

# Scope Specs Table

**for e.g.: 4-14x | 3-18x | 4-20x**

**Bottom Magni. = 4x or lower**

**Top Magni. = 14x 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 end magnification = 4x or lower

Top end magnification = 14x 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 (a very few a bit higher, esp. for full retail price)

## **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 | **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 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- Ratd	Magni- fication	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	Line Thick- ness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series	Part No.			SFP Scopes											at max.					
UTG: Accushot T8 Tactical • Ret. MOA <small>No. SCP3-216UMOA</small>	178; 250	Life	Yes!!	2-16x	44-6	44	22- 2.7	Y	??	1/4 inch	18 inch	SMOA≈	=MOA	SFP 10x	D, N	?	30	22.6 641g	12.4" 32c	Locking Turrets
UTG: Accushot OP3 • Ret. MOA <small>No. OP3-GM4164UMOA</small>	?; 210	Life	Yes!!	4-14x	26-8	44	11- 3.0	Y	??	1/4 moa	24 moa	MOA=	=MOA	SFP 10x	D, N	?	30	21.5 610g	10.7" 27c	Locking Turrets
UTG: Accushot Premium: Bubble Leveler • Ret. MOA <small>No. SCP3-UG4165AOIEWB</small>	?; 210	Life	Yes!!	4-16x	24-7	56	14- 3.5	Y	??	1/8 moa	16? moa	MOA≠	≠MIL	SFP 10x	D	?	30	31.7 899g	16.0" 41c	T Turn Counter Bubble Level Locking Turrets
Nikko: Diamond Long Range • Ret. HMD! <small>No. NDSM1650LRHMD</small>	240; ?	Life, O.Own	?	4-16x	32-8	50	?	Y	60	1/4 moa		MOA≠	≠MIL	SFP x?	D	?	30	27.7 784	13.7" 35c	Locking Turrets
Discovery: VT-3 4-16x44 SF SFP	150; 172	3y	Yes	4-16x	35-9	44		NO	65	0.1 mil	6 mil	MIL =	=MIL	SFP 10x	D, N	?	30	19.4 550g	10.6" 27c	Locking Turrets
Discovery: HD 3-15x50 SFIR SFP	198; 255	3y	?	3-15x	40-8	50		Y	65	0.1 mil	6 mil	MIL =	=MIL	SFP 10x	D, N	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	27.8 788g	13.5" 34c	Locking Turrets
MTC: Viper Pro	640; —	Life <sup>30d</sup> R. O.Own	Yes (?)	3-18x	42-7?	50	?	Y	73	1/4 moa	42 moa	MOA≠	≠MIL	SFP x?	D	?	30	30.4 862g	14.8" 38c	Customzbl Turrets "low quality glass" Magnifier Cap
MTC: Viper Pro Tactical	590; —	Life <sup>30d</sup> R. O.Own	Yes (?)	3-18x	42-7?	50	?	Y	73	1/4 moa	14 moa	MOA≠	≠MIL	SFP x?	D	?	30	25.6 725g	14.8" 38c	not customizable, "low quality glass"
Hawke: Airmax 30 SF • Ret. AMR IR <small>No. T3 310</small>	400; ?	Life, R. O.Own	Yes!!	4-16x	23-6	50	13- 3.0	Y, N	85	1/4 moa	?	MOA≠	≠MIL	SFP x?	D	?	30	27.5 780g	14.1" 36c	
Riton (US): MOD5 Gen. 2 Wide FoV <small>No. 019962523861</small>	420; 520	Life, NoRec	?	4-16x	29-8	50	12- 3.1	Y	80	1/4 moa	15 moa	MOA=	=MOA	SFP 16x	D		30	23.0 652g	12.0" 30c	Capped Turrets! BUT Clickable
Sightron: S-TAC <small>No. 793139-260130</small>	300; 390	Life	Yes!!	3-16x	32-6	42	?	NO	70	1/4 moa	15 moa	MOA=	=MOA	SFP 16x	D	.02 <sup>mi</sup> .08 <sup>mo</sup>	30	23.5 666g	12.9" 33c	Capped Turrets! BUT Clickable T Turn Counter
Bushnell: Engage	325; ?	Life, NoRec.		4-16x	28-7	44	?	NO	50	1/4 moa	15 moa	MOA=	=MOA	SFP x?	D		30	20.1 570g	14.0" 36c	
Aztec: Emerald	400; ?	Life	Yes!!	3-18x	19-4? = Error in the Catalog	50	?	NO	???	1/4 moa	15 moa	MOA=	=MOA	SFP 18x	D	?	30	24.3 690g	13.3" 34c	
Optisan: EVX 4-16X44i • Ret. MIL-MH10X	391; 440	Life	?	4-16x	27-7	44	?	Y	50	0.1 mil	4.8! mil	MIL =	=MIL	SPF 10x	D, (N)		30	25.6 726g	14.3" 36c	T Revolution uneven 4.8 mil!
Hawke: Airmax 30 Compact <small>No. T3 210</small>	339; 380	Life, R. O.Own	Yes! !	4-16x	33-8	44	?	Y	67	0.1 mil	5? mil	MIL =	=MIL	SFP 10x	D	?	30	21.9 621g	11.7" 30c	Capped Turrets! BUT Clickable T Turn Counter
Sightron: S-TAC: [SFP] • Ret. MOA <small>No. 793139-260154</small>	450; ?	Life	?	4-20x	24-4	50	?	NO	80 (40 wind age)	1/4 moa	15 moa	MOA=	=MOA	SFP x?	D	.5- .1 <sup>mo</sup>	30	23.8 675g	14.8" 38c	Capped Turrets! BUT Clickable T Turn Counter
Vector: Paragon Gen. 2 <small>No. SCOM-25 SCOM-11 → NO!</small> ≠ Gen. 1 <small>No.</small>	?; 360	5y, Rec.	?	3-15x	37-8	50	8- 3.3	Y	85	0.1 mil	8 mil	MIL =	=MIL	SFP x?	D, N	?	30	22.0 625g	12.2" 34c	
Vector: Continental 30mm Tactical <small>No. SCOL-21T</small>	?; 460	Life, NoRec.	?	3-18x	41-7	50	9- 2.8	Y	70	0.1 mil	8 mil	MIL =	=MIL	SFP 10x	D, N <sup>Elev.</sup> , Grid	?	30	23.8 675g	15.2" 39c	
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 x?	D, N, Grid	?	30	23.6 670g	14.6" 37c	Parallax 15y
Hawke: Frontier SF • Ret. MIL PRO <small>No. T8 120</small>	?; 609	Life, R. O.Own	Yes!!	3-15x	38-7	44	12- 2.5 Error on Web	Y	70	0.1 mil		MIL =	=MIL	SFP 10x	D, N <sup>Elev.</sup> , Grid	?	1"	20.6 584g	13.2" 34c	

*in 2019	Price* \$ Low; Mfctr.'s	War- ranty	Sprin- ger- Rate	Magni- fication	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	Line Thick- ness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
FFP Scopes – without Thick Outside Posts in the Reticle																				
Discovery: HI: 4-14x44SF SRF FFP No. 170209	?; 248	3y	?	4-14x	26-8	44	?	NO	53	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D, N, Grid	?	30	26.1 742g	13.9" 35c	Mech. Range Finder, Angle Indicator
Discovery: FFP: 4-14x44 SFRLIR-HK No. 170302	185; 210, 285	3y	?	4-14x	27-8	44	?	Y	87	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D, a bit weird?	?	30	24.4 693g	13.3" 34c	
Vector: Veyron FFP No. SCFF-22	198; 259	5y	Yes	4-16x	26-6	44	11- 2.7	NO	60	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>17</sup> No Thick Posts	D	?	30	20.0 570g	10.6" 27c	Locking Turrets Eye Relief: 9.0-8.5cm
Sun Optics: FFP Variable Series No. CS41-41444	313; 563	1y	?	4-14x	27-8	44	11- 3.2	NO	???	0.1 mil	???	MIL =	=MIL	FFP No Thick Posts	D, N		30	24.0 680g	14" 36c	Turrets a bit ugly!
Discovery: HI: 4-14x44 SF FFP No. 170209	?; 248, 330	3y	?	4-14x	26-8	44	?	NO	53	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D, N, Grid	?	30	26.5 750g	13.0" 33c	Angle Indicator!   Turret to calcu- late Range!
MTC: Cobra F1	427; —	Life Rec. O.Own 30d	?	4-16x	27-7	50	?	Y	47	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D	?	30	29.4 834g	13.5" 34c	Parallax 15y Locking Turrets Magnifier in Cap
Discovery: HD: 3-15x50 SFIR FFP	?; 319	3y	?	3-15x	40-8	50	?	Y	60	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D, N, mini Grid	?	30	27.8 788g	13.5" 34c	Locking Turrets
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>9</sup> No Thick Posts	D, N, mini Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	28.1 795g	13.4" 34c	Locking Turrets
Vector: Taurus No. SCFF-11	360; 400	Life, NoRec.	?	3-18x	33-6	50	16- 2.7	Y	60	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>1</sup> No Thick Posts	D, N	?	30	26.5 750g	13.2" 34c	Parallax says 15y, but is 10y
Discovery: HD/34mm: 3-18x50 SFIR No. 170108	312; ?	3y	?	3-18x	37-6	50	?	Y	82	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>16</sup> No Thick Posts	D, N, Grid	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	26.5 748g	13.3" 34c	Parallax is 10y. Locking Turrets
Hawke: Sidewinder SF FFP No. 17 410	480; 579	Life, R. O.Own	Yes	4-16x	23-6	50	13- 3.0	Y	83	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>5</sup> No Thick Posts	D	?	30	28.7 810g	14.4" 37c	
Hawke: Airmax 30 FFP SF   No. 13 350	?; 569	Life, R. O.Own	Yes!!	4-16x	32-8	50	12- 3.1	Y	70	0.1 mil		MIL =	=MIL	FFP w/ odd spacing No Thick Posts	D	?	30	26.6 755g	13.7" 35c	Capped Turrets! BUT Clickable
Hawke: Vantage 30 WA FFP No. 14 300	? ; 469	Life, R. O.Own		4-16x	33-8	50	12- 3.1	Y	86	0.1 mil	6 mil	MIL =	=MIL	FFP No Thick Posts	D	?	30	26.3 745g	13.7" 35c	
Vector: Taurus No. SCFF-17	300; 430	Life, NoRec.	?	4-24x	27-4	50	12- 2.1	Y	50	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>15</sup> No Thick Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	27.1 770g	15.0" 38c	Parallax says 15y, but is 10y. Locking turrets 2 extra elev. turrets
Discovery: HD/34mm 4-24x50 SFIR No. 170109	330; 350	3y	?	4-24x	27-5	50	12- 2.1 <sup>calc.</sup>	Y	85	0.1 mil	6 mil	MIL =	=MIL	FFP 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
FFP Scopes – with Thick Outside Posts in the Reticle																				
Monstrum: FFP-G2 No. G2-BFFPS41650-M	?; 170	1y, R. O.Own	?	4-14x	?	44	?	Y	???	¼ moa	15 moa	MOA ≠	≠MIL	FFP Thick O/S Posts	D		30	29.0 822g	14.5" 37c	
Monstrum: FFP-G3 No. G3-F41444	?; 240	1y, R. O.Own	?	4-14x	?	44	?	Y	???	¼ moa	15 moa	MOA =	=MOA	FFP <sup>20</sup> Thick O/S Posts	D		30	26.0 737g	14.0" 36c	
Monstrum: FFP-G1 No. FFP541444-M	?; 195	1y, R. O.Own	?	4-14x	?	44	?	Y	???	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>10</sup> Thick O/S Posts	D, N		30	26.0 737g	13.0" 33c	T Turn Counter
Discovery: FFP: 4-14x44 SFRLIR-DC No. 170301	?; 210, 280	3y	?	4-14x	27-8	44	?	Y	87	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	Weird!	?	30	24.4 693g	13.3" 34c	
Discovery: VT-3: 4-16x50 FFP No. 170601  Contradictory Webpages!	210; 260	3y	?	4-16x	25-6	50	?	NO	60	¼? moa ⅛? moa	15? moa 7.5? moa	MOA =	=MOA	FFP <sup>21</sup> Thick O/S Posts	D	?	30	26.1 742g	13.9" 35c	Angle Indicator
Discovery: VT-T: 4.5-18x44 SFVF FFP No. ???	?; 230, 310	3y	?	4.5- 18x	25-7	44	?	NO	60	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	26.5 750g	14.2" 36c	W/ Scope Phone Adaptor

				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions						
*in 2019	Price* \$ Low; Mfctr.'s	Warranty	Spring- Rated	Magnification	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	Line Thick- ness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Discovery: VT-T: 4-16x50 SFVF FFP No. 170501	260; 350	3y	?	4-16x	25-6	50	?	NO	60	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	26.1 740g	14.8" 38c	W/ Scope Phone Adaptor
Discovery: VT-T: 3-18x50 SFVF No. 170504	240;	3y	?	3-18x	40-7	50	?	NO	60	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	26.2 740g	14.8" 38c	W/ Scope Phone Adaptor
Discovery: VT-3: 4-16x44 SF No. 170611	193; 280	3y	?	4-16x	26-7	44	10- 2.8	NO	65	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D	?	30	19.4 550g	10.6" 27c	Locking Turrets
Nikko: Diamond FFP 30 •w/ PRR Reticle No. NSFFP41644PRR •w/ Skeleton HMD Reticle No. NSFFP41644HMD	275; ?	Life, 0.Own	?	4-16x	27-7	44		Y	60	0.1 mil		MIL =	=MIL	FFP <sup>18</sup> O/S Posts: •Thick •Not Thick	D, N D, -	.05 <sup>mi</sup> .17 <sup>mo</sup>	30	21.9 620g	13.4" 34c	Locking Turrets
Primary Arms (US): Silver Series SLx: •w/ R-Grid 2B Ret. No. 610090 •w/ MIL-DOT Ret. No. 610091 •w/ ARC-2-MOA Ret. No. 610089	280 Mfc 230 Mfc 250 Mfc	3y	?	4-14x	27-8	44	11- 3.3	Y	60	0.1mi 0.1mi 1/4mo	6 mil 6 mil 12mo	MIL = MIL = MOA =	=MIL =MIL =MOA	FFP <sup>4</sup> O/S Posts: •Not Thick •Thick •Thick	D, N, Grid. D. D, (N)		30	25.2 714g	13.0" 33c	T Turn Counter
Blackhound (US): 4-14x44 FFP	?; 300	Life, Anyb.	?	4-14x	27-8	44	?	Y	70	0.1mi 1/4mo	5 mil 15mo	MIL = MOA =	=MIL =MOA	FFP <sup>2</sup> Thick O/S Posts	D, N		30	25.6 726g	13.0" 33c	T Turn Counter
Discovery: ED: 4-16x50 SF No. 171103	360; ?	Life (for ED)	?	4-16x	31-8	50	10- 3.1	NO	80	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	30	22.1 625g	12.2" 31c	Locking Turrets
Vector: Tourex No. SCFF-24	?; 260	5y, Rec.	?	4-16x	25-6	44	11- 2.7	Y	60	0.1 mil	6 mil	MOA =	=MOA	FFP Thick O/S Posts	D, ≈N	?	30	23.5 665g	14.0" 36c	
Nikko: Diamond FFP 34 •w/ PRR Reticle No. NSFFP3441644 •w/ Skeleton HMD Ret. No. NSFFP3441644	320; ?	Life, 0.Own	?	4-16x	27-7	44		Y	115	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>18</sup> O/S Posts: •Thick •Not Thick	D, N D, -	.05 <sup>mi</sup> .17 <sup>mo</sup>	34	24.0 680g	13.4" 34c	Locking turrets
Optisan: EVX4-16X44F1 (MIL-F1MH16)	490; 550	Life	?	4-16x	27-7	44	11- 2.7	NO	50	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>19</sup> Thick O/S Posts	D, (N)		30	24.0 680g	14.2" 36c	
Athlon: Talos BTR No. 215028	290; 360	Life, NoRec.	Yes!!	4-14x	27-8	44	11- 3.3	Y	67	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>7</sup> Thick O/S Posts	D, N	.025 <sup>mi</sup> .08 <sup>mo</sup>	30	23.6 669g	12.9" 33c	
Primary Arms (US): Silver Series SLx: •w/ Apollo 6.5CM Reticle •w/ Athena BPR MIL Ret. •w/ Hera BPR MOA Ret.	?; 480	Life	?	3-18x	37-6	50	16- 2.7	Y	48	0.1mi 1/4mo	7 mil	MIL = MIL = MOA =	=MIL =MIL =MOA	FFP <sup>3</sup> Thick O/S Posts	D, N D, N, Grid		30	25.5 720g	13.2" 34c	Parallax 15y ✓ Locking Turrets
Arken: SH4 No. SH4-4141	?; 350	Life		4-14x	26-8	44	?	NO	76 (34 wind age)	0.1 mil	5mil	MIL =	=MIL	FFP <sup>11</sup> Thick O/S Posts	D, N		30	21.0 595	13.0" 33c	Zero stop 4 screws to re-zero
SWFA: 30mm series "Turrets + scope very tough."	550; Demo 700	Life, NoRec	Yes (?)	3-15x	35-7	42	11- 2.8	NO	120 or 140	0.1mi 1/4mo	5 mil 15mo	MIL = or MOA =	=MIL or =MOA	FFP Thick O/S Posts	D or D, N	.06 <sup>mi</sup> .20 <sup>mo</sup>	30	24.1 680g	13.7" 35c	T Turn Counter Tough! Turrets a bit ugly. Min. Parall. 7y
Discovery: ED: 3-15x50 SFIR No. 171101	382; ?	Life (for ED)	Yes ?	3-15x	31-7	50	15- 3.0	Y	90 or 100	0.1 mil	?some were mes- sed up	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	30	30.4 859g	14.6" 37c	Locking Turrets 4 screws to re-zero
Sightron: S-TAC: [FFP, MIL] No. 793139-260161	660; ?	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	T Turn Counter Zero Stop
Shepherd: BRS: •w/ BRS-MIL Ret. •w/ BRS-MOA Reticle	499; 549	Life, 0.Own	?	4-16x	25-7	44	?	Y	65	0.1 mil	6 <sup>7</sup> mil 15mo	MIL = MOA =	=MIL =MOA	FFP <sup>12</sup> Thick O/S Posts	D, N <sup>Elev.</sup> , Grid	?	30	23.0 670g	13.8" 35c	Locking Turrets
Sightmark: Citadel •w/ MR2 No. SM13039MR2 •w/ LR2 No. SM13039LR2 •w/ LR1 No. SM13039LR1	340- 400; -	Life, 30d, 0.Own		3-18x	33-6	50	7-2.7	Y	60	0.1mi 0.1mi 1/4mo	6 mi 6 mi 15mo	MIL = MIL = MOA =	=MIL =MIL =MOA	FFP Thick O/S Posts	D, N +Grid +Grid	.03 <sup>mi</sup> .03 <sup>mi</sup> .12 <sup>mo</sup>	30	26.1 740g	13.0" 33c	Parallax says 15y, but is c.13y. Locking turrets. Throw lever.
Swampfox (US): Kentucky Long	428; 529	Life (50000 rounds)		3-18x	35-6	50	11- 2.2	Y	110	0.1mi 1/4mo	6 mi 15mo	MIL = MOA =	=MIL =MOA	FFP Thick O/S Posts	D, N, Grid	?	30	28.2 800g	14.8 38c	Locking Turrets
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 Thick O/S Posts	D, N	?	30	27.9 791g	14.7" 37c	



				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions							
*in 2019	Price* \$ Low; Mfctr.'s	War- ranty	Sprin- ger- Ratd	Magni- fication	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	Line Thick- ness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"	
Athlon: Midas TAC No. 213070	590; 737	Life, NoRec.	?	4-16x	28-7	44	11- 1.8	Y	100	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>8</sup> Thick O/S Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	23.8 669g	12.9" 33c	Zero Stop	
Falcon (UK): S18i FFP *343\$ at SWFA 12%	343, 380; –	10y, O.Own	Yes!!	3-18x	39-7	50	16- 2.8 calcul.	Y	90 Mile travels 105	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>6</sup> Thick O/S Posts	D, N	.04 <sup>mi</sup> .14 <sup>mo</sup>	30	31.1 882g	14.6" 37c	T Turn Counter	
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. SCRR-28	?; 800	Life, NoRec.		3-18x	41-7	56	8- 2.8	Y	146	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>13</sup> Thick O/S Posts	D, N, Grid		34	28.9 820g	13.3" 34c	Zero Stop Locking Turrets	
Vector: Continental 34mm No. SCFF-29	750; 850	Life, NoRec.		4-24x	31-5	56	8- 2.3	Y	113	0.1 mil	10 mil	MIL =	=MIL	FFP <sup>14</sup> Thick O/S Posts	D, N, Grid		34	27.5 780g	14.3" 36c	Zero Stop → then only 68moa elev. adj. Locking Turrets	
Brand: Series	Part No.	Price \$ Low; Mfctr.'s	War- ranty	Sprin- ger- Ratd	Magni- fication	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)	Enough Dots, No's	Line Thick- ness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
				Magni. → FoV → Eye Box		Exposed Turrets				Holdoff Reticle				Dimensions							

## 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> Vector: Taurus: 3-18x50 FFP: Reticle at all magnifications: @ 7.59min:

<https://www.youtube.com/watch?v=SOOdqEcXgU4>

<sup>2</sup> Blackhound: 4-14x44 FFP: Reticle at min. and max. magnification:

- Alpha MIL reticle (like in the 6-24x50, the Blackhound page has an error here, and like the MOA and the 6-24x50 FFP – the 4-14x44 FFP most likely has the thick posts:

<https://www.blackhoundoptics.com/product/genesis-6-24x50-ffp-mil>

- Ascent MOA reticle: <https://www.blackhoundoptics.com/product/genesis-6-24x50-ffp-moa/>

<sup>3</sup> Primary Arms: Silver Series: 3-18x50 FFP: Apollo 6.5CM MIL Grid reticle: Reticle at min. and max. magnification:

<https://www.primaryarms.com/pa-3-18x50mm-illuminated-ffp-rifle-scope-with-acss-apollo-6-5cm-reticle>

<sup>4</sup> Primary Arms: Silver Series: 4-14x44 FFP:

- R-Grid 2B reticle: <https://www.primaryarms.com/slx3-5-4-14x44mm-first-focal-plane-rifle-scope-with-illuminated-r-grid-2b-reticle>
- MIL-DOT reticle: <https://www.primaryarms.com/primary-arms-4-14x44mm-riflescope-mil-dot-pa4-14x44mm>
- ARC-2-MOA reticle: <https://www.primaryarms.com/primary-arms-4-14x44mm-ffp-riflescope-arc-2-moa-reticle>

<sup>5</sup> Hawke: Sidewinder SF FFP [No. 17 410]: Reticle at min. and max. magnification:

<https://us.hawkeoptics.com/sidewinder-30-sf-ffp-riflescopes.html>

<sup>6</sup> Falcon: S18i 3-18x50 FFP: Reticle at all magnifications: @ 2:06min:

<https://www.youtube.com/watch?v=RGmnOFp2fUU>

<sup>7</sup> Athlon: Talos BTR 4-14x44 FFP: APLR2 MIL Grid: Reticle at min. and max. magnification:

<https://athlonoptics.com/product/rifle-scopes-talos-btr-4-14x44-aplr-ffp-ir-mil>

<sup>8</sup> Athlon: Midas TAC 4-16x44 FFP: APRS2 MIL: Reticle at min. and max. magnification:

<https://athlonoptics.com/product/midas-tac-4-16x44-mil/>

<sup>9</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>10</sup> Monstrum: FFP-G1: 4-14x44: (No. FFPS41444-M): Reticle at min. and max. magnification:

[https://web.archive.org/web/20191122043510/https://cdn11.bigcommerce.com/s-r7nbep7374/images/stencil/1280x1280/products/252/2002/MONSTRUM-TACTICAL-4-14X44-FFP-FIRST-FOCAL-PLANE-RIFLE-SCOPE-FFPS-HUNTING-AR-15-LR-3083\\_95364.1551303891.jpg?c=2](https://web.archive.org/web/20191122043510/https://cdn11.bigcommerce.com/s-r7nbep7374/images/stencil/1280x1280/products/252/2002/MONSTRUM-TACTICAL-4-14X44-FFP-FIRST-FOCAL-PLANE-RIFLE-SCOPE-FFPS-HUNTING-AR-15-LR-3083_95364.1551303891.jpg?c=2)

<sup>11</sup> Arken: SH4: 4-14x44 FFP: Reticle at all magnifications: 2:53min:

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

<sup>12</sup> Shepherd: BRS: 4-16x44 FFP: Reticle at min. and max. magnifications:

MIL: <https://shepherdsopes.com/wp-content/uploads/2020/04/4-16x44-BRS-MIL-Reticle.jpg>

MOA: <https://shepherdsopes.com/wp-content/uploads/2020/04/4-16x44-BRS-MOA-Reticle.jpg>

<sup>13</sup> Vector: Continental 34mm: 3-18x50: Reticle at min. and max. magnifications:

<https://www.vectoroptics.com/data/uploads/2020/06/22/1592831083.jpg>

<sup>14</sup> Vector: Continental 34mm: 4-24x56: 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>15</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>16</sup> Discovery: HD/34mm: 3-18x50 FFP: Reticle at all magnifications: 0:35min:

<https://www.youtube.com/watch?v=2PZWxiWHfPc>

<sup>17</sup> Vector: Veyron: 4-16x44 FFP: Reticle at all magnifications: @ 3:20min and at @ 17:18min to 18:05min:

<https://www.youtube.com/watch?v=gXEKU27mXtQ>

<sup>18</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>19</sup> Optisan: EVX 4-16X44F1 (MIL-F1MH16): Reticle at all magnifications: @ 4:36min

<https://www.youtube.com/watch?v=K1yoMv-VP2Y>

<sup>20</sup> Monstrum: FFP-G3: 4-14x44 No. G3F41444: Reticle at min. and max. magnification:

[https://cdn11.bigcommerce.com/s-r7nbep7374/images/stencil/1280x1280/products/454/2468/Type-H-reticle\\_4-14x44\\_99131.1570125176.jpg?c=2](https://cdn11.bigcommerce.com/s-r7nbep7374/images/stencil/1280x1280/products/454/2468/Type-H-reticle_4-14x44_99131.1570125176.jpg?c=2)

<sup>21</sup> Discovery: VT-3: 4-16x50 FFP: Reticle at all magnifications (the operator of the camera sometimes does not achieve to focus the camera on the reticle, but after about a minute he gets it focused even at low magnification): @ 18:13min and 23:38min

<https://www.youtube.com/watch?v=5NIOftFLZc>