Instructions for Lynx P3-9x42(N) Riflescope

Distance Chart

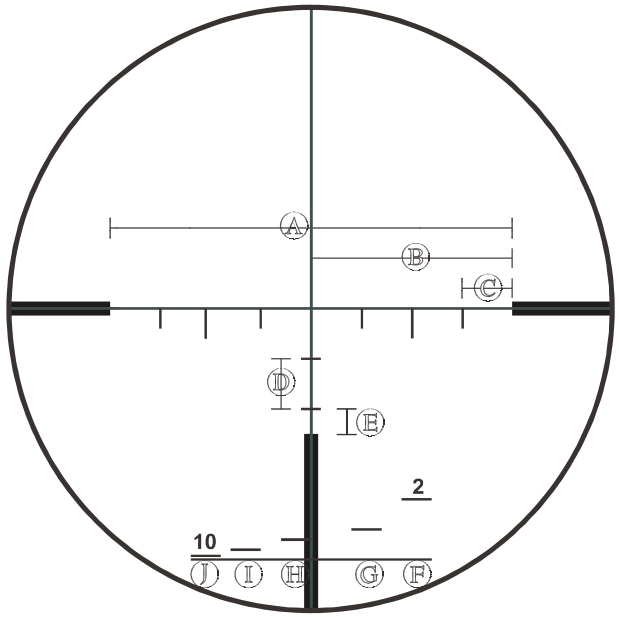
Diagram Marking No.→	Dist. to t arget with each graticule marking (F)	(G)	(H)	(I)	(J)
100mm	20m	40m	60m	80m	100m
200mm	40m	80m	120m	160m	200m
300mm	60m	120m	180m	240m	300m
400mm	80m	160m	240m	320m	400m
500mm	100m	200m	300m	400m	500m
600mm	120m	240m	360m	480m	600m
700mm	140m	280m	420m	560m	700m
800mm	160m	320m	480m	640m	800m
900mm	180m	360m	540m	720m	900m
1000mm	200m	400m	600m	800m	1000m
1500mm	300m	600m	900m	1200m	1500m
2000mm	400m	800m	1200m	1600m	2000m
- Size of T arget					

Animal	Shoulder height	If shoulder height fits into (D) on diagram 3x	4x	6x	8x	9x	If shoulder height fits into (E) on diagram 3x	4x	6x	8x	9x
Warthog	650mm	41m	54m	81m	108m	122m	81m	108m	163m	217m	244m
Springbok	750mm	47m	63m	94m	125m	141m	94m	125m	188m	250m	281m
Bosbok	800mm	50m	67m	100m	133m	150m	100m	133m	200m	267m	300m
Roolbok / Impala	900mm	56m	75m	113m	150m	169m	113m	150m	225m	300m	338m
Blesbok	950mm	59m	79m	119m	158m	178m	119m	158m	238m	317m	356m
Nyala	1120mm	70m	93m	140m	187m	210m	140m	187m	280m	373m	420m
Waterbuck / Gemsbok	1200mm	75m	100m	150m	200m	225m	150m	200m	300m	400m	450m
Sable	1350mm	84m	113m	169m	225m	253m	169m	225m	338m	450m	506m
Koedoe	1400mm	88m	117m	175m	233m	263m	175m	233m	350m	467m	525m
Blouwilderbees	1500mm	94m	125m	188m	250m	281m	188m	250m	375m	500m	563m
Eland	1700mm	106m	142m	213m	283m	319m	213m	283m	425m	567m	638m

Animal	Shoulder height	If shoulder height fits into (F) on diagram 3x	4x	6x	8x	9x	If shoulder height fits into (G) on diagram 3x	4x	6x	8x	9x
Warthog	650mm	65m	87m	130m	173m	195m	130m	173m	260m	347m	390m
Springbok	750mm	75m	100m	150m	200m	225m	150m	200m	300m	400m	450m
Bosbok	800mm	80m	107m	160m	213m	240m	160m	213m	320m	427m	480m
Roolbok / Impala	900mm	90m	120m	180m	240m	270m	180m	240m	360m	480m	540m
Blesbok	950mm	95m	127m	190m	253m	285m	190m	253m	380m	507m	570m
Nyala	1120mm	112m	149m	224m	299m	336m	224m	299m	448m	597m	672m
Waterbuck / Gemsbok	1200mm	120m	160m	240m	320m	360m	240m	320m	480m	640m	720m
Sable	1350mm	135m	180m	270m	360m	405m	270m	360m	540m	720m	810m
Koedoe	1400mm	140m	187m	280m	373m	420m	280m	373m	560m	747m	840m
Blouwilderbees	1500mm	150m	200m	300m	400m	450m	300m	400m	600m	800m	900m
Eland	1700mm	170m	227m	340m	453m	510m	340m	453m	680m	907m	1020m

Lynx Optics (Pty) Ltd.
PO Box 98078,
Sloane Park,
South Africa, 2152.
Tel: +27 (0) 11 792-6644 Fax: (0) 1 1 792-8923
email: info@lynx.co.za visit: www .lynx.co.za

1.0 -- Copyright © 2003 Lynx Optics (Pty) Ltd.



Lynx P3-9x42NDT riflescopes have NATO aiming graticules for target ranging purposes.

Target ranging has to be done at specific magnifications and a complete list of these can be found overleaf. However, for convenience sake, the magnification control ring is click-stopped at 6x power allowing the user to select that magnification from the shooting position without taking his eye off the target.

The windage and elevation controls are finger-adjustable in ¼ minute clicks and thus are adaptable for bullet drop compensation from the shooting position.

In other respects the P3-9x42NDT is identical to the Lynx Professional Monotube model P3~9x42D—one of the most popular hunting riflescopes ever offered for sale in Southern Africa; the adjustable power range of these scopes from 3x to 9x magnification renders them suitable for hunting conditions varying from close range bushveld to open veld shooting to a distance of about 450 metres.

A list of shoulder heights of South Africa's most popular game animals is listed overleaf to assist the adaptation of the NATO graticule for hunting purposes.

The circled letters (F) to (J) on the graticule diagram on this page facilitate easy range determination.

The scale in the lower portion of the reticle uses a similar but simplified technique to the mil-dot system to determine the range to a target of known size. An object fitting between the horizontal baseline of the reticle range-finding scale and the #2 range indicator (the small line inscribed above the baseline marked 2) is (2 ´ height_of_target ´ 1000) distant. An object fitting the range indicator to the left of that is double that distance (i.e. 4 ´ height_of_target ´ 1000), the next one is triple that (i.e. 6 ´ height of target ´ 1000), the next is quadruple (i.e. 8 ´ height_of_target´ 1000) and the last range indicator (marked 10) is (10 ´ height_of_target ´ 1000). This system works regardless of the unit of measure used. However these instructions will only cover targets sizes given in millimetres.

The following figures apply for the NATO graticule at 6x for a target distance of 200 metres.

(A) Target is 4 metres wide
(B) Target is 2 metres wide
(C) Target is 0.5 metres wide
(D) Target is 0.8 metres high
(E) Target is 0.4 metres high

(F) Target is 1 metre high
(G) Target is half of (e) i.e. 0.5 metre
(H) Target is one third of (e) i.e. 0.33 metre
(I) Target is one quarter of (e) i.e. 0.25 metre
(J) Target is one fifth of (e) i.e. 0.2 metre

For a target size of 1 metre, the following figures apply for the NATO graticule scale at 6x.

(F) Target is 200 metres away.
(G) Target is 400 metres away.
(H) Target is 600 metres away.
(I) Target is 800 metres away.
(J) Target is 1 Kilometre away.

The range finding graticule allows you to easily determine the distance of an object of known height; for example if an object 1 metre tall fills the space marked (F) it is 200 metres away, if the same object fills the space marked (G) it is 400 metres away , if the same object fills the space marked (H) it is 600 metres away. The graticule diagram and distance chart overleaf indicates some more examples.

Please note that all figures quoted here are given for a scope set to 6x magnification. In order to convert these range figures to another power, apply a divisor of (6 ÷ P) to the given range (where P is the scope's power at the time of the reading).

For examples 1 and 2 below we assume a target 1000mm tall fills the space marked (F) on the graticule diagram. Taking this 1000mm target through a scope set at...

1. 6x magnification: 6 ÷ 6 = 1
   The target would be (distance at 6x) × 1 times the distance of the same target read at 6x magnification (i.e. 200m × 1 = 200m).
2. 9x magnification: 6 ÷ 9 = 0.667.
   The target would be (distance at 6x) × 0.667 times the distance of the same target read at 6x magnification (i.e. 200m × 0.667 = 300m).
3. 3x magnification: 6 ÷ 3 = 2.
   The target would be (distance at 6x) × 2 times the distance of the same target read at 6x magnification (i.e. 200m × 2 = 100m).
4. 4x Magnification 6 ÷ 4 = 1.5
   If a target known to be 900mm tall fills space marked (g) on the diagram overleaf, the target would be (distance at 6x) × 1.5 times the distance of the same target read at 6x magnification. (i.e. 540m × 1.5 = 360m).

If the target does not fit precisely between any of the range determining lines on the graticule, vary the magnification up or down until it does and read the scope's magnification setting on the power change ring. Apply this magnification figure to the formula above.