

# Scope Specs Table

## **SHORT Scopes — and 3-12x and 3-9x Scopes**

**Bottom Magni. = 3x or lower**

**Top Magni. = 9x to 12x (or more magni. if 13" short)**

**with 10y-Side Parallax**

**Exposed Turrets**

**Holdoff Reticle**

**Under \$500 (most are under \$200-300)**

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

Bottom magnification = 3x or lower

Top magnification = between 9x and 12x | if a scope has a higher top magnification it is listed  
*only if the scope is 13" (33cm) or shorter*

Minimum Parallax = 10 yards or less

Turrets = Exposed

Side Parallax Adjustment

Reticle = Holdoff reticle (evenly spaced hash lines or dots for aiming with holdoff/ holdover;  
some exceptions are listed due to their exceptionally light weight or short size)

Price = between \$200 and \$500 (most are between \$200 and \$300)

### **Abbreviations in the Table**

**Green** is a good thing... – e.g.: a very good warranty or FoV, a higher than average top magnification, a larger than average elevation adjustment range, a shorter size or lighter weight than average, an 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 or FoV, a lower than average top magnification, a longer size or heavier weight than average, a small exit pupil (reducing the eye box), or a negative feature (min. parallax more than 10y, capped turrets, 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 than average objective diameter for less light (supposedly), an uneven number of mils or moas per turret turn (not multiples of 5mil or 10moa), a 34mm tube (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.

**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

**A little caution for using short scopes:** Short scopes have short tubes. That means: • Less flexibility of where to put scope rings, especially if the magazine of a PCP sticks up between

a two-part scope rail. | • Less flexibility of where to put a voluminous scope ring (like the Burris XTR) that can obstruct your view of the turret settings if it is mounted smack next to the turret. | • Less space to mount anything else on the scope tube: bubble level, flashlight holder, IR gear, etc.

				Magni. → FoV	→ Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions						
*in 2019, some 2020	Price* \$: Low; Mfctr.'s	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	Line Thickness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Brand: Series	Part No.			SFP Scopes												at max.				
Monstrum: V2 Tactical AO <small>No. S31242-M-RGAO-V2-1</small>	?; 100	1y, R. 0.Own	?	3-12x	?	42	?	Y	??	¼ inch	15(?) inch	SMOA≠	≠MIL	SFP	D		30	22.4 635g	11.5" 29c	Capped Turrets! BUT Clickable
Bushnell: AR Optics Rifle Scope	?; 170	Life, NoRec	?	3-12x	29-7	40	?	NO	50 Elev. 85 Wind.	0.1 mil	6 mil	MIL	None! (BDC)	SFP	None! (BDC)		1"	19.0 539g	12" 31c	T Turn Counter
Bushnell: Trophy	130;	Life, NoRec	?	4-12x	29-10	40	?	NO	60	?	?	MIL	None! X-Hairs	SFP	None! X-Hairs		1"	16.4 464g	12.8" 33c	Capped Turrets! specifics unknown
Bushnell: Prime	234; 304	Life, NoRec	?	4-12x		40	?	NO	60		15 moa	MOA	None! X-Hairs	SFP	None! X-Hairs		1"	16.4 464g	12.8" 33c	Wind. Turret Capped
Nikko Stirling: C-More X10 Discont. <small>No. NSCM22044</small>	410; ?	Life, 0.Own	?	2-20x	47-5	44	22- 2.2 calculated	Y	60	¼ moa	?	MOA≠	≠MIL	SFP	D	?	30	25.7 730g	13.3" 34c	
MTC: Viper Connect •w/ SCB2 Reticle	400; -	Life <sup>30d</sup> R.0.Own	No	3-12x	61-17 super wide	24!	8- 2.0 calculated	Y	120	¼ inch	12 inch	SMOA=	=MOA	SFP ?x	D	?	30	21.2 600g	11.3" 29c	▲SuperShortEye Relief 1.2" (3cm)
MTC: Viper Connect •w/SCB2Ret.   Requires special \$58 mount	400; -	Life <sup>30d</sup> R.0.Own	No	3-12x	61-17 super wide	32	11- 2.7 calculated	Y	120	¼ inch	12 inch	SMOA=	=MOA	SFP ?x	D	?	30	22.9 650g	11.3" 29c	▲Super Short Eye Relief 1.2" (3cm)
UTG: Accushot T8 Tactical; •w/ MOA Ret. <small>No. SCP3-218UMOA</small>	178; 230	Life	Yes!!	2-16x	44-6	44	22- 2.7	Y	??	¼ inch	18 inch	SMOA=	=MOA	SFP 10x	D, N	?	30	22.6 641g	12.4" 32c	
UTG: Accushot OP3: •w/ MOA Ret. <small>No. OP3-GM3124UMOA</small>	198; 240	Life	Yes!!	3-12x	32-10	44	13- 3.9	Y	??	¼ moa	24 moa	MOA=	=MOA	SFP 10x	D, N	?	30	21.0 595g	10.1" 26c	Locking Turrets
UTG: Accushot OP3: •w/ MOA Ret. <small>No. OP3-GM4164UMOA</small>	210; 255	Life	Yes!!	4-14x	26-8	44	11- 3.0	Y	??	¼ moa	24 moa	MOA=	=MOA	SFP 10x	D, N	?	30	21.5 610g	10.7" 27c	Locking Turrets
UTG: Accushot Precision <small>No. SCP3-UG312AOIEW</small>	142; 180	Life	Yes!!	3-12x	34-9	44	13- 3.9	Y	??	¼ moa	???	MOA≠	≠MIL	SFP 10x	D	?	30	22.7 643g	14.0" 36c	Locking Turrets
UTG: Bugbuster •No. SCP-M312AOLWQ = w/ Picatinny r. •No. SCP-M312AOD = w/ Dovetail r.	125; 130	Life	Yes!!	3-12x	31-10	32	10- 2.7	NO	??	⅓" w/ inch	24 inch	SMOA≠	≠MIL	SFP 10x	D	?	1"	12.7 360g	8.1" 21c	Min. Parallax: 3y   Wire reticle
UTG: Bugbuster <small>No. SCP-M392AOD = w/ Dovetail rings</small>	110; 125	Life	Yes!!	3-9x	37-12	32	10- 3.6	NO	??	⅓" w/ inch	24 inch	SMOA≠	≠MIL	SFP 9x	D	?	1"	12.0 340g	7.9" 20c	Min. Parallax: 3y   Wire reticle
UTG: Bugbuster •No. SCP-M392AOLWQ = red-green-blue IR + Picatinny rings   Right side turret is IR! •No. SCP-M392AOLWQ = 36-color IR + Picatinny rings	79; 108	Life	Yes!!	3-9x	38-14	32	10- 3.6	Y	??	¼" w/ inch	18 inch	SMOA≠	≠MIL	SFP 9x	D	?	1"	14.0 397g	8.2" 21c	Min. Parallax: 3y ▲Front Parallax! Wire reticle
UTG: Bugbuster <small>No. OP3-GM3936TMOAB</small>	New in 2020	Life	Yes!!	3-9x	34-11	36	12- 4.0	Y	??	½" w/ moa ✓	32? moa	MOA=	=MOA	SFP 9x	D, (N)	?	30	17.2 488g	8.2" 21c	Min. Parallax: 3y etched glass reticle ✓ Bubble Level
Optisan: EVX 3-12X44i (MIL-MH10X)	380; 430	Life	?	3-12x	37-9	44	14- 4.0	Y	50	0.1 mil	4.8 mil!!	MIL =	=MIL	SPF 10x	D, (N)		30	27.7 700g	13.3" 34c	T Revolution uneven 4.8 mil!
Hawke: Airmax 30 SF AMX IR <small>No. 13 300</small>	374; 429	Life, R. 0.Own	Yes!!	3-12x	31-8	50	17- 4.0	Y, N	95	¼ moa	15 moa	MOA≠	≠MIL	SFP	D	?	30	27.5 780g	13.6" 35c	
Vector: Veyron SFP <small>No. SCOM-24</small>	169; ?	5y	Yes!!	3-12x	35-9	44	14- 3.6	N O	58	0.1 mil	6 mil	MIL =	=MIL	SFP	D	?	30	17.6 500g	9.7" 25c	Eye Relief: 9.0-8.5cm
Discovery: VT-3 3-12x44 SF SFP <small>No. 170612</small>	? 180	3y	Yes	3-12x	35-9	44	?	N O	68	0.1 mil	6 mil	MIL =	=MIL	SFP	D, N	?	30	18.4 521g	10.0" 25c	Locking Turrets Eye Relief: 9.0-8.5cm

				Magni. → FoV → Eye Box	Exposed Turrets				Holdoff Reticle				Dimensions							
*in 2019, some 2020	Price* \$: Low; Mfctr.'s	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	Line Thickness	1" or 30mm Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Athlon: Talos Mildot No. 215004	150; 180	Life, NoRec	?	3-12x	34-9	40	13-3.4	N O	67	0.1 mil	6 mil	MIL =	=MIL	SFP	D	.05 <sup>mi</sup> .17 <sup>mo</sup>	1"	16.2 459g	12.0" 30c	Capped Turrets! BUT Clickable. T Turn Counter
Sightron: S-TAC 30MM No. 793139-260130	300; 390	Life	Yes!!	3-16x	32-6	42	?	N O	70	¼ 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 No. REN21044DG	250; 343	Life, NoRec.	?	25-10x	45-11	44	17-4.4	N O	50	¼ moa	15 moa	MOA =	=MOA	SFP	D		30	19.3 547g	13.5" 35c	
Bushnell: Engage No. REN31242DG	243; 328	Life, NoRec	?	3-12x	30-6	42	?	N O	50	¼ moa	15 moa	MOA =	=MOA	SFP	D		30	19.5 553g	14.0" 36c	
Riton: MOD5 GEN2 Wide FoV No. 019962523861	420; 520	Life, NoRec	?	4-16x	29-8	50	12-3.1	Y	80	¼ moa	15 moa	MOA =	=MOA	SFP 16x	D		30	23.0 652g	12.0" 30c	Capped Turrets! BUT Clickable
Hawke: Airmax 30 Touch No. 13 260 Eye Relief 1.2"/ 3cm	?; 450	Life, R. OOwn	Yes!!	3-12x	64-18 super wide	32	10-2.7	Y	250	0.1 mil	6 mil	MIL =	=MIL	SFP 10x	D	?	30	20.2 572g	10.5" 27c	Capped Turrets! BUT Clickable, Large, T Turn Counter
Hawke: Airmax 30 SF Compact No. 13 200	329; 360	Life, R. OOwn	Yes!!	3-12x	44-11	40		Y	100	0.1 mil	5? mil	MIL =	=MIL	SFP 10x	D	?	30	20.8 589g	10.9" 28c	Capped Turrets! BUT Clickable T Turn Counter
Hawke: Airmax 30 SF Compact No. 13 210	340; 380	Life, R. OOwn	Yes!!	4-16x	33-8	44	13-3.0	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
FFP Scopes																				
Monstrum: FFP-G1 FFPS3940-R	?; 190	1y, R. OOwn	?	3-9x	?	40	?	Y	??	¼ moa	15 moa	MOA	None! (BDC)	FFP	None! (BDC)		30	22.0 624g	10.8" 27c	Locking, Low Profile Turrets
Monstrum: FFP-G1 No. FFPS41444-M	?; 200	1y, R. OOwn	?	4-14x	?	44	?	Y	??	0.1 mil	6 mil	MIL =	=MIL	FFP	D, N		30	26.0 737g	13.0" 33c	T Turn Counter
Discovery: HS: 4-14x44 FFP No. 170402	200; 280	3y	Yes	4-14x	26-8	44	11-3.1	N O	55	¼ moa	15 moa	MOA =	=MOA	FFP Thick O/S Posts	D, N	?	30	25.0 750g	13.0" 33c	x ".50 cal. rated" Locking Turrets
Discovery: HS: 4-14x44 FFP No. 170404	210; 290	3y	Yes	4-14x	26-8	44	11-3.1	N O	68	0.1 mil	6? mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	20.1 570g	13" 33c	x ".50 cal. rated" Locking Turrets
Discovery: HI: 4-14x44 SF FFP No. 170209	330; ?	3y	Yes	4-14x	26-8	44	?	N O	53	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D	?	30	26.5 750g	13.0" 33c	Angle Indicator, MIL Range Finder
Athlon: Talos BTR No. 215028	290; ?	Life, NoRec	Yes!!	4-14x	27-8	44	11-3.3	Y	67	0.1 mil	5 mil	MIL =	=MIL	FFP <sup>1</sup> Thick O/S Posts	D, N	.025 <sup>mi</sup> .08 <sup>mo</sup>	30	23.6 669g	12.9" 33c	
Swampfox: Kentucky Long	418; 500	Life (50000 rounds)	?	2-12x	54-9	44	9-2.6	Y	120	0.1mi ¼mo	6 mi 15mo	MIL = or MOA =	=MIL or MOA	FFP <sup>4</sup> Med. O/S Posts	D, N, Grid		30	24.0 680g	12.4 32c	Locking Turrets
Discovery: ED: 4-16x50 SF No. 171103	360; ?	Life (for ED)	Yes	4-16x	31-8	50	10-3.1	N O	80	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	?	30	22.1 625g	12.2" 31c	Eye Relief: 10.0-8.5cm
Vector: Veyron FFP No. SCFF-22	?; 259	5y	Yes	4-16x	26-6	44	11-2.7	N O	60	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>3</sup> No Thick Posts	D	?	30	20.0 570g	10.6" 27c	Locking Turrets Eye Relief: 9.0-8.5cm
Discovery: VT-3: 4-16x44 SF FFP (≠50mm!) No. 170611	192; 280	3y	Yes	4-16x	26-7	44	10-2.8	N O	68	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D	?	30	19.4 550g	10.6" 27c	Good for Turret Bonnets (6holes) Locking Turrets Eye Relief: 9.0-8.5cm
Vector: Veyron FFP SCFF-21	229; ?	5y	Yes	3-12x	35-9	44	14-3.6	N O	58	0.1 mil	6 mil	MIL =	=MIL	FFP <sup>2</sup> No Thick Posts	D	?	30	17.6 499g	9.7" 25c	Locking Turrets Eye Relief: 9.0-8.5cm
Discovery: VT-3: 3-12x44 SF FFP No. 170610	189; 229	3y	Yes	3-12x	35-9	44	?	N O	68	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D	?	30	18.4 521g	10.0" 25c	Good for Turret Bonnets (6holes) Locking Turrets Eye Relief: 9.0-8.5cm
US Optics: TS-12X FFP •w/ MHR MIL Hunting Reticle FFP [not Triplex]	450; 595	Life, Anyb.	?	3-12x	30-8	44	?	N O	100 ?	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D, N	?	30	18.1 513g	9.6" 24c	Locking Turrets Eye Relief: 9.1-7.6cm

				Magni. → FoV		→ Eye Box			Exposed Turrets			Holdoff Reticle				Dimensions				
*in 2019, some 2020	Price* \$: Low; Mfctr.'s	War- ranty	Sprin- ger- Ratd	Magni- fication	FoV =Field of Vw @ 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 Tube	Weight (oz) (g)	Length (inch) (cm)	Misc. + Reviewers' "Comments"
Falcon: S18i FFP → For comparison only <sup>2019</sup>	343; 380	10y, 00wn	Yes!!	3-18x	39-7	50	16- 2.8 calc.	Y	90	0.1 mil	10 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N	.14 <sup>mo</sup> .04 <sup>mi</sup>	30	31.1 882g	14.6" 37c	T Turn Counter
Brand: Series	Price \$ Low; Mfctr.'s	War- ranty	Sprin- ger- Ratd	Magni- fication	FoV= Field of Vw @ 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)	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								

**Footnotes: Links for Views/ Videos of FFP Reticles at Different Magnifications**

- <sup>1</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>2</sup> Vector: Veyron: 3-12x44 FFP: Reticle at all magnifications: @ 2:46min:  
<https://www.youtube.com/watch?v=9En0mgrsINM>
- <sup>3</sup> Vector: Veyron: 4-16x44 FFP: Reticle at all magnifications, it seems that way: @ 17:18min to 18:05min:  
<https://www.youtube.com/watch?v=gXEKU27mXtQ>
- <sup>4</sup> 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/71%2B5YMUAXfL.AC_SL1500_.jpg)  
[https://images-na.ssl-images-amazon.com/images/I/71aX%2BZ5aDFL.AC\\_SL1500\\_.jpg](https://images-na.ssl-images-amazon.com/images/I/71aX%2BZ5aDFL.AC_SL1500_.jpg)