18 NEW RETICLE PATTERNS

HANDBOOK OF

STANDARD RETICLE PATTERNS

BY MANUFACTURER

Compiled by
D. Andrew Kopas
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Updated 5/10/2012
Version 9

Intended for Educational
Purposes Only, Not for
Commercial Sale or Use

Adobe PDF
The purpose of this handbook is to aid military, law enforcement, and civilian precision shooters in the selection of the proper reticle pattern for their respective mission. Given the wide variety of different reticle patterns used by the various scope manufacturers represented herein, including most of them in a single document can help to simplify the selection process. The reader should verify the current status of the reticle with the manufacturer since some patterns may no longer be in production. Reticle patterns added in Version 9 include new additions from S&B, Horus, Night Force, Vortex, Super Sniper and others.

Special thanks to all of the rifle scope and reticle manufacturers listed at the end of this handbook for the reticle pattern schematics illustrated in this compilation.

D. Andrew Kopas
Schmidt and Bender Reticle Patterns

Reticle No. 1
Fixed power only

Reticle No. 1
Variable power only

Reticle No. 2

Reticle No. 3
Schmidt and Bender Reticle Patterns

Reticle No. 4

Reticle No. 6 fine (varmint)

Reticle No. 7

Reticle No. 8
Schmidt and Bender Reticle Patterns

Reticle No. 8 Dot (varmint)  Reticle No. 9

Reticle No. 7 FlashDot  Reticle No. 8 FlashDot
Schmidt and Bender Reticle Patterns - Illuminated

Reticle No. L1

Reticle No. L3

Reticle No. L7

Reticle No. L9
Schmidt and Bender Reticle Patterns – Police Marksman

P-1 (Bryant) reticle

P-3 Mil-dot illuminated

CQB Reticle
Schmidt and Bender Reticle Patterns – Police Marksman Illuminated MSR
US OPTICS Reticle Patterns

1x FOV

4x FOV

Ghost ring w/ center dot
100-800 yard .220 M4 BDC
18" wide ranging bars

Line Width
0.15 MOA
18 Places

Line Width
0.25 MOA
8 Places

Line Width
0.5 MIL
32 Places

Line Width
0.5 MIL
16 Places

Line Width
0.2 Milan
16 Places

Line Width
0.2 Milan
16 Places

Lines continue to edge
US OPTICS Reticle Patterns

US Optics PCMOA Reticle
US OPTICS Reticle Patterns
US OPTICS Reticle Patterns

Measurements are in MOA (xx)
US OPTICS Reticle Patterns
GAP Mil-Scale

GAP Mil-Scale
Available for 17x and 22x

(LINES CONTINUE TO EDGE)

LETTERING 8 PLACES
HEIGHT (1.5 MOA)
STYLE SIMPLEX

(.1 MOA)
2 PLACES

(.25 MIL)
34 PLACES

(0.5 MIL)
21 PLACES

(.5 MIL)
16 PLACES

(.1 MOA)
42 PLACES

(.25 MIL)
28 PLACES

(.7 MOA)
4 PLACES

(4.0 MIL)
3 PLACES

(9.0 MIL)
US OPTICS Reticle Patterns

RWF 77

RWF-77 Reticle for US Optics SN3 1.8-10 (NON-LIT)

The Bullet Drop Compensator is for 223 caliber using the 77 gr SMK going at 2725 FPS for the carbine AR15 rifles. Here are the numbers in Real MOA for elevation and windage hold overs:

<table>
<thead>
<tr>
<th>Distance</th>
<th>Elevation</th>
<th>10 MPH Wind</th>
<th>20 MPH Wind</th>
<th>Total Length of Hold Over Lines</th>
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<tbody>
<tr>
<td>200 Yards</td>
<td>1.50 MOA</td>
<td>2.25 MOA</td>
<td>4.50 MOA</td>
<td>7.0 MOA</td>
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<tr>
<td>250</td>
<td>2.70</td>
<td>2.75</td>
<td>5.125</td>
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<td>4.00</td>
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<td>5.70</td>
<td>4.50</td>
<td>9.25</td>
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<td>400</td>
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<td>9.30</td>
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<td>13.60</td>
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<tr>
<td>650</td>
<td>18.50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>700</td>
<td>21.50</td>
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</tr>
<tr>
<td>750</td>
<td>24.50</td>
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<td>800</td>
<td>26.00</td>
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</tr>
</tbody>
</table>
US OPTICS Reticle Patterns

MPR
US OPTICS Reticle Patterns
JNG Mil & JNG MOA

6. VIEWING SURFACES SHALL NOT EXCEED 10/9 SCRATCH/DIG. NO VISIBLE DEFECTS PERMITTED IN COATING OR GLASS.
5. DIMENSIONS ARE IN INCHES [MILLIMETERS] (ANGLE).

CONFIDENTIAL INFORMATION, TO BE DISCLOSED TO OUTSIDE PARTIES ONLY WITH THE EXPRESS WRITTEN PERMISSION OF US OPTICS, INC.
US OPTICS Reticle Patterns

Canadian 17x

6. SURFACE SHALL NOT EXCEED 10/5 SCRATCH/DIG. NO VISIBLE DEFECTS PERMITTED IN COATING OR GLASS.

5. DIMENSIONS ARE IN INCHES [MILLIMETERS] (ANGLE).

LINES CONTINUE TO EDGE

SCALE 1:1 20
US OPTICS Reticle Patterns
RDP Mil 17

7. Angular measurements true MOA ("2MOA").
6. Surface shall not exceed 10/5 scratch/dig. No visible defects permitted in coating or glass.
5. Dimensions are in inches [millimeters] (angle).

Confidential information. To be disclosed to outside parties only with the express written permission of US Optics, Inc.
US OPTICS Reticle Patterns
RDP MOA

7. Angular measurements true MOA ("tMOA").
6. Surface shall not exceed 10/5 scratch/dig. No visible defects permitted in coating or glass.
5. Dimensions are in inches [m millimeters] (angle).
Horus H59 Improved Sniper Reticle with Illumination
Horus H59 Dual Plane Improved Sniper Reticle with Illumination
Horus H50 Close Quarters Reticle with Illumination
Horus TReMoR2 Reticle with Illumination
Horus H425 Hunting Half Grid Reticle
Horus H32 Observational Measurement Spotting Reticle
Horus H36 Observational Range
Finder Spotting Reticle
Horus Vision Reticle Patterns

H25

H31

H39

H45

H48

H70
Horus Vision Reticle Patterns
Horus Vision Reticle Patterns

H35

H5

H12

H37

H27
NightForce Reticle Patterns
NP-RF1 Field Tactical Long Range

2 MOA elevation and windage spacing are ideal for precision long-range shooting and all-around use. 10, 20 and 30 MOA elevation points are clearly marked for quick reference in the field. Especially suitable for range finding.
NightForce Reticle Patterns
MD 2.0 Field Tactical

1 mil spacing between dots. See-through design does not obscure small targets at long ranges. Four posts allow centering the target quickly, especially in poor light.
NightForce Reticle Patterns
MLR2.0 Field Tactical Long Range

The .5 and 1 mil divisions allow for multiple zeroes, holdover, holdunder and windage adjustments without touching elevation or windage knobs. Elevation points are numerically identified in 2, 4, 6 and 8 mil increments, windage points in 2 and 4 mil increments.
NightForce Reticle Patterns
General Velocity 1000

Precise shot placement to 1000 yards with accurate holdovers. Available in LV.5, MV.5, HV, HV.5, HVM, HVM.5, UHV and UHV.5 configurations.
NightForce Reticle Patterns
LV.5 General Long Range

Precise shot placement to 1000 yards with accurate holdovers when the distance to target is known. Extremely quick, requiring no calculation or adjustments. Designed for specific calibers and ballistic profiles.
With 1 MOA elevation and windage markings, more accurate range finding and hold-offs are possible on smaller targets at longer ranges. Combined with a floating center crosshair, this makes for a reticle extremely fast and easy to use in the field.
NightForce Reticle Patterns
NP-1RR

NP-1RR

A 9 inches
B 18 inches
C 20 M.O.A.
D Distance in Yards
E 4 M.O.A.
F 4 M.O.A.
G 8 M.O.A.

<table>
<thead>
<tr>
<th>Riflescope Model</th>
<th>Ranging Power</th>
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<tbody>
<tr>
<td>3.5-10x NXS</td>
<td>13x</td>
</tr>
<tr>
<td>5.5-22x NXS</td>
<td>22x</td>
</tr>
<tr>
<td>8-32x NXS and Bench</td>
<td>22x*</td>
</tr>
<tr>
<td>12.4x NXS and Bench</td>
<td>22x*</td>
</tr>
</tbody>
</table>

*Signified by an "*" on the Power Zoom Ring
NightForce Reticle Patterns
MIL-DOT

Suggested Use
Field tactical

<table>
<thead>
<tr>
<th>Telescope Model</th>
<th>Ranging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4x RMS</td>
<td>4x</td>
</tr>
<tr>
<td>2.5-10x RMS</td>
<td>10x</td>
</tr>
<tr>
<td>3.5-15x RMS</td>
<td>15x</td>
</tr>
<tr>
<td>5.5-22x RMS</td>
<td>22x</td>
</tr>
<tr>
<td>8-32x RMS and Benchmark</td>
<td>22x*</td>
</tr>
<tr>
<td>12-42x RMS and Benchmark</td>
<td>22x*</td>
</tr>
</tbody>
</table>

*Signified by an "F" on the Power Zoom Ring
NightForce Reticle Patterns
NP-R2

NP-R2

A 2 M.O.A.
B 5 M.O.A.
C 10 M.O.A.
D 2 M.O.A.
E 4 M.O.A.
F 60 M.O.A. @ 10x, 60 M.O.A. @ 15x, 40 M.O.A. @ 22x
G 40 M.O.A. @ 10x, 40 M.O.A. @ 15x, 30 M.O.A. @ 22x
H Line Thickness - .09 M.O.A. @ 10x, .06 M.O.A. @ 15x, .06 M.O.A. @ 22x

<table>
<thead>
<tr>
<th>Rifle Model</th>
<th>Ranging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5-10x NXS</td>
<td>10x</td>
</tr>
<tr>
<td>3.5-10x NXS</td>
<td>15x</td>
</tr>
<tr>
<td>5.5-22x NXS</td>
<td>22x</td>
</tr>
<tr>
<td>6-32x NXS and Barshot</td>
<td>22x*</td>
</tr>
<tr>
<td>13-42x NXS and Barshot</td>
<td>22x*</td>
</tr>
</tbody>
</table>

*Signified by an * on the Power Zoom Ring

Suggested Use
Field tactical, varmint, Long-range hunting
NightForce Reticle Patterns
NP-1

Measurements @ 22x
NightForce Reticle Patterns
NP-2DD

NP-2DD

<table>
<thead>
<tr>
<th>Reticle Model</th>
<th>Ranging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5-15x NOS</td>
<td>15x</td>
</tr>
<tr>
<td>5.5-32x NOS</td>
<td>22x+</td>
</tr>
<tr>
<td>8.32x NXS and Benchrest</td>
<td>22x+</td>
</tr>
<tr>
<td>11.42x NOS and Benchrest</td>
<td>22x+</td>
</tr>
</tbody>
</table>

*Sgnified by an "*" on the Power Zoom Ring

Suggested Use
Varmint, 1000 yard benchrest
NightForce Reticle Patterns
CH-3

Measurements @ 22x
NightForce Reticle Patterns
MLR & FC-2

**MLR**

The triangular aiming point under the circle can be used as a 10 M.O.A. holdover point from the center dot, and as a ranging tool in combination with the circle and dot.

**A** 10 M.O.A.

**B** 2 M.O.A. for 1-4x, 1.5
M.O.A. - for 2.5-10x

**C** 5 M.O.A.

**D** 5 M.O.A.

**E** 15 M.O.A.

**F** 40 M.O.A. for 1-4x, 30
M.O.A. for 2.5-10x

**G** Line Thickness = .50 M.O.A.
@ 4x, 30 M.O.A. @ 10x

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**Suggested Use**

CQB, hunting

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<table>
<thead>
<tr>
<th>Reticle Model</th>
<th>Ranging Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5-15x 40x5</td>
<td>15x</td>
</tr>
<tr>
<td>5.5-22x 40x5</td>
<td>22x</td>
</tr>
<tr>
<td>8.32x 40x5</td>
<td>22x*</td>
</tr>
<tr>
<td>12.42x 40x5</td>
<td>22x*</td>
</tr>
</tbody>
</table>

*Signified by an "X" on the Power Zoom Ring
NightForce Reticle Patterns
NP-R1

NP-R1

A 1 M.O.A.
B 2 M.O.A.
C 10 M.O.A.
D 5 M.O.A.
E 3.5-15x = 30 M.O.A.
   5.5-22x = 20 M.O.A.
F 2 M.O.A.
G 4 M.O.A.
H 2 M.O.A.
I 2 M.O.A.
J 70 M.O.A. @ 15x, 50 M.O.A. @ 22x
K 45 M.O.A. @ 15x, 35 M.O.A. @ 22x
L Line Thickness = .062 M.O.A.
M 2 M.O.A.
N 1 M.O.A.
David Tubb/Brand Cole DTAC Reticle Pattern
(inc. Aiming Dots/Mil Stadia, Density Altitude Graph, Range Calculation Graph)
David Tubb/Brand Cole DTAC Reticle Pattern @ 16x
(inc. Aiming Dots/Mil Stadia, Density Altitude Graph, Range Calc Graph, Cos/Sin Graph, Density Correction Graph)

From actual TEMP go UP to ELEVATION line then LEFT to DENSITY
Premier Reticle Patterns

#1 – German Post
#2 – Post & Crosshair

#3 – Dot & Crosshair
#4 – 3 Post & Crosshair

#5 – Duplex
#6 – Crosshair
Premier Reticle Patterns

#7 – CPC Tapering

#9 – Leupold Dot

#10 – Std Mil Dot

#10a – Modified Mil Dot

Gen 2 Mil Dot

Range Compensating
Premier Reticle Patterns
Premier Gen 2 Mil Dot

Gen 2 Mil-Dot
3-12x PMill
1st focal plane

<table>
<thead>
<tr>
<th>Units</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<tbody>
<tr>
<td>mr.a.d</td>
<td>10</td>
<td>0.75</td>
<td>0.15</td>
<td>0.2</td>
<td>0.06</td>
<td>0.5</td>
<td>1</td>
<td>0.06</td>
<td>0.06</td>
<td>5</td>
<td>2</td>
<td>0.56</td>
</tr>
<tr>
<td>ln/100yd</td>
<td>36</td>
<td>2.7</td>
<td>0.54</td>
<td>0.72</td>
<td>0.216</td>
<td>1.8</td>
<td>3.6</td>
<td>0.216</td>
<td>0.216</td>
<td>10</td>
<td>7.2</td>
<td>2.0</td>
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<tr>
<td>cm/100m</td>
<td>100</td>
<td>7.5</td>
<td>1.5</td>
<td>2</td>
<td>0.6</td>
<td>5</td>
<td>10</td>
<td>0.6</td>
<td>0.6</td>
<td>50</td>
<td>20</td>
<td>5.6</td>
</tr>
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</table>

not to scale
10/2007

52
Vortex Razor HD
EBR-556 Close Quarters Reticle

Configuration shown for 1-4x24 Vortex Razor HD 30mm Scope
Vortex Razor HD
EBR-2 MRAD Reticle

.2 mrad subtension marks

.5 mrad subtension marks

Fine Crosshairs
subtend .06 mrad

Heavy Crosshairs
subtend .08 mrad

Numbers indicate mrad
Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples

\[
\frac{\text{Target Size (Meters) x 1000}}{\text{mrad Read}} = \text{Range (Meters)} \\
\frac{\text{Target Size (Yards) x 1000}}{\text{mrad Read}} = \text{Range (Yards)} \\
\frac{\text{Target Size (Inches) x 27.77}}{\text{mrad Read}} = \text{Range (Yards)}
\]

Ranging a 6-foot figure (2 yards) at 4 mrad to get 500 yards.

\[
\frac{2 \times 1000}{4 \text{ mrad}} = 500 \text{ Yards}
\]
7.7 mrad reticle holdover correction for 800 yard shot using 7.62mm with 175 gr. SMK. No wind.
Vortex Razor HD
EBR-2 MRAD Reticle Ranging Examples

15 mph wind  Full value wind at 90 degrees

2.6 mrad reticle correction for 15 mph wind at 700 yards using 7.62mm with 175 gr. SMK. Elevation already dialed into turret.
4.2 mrad reticle windage correction for 20 mph wind at 800 yards with 7.62mm with 175 gr. SMK using 7.7 mrad reticle drop line.
2.74 mrad reticle correction for a figure walking 3 mph at a distance of 800 yards. 7.62mm with 175 gr. SMK. No wind. Total bullet time of flight from moment of trigger pull is 1.5 seconds during which the figure travels 6.6 feet. Elevation already dialed into turret.
IOR Valdada Reticle Patterns

HR5

MP-8 Dot

NATO

VRM Varmint
IOR Valdada Reticle Patterns

3x25

4A Dot

CQB-BDC

M Series CQB
# Zeiss Reticle Patterns

<table>
<thead>
<tr>
<th>Model</th>
<th>Non-Illuminated Reticles</th>
<th>Reticles With Illumination</th>
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<tbody>
<tr>
<td></td>
<td>image plane</td>
<td>4</td>
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<tr>
<td>Victory Diarange with reticle in the 2nd image plane</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Diarange</td>
<td>2.5–10x50 T*</td>
<td>2</td>
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<tr>
<td>Diarange</td>
<td>3–12x56 T*</td>
<td>2</td>
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<tr>
<td>Victory Varipoint with reticle in the 1st or 2nd image plane</td>
<td>1+2</td>
<td>1+2</td>
</tr>
<tr>
<td>Varipoint</td>
<td>1.1–4x24 T*</td>
<td>1</td>
</tr>
<tr>
<td>Varipoint</td>
<td>1.5–6x42 T*</td>
<td>1</td>
</tr>
<tr>
<td>Varipoint</td>
<td>2.5–10x42 T*</td>
<td>1</td>
</tr>
<tr>
<td>Varipoint</td>
<td>2.5–10x50 T*</td>
<td>1</td>
</tr>
<tr>
<td>Varipoint</td>
<td>3–12x56 T*</td>
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<tr>
<td>Victory Diavari with reticle in the 1st image plane</td>
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<td>1</td>
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<tr>
<td>Diavari</td>
<td>1.5–6x42 T*</td>
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<tr>
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<td>2.5–10x42 T*</td>
<td>1</td>
</tr>
<tr>
<td>Diavari</td>
<td>2.5–10x50 T*</td>
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<tr>
<td>Diavari</td>
<td>3–12x56 T*</td>
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<tr>
<td>Victory Diavari with reticle in the 2nd image plane</td>
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<td>2</td>
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<tr>
<td>Diavari</td>
<td>6–24x56 T*</td>
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<td>Diavari</td>
<td>6–24x72 T* FL</td>
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<td>Conquest</td>
<td>1.8x–5.5x38 MC</td>
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<td>2.5–8x32 MC</td>
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<td>4x32 MC</td>
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<td>3–9x40 MC</td>
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<td>3.5–10x44 MC</td>
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<td>4.5–16x44 MC</td>
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<tr>
<td></td>
<td>3–9x50 MC</td>
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<td></td>
<td>3.5–10x50 MC</td>
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<td>4.5–16x50 MC</td>
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<td>6.5–20x50 MC</td>
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<tr>
<td></td>
<td>3–12x56 MC</td>
<td>1</td>
</tr>
</tbody>
</table>

*T* = Carl Zeiss T* multi-coating. FL = Fluoride Glass. 4* illuminated Reticles for Daytime and Twilight.
Zeiss Reticle Patterns

Reticle 0

Reticle 4

Reticle 8

Reticle 20 Z-Plex

Reticle 40

Reticle 43
Zeiss Reticle Patterns

Reticle 44

Reticle 56

Reticle 60

Reticle 66
Zeiss Rapid-Z Reticle Patterns

RAPID - Z® 600

RAPID - Z® 800
Zeiss Rapid-Z Reticle Patterns

RAPID - Z® 1000  RAPID - Z® 1200

RAPID – Z® VARMINTER
Hensoldt Reticle Patterns

Hensoldt Range Finding Mil Dot

Hensoldt SSG - P
Leupold Reticle Patterns

- Standard Duplex
- Fine Duplex
- Illuminated Duplex
- CPC
- Leupold Dot
- Target Dot
- Crosshair
- German #1
- German #4
- Illuminated German #4
- Post & Duplex
- Heavy Duplex
- Boone & Crockett
- Varmint Hunter’s
- Wide Duplex RE
- Illuminated Mil Dot
- VX-III Illuminated Circle Dot (when illuminated)
- Tactical Milling
- Special Purpose
- CQ/T Illuminated Circle Dot (when illuminated)
Leupold Reticle Pattern
Tactical Milling Reticle

TACTICAL MILLING RETICLE MEASUREMENTS

| @100 Meters | 5.0 mil = 18.000" | 0.20 mil = 0.720" |
|             | 1.0 mil = 3.600"  | 0.15 mil = 0.54"  |
|             | 0.5 mil = 1.800"   | 0.10 mil = 0.360"  |
|             | 0.4 mil = 1.400"   | 1.0 mil = 3.438 Minutes of Angle = 3.600" |
Leupold Reticle Patterns
(Detail – Boone & Crockett Reticle)

<table>
<thead>
<tr>
<th>RANGE</th>
<th>LARGE ▼ BULLET DROP</th>
<th>SMALL ▼ BULLET DROP</th>
<th>10 MPH DRIFT</th>
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</thead>
<tbody>
<tr>
<td>200 yd MOA</td>
<td>0.00</td>
<td>0.00</td>
<td>—</td>
</tr>
<tr>
<td>200 yd inches</td>
<td>0.00</td>
<td>0.00</td>
<td>—</td>
</tr>
<tr>
<td>300 yd MOA</td>
<td>2.19</td>
<td>2.74</td>
<td>2.16</td>
</tr>
<tr>
<td>300 yd inches</td>
<td>6.88</td>
<td>8.61</td>
<td>6.79</td>
</tr>
<tr>
<td>400 yd MOA</td>
<td>4.80</td>
<td>6.00</td>
<td>3.03</td>
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<tr>
<td>400 yd inches</td>
<td>20.11</td>
<td>25.13</td>
<td>12.69</td>
</tr>
<tr>
<td>450 yd MOA</td>
<td>6.26</td>
<td>7.83</td>
<td>—</td>
</tr>
<tr>
<td>450 yd inches</td>
<td>29.50</td>
<td>36.87</td>
<td>0.00</td>
</tr>
<tr>
<td>500 yd MOA</td>
<td>7.82</td>
<td>9.775</td>
<td>—</td>
</tr>
<tr>
<td>500 yd inches</td>
<td>40.95</td>
<td>51.18</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Holdover Diagram

5.56 X 45MM
62gr. 2800 FPS

7.62 X 51MM
RIFLE
175gr. 2600 FPS

350 METERS
550 METERS
650 METERS
750 METERS
850 METERS

15m

APPROXIMATE HOLD OVER VALUES
ACTUAL VALUES WILL
VARY BY +/- 20 METERS
Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Subtensions Diagram

CENTER DOT IS 0.30 MILS

2.5 MILS

5.0 MILS

DETAIL

ALL FINE LINES ARE 0.10 MILS

0.30 MILS

0.50 MILS
Leupold Reticle Patterns
Tactical Special Purpose Reticle (SPR)
Range Estimating Methods
ART 21 MOA Reticle
Ranges in MOA or MILS
ART 24 MOA Reticle
Ranges in MOA or MILS
ART 24 MOA Bar-Dot Reticle
Ranges in MOA or MILS
ART 30 MOA Reticle
Ranges in MOA or MILS
ART ULTIMATE MIL Reticle
Ranges in MILS
Super Sniper CQB Tactical Reticles
Super Sniper Long Range Tactical Reticle
Swarovski Reticle Patterns

- 4
- 4A
- 7A
- 24
- PLEX
- TDS Plex

- TDS 4
- DOT
- Cross Hair
- Plex N (IR)
- 4N
- 4NK

- HG Circle Dot
- HG Dot

Bushnell Reticle Patterns

- Holo Sight
- 3-2-1 Low Light Reticle
- Circle X
- Mulit X
Kahles Reticle Patterns

4A

7A

Plex

Illuminated Reticle 4NK

Illuminated Reticle PlexN

TD Smith Reticle

C-Dot

D-Dot

P-Dot

CSX Illuminated Reticles

4-Dot
Nikon Reticle Patterns

Nikoplex (Duplex)  Fine Crosshair

Target Dot  German #4

Mildot  Turkey Pro
Misc. Reticle Patterns

S&B P4

I.O.R. MP-8
Misc. Reticle Patterns

AI Mil Dot

ACCURACY INTERNATIONAL MilDot
Misc. Reticle Patterns
Meopta Meostar R1 Scope Reticle
Misc. Reticle Patterns
Brugger & Thomet TRS

B&T TRS Reticle Pattern.
Distance dot to dot = 100 mm/100m.

Range estimation scale for 1 m reference height at 800 m, 400 m, 600 m and 1200 m (from left to right).
Misc. Reticle Patterns
(Pride/Fowler Rapid Reticle)
Misc. Reticle Patterns
(Firefield Russian POSP Reticle)
Misc. Reticle Patterns
(Huskemaw Long Range Reticle)

Hunt Smart Reticle. MOA subtensions for 10X magnification. Halve values for 20X.
Misc. Reticle Patterns
(HK G36 Style & Optisan Momba .223 BDC)

HK G36

Lead mark for firing at targets moving from left to right at a speed of approximately 15 km/h at a range of 200 meters

Optisan Momba BDC
Misc. Reticle Patterns
(Burris & Mueller)

- Multi-X Reticle
- Circle X Reticle
- Plex
- Mil-Dot
- Ballistic Mil-Dot

2-7X32 (Circle 15"/40 Yds)
3-9X40, 3-10X44, 4-16X50
8.5-25X50

<table>
<thead>
<tr>
<th>Scope</th>
<th>Dot Size 100 Yds</th>
<th>Adj. Per Click</th>
<th>Brightness Settings</th>
<th>FOV 100 Yds</th>
<th>Wt. (oz)</th>
<th>Length (inch)</th>
<th>Eye Relief</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-7X32mm Red Dot</td>
<td>1 MOA</td>
<td>1/4&quot;</td>
<td>11</td>
<td>47-18&quot;</td>
<td>13.3</td>
<td>11.3</td>
<td>3.25</td>
</tr>
<tr>
<td>3-9X40 Red Dot</td>
<td>1/8 MOA</td>
<td>1/8&quot;</td>
<td>11</td>
<td>39-13&quot;</td>
<td>14</td>
<td>13</td>
<td>3.25&quot;</td>
</tr>
<tr>
<td>3-10X44 Red Dot</td>
<td>1/8 MOA</td>
<td>1/8&quot;</td>
<td>11</td>
<td>40.8-12.8&quot;</td>
<td>15.2</td>
<td>13.1</td>
<td>3.25&quot;</td>
</tr>
<tr>
<td>4-16X50AO Red Dot</td>
<td>1/8 MOA</td>
<td>1/8&quot;</td>
<td>11</td>
<td>30.6-7.5&quot;</td>
<td>19.7</td>
<td>14.53</td>
<td>3.25&quot;</td>
</tr>
<tr>
<td>8.5-25X50mm AO Red Dot</td>
<td>1/16 MOA</td>
<td>1/8&quot;</td>
<td>11</td>
<td>18.8-6.3&quot;</td>
<td>20.8</td>
<td>15.53</td>
<td>3.00&quot;</td>
</tr>
</tbody>
</table>
Misc. Reticle Patterns
(Tasco, Hakko ElectroDot, Weaver)

30/30 Stadia 30/30 TV True MilDot Red Dot

Hakko Multi-Reticle (MR-02 pattern)

Weaver Dual-X Reticle

Weaver DOT Reticle

Weaver Varminter Reticle
Misc. Reticle Patterns
(Leatherwood Auto/Range Reticle)
INFO - US ARMY MILDOT RETICLE

INFO - USMC MILDOT RETICLE
## MIL DOT RETICLE MEASUREMENTS

### @ 100 YARDS

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Conversion</th>
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</thead>
<tbody>
<tr>
<td>1 mil</td>
<td>3.600&quot;</td>
</tr>
<tr>
<td>0.9 mil</td>
<td>3.240&quot;</td>
</tr>
<tr>
<td>0.8 mil</td>
<td>2.880&quot;</td>
</tr>
<tr>
<td>0.5 mil</td>
<td>1.800&quot;</td>
</tr>
<tr>
<td>0.2 mil</td>
<td>0.720&quot;</td>
</tr>
</tbody>
</table>

1 mil = 3.438 Minutes of Angle = 3.600"
MIL DOT RETICLE HOLDOVER CONCEPT

MIL DOT HOLDOVER VALUES

MK 262 MOD 0/1 AA53
5.56mm 77gr.

M118LR AA11
7.62mm 175gr.

200 METERS
300 METERS
400 METERS
500 METERS

APPROXIMATE HOLDOVER VALUES
ACTUAL VALUES WILL
VARY BY +/-25 METERS
THESE HOLDOVERS CAN BE
APPLIED TO ANY CARTRIDGE
MIL DOT RETICLE HOLDOVER CONCEPT

APPROXIMATE HOLDOVER VALUES
ACTUAL VALUES WILL
VARY BY +/- 25 METERS

300 Win mag, 190gr, 2900fps, A191

.338 Lapua, 250gr, 2750fps

200 METERS
300 METERS
400 METERS
500 METERS
600 METERS
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- Burris
- Zeiss Optics
- Hensoldt
- Mueller
- IOR Valdada
- Nikon
- Weaver
- Leupold
- Kahles
- NightForce
- Swarovski
- Leatherwood
- Pride Fowler
- Vortex Razor
- Darrell Holland’s ART Reticles
- Huskemaw Scopes
- Super Sniper Scopes
- Meopta
- Firefield
- Optisan