LEUPOLD
AMERICA'S OPTICS AUTHORITY®
DNA™

RX-FullDraw™ Digital Archery Rangefinder

User Manual

Introduction

Congratulations! You have purchased a Leupold RX-FullDraw digital archery rangefinder that has been designed by Leupold's engineers and designers to be the best archery rangefinder in its category, and to provide you with years of solid performance in the field. Following are detailed instructions regarding the proper use and employment of your RX rangefinder. To ensure top performance for the life of the product, please read these instructions before operating your RX-FullDraw rangefinder.

Your new Leupold RX rangefinder is a revolutionary, rangefinding device that incorporates advanced digital electronics. The next-generation Digitally eNhanced Accuracy (DNA) engine incorporates additional signal processing techniques to generate better ranging distance with more accurate rangefinding. The RX-FullDraw features include multiple reticle options, and scan mode.

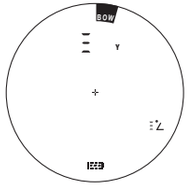
How The RX-FullDraw Works

The RX-FullDraw is a top-quality 5x23mm monocular that incorporates the additional benefit of a state-of-the-art laser rangefinder capable of measuring the distance of a deer-sized animal from 6 yards to 550 yards, an inanimate object from 6 yards to 650 yards, and a reflective target from 6 yards to 800 yards. The rangefinder 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-FullDraw to the object and back.

⚠ Safety and Operation Precautions

The Leupold RX-FullDraw 5x23mm rangefinder employs an eye-safe FDA Class 1 and IEC Class 3R laser in its operation. Even so, there are a few precautions that are important to remember:

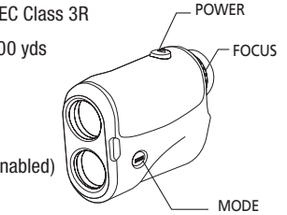
- When you see the display through the eyepiece, please be aware that the product is active and emitting an invisible laser and the laser aperture should not be pointed toward anyone
- The unit will produce an audible click when activated to notify the user that the rangefinder is emitting an invisible laser
- Do not depress the POWER button while aiming at a human eye or while looking into the optics from the objective side

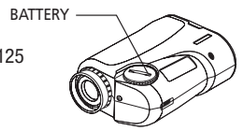


- Do not leave the rangefinder within the reach of small children
- Do not take the product apart as it has a self-protection device in the electronic control module and may cause an electric shock
- Do not attempt to use any power source other than a 3V Lithium CR2 battery — the RX-FullDraw rangefinder is designed to prohibit accessing any other external power supply
- 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
- **Caution:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure

RX-FullDraw Features at a Glance

- Laser Radiation: FDA Class 1 / IEC Class 3R
- Measurement Range: 6 yds – 800 yds
- Measuring Time: Less than 1 second
- Auto Power Off after 5 seconds (45 seconds if Trophy Scale is enabled)
- Power: 3V Lithium CR2 battery
- Battery Life: At least 7,000 actuations
- Accuracy: +/- .5 yard/meter to 125 yards/meters
- The RX-FullDraw is waterproof





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 – If the battery bar is empty, yet there is still data displayed above the bar, 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-FullDraw

Measurement of distance with the RX-FullDraw is a very simple operation:

- View the object of interest through the monocular
- Depress the POWER button to power up the unit
- Align the reticle over the object being viewed
- Depress the POWER button again – this will cause the laser to activate
- 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 depressed
- 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 reading is displayed.

Following is a reference table listing the ranges of the RX-FullDraw model under different conditions:

MAXIMUM RANGE	
CONDITION	RX-FullDraw
Reflective Target (yd/m)	800/732
Trees (yd/m)	650/594
Deer (yd/m)	550/503

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.

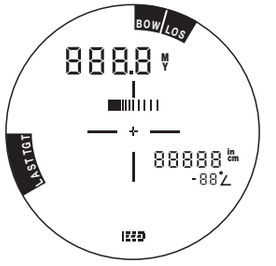
RX-FullDraw Specifications

The RX-FullDraw digital laser rangefinder provides useful modes to tailor performance to the conditions you experience in the field. Model features are identified below.

RX-FullDraw	
Magnification	5×
TBR (BOW Mode to 175 Yards)	Yes
Trophy Scale	Yes
Line of Sight Distance (LOS)	Yes
Yards / Meters Mode	Yes
Last Target Mode	Yes
Scan Mode	Yes
Battery Life	>7,000 Actuations
Weight	7.0 oz
Dimensions (Inches)	4.2 x 3.0 x 1.6
Battery Status Indicator	Yes
Warranty	1 Year
Waterproof	Yes
Accuracy +/- .5 Yard @ <125 yds.	Yes

Operation

Quick Set Menu™



*Display shown with all possible characters visible

BOW Mode

Your RX-FullDraw always operates in BOW mode utilizing Leupold's legendary True Ballistic Range (TBR) to provide the equivalent horizontal range (level fire range) for arrows. TBR is a marriage of laser ranging, an inclinometer, and an advanced computerized ballistics program. The result is distance measurements accurate within a yard, no matter the angle at which the laser is fired. Arrows travel in a ballistic arc, yet conventional rangefinders only provide a linear 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 arrow. 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), the LOS icon will flash while BOW remains displayed, and the resulting distance will be the Line Of Sight distance only. Most importantly, using your RX-FullDraw effectively means to Practice, Practice, Practice. Anytime you handle a bow or firearm, you are ultimately responsible for your projectile.

Quick Set Menu

When you initially push 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.

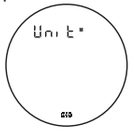
To manipulate a function, press the MODE button until that function is displayed, then use the POWER button to change the setting. If this is the last function to be changed, you can allow the rangefinder to sit idle for 20 seconds which will cause an automatic power-off, saving all selections. If additional functions require manipulation, simply press 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.

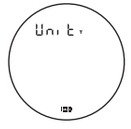
Note: *Activating certain modes automatically disables other modes. For example activating the yards mode will automatically deactivate the meters mode.*

Unit Output

This mode is used to choose between yards and meters as the preferred unit of measure.

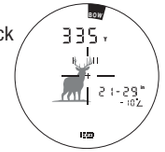
To choose between yards and meters, navigate through the Quick Set Menu by pressing the MODE button until "Unit" is shown in the upper display. Press and release the POWER button to alternate between yards and meters.





Trophy Scale™

The RX-FullDraw lets you instantly and accurately judge the width and/or height of a target using Trophy Scale. To be used properly, you must enter the width/height measurement you would like to use as a baseline. To set the Trophy Scale, enter the Quick Set Menu and activate Trophy Scale. Once Trophy Scale has been activated, press MODE to enter the Trophy Scale value set-up. At this point, the Trophy Scale value will be flashing; pressing POWER will increase the Trophy Scale value two inches/5 cm, at a time. The Trophy Scale value will begin at 10"/25 cm, for the initial set-up, or the last saved value for subsequent changes, and will progress up to 60"/150 cm. The next press of the POWER button will reset the numbers to 10"/25 cm again. Press MODE or wait for the power to "time out" to save the baseline measurement.



Once the baseline Trophy Scale value has been saved, the Trophy Scale bracketing system will automatically adjust to changing distances to the target, displaying a single mark on the left, and two marks on the right. To use Trophy Scale, place the left edge of the target on the left mark, the two marks on the right will represent a range of widths; for example, the closest of the right marks may represent a width of 21" and the farther mark may represent a width of 29". If the target brackets perfectly between the left mark and the closer right mark, it measures 21", if the target brackets perfectly between the left mark and the farthest right mark, it measures 29". If the target falls between the two right marks, it measures approximately 25". To measure height, the same marks are used, but the RX-FullDraw rangefinder must be held on its side. It is important to note that distance may limit the sizes available as a baseline measurement; small measurements may be limited at long distances and large measurements may be limited at short distances. Trophy Scale measurements are for reference only and may not be exact.

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 being ranged.

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

3 Selectable Reticles

This mode allows you to choose any one of the 3 preloaded reticles as the primary aiming point for the RX-FullDraw digital laser rangefinders. To select a reticle, press Mode repeatedly until the current reticle is blinking. Press POWER repeatedly to scroll through the available reticles, then press MODE when the preferred reticle is shown. The reticle choices are as follows:

Plus Point™

Plus Point™: Ideal for varmints and other small targets. Small open center avoids coverage of very small or distant targets.

Reticle with Plus Point™

Reticle without Plus Point™

Familiar reticle to shooters from riflescopes; draws eye to the center, easy to see, does not cover the target in the center where aiming is most critical.

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 tougher 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 battery cover (shown in diagram) and remove exhausted battery. Insert new CR-2 battery, negative terminal first, into the battery compartment. Close battery cover.

To focus the digital laser rangefinder, turn the eyepiece left or right (you will feel and hear the clicking of the diopter, indicating a change to the focus has been made) until crisp focus is achieved.

RX-FullDraw is waterproof.

The RX-FullDraw includes a lanyard and is equipped with a lanyard attachment for added security in the field.

Helpful Hints for Using the Leupold

Rangefinder does not provide range.

- Make sure that the POWER button is being depressed (as opposed to 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 unit is held steadily while depressing the POWER button
- Make sure the target is at least 6 yards away
- Target may be beyond maximum distance

Warranty/Repair

Your Leupold FullDraw Series digital laser rangefinder is warranted by the Leupold non-Golden Ring Electronics Warranty (store receipt required), and is protected from defects in materials and workmanship for ONE YEAR from the date of purchase. In event of a need for service or repair, please contact Leupold Product Service at:

BY PARCEL SERVICE:
Leupold Product Service
14400 NW Greenbrier Parkway
Beaverton, OR 97006-5791 USA

BY POSTAL SERVICE:
Leupold Product Service
P.O. Box 688
Beaverton, OR 97075-0688 USA

For product questions, consult the Leupold Web site at:
www.leupold.com, or call (503) 526-1400 or (800) LEUPOLD (538-7653).

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