

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)

November 16, 2020 | Matthias aka JungleShooter | JungleShooterX@gmail.com

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, 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

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	War-ranty	Spring- Ret	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.				
Monstrum: V2 Tactical AO No. S31242-M-RGAO-V2-1	?; 100	1y, R. 0.Own	?	3-12x	?	42	?	Y	??	1/4 inch	15(?) inch	SMDA≠	≠MIL	SFP ?x	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 ?x	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 ?x	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 ?x	None! X-Hairs		1"	16.4 464g	12.8" 33c	Wind. Turret Capped
Nikko Stirling: C-More X10 Discont. No. NSCM22044	410; ?	Life, 0.Own	?	2-20x	47-5	44	22- 2.2 calculated	Y	60	1/4 moa	?	MOA≠	≠MIL	SFP ?x	D	?	30	25.7 730g	13.3" 34c	
MTC: Viper Connect •w/ SCB2 Reticle	400; -	Life30d ROOwn	No	3-12x	61-17 super wide	24!	8- 2.0 calculated	Y	120	1/4 inch	12 inch	SMDA=	=MOA	SFP ?x	D	?	30	21.2 600g	11.3" 29c	▲SuperShortEye Relief 1.2" (3cm)
MTC: Viper Connect •w/SCB2Ret. Requires special\$58mount	400; -	Life30d ROOwn	No	3-12x	61-17 super wide	32	11- 2.7 calculated	Y	120	1/4 inch	12 inch	SMDA=	=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. No. SCP3-216UMOA	178; 230	Life	Yes!!	2-16x	44-6	44	22- 2.7	Y	??	1/4 inch	18 inch	SMDA=	=MOA	SFP 10x	D, N	?	30	22.6 641g	12.4" 32c	
UTG: Accushot OP3: •w/ MOARet. No. OP3-GM3124UMOA	198; 240	Life	Yes!!	3-12x	32-10	44	13- 3.9	Y	??	1/4 moa	24 moa	MOA=	=MOA	SFP 10x	D, N	?	30	21.0 595g	10.1" 26c	Locking Turrets
UTG: Accushot OP3: •w/ MOA Ret. No. OP3-GM4164UMOA	210; 255	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 Precision No. SCP3-UG312A0IEW	142; 180	Life	Yes!!	3-12x	34-9	44	13- 3.9	Y	??	1/4 moa	???	MOA≠	≠MIL	SFP 10x	D	?	30	22.7 643g	14.0" 36c	Locking Turrets
UTG: Bugbuster •No. SCP-M312A0LWQ = w/ Picatinny r. •No. SCP-M312A0D = w/ Dovetail r.	125; 130	Life	Yes!!	3-12x	31-10	32	10- 2.7	NO	??	1/8" inch	24 inch	SMDA≠	≠MIL	SFP 10x	D	?	1"	12.7 360g	8.1" 21c	Min. Parallax: 3y Wire reticle
UTG: Bugbuster No. SCP-M392A0D = w/ Dovetail rings	110; 125	Life	Yes!!	3-9x	37-12	32	10- 3.6	NO	??	1/8" inch	24 inch	SMDA≠	≠MIL	SFP 9x	D	?	1"	12.0 340g	7.9" 20c	Min. Parallax: 3y Wire reticle
UTG: Bugbuster •No. SCP-M392A0IEWQ = red-green-blue IR + Picatinnyrings Right side turret is IR! •No. SCP-M392A0LWQ = 36-color IR + Picatinny rings	79; 108	Life	Yes!!	3-9x	38-14	32	10- 3.6	Y	??	1/4" inch	18 inch	SMDA≠	≠MIL	SFP 9x	D	?	1"	14.0 397g	8.2" 21c	Min.Parallax: 3y ▲FrontParallax! Wire reticle
UTG: Bugbuster No. OP3-GM3936TMOAB	New in 2020	Life	Yes!!	3-9x	34-11	36	12- 4.0	Y	??	1/2" 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	SFP 10x	D, (N)		30	27.7 700g	13.3" 34c	T Revolution uneven 4.8 mil!

				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 ³ 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"
Hawke: Airmax 30 SF AMX IR No. 13 300	374; 429	Life, R. 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 No. SCFF-24	169; ?	5y	Yes!!	3-12x	35-9	44	14-3.6	N O	58	0.1 mil	6 mil	MIL =	= MIL	SFP 12x	D	.025 ^{mi} .08 ^{mo}	30	17.6 500g	9.7" 25c	Eye Relief: 9.0-8.5cm
Discovery: VT-3 4-16x44 SF SFP	150; 172	3y	Yes	4-16x	35-9	44	?	N O	65	0.1 mil	6 mil	MIL =	= MIL	SFP 10x	D, N	?	30	19.4 550g	10.6" 27c	Locking Turrets
Discovery: VT-3 3-12x44 SF SFP No. 170612	145; 180	3y	Yes	3-12x	35-9	44	?	N O	68	0.1 mil	6 mil	MIL =	= MIL	SFP 10x	D, N	?	30	18.4 521g	10.0" 25c	Locking Turrets Eye Relief: 9.0-8.5cm
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 ?x	D	.05 ^{mi} .17 ^{mo}	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 ^{mi} .08 ^{mo}	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 ?x	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 ?x	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. Own	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. Own	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. Own	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 – without Thick Outside Posts in the Reticle																				
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 ³ No Thick Posts	D	.025 ^{mi} .08 ^{mo}	30	20.5 580g	11.7" 30c	Locking Turrets
Vector: Veyron FFP No. SCFF-22	198; 259	5y	Yes	4-16x	26-6	44	11-2.7	N O	60	0.1 mil	6 mil	MIL =	= MIL	FFP ³ No Thick Posts	D	.025 ^{mi} .08 ^{mo}	30	20.0 570g	10.6" 27c	Locking Turrets Eye Relief: 9.0-8.5cm
Vector: Veyron FFP No. SCFF-21	174; ?	5y	Yes	3-12x	35-9	44	14-3.6	N O	58	0.1 mil	6 mil	MIL =	= MIL	FFP ² No Thick Posts	D	.025 ^{mi} .08 ^{mo}	30	17.6 499g	9.7" 25c	Locking Turrets Eye Relief: 9.0-8.5cm
FFP Scopes – with Thick Outside Posts in the Reticle																				
Monstrum: FFP-G1 No. FFPS41444-M	?; 200	1y, R. Own	?	4-14x	?	44	?	Y	??	0.1 mil	6 mil	MIL =	= MIL	FFP ⁵ Thick O/S Posts	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 ¹ Thick O/S Posts	D, N	.025 ^{mi} .08 ^{mo}	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 = MIL or	= MIL or	FFP ⁴ 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

				Magni. → FoV → Eye Box		Exposed Turrets				Holdoff Reticle				Dimensions						
in 2019, some 2020	Price \$: Low; Mfctr.'s	War-ranty	Sprin-ger-Ret'd	Magni-fication	FoV= Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y/N	Max. Elev. Adjnt. (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-3: 4-16x44 SF FFP (≠50mm!) <small>No. 170611</small>	192; 280	3y	Yes	4-16x	26-7	44	10-2.8	N	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 <small>Eye Relief: 9.0-9.5cm</small>
Discovery: HD: 3-12x44 SFIR FFP <small>No. ???</small>	?; 200	3y	Yes	3-12x	?	44	?	Y	80	0.1 mil	6 mil	MIL =	=MIL	FFP Thick O/S Posts	D, N, Grid	?	30	20.3 575g	9.6" 24c	Locking Turrets
Discovery: VT-3: 3-12x44 SF FFP <small>No. 170610</small>	189; 229	3y	Yes	3-12x	35-9	44	?	N	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 <small>Eye Relief: 9.0-8.5cm</small>
US Optics: TS-12X FFP •w/ MHR MIL Hunting Reticle FFP [not Triplex]	450; 595	Life, Anyb.	?	3-12x	30-8	44	?	N	100 ?	0.1 mil	6 mil	MIL =	=MIL	FFP Med. Thick Posts	D, N	?	30	18.1 513g	9.6" 24c	Locking Turrets <small>Eye Relief: 9.1-7.6cm</small>
Falcon: S18i FFP → For comparison only ²⁰¹⁹	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 ^{mo} .04 ^{mi}	30	31.1 882g	14.6" 37c	T Turn Counter
Brand: Series	Price \$ Low; Mfctr.'s	War-ranty	Sprin-ger-Ret'd	Magni-fication	FoV= Field of View @ 100y (ft)	Obj. Dia (mm)	Exit Pupil (mm)	IR Y/N	Max. Elev. Adjnt. (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

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/>

¹ 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>

² Vector: Veyron: 3-12x44 FFP: Reticle at all magnifications: @ 2:46min:

<https://www.youtube.com/watch?v=9En0mgrsINM>

³ 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>

⁴ 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>

⁵ 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