

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, 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

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 \$.	Warranty	Springer-Rated	Magnification	FoV =Field of View @ 100y (ft)	Obj. Dia ø (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)	Length (inch)	Misc. + Reviewers' "Comments"
Brand: Series	Part No.	Mfctr.'s																		
				SFP Scopes																
Monstrum: V2 Tactical AO <small>No. S31242-M-RGA0-V2-1</small>	?; 100	1y, R. Own	?	3-12x	?	42	?	Y	??	1/4 inch	15(?) inch	SMAA ≠ 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 <small>No. NSCM22044</small> Discont.	410; ?	Life, 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 •SCB2 Ret.	400; —	Life ^{30d} R.O.Own	No	3-12x	61-17 super wide	24!	8-2.0 calculated	Y	120	1/4 inch	12 inch	SMAA = MOA	SFP ?x	D	?	?	30	21.2 600g	11.3" 29c	▲Super Short Eye Relief 1.2" (3cm)
MTC: Viper Connect •SCB2 Ret. Requires special \$58 mount	400; —	Life ^{30d} R.O.Own	No	3-12x	61-17 super wide	32	11-2.7 calculated	Y	120	1/4 inch	12 inch	SMAA = MOA	SFP ?x	D	?	?	30	22.9 650g	11.3" 29c	▲Super Short Eye Relief 1.2" (3cm)
UTG: Accushot T8 Tactical: •MOA Ret. <small>No. SCP3-216UMOA</small>	178; 230	Life	Yes!!	2-16x	44-6	44	22-2.7	Y	??	1/4 inch	18 inch	SMAA = MOA	SFP 10x	D, N	?	?	30	22.6 641g	12.4" 32c	
UTG: Accushot OP3: •MOA Ret. <small>No. OP3-GM3124UMOA</small>	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: •MOA Ret. <small>No. OP3-GM4164UMOA</small>	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 <small>No. SCP3-UG312A0IEW</small>	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-M312A0WQ = 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	SMAA ≠ MIL	SFP 10x	D	?	?	1"	12.7 360g	8.1" 21c	Min. Parallax: 3y Wire reticle
UTG: Bugbuster <small>No. SCP-M392A0D = w/ Dovetail rings</small>	110; 125	Life	Yes!!	3-9x	37-12	32	10-3.6	NO	??	1/8" inch	24 inch	SMAA ≠ 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 + Picatinny rings 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	SMAA ≠ MIL	SFP 9x	D	?	?	1"	14.0 397g	8.2" 21c	Min. Parallax: 3y ▲Front Parallax! Wire reticle
Optisan: CP 3-12x32 SFP	329; 359	Life	Yes!!	3-12x	36-9	32	10-2.6	NO	66	0.1 mil	10 mil	MIL = MIL	SFP 10x	D, (N)		.05 ^{mi} .17 ^{mo}	30	17.2 487g	9.5" 24c	Capped Turrets! BUT Clickable.
Optisan: EVX 3-12X44i •MIL-MH10X Ret.	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; Brand: Series	Warranty Mfctr.'s	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"
Hawke: Airmax 30 SF •AMX IR Ret. No. 13300	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	NO	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	?	NO	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	?	NO	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	NO	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	?	NO	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	NO	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	?	NO	50	¼ moa	15 moa	MOA =	=MOA	SFP ?x	D		30	19.5 553g	14.0" 36c	
Riton: MOD5 Gen. 2 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. 13260 ▲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. 13200	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. 13210	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	NO	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	NO	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	NO	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. FFP541444-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	NO	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	NO	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	?	NO	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 ¼amo	6 mi 15mo	MIL = or MOA =	=MIL or =MOA	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	NO	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- Ratd	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 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	NO	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: 9.0-9.5</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	?	NO	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 •MHR MIL Hunting Ret. FFP [not Triplex!]	450; 595	Life, Anyb.	?	3-12x	30-8	44	?	NO	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, OOwn	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- Ratd	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)	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