LEUPOLD

RX®-1400i TBR®/W
DIGITAL LASER RANGEFINDER

Complete Operating Instructions
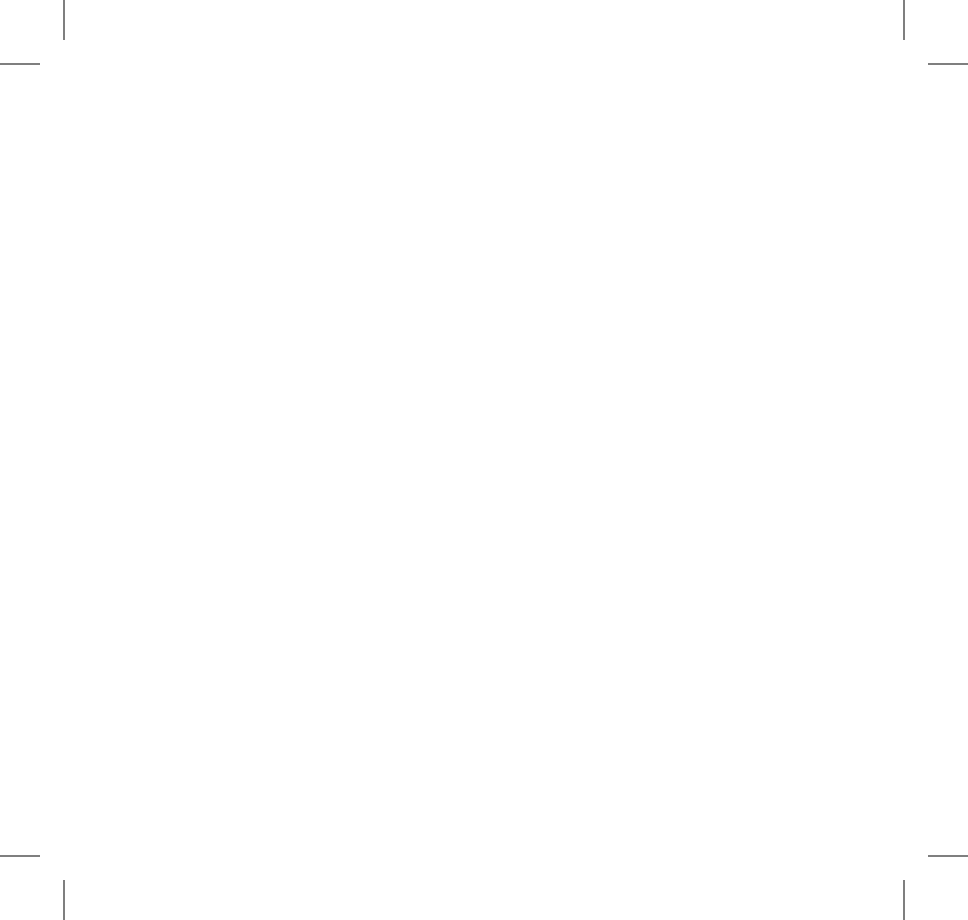
DNA

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A newer version of this manual may be available
for download from Leupold.com.

**Please take a few minutes to register your product
at leupold.com/register.**

INTRODUCTION

Congratulations! You have purchased a Leupold® RX®-1400i TBR/W digital laser rangefinder that has been designed by Leupold's engineers and designers to provide you with years of accurate performance in the field. Following are detailed instructions regarding the proper use and employment of your RX-1400i TBR/W rangefinder. To ensure top performance for the life of the product, please read these instructions before operating your RX-1400i TBR/W. This manual will provide you with all the information needed to properly operate and obtain years of beneficial use from the RX-1400i TBR/W. Keep it in a safe place and refer to it as needed. Your new Leupold RX-1400i TBR/W digital laser rangefinder is a range-finding device that incorporates advanced digital electronics with ballistic algorithms. The Digitally eNhanced Accuracy™ (DNA®) engine incorporates additional signal processing techniques to generate better ranging distances with more accurate rangefinding. The RX-1400i TBR/W features an incredibly bright red TOLED display, inclinometer, and True Ballistic Range/Wind (TBR/W) functionality. Our TBR algorithms were developed by the same engineers who developed Sierra Infinity® Exterior Ballistics Software, and who helped develop navigation and guidance systems for ICBMs and other missiles with far more demanding

trajectory requirements than a hunting bullet. TBR is a marriage of laser ranging, an inclinometer, and an advanced computerized ballistics program. The result is distance measurements accurate to less than a yard, no matter the angle at which the laser is fired. Bullets and arrows travel in a ballistic arc, yet conventional rangefinders only provide a linear or horizontal distance to your target. TBR delivers the ballistic equivalent range to the target, accounting for the effects of inclines or declines on the path of your bullet or arrow. For rifle shooters, the Leupold team has added to the TBR functionality by adding wind hold calculations that will provide a fixed 10 MPH full wind value. Other features that are provided for firearms are shoot-to-distance, MOA and MIL adjustments, or inch/cm holdover. TBR/W eliminates any potentially significant error and provides a precise range for your aiming calculations. TBR is matched to each of twenty-five firearm ballistics groups, allowing use with most popular firearms.

HOW THE RX-1400i TBR/W WORKS

The RX-1400i TBR/W is a top-quality 5x21mm monocular that incorporates the additional benefit of a laser rangefinder capable of measuring the distance of a deer-sized animal from 5 yards to 900 yards, an inanimate object from 5 yards to 1,200 yards, and a reflective target from 5 yards to 1,400 yards. It emits a series

of invisible, infrared energy pulses that are reflected off the selected target back to the optical unit. State-of-the-art circuitry and precision computing circuits are used to calculate the distance by measuring the time it takes for each pulse to travel from the RX-1400i TBR/W to the object and back.

SAFETY AND OPERATION PRECAUTIONS

The Leupold RX-1400i TBR/W 5x21mm employs an IEC Class 3R laser. Even so, there are a few precautions that are important to remember:

- Do not depress the POWER button while aiming at a human eye or while looking into the optics from the objective side.

- Do not leave the RX-1400i TBR/W within the reach of small children.

- Do not take the product apart as it has a self-protection device in the electronic control module and may cause an electric shock.

- Do not attempt to use any power source other than a CR2 battery (or equivalent) — the RX-1400i TBR/W is designed to prohibit accessing any other external power supply.
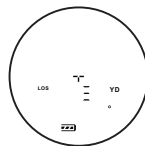
- Make sure the laser beam does not strike any highly reflective surfaces

- Read this instruction manual in its entirety before using this rangefinder. If the product is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

- When you see the display through the eyepiece, please be aware that the product is active and emitting an invisible laser and the laser aperture should not be pointed toward anyone.
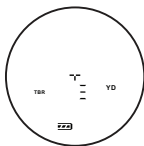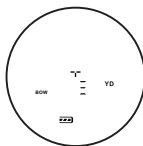
TBR Display   BOW Display   LOS Display

(Display as seen through the eyepiece)

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Below is the laser safety label you will find attached to the rangefinder.

GEN2 **CLASS 3R LASER PRODUCT INVISIBLE LASER RADIATION AVOID DIRECT EYE EXPOSURE**
This product complies with IEC 60825-1: 2014-05 Ed. 3.0 and complies with
FDA performance standards for laser products except for conformance with
IEC 60825-1 Ed.3. as described in Laser Notice No.56, dated May 8,2019.
Pp<21W. λ:895-915nm. tw:22ns.
LEUPOLD & STEVENS, Inc, 14400 NW Greenbrier Parkway, Beaverton, OR 97006

FEATURES AT A GLANCE

- Laser Radiation: IEC Class 3R
- Measurement Range: 5 yds – 1,400 yds
- Measuring Time: Less than 1 second
- Menu setup will power off after 20 seconds, normal ranging will power off after 7 seconds.
- Power: CR2 battery or equivalent
- Battery Life: At least 3,000 measurements
- The RX-1400i TBR/W is waterproof.

POWER   FOCUS

MODE   BATTERY

READING THE INTERNAL DISPLAY

The display can be manually switched between ranging modes, as measured in meters (M) or yards (YD), or used to obtain distance while simultaneously viewing the target. (The RX-1400i TBR/W can also simply be used as a 5x monocular without activating the display.)

Internal display as seen through the RX-1400i TBR/W after the power button is pressed - Allows you to confirm the output settings or load that is actively selected in the rangefinder.
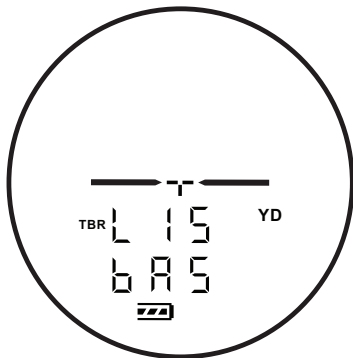
BATTERY POWER STATUS INDICATOR

To determine your battery's power level, look for the following indicators:

FULL – A full battery bar indicates your battery is at or near peak capacity.

HALF – A half-full bar indicates your battery has reached half-capacity.

LOW – The battery is nearing the end of its life and should be replaced.

NO POWER – If the battery bar is empty, and there is no data displayed above the bar, your battery is dead, and you must replace it. The battery status bar will flash, and the unit will shut down when no power remains.

MEASURING DISTANCE WITH THE RX-1400i TBR/W

Measurement of distance with the RX-1400i TBR/W is a very simple operation:

• View the object of interest through the monocular.

• Press the POWER button to power up the unit.

• Align the reticle over the object being viewed.

• Press the POWER button again to activate the laser.

• Read the distance as shown in the image field.

CONTINUOUS MEASUREMENT OF A MOVING TARGET/ SCAN MODE:

Follow the instructions for "Measuring distance…" as explained previously.

Once the target has been measured, continue to hold down the POWER button and follow the object as it moves.

The distance will automatically update as long as the POWER button is continuously pressed.

This procedure can also be used to obtain the range of multiple animals or objects; simply move the reticle from one target to another while holding down the POWER button.

CLEARING THE LAST DISTANCE OBTAINED:

The last range reading does not need to be cleared before reading another object's distance. For that reason, there is no reset button. Simply aim at the new object using the reticle, depress the POWER button, and hold until the new range is displayed.

The ranging accuracy of the Leupold RX-1400i TBR/W rangefinder is ± 0.5 yards/meters at distances less than 125 yards/meters, while the accuracy beyond 125 yards/meters is ± 2 yards. The maximum range of the unit depends on the reflectivity of the target and atmospheric conditions.

Following is a reference table listing the ranges of the RX-1400i TBR/W under different conditions:

TYPICAL MAXIMUM RANGE		
CONDITION	YARDS	METERS
Reflective Target	1,400	1280
Trees	1,200	1097
Deer	900	823

The surface texture, color, size, and shape of the target all affect reflectivity, which in turn affects the maximum range of the instrument. As a rule of thumb, brightly colored targets are much more reflective than darker targets. Tan game coats are more reflective (and thus provide a more solid reading) than a black roof. A shiny surface is more reflective than a dull surface.

Smaller targets are more difficult to range than larger targets. Light conditions, haze, fog, rain, and other environmental conditions can all affect ranging performance. Any factor which degrades air clarity will reduce the maximum effective range. The sun generates infrared energy that can degrade ranging performance in bright conditions or when ranging towards the sun.

SPECIFICATIONS

The RX-1400i TBR/W provides a variety of useful modes to tailor performance to the conditions you experience in the field. Model features are identified on the following pages.

	RX-1400i TBR/W
Magnification	**5×**
Inclinometer	**Yes**
True Ballistic Range/Wind (TBR/W)	**Yes**
Bow Mode	**Yes**
Line of Sight Distance (LOS)	**Yes**
Bright Red TOLED Display	**Yes**
Last Target Mode	**Yes**
Yards / Meters Mode	**Yes**
Scan Mode	**Yes**
Battery Life	**>3,000 Actuations**
Weight	**5.1 oz**
Dimension (Inches)	**3.9 x 3 x 1.4**
Battery Status Indicator	**Yes**
Warranty	**2 Years**
Waterproof	**Yes**

OPERATION
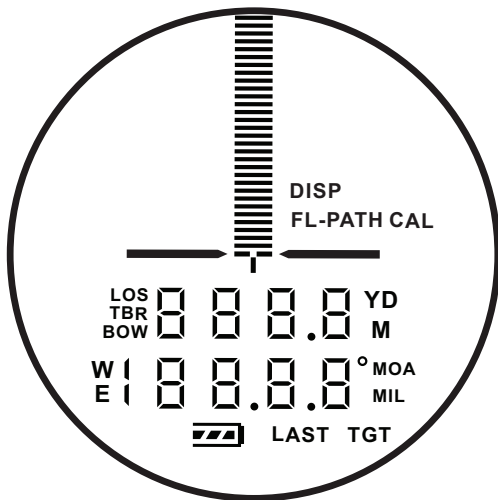
Display shown with all possible segments visible

QUICK SET MENU™

When you initially press the POWER button, the unit is ready for ranging.

To enter the Quick Set Menu, press and hold the MODE button for at least 1 second. To manipulate a function, press and release the MODE button until the desired function is displayed, then use the POWER button to change the setting. If this is the last function to be changed, you can allow the rangefinder to sit idle for 30 seconds which will cause an automatic power-off, saving all selections. If additional functions require manipulation, simply press and release MODE to continue through the Quick Set Menu. Pressing and holding MODE for 1 second at any time will save all changes, exit the Quick Set Menu, and prepare the rangefinder for immediate use.

NOTE: *Activating certain modes automatically disables other modes. For example, activating the yards mode will automatically deactivate the meters mode.*

To reset your RX-1400i TBR/W to factory settings, Press POWER to activate the rangefinder, press and hold MODE, then press and hold POWER. A 10-second countdown timer will appear; factory reset will occur after 0 has been reached.

FUNCTION 1: OUTPUT - TBR, BOW, OR LOS
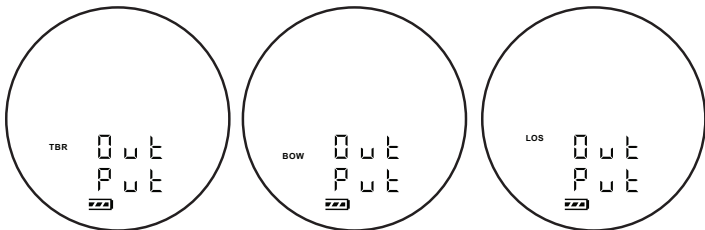
To activate TBR, BOW, or LOS mode, press the POWER button, then press the MODE button for at least 1 second and release to enter the menu. While "Out Put" is shown in the display, press and release the POWER button to rotate through TBR, BOW, and LOS modes. Once the desired mode is displayed, press the MODE button.

TBR FOR RIFLE USERS

TBR calculates the equivalent horizontal range (level fire range) from which you can determine the correct aim for the conditions. For example, if you are shooting a .270 caliber 130 grain bullet at 3,050 feet per second up a 30° incline at 400 yards, direct line of sight, the TBR output will be 367 yards. Anytime you handle a firearm or bow, you are ultimately responsible for your projectile.

TBR (TRUE BALLISTIC RANGE): RIFLE

400 yards (line of sight) at 30° incline
Aim as if the target is 367 yards away

TBR 367 YD
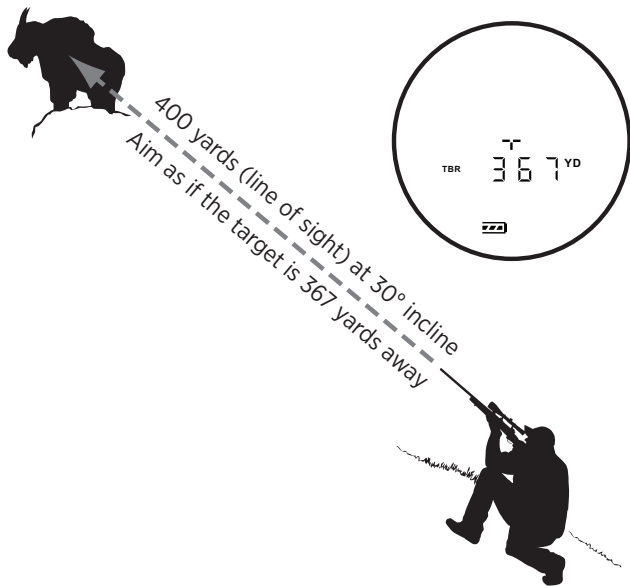
FUNCTION 2: SETTINGS - BAS, HOLD, MIL, MOA, OR TRIG

For rifle users, scope adjustment or holdover information can also be displayed. The available settings are as follows:

BAS outputs the equivalent horizontal range, HOLD displays the inches or centimeters (depending on the unit of measure selected) to holdover the intended point of impact, MIL displays the number of milliradians to holdover the intended point of impact, and MOA displays the minute of angle correction. TBR for rifle settings is effective to 800 yards for most cartridges. For rifle users, TBR mode is comprised of five functions: BAS, HOLD, MIL, MOA, and TRIG. One of these modes must be selected. To select the desired function, rotate through the output until TBR is reached (activate if necessary). While the TBR icon is highlighted and the word "SEt" is shown in the upper row, pressing POWER repeatedly will scroll through BAS, HOLD, MIL, MOA, and TRIG respectively; press MODE when the desired function is displayed. For information regarding BOW and LOS settings, please see page 20.

BAS displays the equivalent horizontal range, which is based upon the angle of your shot and your selected ballistics group. This is the range you will want to use when shooting, rather than the line-of-sight distance, which may contain gross errors depending upon the shot angle. In the example to the left, the equivalent horizontal range is 484 yards.

HOLD indicates the appropriate amount of inches/centimeters holdover to use, which is based upon the angle of your shot and your selected ballistics group. The upper row shows the line-of-sight distance to the target. In the example to the left, the line-of-sight distance is 484 yards, and the lower row suggests that you should hold 51 inches above your intended point of impact. If the RX-1400i TBR/W is set to range in meters, the appropriate holdover will be shown in centimeters.

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MIL displays the appropriate amount of holdover in milliradians to use, which is based upon the angle of your shot and your selected ballistics group. The upper row shows the line-of-sight distance to the target. The lower row shows the appropriate number of MIL to hold over or under. In the example to the left, the line-of-sight distance is 484 yards, and the lower row indicates that you should hold 2.9 MIL above your intended point of impact. Holdover values will be displayed in MIL for both yards and meters modes.

MOA shows the minute-of-angle adjustment for your target, which is based upon the angle of your shot and your selected ballistics group. The upper row shows the line-of-sight distance to the target. The lower row shows the appropriate number of MOA to adjust over or under your target. In the example to the left, the line-of-si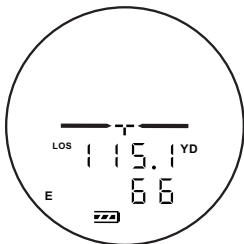ght distance is 517 yards, and the lower row indicates that you should dial the scope up 10.25 MOA to account for bullet drop. Scope corrections will be displayed in MOA for both yards and meters modes.
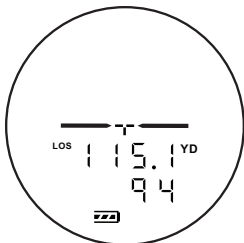
(cosine)

(sine)

TRIG, a function that is included to support tradesmen and sportsmen, displays the true horizontal range and true vertical range, which is based upon trigonometry using angle and line-of-sight distance. Line-of-sight distance (LOS) readings will be displayed in the upper row. The lower row will briefly show the true horizontal distance (cosine), then the absolute value of the true vertical distance (sine). Have you ever wondered if that leaning tree would hit your home or tent if it fell? Measure the height by obtaining the true vertical distance and then measure the distance from your house or tent to the tree.

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BOW

This mode works with TBR to provide the equivalent horizontal range (level fire range) for arrows. The displayed range represents the ballistically equivalent horizontal distance to the target if the target is 175 yards or less. If the target is farther than 175 yards (160 meters), LOS will flash indicating the unit has exceeded its maximum BOW range and is displaying line-of-sight distance only.

LINE OF SIGHT

LOS provides the straight-line distance to the target without accounting for shot angle or specific ballistics. The upper row of characters shows LOS distance, while the lower row shows the angle to the target. The example shown represents a -15° downhill angle.

TBR (TRUE BALLISTIC RANGE): ARCHERY

40 yards (line of sight) at 40° decline
Aim as if the target is 34.2 yards away

BOW 34.2 YD
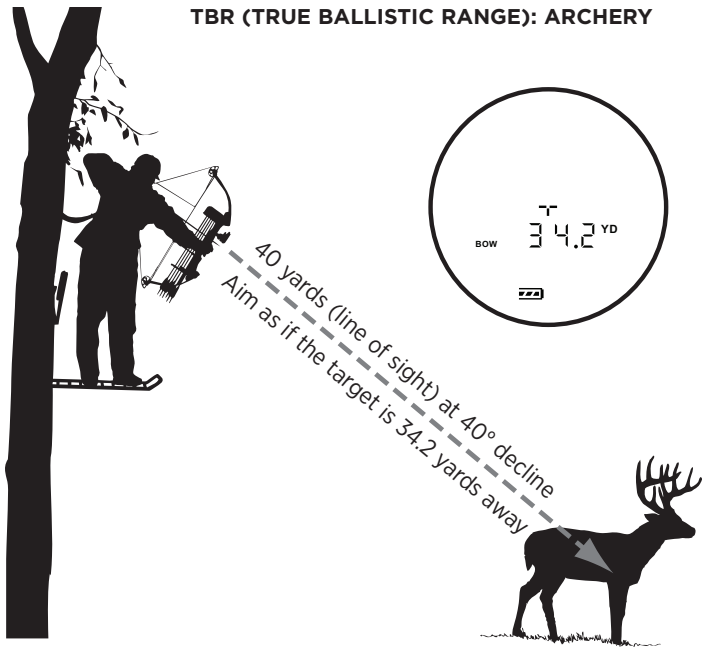
FUNCTION 3: TWENTY-FIVE RIFLE BALLISTICS GROUPS

TBR includes ballistics settings for twenty-five cartridge groups, which are displayed as 1 through 25 and specifically formulated for the four functions of TBR. For example, if your load is in Group 3, the displayed reading will account for the shot angle and provide the proper distance for holdover purposes (see the following chart). You must choose one of the twenty-five groups based on your load and ballistics information. The load table shows a common assortment of factory loads organized in their TBR performance groups. If you are shooting a similar bullet weight and muzzle velocity that falls into the provided selections, you can use that load group with full confidence.

> **NOTE:** *For a list of all available loads please go to leupold.com, locate the RX-1400i TBR/W product page, and navigate to the Product Downloads section.*

TBR/W PERFORMANCE GROUPS: LOAD TABLE			
Load Name (Muzzle Velocity-fps)		Load Name (Muzzle Velocity-fps)	
300 Yard Zero	Group	300 Yard Zero	Group
26 Nosler 142 gr. AccuBond (3300)	17	300 Wby. Mag. 180 gr. Nosler Partition (3190)	19
6.5 Creedmoor 129 gr. SST (2950)	20	300 Wby. Mag 180 gr. Trophy Bonded Bear Claw (3040)	23
6.5 Creedmoor 140 gr. A-MAX (2710)	22	300 Win. Mag. 150 gr. Core-Lokt PSP (3290)	21
6.5-284 130 gr. AccuBond (2900)	20	300 Win. Mag. 150 gr. Core-Lokt Ultra Bonded (3290)	21
6.5-284 140 gr. Accubond (2800)	22	300 Win. Mag. 150 gr. Federal Fusion (3200)	19
222 Rem. 55 gr. FMJBT American Eagle (3240)	23	300 Win. Mag. 165 gr. Federal Fusion (3200)	19
22-250 Rem. 55 gr. Power-Lokt HP	21	300 Win. Mag. 165 gr. Nosler Partition (3050)	20
25-06 Rem. 110 gr. Nosler AccuBond (3100)	20	300 Win. Mag. 178 gr. Hornady A-Max (3000)	20
25-06 Rem 117 gr. Sierra SBT GameKing (2990)	23	300 Win. 180 gr. AccuBond CT (2950)	20
257 Wby. 100 gr. Barnes TSX (3570)	17	300 Win. Mag. 180 gr. Core-Lokt Ultra Bonded (2960)	23
257 Wby. 110 gr. Nosler AccuBond (3460)	18	300 Win. 180 gr. Federal Fusion (2960)	20
260 Rem. 120 gr. Nosler Ballistic Tip (2950)	22	300 Win. Mag. 180 gr. Nosler AccuBond (2960)	20
264 Win. Mag. 120 gr. Core-Lokt PSP (3210)	21	300 Win. Mag. 180 gr. Nosler Partition (2960)	23
270 Wby. 150 gr. Nosler Partition (3245)	19	300 WSM 150 gr. Power Point (3270)	21
270 Win. 130 gr. Core-Lokt sp (3060)	23	300 WSM 165 gr. Nosler Partition (3130)	20
7mm 140 gr. SP AccuBond (3000)	20	30-06 150 gr. Core-Lokt Ultra Bond (2910)	25
7mm Rem. Mag. 140 gr. AccuBond CT (3180)	19	30-06 165 gr. Nosler Partition (2830)	23
7mm Rem. Mag. 150 gr. Power Point (3090)	21	30-06 180 gr. Nosler Accubond (2700)	24
7mm Rem. Mag. 175 gr. Federal Fusion (2760)	22	30-378 Wby. 165 gr. Nosler Ballistic Tip (3500)	17
7mm-08 140 gr. Ballistic Silvertip (2770)	24	30-378 Wby. 180 gr. Nosler AccuBond (3400)	18
7mm Rem. Mag. 175 gr. SP American Eagle (2860)	22	308 Win. 150 gr. Federal Fusion (2820)	25
7mm WSM 150 gr. Power Point (3200)	21	338 Win. Mag. 180 gr. Nosler AccuBond (3120)	21
7mm-08 140 gr. Ballistic Silvertip (2770)	24	338 Win. Mag. 200 gr. Power Point (2960)	25
7-08 Rem. 140 gr. Nosler Partition (2800)	24	338 Win. Mag. 210 gr. Nosler Partition (2830)	25
280 Rem. 150 gr. Nosler Partition (2890)	22	338 Win. Mag. 225 gr. Core-Lokt Ultra Bonded (2780)	22
280 Rem. 160 gr. Nosler AccuBond (2800)	22	338 Win. Mag. 225 gr. Nosler Accubond (2800)	22
300 RSAUM 165 gr. Core-Lokt PSP (3075)	23	50 BMG 750 gr. BoreRider (2700)	20
300 RUM 180 gr. Core-Lokt Ultra Bonded (3250)	19	50 BMG 800 gr. BoreRider (2650)	20
300 Wby. 150 gr. Nosler Partition (3540)	18	50 Cal 750 gr. A-Max (2650)	20
300 Wby. 165 gr. Nosler Ballistic Tip (3350)	18	Lapua Mag. 300 gr. Trophy Gold OTM (2762)	20
300 Win. Mag. 150 gr. Power Point (3290)	21		

TBR/W PERFORMANCE GROUPS: LOAD TABLE			
Load Name (Muzzle Velocity-fps)		Load Name (Muzzle Velocity-fps)	
200 Yard Zero	Group	200 Yard Zero	Group
22-250 Rem. 50 gr. Ballistic Silvertip (3810)	5	270 Win. 150 gr. Power Point (2850)	13
22-250 Rem. 55 gr. Nolser Ballistic Tip (3680)	3	270 WSM 130 gr. Core-Lokt (3285)	5
22-250 Rem 55 gr. Power-Lokt HP (3680)	7	7mm Rem. Mag. 140 gr. Nosler AccuBond (3110)	4
22-250 Rem 55 gr. SP American Eagle (3680)	7	7mm Rem. 150 gr. Core-Lokt PSP (3110)	9
223 Rem 62 gr. FMJBT American Eagle (3020)	11	7mm Rem. Mag. 150 gr. Federal Fusion (3100)	4
223 Rem 69 gr. Sierra HPBT Match (2950)	13	7mm Rem. Mag. 150 gr. Nosler Ballistic Tip (3025)	6
223 Rem 77 gr. Sierra HPBT Match (2750)	15	7mm Rem. Mag. 150 gr. SP American Eagle (3110)	7
243 Win. 100 gr. Core-Lokt PSP (2960)	11	7mm WSM 160 gr. Nosler Partition (3160)	4
243 Win. 100 gr. Core-Lokt UltraBond (2960)	9	7mm WSM 150 gr. SP American Eagle (3100)	7
25-06 Rem. 100 gr. Core-Lokt PSP (3230)	9	7mm-08 140 gr. Power Point (2800)	13
25-06 Rem. 120 gr. Federal Fusion (2980)	9	7mm-08 139 gr. SP Interlock (2840)	13
25-06 Rem. 85 gr. Ballistic Silvertip (3470)	3	7mm-08 139 gr. SST Interlock (2800)	10
6.5 Creedmoor 129 gr. SST (2950)	6	7mm 175 gr. SP Interlock (2800)	10
6.5 Creedmoor 140 gr. ELD-M (2710)	8	7-08 Rem. 140 gr. Nosler AccuBond (2800)	10
6.5 Creedmoor 143 gr. ELD-X (2700)	8	7-08 Rem. 140 gr. Nosler Patition (2800)	10
6.5 Creedmoor 140 gr. A-MAX (2710)	8	28 Nosler 175 gr. AccuBond (3125)	2
6.5 Creedmoor 140 gr. Custom Competition (2550)	14	300 RUM 150 gr. Swift Scirocco Bonded (3450)	1
6.5-284 130 gr. AccuBond (2900)	8	300 RUM 180 gr. Core-Lokt Ultra Bonded (3250)	4
6.5-284 140 gr. AccuBond (2800)	8	300 Wby. 180 gr. Nosler Partition (3240)	2
6mm Rem. 100 gr. Core-Lokt PSP (3100)	9	300 Wby. Mag. 180 gr. Barnes Triple Shock (3110)	4
6mm Rem. 100 gr. SP American Eagle (3100)	9	300 Win Mag 150 gr. Core-Lokt PSP (3290)	7
6mm Rem. 80 gr. SP American Eagle (3470)	2	300 Win. Mag. 165 gr. Federal Fusion (3200)	4
26 Nolser 142 gr. AccuBond (3300)	1	300 Win. Mag. 180 gr. Core-Lokt Ultra Bonded (2960)	9
270 Win. 130 gr. Core-Lokt SP (3060)	9	300 Win. Mag. 180 gr. Federal Fusion (2960)	6
270 Win. 130 gr. Nosler Ballistic Tip (3060)	6	300 Win. Mag. 180 gr. Nosler AccuBond (2960)	6
270 Win. 130 gr. SP American Eagle (3060)	9	300 Win. Mag. 180 gr. Nosler Partition (2960)	11
270 Win. 140 gr. Core-Lokt Ultra Bonded (2925)	11	300 Win. Mag. 200 gr. Hornady ELD-X (2850)	6
270 Win. 150 gr. Federal Fusion (2850)	8	300 Win. Mag. 212 gr. Hornady ELD-X (2860)	4

TBR PERFORMANCE GROUPS: LOAD TABLE			
Load Name (Muzzle Velocity-fps)		Load Name (Muzzle Velocity-fps)	
200 Yard Zero	Group	200 Yard Zero	Group
300 Win. Mag. 180 gr. Power Point (2960)	8	30-06 180 gr. Nosler Partition (2700)	12
300 WSM 180 gr. SP American Eagle (2970)	9	30-06 180 gr. Silvertip (2700)	15
300 WSM 180 gr. Ballistic Silvertip (3010)	6	30-06 180 gr. SP American Eagle (2700)	15
300 WSM 180 gr. SP American Eagle (2970)	9	30-06 180 gr. Trophy Bonded Bear Claw (2650)	16
30-06 150 gr. Ballistic Silvertip (2900)	8	30-06 180 gr. Core-Lokt Ultra Bond (2700)	15
30-06 150 gr. Core-Lokt PSP (2910)	13	308 Win. 150 gr. Nosler Ballistic Tip (2820)	10
30-06 150 gr. Federal Fusion (2900)	9	308 Win. 150 gr. Power Point (2820)	16
30-06 150 gr. Power Point (2920)	15	308 Win. 165 gr. Barnes Triple Shock (2650)	16
30-06 150 gr. Silvertip (2910)	13	308 Win. 165 gr. Nosler AccuBond (2730)	12
30-06 165 gr. Core-Lokt PSP (2800)	15	308 Win. 165 gr. Nosler Ballistic Tip (2650)	12
30-06 165 gr. Federal Fusion (2790)	10	308 Win. 165 gr. Sierra SBT GameKing (2700)	15
30-06 165 gr. Nosler Ballistic Tip (2800)	10	308 Win. 168 gr. Hornady Match HP (2650)	15
30-06 165 gr. Pointed Soft Point (2800)	15	308 Win. 168 gr. Hornady ELD-M (2700)	8
30-06 165 gr. Sierra SBT GameKing (2800)	13	308 Win. 180 gr. Core-Lokt Ultra Bonded (2620)	16
30-06 168 gr. Ballistic Silvertip (2790)	10	308 Win. 180 gr. Nosler AccuBond (2750)	10
30-06 180 gr. Ballistic Silvertip (2750)	10	308 Win. 180 gr. Nolser Partition (2620)	14
30-06 180 gr. Core-Lokt PSP (2700)	15	308 Win. 180 gr. Silvertip (2620)	16
30-06 180 gr. Federal Fusion (2700)	10	338 Lapua 250 gr. Sierra HPBT Match (2950)	6

For hand loads or any other unique loads not shown in the above list, the table on the next page provides a guideline for selecting the appropriate TBR performance group. Check the ballistic performance of your bullet by consulting your reloading manual, ballistics software, or by referring to literature provided by your cartridge manufacturer. You may also visit leupold.com for more assistance in selecting your group.

TBR/W LOAD GROUP SELECTION TABLE: FOR BEST FIT UP TO 600 YARDS			
Load Group	Bullet Path Height @ 600 Yds.	10 MPH Crosswind Deflection @ 600 Yds	Sight-in Range
1	-42 to 48 inches*	10 to 28 inches	200 Yards
2	-48 to -54 inches	10 to 28 inches	200 Yards
3	-48 to -54 inches	28 to 46 inches	200 Yards
4	-54 to -60 inches	10 to 28 inches	200 Yards
5	-54 to -60 inches	28 to 46 inches	200 Yards
6	-60 to -66 inches	10 to 28 inches	200 Yards
7	-60 to -66 inches	28 to 46 inches	200 Yards
8	-66 to -72 inches	10 to 28 inches	200 Yards
9	-66 to -72 inches	28 to 46 inches	200 Yards
10	-72 TO -78 inches	10 to 28 inches	200 Yards
11	-72 to -78 inches	28 to 46 inches	200 Yards
12	-78 to -84 inches	10 to 28 inches	200 Yards
13	-78 to -84 inches	28 to 46 inches	200 Yards
14	-84 to -90 inches	10 to 28 inches	200 Yards
15	-84 to -90 inches	28 to 46 inches	200 Yards
16	-90 to -96 inches**	28 to 46 inches	200 Yards
17	-30 to -36 inches**	10 to 28 inches	300 Yards
18	-36 to -42 inches	10 to 28 inches	300 Yards
19	-42 to -48 inches	10 to 28 inches	300 Yards
20	-48 to -54 inches	10 to 28 inches	300 Yards
21	-48 to -54 inches	28 to 46 inches	300 Yards
22	-54 to -60 inches	10 to 28 inches	300 Yards
23	-54 to -60 inches	28 to 46 inches	300 Yards
24	-60 to -66 inches**	10 to 28 inches	300 Yards
25	-60 to -66 inches**	28 to 46 inches	300 Yards

* If your bullet height path is less than -42 inches at 600 yards with a 200 yard sight-in, consider sighting-in at 300 yards and selecting load group 17 or 18. Alternately, you can use group 1 with a 200 yard sight-in, but the TBR/W will be less accurate.

** If your bullet height at 600 yards is greater than -96 inches with a 200 yard sight-in or less than -30 or greater than -66 inches with a 300 yard sight-in, the TBR/W will be less accurate.

To activate the appropriate ballistics group, TBR must be activated, and you must choose between BAS, HOLD, MIL, or MOA. Once this has been done, pressing the MODE button will allow you to select the appropriate ballistics group. Load will be shown in the upper row of characters, and the current ballistics group will be shown in the lower row. Press and release POWER to scroll through the available ballistics groups, then press MODE to save your selection and move on to the WIND menu.

When WIND is activated, the rangefinder will first display the distance to the target then show the appropriate wind hold for the selected output. If the selected output is TRIG, LOS, or BOW, wind cannot be activated.

SELECTED OUTPUT	SELECTED OUTPUT
BAS	MOA
HOLD (YD/M)	IN/CM
MIL	MIL
MOA	MOA

FUNCTION 4: WIND

WIND will provide a fixed 10 mph full wind value, meaning it assumes the wind is at 90 degrees to the muzzle. We chose 10 mph as a way for the user to easily calculate corrections on the fly. If the wind is 5 mph, from the 3 o'clock or 9 o'clock position, the shooter would halve the hold value. If the wind is 20 mph, the shooter would double the wind hold value. If the wind isn't
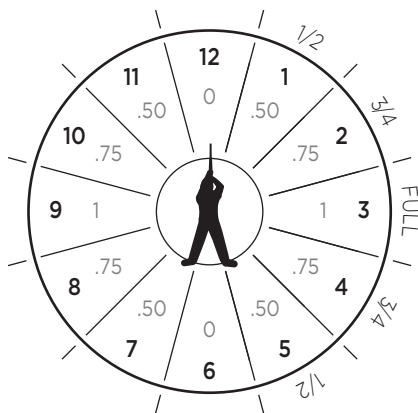
blowing at 90 degrees to the muzzle, the shooter needs to adjust the hold value per the diagram shown. For example, if the wind is at 45 degrees to the muzzle, adjust the wind hold value to 75%. Because wind values change so quickly, we have found this method of generating correction values for speed and direction will help you get on target easier and faster.
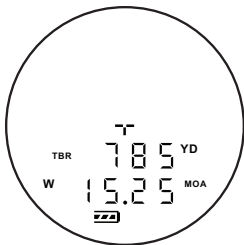
example of BAS (and MOA)
output wind hold display

Wind hold values will be displayed in the same output format as elevation; either minute-of-angle (MOA), milliradians (MIL), or inches/cm hold values. TBR/W provides .5 MOA accuracy on elevation and 1.5 MOA accuracy on wind values at 600 yards for cartridges expected to reach that distance. As with TBR, the maximum distance is 800 yards. If wind output is on, once the elevation hold values are displayed, the rangefinder will update and show the wind hold values.
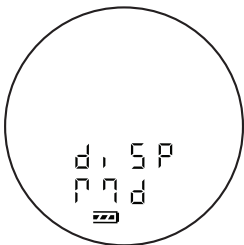
FUNCTION 5: DISPLAY INTENSITY

This mode is used to adjust the brightness of the display, allowing you to match the intensity to current conditions. Your RX-1400i TBR/W has three display intensity settings: low, medium, and high.

Navigate through the Quick Set Menu by pressing and releasing the MODE button until "dISP" is shown in the upper row.

Press and release the POWER button to toggle between high, medium, and low. Press MODE to save the selection.
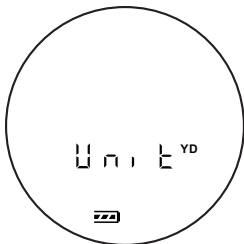
Unit set to Yards (YD)

FUNCTION 6: UNIT OUTPUT

This mode is used to choose between yards and meters for the unit of measure. To choose between yards and meters, navigate through the Quick Set Menu by pressing and releasing the MODE button until "Unit" is shown in the upper row. Press and release the POWER button to alternate between yards and meters. Press MODE to save the selection.
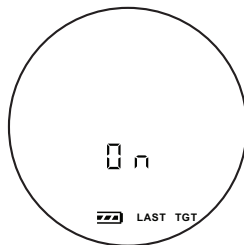
FUNCTION 7: LAST TARGET MODE

This mode is used to display the distance to the farthest object when more than one object may be read. Multiple objects will often return an average distance. Last Target Mode ensures an accurate reading on the farthest object.

To activate Last Target mode, navigate through the Quick Set Menu by pressing and releasing the MODE button until Last Target is shown in the lower right portion of the display. Press and release the POWER button to turn Last Target on/off. Press MODE to save the selection.

FUNCTION 8: 3 SELECTABLE RETICLES

This mode allows you to choose any of the 3 preloaded reticles as the primary aiming point. To select a reticle, press and release MODE until the current reticle is blinking. Press and release POWER to scroll through the available reticles, then press MODE when the preferred reticle is shown. The reticle choices are as follows:
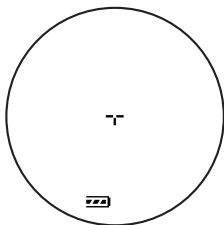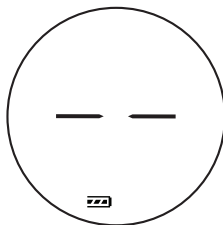
PLUS POINT™
Ideal for small targets. Small open center avoids coverage of very small or distant objects.
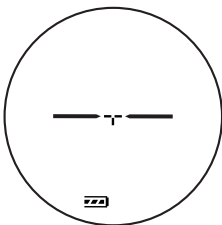
HORIZON RETICLE WITH PLUS POINT

HORIZON RETICLE WITHOUT PLUS POINT
Draws eye to the center, easy to see, does not cover the target in the center where aiming is most critical.

FUNCTION 9: FLIGHTPATH™

Your RX-1400i TBR/W uses Flightpath technology to display your arrow's maximum height of travel from the user's perspective. This feature allows you to determine your shot clearance when obstructions exist between you and your target.

Flightpath is generated after the unit is calibrated for your bow specifics. Display output is typical to approximately 70 yards depending on your arrow characteristics.

Flightpath provides an illuminated tick mark where the arrow will be at 20 yards. This mark represents the highest point the arrow will travel from the user's perspective. So, if any obstacles are visible under the tick mark, the user will need to navigate the obstacle to ensure they have a clear shot. Archers can also use the 20-yard mark to verify that their shooting lanes are free from obstructions when shooting from cover.

NOTE: *If your target is less than 20 yards away, the bottom two marks will blink, indicating no Flightpath output will be displayed. If the flightpath of your arrow exceeds the top mark in the display, the top two marks will blink indicating no Flightpath output will be displayed.*

This technology allows you to determine your arrow's clearance at various distances and serves as a useful tool for archery hunters and 3D tournament archers who shoot in unpredictable terrain. Treestand hunters will also benefit from Flightpath technology when planning shooting lanes from their stands.

FL-PATH

On
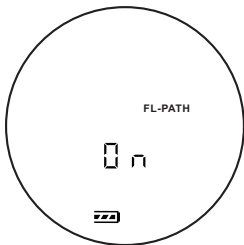
To activate Flightpath, navigate through the quick set menu by pressing and releasing the MODE button until FL-PATH is highlighted. Press and release the POWER button to turn Flightpath on/off. Press and hold the MODE button for longer than 1 second to save the setting and exit the menu setup or press and release MODE to advance to the next menu setting.

There are 2 menu items for Flightpath.

1) Flightpath on/off
2) Flightpath Calibration - If ON is selected, Flightpath Calibration will appear. (if OFF is selected, Flightpath Calibration will not be visible).

FUNCTION 10: FLIGHTPATH CALIBRATION

The Flightpath calibration function requires you to calibrate your rangefinder to your bow. Please see the separate Calibration Sheet or download a copy from Leupold.com.

When calibrating your rangefinder, the row of characters on the bottom of the display will show you which Flightpath tick mark is illuminated. If you pass your intended mark during the calibration process, you can quickly relocate it using the tick-mark numbers.

CLEANING/MAINTENANCE

Blow away dust or debris on lenses or use a soft lens brush (such as the one found on the Leupold LensPen). To remove fingerprints, water spots, or dirt, use a soft cotton cloth or the cleaning end of the Leupold LensPen. A lens tissue with lens cleaning fluid may be used for more stubborn dirt. Always apply cleaning fluid to the cleaning cloth, never directly to the lens.

To insert a new battery, remove the battery cover (shown in the diagram on page 6) and remove the exhausted battery. Insert a new CR-2 battery, negative terminal first, into the battery compartment, then close the battery cover.

The RX-1400i TBR/W is waterproof and comes equipped with a lanyard and lanyard attachment for added security in the field.

HELPFUL HINTS FOR USING THE RX-1400i TBR/W

Rangefinder does not provide a range.
- Make sure that the POWER button is being depressed (as opposed to the MODE button)
- Make sure that nothing, such as your hand or finger, is blocking the lenses as this could interfere with the emission and reception of the laser pulses
- Make sure to hold the unit steady while depressing the POWER button
- Make sure the target is at least 6 yards away

WARRANTY/REPAIR

The Leupold Electronics Warranty covers any defects in materials and workmanship in the electronic components of RX, GX, PinCaddie Rangefinders, BX-4 Range HD Rangefinding Binocular, and other Leupold electronic products. This warranty lasts for two years from the date of purchase. For complete warranty details visit leupold.com/warranty.

In the event of a need for service or repair, please contact Leupold Product Service at: leupold.com

For product questions, consult the Leupold Web site at: leupold.com or call (800) LEUPOLD (538-7653).

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