counter
Vector: Paragon Gen. 2 <small>No. SCOL-26</small>	360; ?	Life, NoRec.		5-25x	23-5	56	8- 2.2	Y	60	0.1 mil	8 mil	MIL =	=MIL	SFP	D, N <sup>Elev</sup> , Grid		30	23.6 670g	14.4" 37c	Parallax 15y Locking Turrets
Vector: Continental 30mm Tactical <small>No. SCOL-33T</small>	?; 499	Life, NoRec.		4-24x	31-5	50	9- 2.1	Y	67	0.1 mil	8 mil	MIL =	=MIL	SFP	D, N Grid		30	23.6 670g	14.6" 37c	Parallax 15y Locking Turrets
Hawke: Frontier SF, Ret. MIL PRO <small>No. 18130</small>	?; 629	Life, R. 0.Own		4-20x	28-6	44	11- 2.2	Y	63	0.1 mil		MIL =	=MIL	SFP 20x	D, N <sup>Elev</sup> , Grid	?	1"	?20.6 ?584g	?13.2" ?34c	Parallax 15y Weight Length Error?
Hawke: Frontier SF, Ret. MIL PRO <small>No. 18140</small>	?; 699	Life, R. 0.Own		5-25x	24-5	50	10- 2.0	Y	50	0.1 mil		MIL =	=MIL	SFP 20x	D, N <sup>Elev</sup> , Grid	?	1"	22.2 628g	14.4 37c	Parallax 15y

				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions						
*in 2019	Price* \$: Low; Mfctr.'s	War- ranty	Spring- ger- 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	Line thick- ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
FFP Scopes																				
Monstrum: Reticles G1, G2, G3, GH	150-250	1y, Rec, 0.Own		6-24x	19-5	50		Y	75? ?	¼ moa	15 moa	MOA =	=MOA	FFP	D	?	30	30.0 851g		Parallax is 10y
Vector: Tourex No. SCFF-19	?; 280	5y, Rec.		6-24x	18-5	50	8-2.1	Y	50	¼ 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
Vector: Marksman 6-24x50 (not the 6-25x50, SCFF-11) No. SCFF-26	?; 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 but not so great	?	30	24.7 700g	14.2" 36c	Locking turrets
MTC: King Cobra F1 No. —	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: Airmax 30 FFP SF   No. 13352	?; 589	Life, R, 0.Own	Yes!!	6-24x	21-5	50	8-2.1	Y	57	0.1 mil		MIL =	=MIL	FFP w/ odd spacing No Thick Posts	D	?	30	27.0 765g	14.9" 38c	Capped Turrets! BUT Clickable
Aztec: Emerald FFP [not SFP!]	540; —	Life	Yes!!	5.5-25x	19-4	50	?	Y	c. 40?	¼ moa	15 moa	MOA =	=MOA	FFP <sup>19</sup> Thick O/S Posts	D, N small Grid	?	30	25.4 720g	14.4" 37c	"Low DoF"
ACME Machine	?; 300			6-24x		50	8-2.1	Y	60	0.1 mil or ¼ moa	?? mil or 12 moa	MIL = or MOA =	=MIL or =MOA	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 No. 170602	?; 290	3y		6-24x	19-5	50	?	N O	50	⅙ moa	7.5 moa	MOA =	=MOA	FFP Thick O/S Posts	D, N, Person Ranging	?	30	26.7 758g	14.7" 37c	Angle Indicator Locking Turrets
Discovery: VT-T: 6-24x50 SFVF FFP No. 170503	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 No. ???	?; 259	Life✓	?	6-24x	???-?	50	?	Y	??	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D, N, Grid	?	30	23.8? 675g? Really?	14.1" 36c	Mech. Range Finder, Angle Indicator 4 screws to re-zero
Discovery: HD: 4-20x50 SFIR No. 170105	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
Sightron: S-TAC: [FFP, MIL] No. 793139-260161	660; —	Life	?	4-20x	22-4	50	?	Y	80 (40 wind age)	0.1 mil	6 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	T Turn Counter Zero Stop
Hi-Lux (US): PentaLux TAC-VF 4-20x50 FFP G2	?; 575	Life, Rec.	No	4-20x	28-6	50	12-2.5	Y	80	0.1 mil	12 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	27.9 791g	14.7" 37c	
Nikko: Diamond FFP 30 •w/ PRR reticle No. NSFFP62450PRR •w/ Skeleton HMD reticle No. NSFFP62450HMD	300; ?	Life, 0.Own		6-24x	19-5	50		Y	50	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N D, —	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	24.0 680g	14.2" 36c	Locking Turrets
Nikko: Diamond FFP 34 •w/ PRR Ret. No. NSFFP3441644PRR •w/ Skeleton HMD Ret. No. NSFFP3462450PRR	430; ?	Life, 0.Own		6-24x	21-5	50		Y	80	0.1 mil	6 mil	MIL =	=MIL	FFP O/S Posts: •Thick •Medium	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 or 5 mil	MIL =	=MIL	FFP <sup>21</sup> Med. 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	
Vector: Taurus No. SCFF-14	?; 449	Life, NoRec.		5-30x	20-3	56	11-1.8	Y	40	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>14</sup> No Thick Posts	D, N	?	30	28.7 813g	15.6" 40c	Parallax 17y (20y stated)
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. 019962523960	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

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*in 2019	Price* \$ Low; Mfctr.'s	War- ranty	Spring- ger- 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	Line thick- ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Blackhound (US): 6-24x50 FFP	?; 400	Life, Anyb.	?	6-24x	16-4	50	?	Y	70	0.1mi or 1/4mo	5 mil or 15mo	MIL = or MOA =	=MIL or =MOA	FFP <sup>9</sup> Thick O/S Posts	D, N	?	30	27.5 780g	14.1" 36c	T Turn Counter
Athlon: Argos BTR •w/ MIL Ret. No. 214061  •w/ MOA Ret. No. 214060	297; 445	Life, NoRec.		6-24x	17-4	50	8- 2.1	Y	60 (a user reported d 70)	0.1mi or 1/4mo	5 mil or 12mo	MIL = or MOA =	=MIL or =MOA	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"
Vortex: Diamondback Tactical •w/ MIL Ret. No. DBK-10029 •w/ MOA Ret. No. DBK-10028	400, 300; 500	Life		6-24x	18-4	50	8- 2.1 calcu- lated	N	65	0.1mi or 1/4mo	6 mil or 15mo	MIL = or MOA =	=MIL or =MOA	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	"Repeatable Clicks" "small Eyebow"
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.
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
Hawke: Vantage 30 WA FFP No. 14304	?; 589	Life, R. O.Own		6-24x	21-5	50	8- 2.1	Y	60	0.1 mil		MIL =	=MIL	FFP No Thick Posts	D	?	30	26.6 755g	14.9" 38c	
Hawke: Sidewinder 30 SF FFP No. 17420	500, 460 <sup>mb.</sup> , 600	Life, R. O.Own		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	
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
Athlon: Helos BTR •w/ MIL Ret. No. 214107  •w/ MOA Ret. No. 214106	459, 570; 712	Life, NoRec.		6-24x	17-5	50	8- 2.1	Y	60	0.1mi or 1/4mo	6 mil or 15mo	MIL = or MOA =	=MIL or =MOA	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 •w/MILAPRS2Ret. No.213075  •w/MILAPRS3Ret. No.213077  •w/ MOA APLR4 Ret. No. 213076	630 756   670 837   670 837	Life, NoRec.		6-24x	18-5	50	11- 1.8	Y	85 (50 Win dage)	0.1mi or 1/4mo	10 mil or 25 moa	MIL = or MOA =	=MIL or =MOA	FFP <sup>5</sup> Thick O/S Posts	D, N  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	T. Turn Counter Zero Stop Windage Capped
Discovery: HD: 5-25x50 SFIR DLTW FFP No. 170110	?; 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 No. 170114	?; 392	3y		5-30x	23-3	56	11- 1.9	Y	70 (or 5 0?)	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
Swampfox (US): Kentucky Long	467; 599	Life (50000 rounds)		5-30x	20-4	56	9- 1.7	Y	80	0.1mi 1/4mo	6 mi 15mo	MIL=or MOA=	=MILor =MOA	FFP <sup>22</sup> Thick O/S Posts	D, N, Grid	?	30	31.8 902g	15.5" 39c	Parallax 15y Locking Turrets
Hi-Lux (US): Phenom 5-30x56 FFP	507; 599	Life, Rec.	No	5-30x	22-4	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
Vector: Taurus No. SCFF-17	?; 430	Life, NoRec.		4-24x	27-4	50	12- 2.1	Y	50	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>23</sup> Med. 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 No. 170109	330; 375	3y		4-24x	27-5	50	12- 2.1 capped	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
Swampfox (US): Kentucky Long	458; 569	Life (50000 rounds)		4-24x	31-5	50	11- 2.0	Y	90	0.1mi 1/4mo	6 mi 15mo	MIL=or MOA=	=MILor =MOA	FFP Thick O/S Posts	D, N, Grid	?	30	28.2 800g	15.1 38c	Locking Turrets
Vector: Continental 34mm No. SCFF-29	?; 850	Life, NoRec.		4-24x	31-5	56	8- 2.3	Y	113	0.1 mil	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	34	27.5 780g	14.3" 36c	Zero Stop Locking Turrets
Falcon (UK): S30 No. S3001 *S/H incl. from Cyprus	377*, 423; —	10y, O.Own		5-30x	24-5	56	11- 1.9 capped	N	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



				Magni. → FoV		→ Eye Box			Exposed Turrets				Holdoff Reticle				Dimensions			
*in 2019	Price* \$: Low; Mfctr.'s	War- ranty	Spring- ger- 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	Line thick- ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Vector: Continental 34mm No. SCFF-30	?; 900	Life, NoRec.		5-30x	25-4	56	8- 1.8	Y	86	0.1 mil	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	34	28.6 810g	15.4" 39c	Zero Stop Locking Turrets
Vortex: Strike Eagle •w/ MIL Ret. No. SE-52504 •w/ MOA Ret. No. SE-52503	700; 800	Life		5-25x	24-5	56	?	Y	110 78 Win dage	0.1mi 1/4mo	10 mi 25mo	MIL = or MOA =	=MIL or =MOA	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 Locking Turrets
Falcon (UK): S18i FFP → For comparison only <sup>2019</sup>	343, 380; —	10y, 0.0wn	Yes (?)	3-18x	39-7 → @ 10m = 1.4m	50	16- 2.8 canted	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	Price* \$: Low ; Mfctr.'s	War- ranty	Spring- ger- Rated	Magni- fication	FoV =Fi eld 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 Calibrated at ?	Enough Dots, No's	Line Thick- ness	1" or 30mm	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle										

## Footnotes: Links for Views/ 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>

<sup>3</sup> Discovery: HD/34mm: 5-30x56 FFP: *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=SJZNGsz0E4>

*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 [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: 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/prduct/argos-btr-gen2-6-24x50-atmr-ffp-ir-moa-copy/>

- <sup>14</sup> Vector: Taurus: 5-30x56 FFP: Reticle at all magnifications: <https://www.youtube.com/watch?v=pQ82hBoSwdw>
- <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-HN8uUfo>
- <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=8GwntsJAUtU>
- <sup>20</sup> ACME Machine: 6-24x50 FFP: Reticle at 6x, 14x, and 24x magnifications: @ 1:55min:  
<https://www.youtube.com/watch?v=LCI2SM7G2t0>
- <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 are:  
<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)