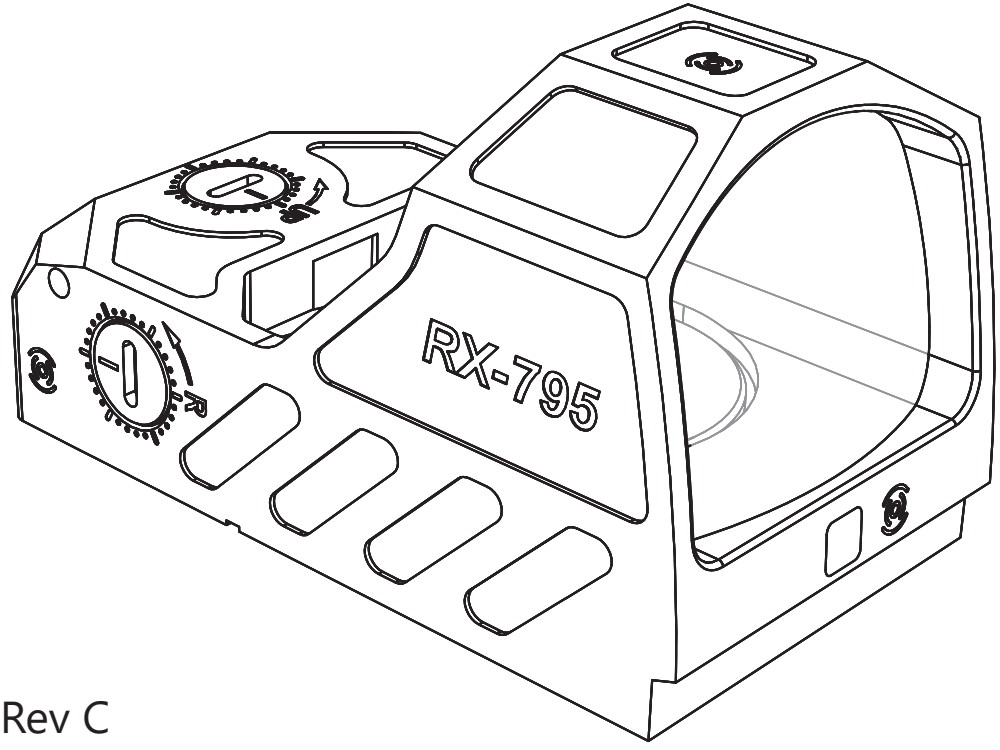
CUDA RX-795 · ALL MODELS



CUDA

USER MANUAL

Rev C

This manual is subject to change. Download the latest version of this document online at **cudaoptics.com/manuals**.

EASY-TO-FOLLOW
VIDEO GUIDE

Though incredibly easy to use, the Cuda Settings menu is best understood by seeing it in action!

SCAN QR CODE LINK TO

cudaoptics.com/settings

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TAKING ***REFLEX SIGHTS*** *TO THE* ***NEXT LEVEL***

1. WHAT'S IN THE BOX

- Cuda RX-795 reflex sight
- Picatinny mounting plate
- Mounting screws
- Quick start guide
- User manual
- Microfiber cloth
- CR1632 lithium battery
- Torx wrench
- Multi-tool
- Cuda logo sticker

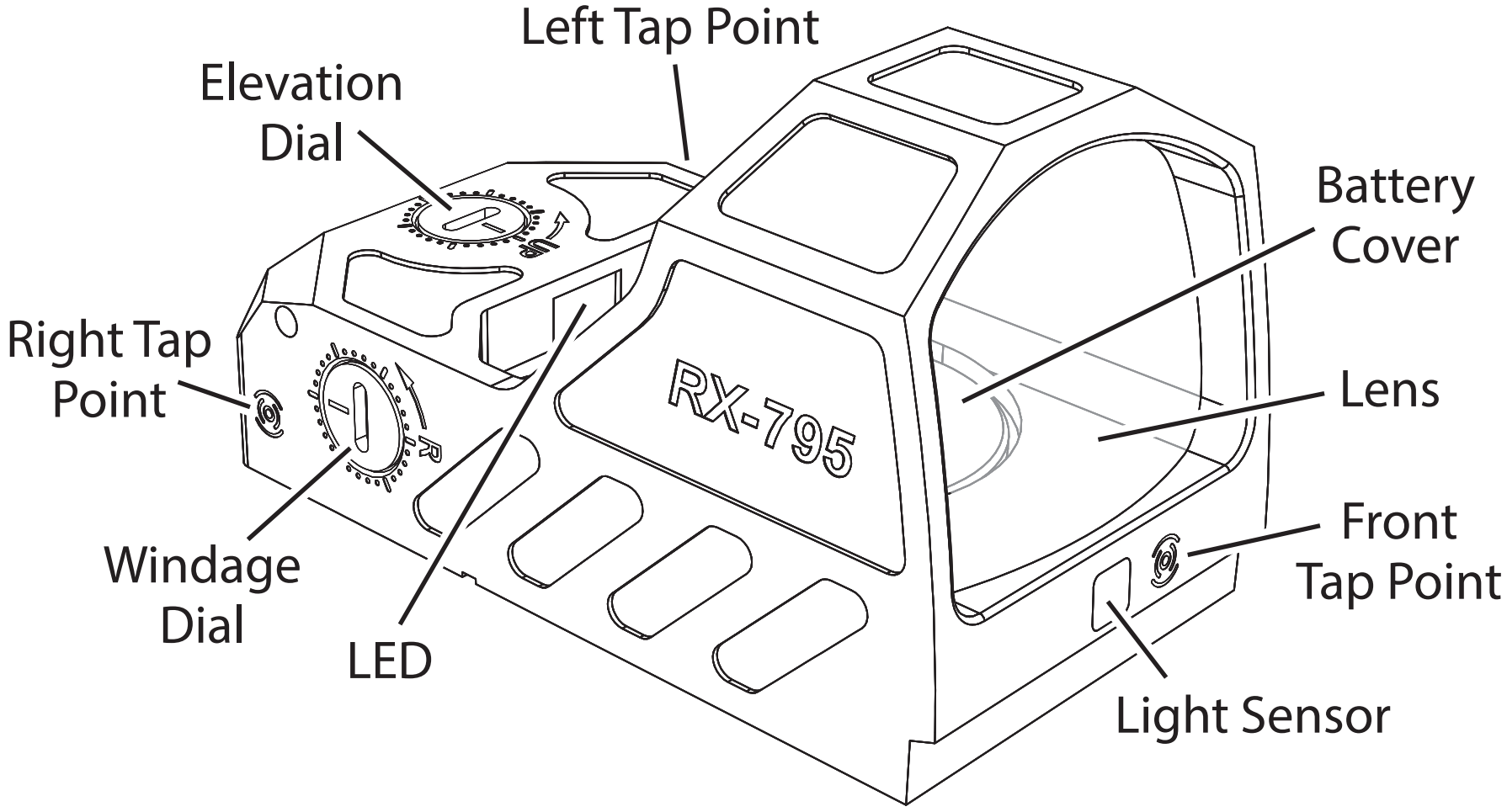

Figure 1: Cuda RX-795

2. FEATURES

2.1 IntelliDOT™

Sights with “manual brightness” that force you to adjust reticle intensity, or “auto brightness” that can abruptly change intensity, are major distractions from your target. Cuda sights have solved these problems with IntelliDOT.

IntelliDOT understands how our brains perceive light. Though ambient lighting may change drastically, IntelliDOT maintains ideal reticle brightness seamlessly.

IntelliDOT™

How it Works

A light sensor specifically tuned for the human eye continually measures light at your target. Data collected by this sensor is used to make imperceptible adjustments (10x a second!) to the reticle's intensity so that it appears the same intensity even in changing light.

For example, if you're in a dimly lit room then transition outside into full sun, it will seem as if your reticle never changes intensity yet remains perfectly bright. That's the magic of IntelliDOT!

2.1.1 Intensity Offset

If you prefer brighter or dimmer reticle than the one chosen by IntelliDOT, you can specify an Intensity Offset for IntelliDOT to use when calculating your reticle's intensity.

In the figure below, IntelliDOT knows that John is shooting outside in full sun, so it increases his reticle's intensity for maximum visibility.

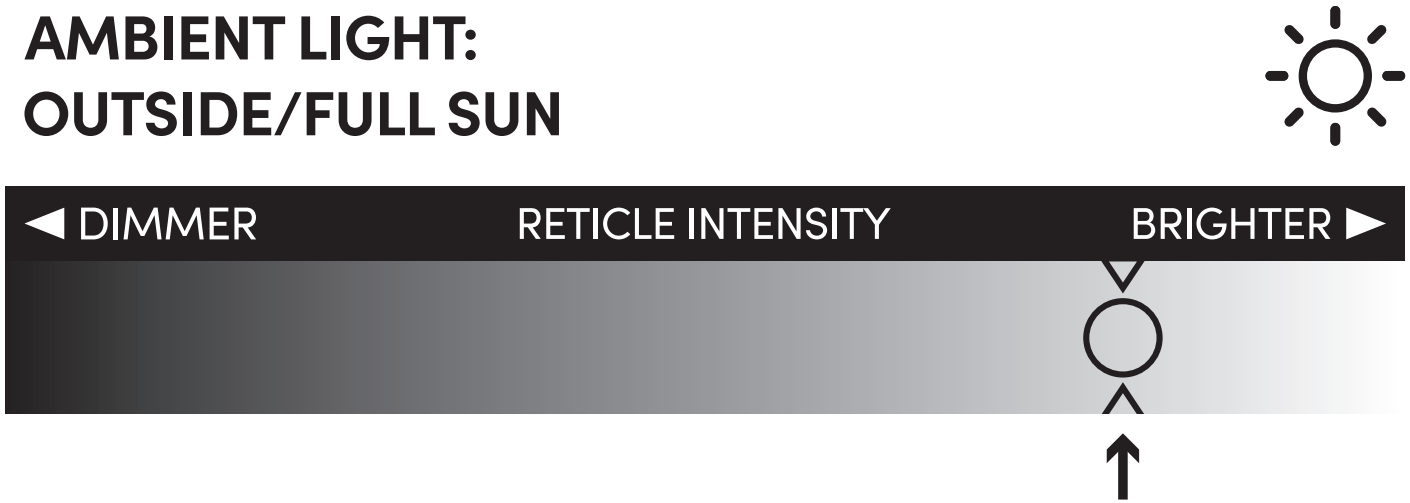

Figure 2: Ideal Intensity Calculated by IntelliDOT

Because John prefers a slightly brighter reticle, he creates an Intensity Offset to “teach” IntelliDOT his preference (see figure below).

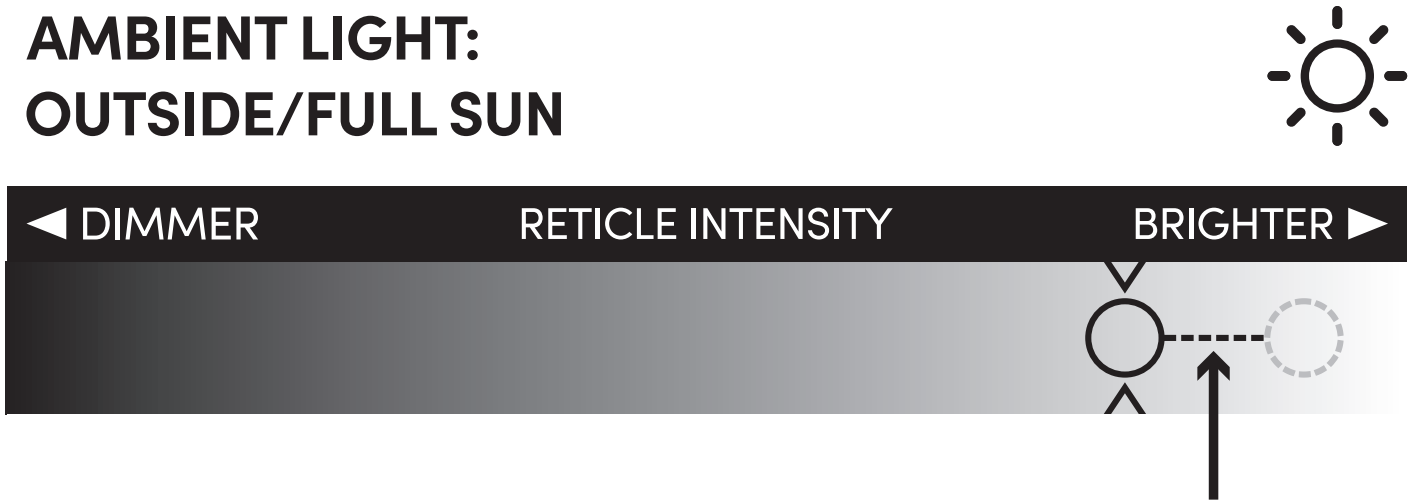

Figure 3: Intensity Offset Created by User

When John transitions inside, IntelliDOT recalculates his reticle's intensity based on his new environment then adds his Intensity Offset (see figure below). Wherever John goes, his reticle appears just the way he likes it!

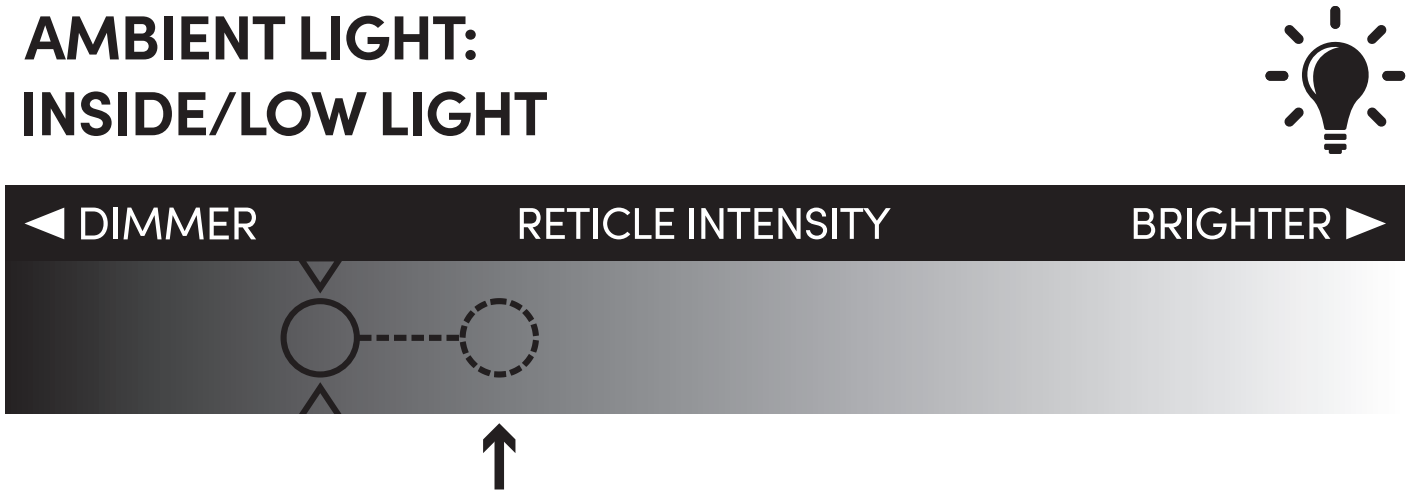

Figure 4: IntelliDOT + Intensity Offset = Personalized Intensity

To specify an Intensity Offset within the Settings menu, see page 22.

2.2 Instant On / Enhanced Shutoff

An accelerometer within your Cuda sight detects change in motion. It senses when it's being used and when it's not, so it knows exactly when to power down automatically.

2.2.1 Enhanced Shutoff Off ENABLED

Enhanced Shutoff is enabled by default. Your Cuda sight will turn off in a matter of seconds when you set it down or when have it holstered at your side.

2.2.2 Enhanced Shutoff DISABLED

Enhanced Shutoff can be disabled to extend automatic shutoff

time to 10 minutes, but we recommend keeping it enabled for two very important reasons:

First, Enhanced Shutoff greatly increases your battery life. Even though your Cuda sight features a high-efficiency LED which uses less power than a standard LED, turning it off when it's not in use will extend your battery life even further.

Secondly, because automatic battery checks and diagnostics are performed at shutdown, in the event there's ever a problem with your sight, you'll be notified almost immediately after setting down your firearm.

To DISABLE Enhanced Shutoff in the Settings menu, See *Section 4: Settings Menu* on page 22.

2.3 Battery Level Check & Diagnostics

2.3.1 Automatic

Each time your Cuda sight begins to turn off, it automatically performs a set of diagnostic tests to ensure it's in tip-top shape for the next time you need it. Tests are conducted on the LED, light and motion sensors, as well as the battery. If your sight detects a problem during an automatic test, it will alert you with rapid beeping and reticle flashing.

2.3.2 On-demand

You can manually check your battery level and run diagnostics on the sensors and LED anytime via the Settings menu. (See *Section 4: Settings Menu* on page 22.)

Battery level results are indicated by a combination of audible tones and reticle flashes and as outlined in the following table.

Test Result	Battery Life Remaining
5 beeps / 5 reticle flashes	80-100%
4 beeps / 4 reticle flashes	60-80%
3 beeps / 3 reticle flashes	40-60%
2 beeps / 2 reticle flashes	20-40%
Rapid beeping / flashing	Less than 20% or failed test*

Figure 5: On-demand Battery Level Check & Diagnostic Results

*If your sight continues to beep/flash rapidly after installing a new battery, one or more diagnostic tests have failed. Please contact Cuda Support.

2.4 Micro Speaker

Your Cuda sight features a micro speaker for low-battery alerts, diagnostic test results, and to provide audible confirmation when using the Settings menu. Audio is enabled by default but can be disabled in Settings. (See *Section 4: Settings Menu* on page 22.)

Alerts, test results, and confirmations are also communicated through reticle flashes, so if audio is disabled, visual feedback is still available.

For example, the reticle will flash with each beep during a battery level check. Also, when disabling or enabling a feature such as Enhanced Shutoff, the reticle will flash once.

Note: *Instructions throughout this manual assume Audio is enabled.*

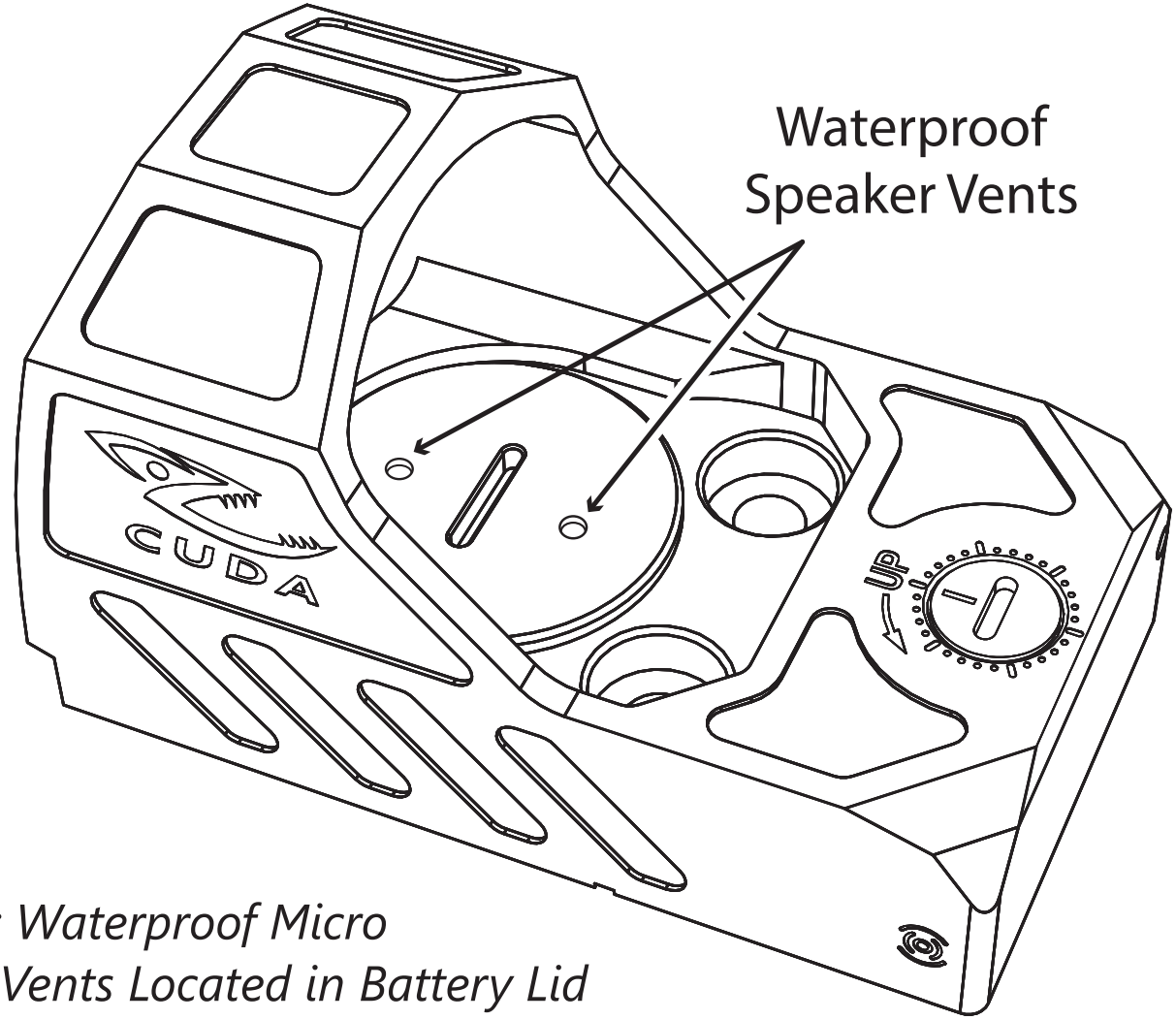

Figure 6: Waterproof Micro Speaker Vents Located in Battery Lid

2.5 SecureTaps & Settings Menu

Buttons on reflex sights are notoriously prone to failure, and are intrusion points for water and dirt. Your Cuda sight, however, utilizes an accelerometer to detect movement when you tap and tilt it, so buttons are unnecessary.

Unlike most tap-controlled devices that cannot differentiate accidental from intentional taps, each tap to access the Cuda Settings menu must pass a security check. We call these *SecureTaps*.

With SecureTaps, changes in light detected by the light sensor are paired with motion detected by the accelerometer to form a unique a "key" to unlock the Settings menu. This gives you peace of mind that your settings can never be accidentally altered through normal use.

To access the Settings menu with SecureTaps, see page 22.

2.6 Cuda ClearVision

Competitive shooters and home/self-defense enthusiasts understand the need for fast target acquisition, and so do we. That's why our engineers have developed our Cuda ClearVision standards. We don't want anything to stand in the way of acquiring your target.

2.6.1 Minimal Artifacts

Visual artifacts caused by ambient light reflecting off surfaces and back into the lens of an open reflex sight can disorient you and make target acquisition difficult. We've engineered your Cuda sight to significantly minimize artifacts so you always stay threat-focused.

2.6.2 Low Distortion

Poorly engineered reflex sights may have you feeling as if you're looking through a fisheye lens or at a funhouse mirror. But Cuda sight lenses are manufactured to very precise specifications for low distortion to keep your sight picture true.

2.6.3 Reduced Coatings

Reflex sight lenses contain special coatings that increase the intensity of the reflected reticle and reduce the need for brighter, more power-hungry LEDs. Unfortunately, the result can be a lens that appears more colored than clear glass.

Your Cuda sight, however, features a high-efficiency LED to project its reticle. Therefore, unnecessary coatings have been

removed. This provides you with a clearer sight picture without greatly impacting your battery life.

2.7 Parallax? Not a problem.

Parallax occurs when the position of an object appears to change when viewed from a different line of sight. In a reflex sight, parallax can mean the difference between missing or making your shots.

Many reflex sight manufacturers claim their sights are parallax-free up to a certain distance, but we know that's simply not true. By design, reflex sights work by viewing a target through a curved lens, so *some* parallax is inevitable. Our engineers, however, have meticulously designed the RX-795 lens so that parallax should *never* be a problem.

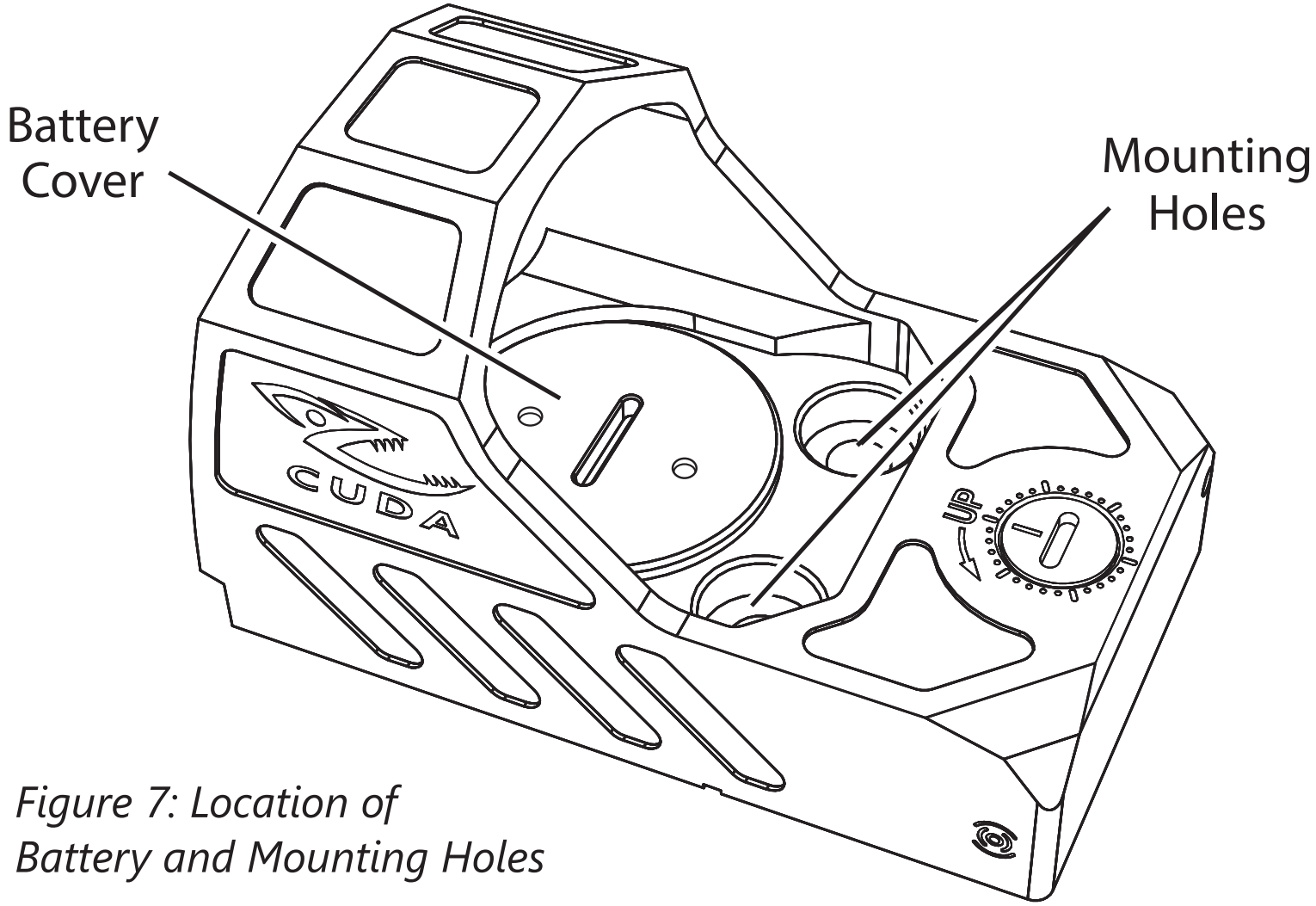

Figure 7: Location of
Battery and Mounting Holes

3. QUICK START GUIDE

Getting started with your new Cuda sight couldn't be easier! Just install the battery, mount it to your firearm, and you're ready to go.

3.1 Battery Installation

Your Cuda sight is powered by one 3-volt CR1632 lithium battery. To install or replace the battery:

1. Insert the large flathead end of the supplied multi-tool into the slot on the battery cover, then turn it counterclockwise.
2. Place a new battery into the tray (positive (+) side up).
3. Replace the cover and screw it clockwise to tighten. (Do not overtighten or misalign the threads.)

3.2 Mounting

Your Cuda sight can be mounted to both handguns and long guns using the supplied picatinny rail mount or by purchasing a mounting plate and screws from your firearm manufacturer or third-party vendor.

Find mounting plates for your firearm at:

cudaoptics.com/mounting

To install your Cuda sight:

1. Place sight flush on mount and align holes in mount with holes in sight.
2. Attach sight to mount using appropriate screws.

Note: *Removable thread-locking fluid (not included) may help with mounting screws that become loose after repeated use.*

The depth of the RX-795 mounting holes is 5 mm. If your mounting plate manufacturer recommends a minimum thread depth of 2 mm, for example, your mounting screws will need to be approx. 7 mm long.

Always defer to your mounting plate manufacturer's specifications when selecting appropriate mounting screws.

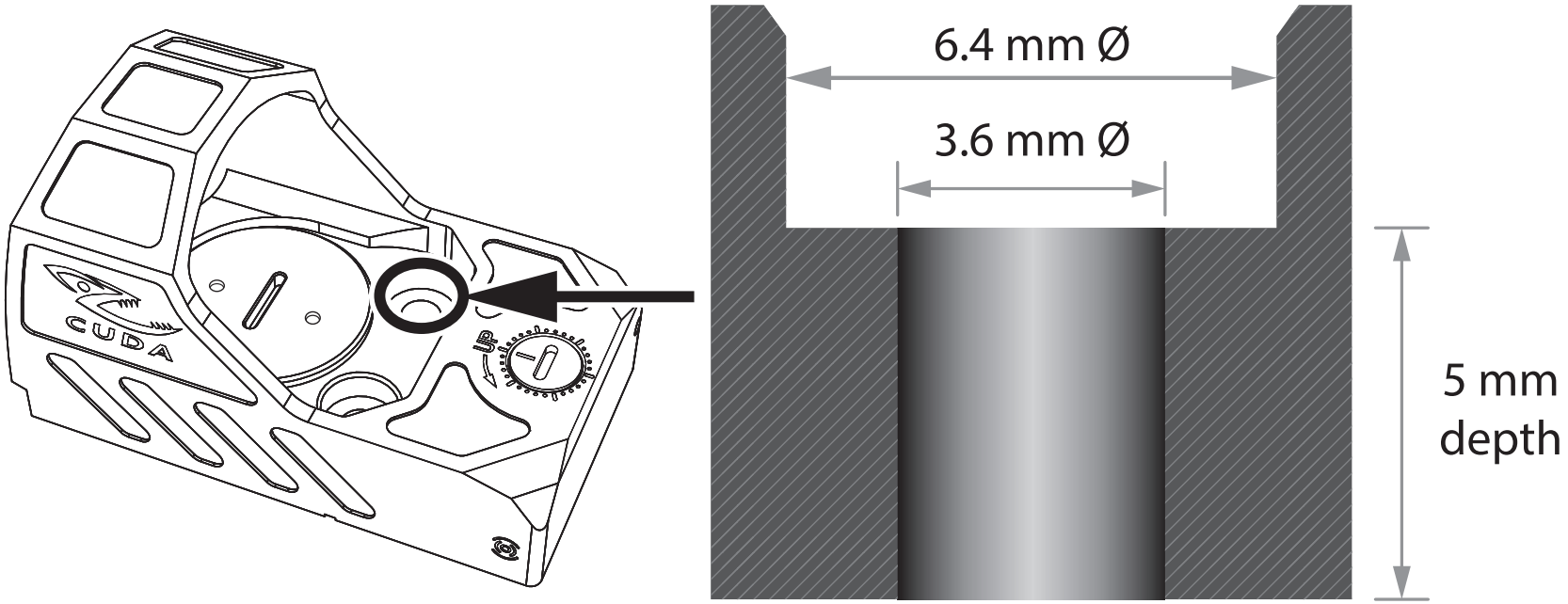

Figure 8: Cuda RX-795 Mounting Hole Diagram

4. SETTINGS MENU

EASY-TO-FOLLOW VIDEO GUIDE

Though incredibly easy to use, the Cuda Settings menu is best understood by seeing it in action!

SCAN QR CODE LINK TO

cudaoptics.com/settings

There are FOUR (4) main steps to using Settings menu as outlined on the following pages: Enter, Select, Use, then Exit.

STEP 1	***STEP 2***	***STEP 3***	***STEP 4***
ENTER SETTINGS	**SELECT** FEATURE	**USE** FEATURE	**EXIT** SETTINGS

Available Features:

Battery Level Check • Intensity Offset • Enhanced Shutoff • Audio

WARNING! Always practice basic firearm safety when adjusting your Cuda reflex sight or using the Settings menu.

STEP 1 **ENTER** SETTINGS

1. Firmly hold your sight (or firearm if mounted) upright, then tap the front of the sight THREE (3) times.

   NOTE: Your finger must completely cover the light sensor with each front tap. (See figure on next page.)

2. A chime will sound to confirm you have entered Settings.

WATCH THE VIDEO
cudaoptics.com/settings

Figure 9: Proper Finger Placement

Completely cover the light sensor with each front tap.

STEP 2 **SELECT** FEATURE

1. HOLD your finger over the light sensor.
2. LISTEN for the cue for the feature you wish to select. (See figure on next page.)
3. RELEASE your finger *after* you hear the cue.
4. A chime will sound to confirm you have selected a feature.

Figure 10: Hold, Listen, Release

Hold your finger over the sensor until you hear your cue.

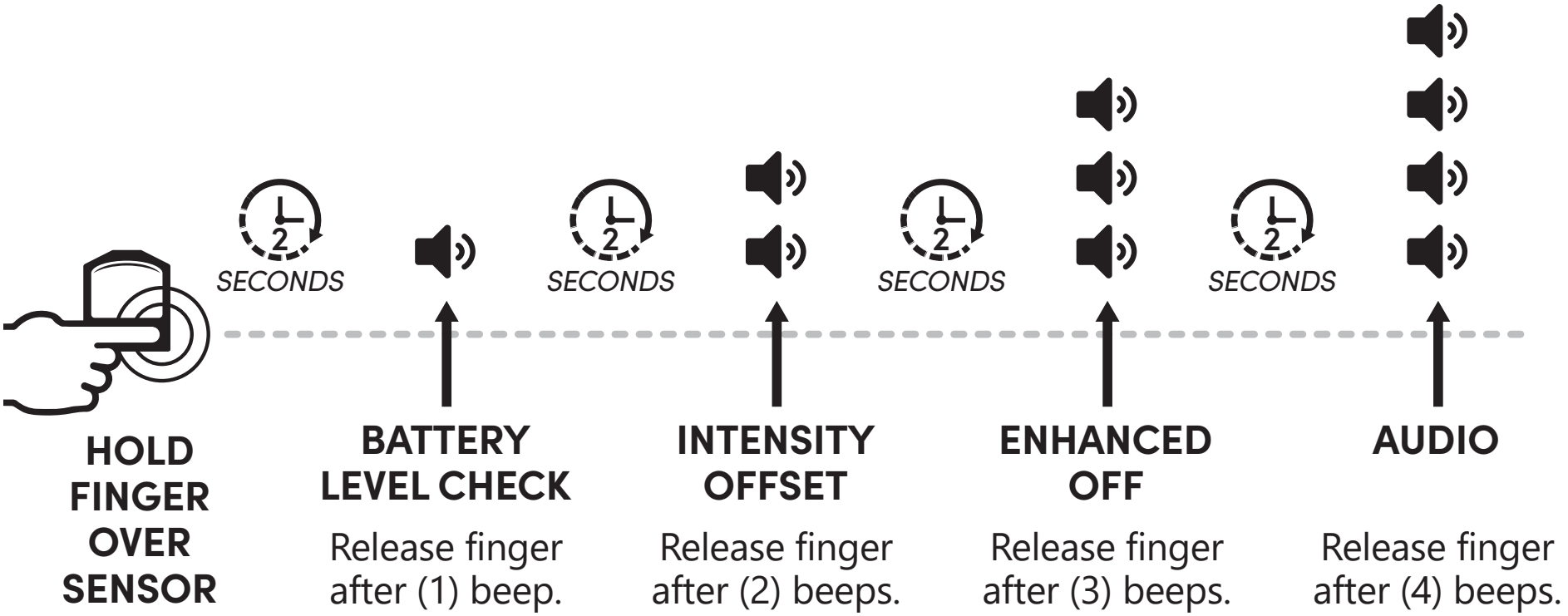

Figure 11: Settings Menu Audio Cues

Release your finger *after* you hear the appropriate number of beeps.

STEP 3 **USE** FEATURE

❶ Use your selected feature according to the table below.

	Feature	Action					
1	**BATTERY LEVEL**	Automatic report through beeps/reticle flashes					
		BEEPS	5	4	3	2	Beeping
		BATT%	80-100	60-80	40-60	20-40	<20*
2	**INTENSITY OFFSET**	Tilt **LEFT** then tap side to decrease offset (reticle DIMMER)			Tilt **RIGHT** then tap side to increase offset (reticle BRIGHTER)		
3	**ENHANCED SHUTOFF**	Tilt **LEFT** then tap side to DISABLE			Tilt **RIGHT** then tap side to ENABLE		
4	**AUDIO**						

**For rapid beeping/flashing even after installing a new battery, contact Cuda Support.*

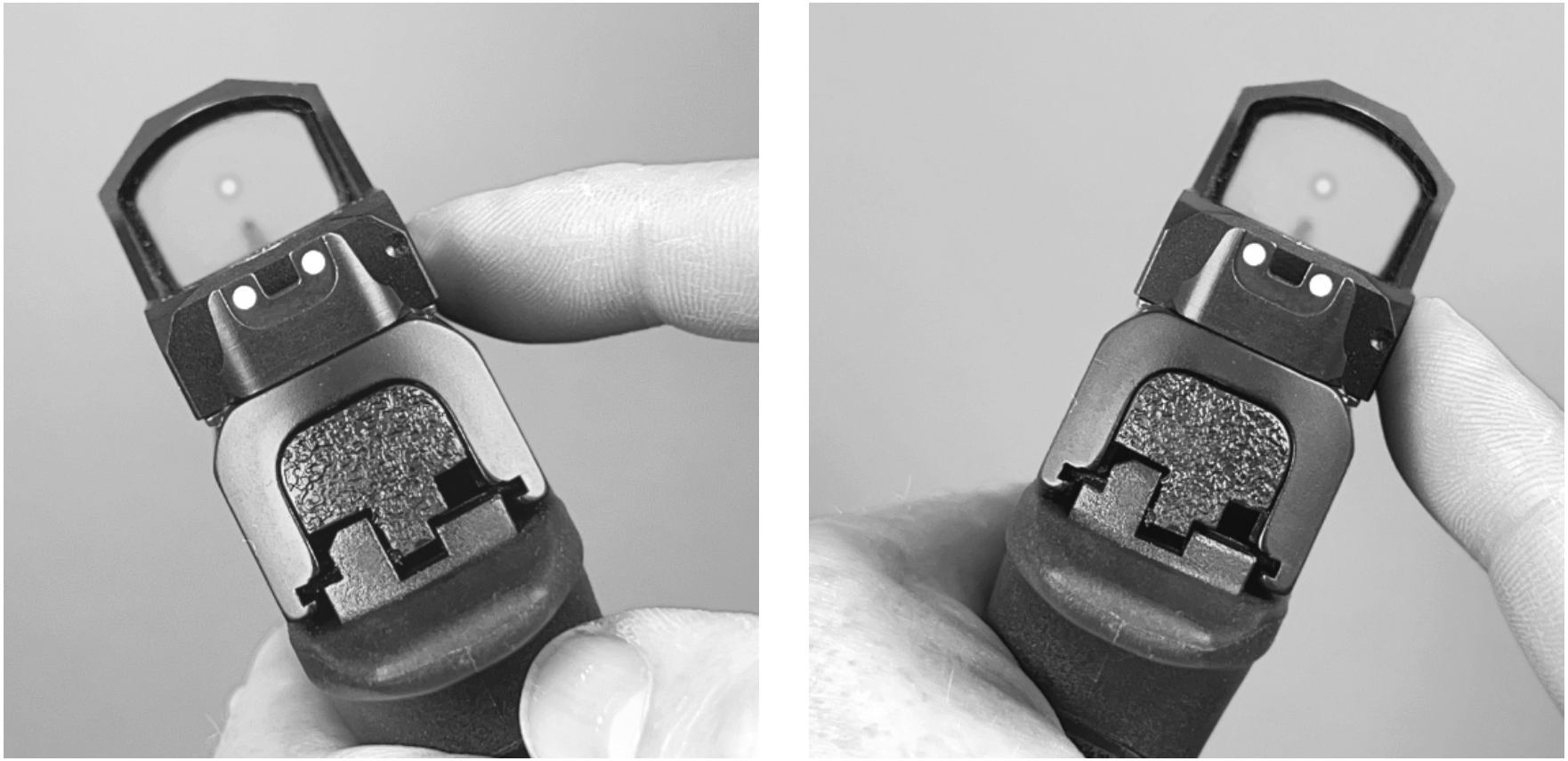

Figure 12: Tilt and Tap

Tilt left or right then tap on either side. A single chime† will sound with each tap.

†*Three (3) beeps will sound when you have reached the min/max Intensity Offset.*

STEP 4 **EXIT** SETTINGS

1. Firmly hold your sight (or firearm if mounted) upright, then tap the front of the sight ONE (1) time.

   NOTE: Your finger must completely cover the light sensor with each front tap. (See figure on next page.)

2. A chime will sound to confirm you have exited Settings.
3. Your preferred setting is now saved.

Note: *You do not need to manually exit Settings after a battery level check. After your battery level has been reported, a chime will sound to confirm the Settings menu has been exited automatically.*

Figure 13: Proper Finger Placement

Completely cover the light sensor with each front tap.

5. WINDAGE & ELEVATION ADJUSTMENTS

Your Cuda sight is shipped with its reticle centered within the lens during the manufacturing process. However, minor adjustments may be necessary to zero your bullet's Point of Impact (POI).

To adjust the POI, turn the windage/elevation dials (see *Figure 1: Cuda RX-795* on page 2) by inserting the small flathead end of the supplied multi-tool into the slot on the dial. One click of each dial equals 1 MOA (Minute of Angle) or approximately 1 inch at 100 yards.

5.1 Windage (Right Dial)

- Turn the dial clockwise to move POI left.
- Turn counterclockwise to move POI right.

5.2 Elevation (Top Dial)

- Turn clockwise to move POI down.
- Turn counterclockwise to move POI up.

Note: *Your Cuda sight should be re-zeroed each time you mount it to a different firearm.*

Note: *If you feel resistance turning the windage/elevation dials, do not use excessive force. You may be at the end of the adjustment range.*

6. CARE & MAINTENANCE

Other than changing your battery when necessary, your Cuda sight requires very little maintenance to keep it up and running.

To clean your sight, first remove any loose dirt with a small brush or compressed air. Then, using the supplied microfiber cloth or a soft cleaning cloth of your choice, gently remove any remaining dirt from the housing and lens. A small amount of water or rubbing alcohol may be used to dampen the cloth.

7. POWER RESERVE MODE

When your battery level drops below 20%, your Cuda sight will rapidly beep/flash before powering off. If this warning is repeatedly missed or

ignored and your battery level reaches 5%, your Cuda sight will enter Power Reserve Mode. Power Reserve Mode prioritizes the reticle (LED) over all other functions. Therefore, while in Power Reserve Mode:

- SecureTaps, Intensity Offset, and Audio are disabled.
- Enhanced Shutoff is enabled.
- The reticle will flash rapidly for several seconds after powering on and just before powering off.

To exit Power Reserve Mode, simply replace your battery. (See *Section 3.1: Battery Installation* on page 19.)

Note: *If an Intensity Offset was saved before your Cuda sight entered Power Reserve Mode, it will be restored after replacing your battery.*

8. TROUBLESHOOTING

My sight does not register my SecureTaps. What should I do?

Be sure you're holding your sight or firearm (if mounted) firmly. Moving your sight around while performing SecureTaps will make it difficult for the accelerometer to isolate and detect movement generated by taps.

Also, be sure to completely cover the light sensor on the front of the sight with each tap. Your Cuda sight must detect both change in motion and change in light to properly register SecureTaps. (See *Figure 9: Proper Finger Placement* on page 25.)

SecureTaps are temporarily disabled while your sight is in Power Reserve Mode. (See *Section 7: Power Reserve Mode* on page 34.)

Why does my sight rapidly flash the reticle when I pick it up or rapidly beep/flash after I set it down?

Rapid reticle flashing and beeping for several seconds generally indicates it's time to replace your battery. (See *Section 3.1: Battery Installation* on page 19.)

When your battery level drops below 20%, your Cuda sight will flash the reticle when powering on and beep/flash just before powering off.

Reticle flashing (without beeps) while powering on and off may also indicate that your sight has entered Power Reserve Mode. (See *Section 7: Power Reserve Mode* on page 34.)

If your sight continues to beep/flash even after installing a new battery, a diagnostic test has failed. Please contact Cuda Support.

Why does my sight beep three times when increasing or decreasing my Intensity Offset?

You've reached the minimum or maximum Intensity Offset.

9. FREQUENTLY ASKED QUESTIONS

How can I mount the Cuda RX-795 to my gun?

Your Cuda sight can be installed on most optic-ready guns by using a mounting plate provided by your firearm manufacture. If your firearm has a Picatinny rail, you can use the Picatinny mount supplied with your Cuda reflex sight. For other firearms, you may need to purchase a mounting plate from a third-party manufacturer. See our Mounting Guide online at **cudaoptics.com/mounting** for more details.

How do I adjust the brightness of the reticle?

Your Cuda sight features IntelliDOT for ideal reticle brightness in lighting all environments. But if you prefer a reticle that is brighter or dimmer than the one chosen by IntelliDOT, you can specify an "Intensity Offset" for IntelliDOT to use when calculating your reticle's intensity. (See *Section 4: Settings Menu* on page 22.)

How do turn my sight on and off?

Your Cuda sight turns on and off automatically. An accelerometer within the sight detects change in motion, so it knows when it's being used and when it's not. For example, if you place your sight in a safe or even if you have it holstered at your side, it will automatically power down and remain off until you pick it up to use it again. (See *Section 2.2: Instant On / Enhanced Shutoff* on page 8.)

What kind of battery do I need and how long will it last?

Your Cuda sight is powered by a single 3-volt CR1632 lithium battery. See *Figure 16: Average Battery Life* on page 43.

What is MOA?

MOA stands for Minute of Angle. One MOA is equal to 1/60th of one degree in a circle. A dot that is 1 MOA will appear to be approximately 1 inch in diameter on a target that is 100 yards away. A dot that is 3 MOA will appear 3 inches in diameter at the same distance. Visit **cudaoptics.com/moa** to learn more.

What mounting footprint does the RX-795 use?

One of the most common footprints in the industry! (See next page.)

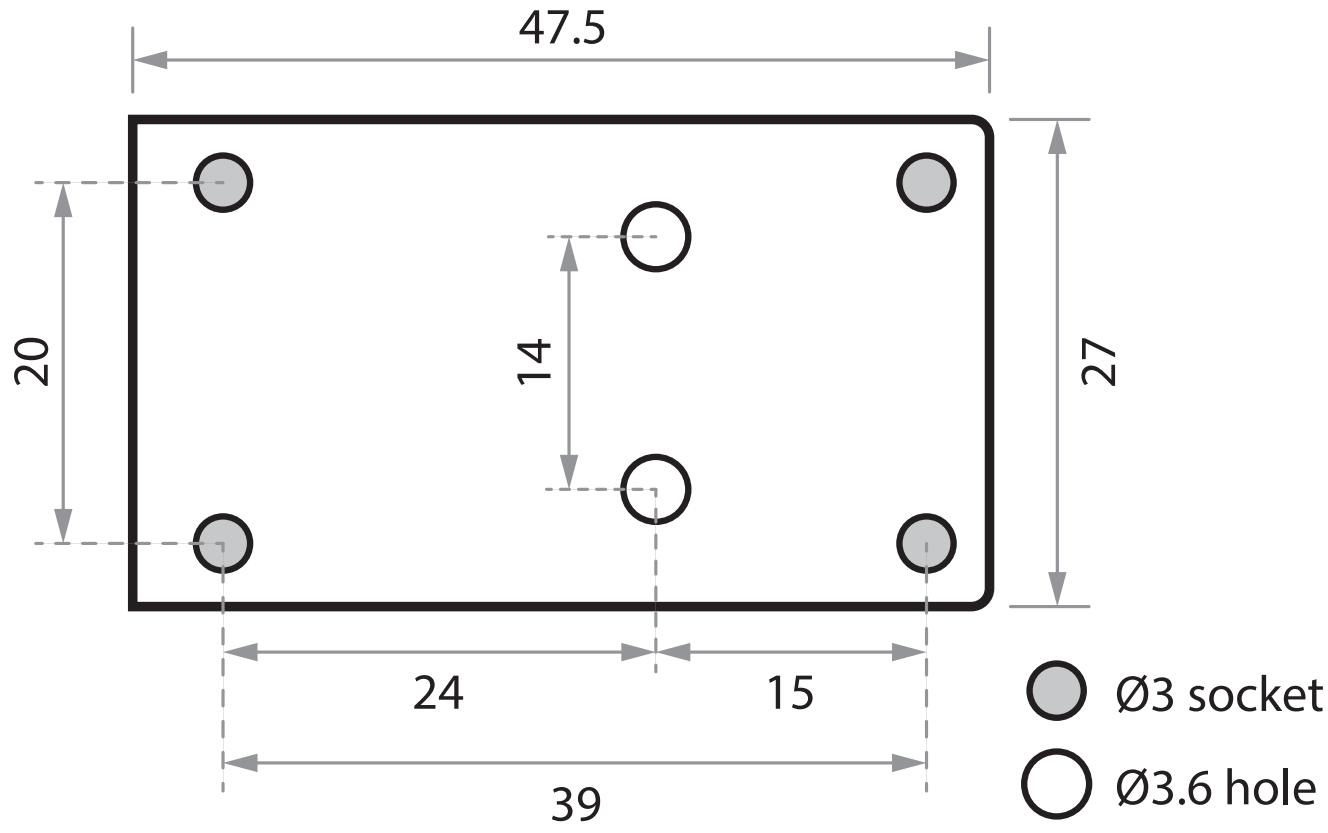

Figure 14: Docter/Noblex Standard Footprint

All units in millimeters (mm)

10. SPECIFICATIONS

10.1 RX-795 (all models)

Figure 15: Specifications

Specification	RX-795r3	RX-795r6	RX-795g3	RX-795g6
Reticle Size/Color/Type:	3 MOA red dot	3 MOA red dot	3 MOA green dot	3 MOA green dot
Power Supply:	One (1) CR1632 3-volt lithium battery			
Dimensions:	49 mm (L) x 27 mm (W) x 29 mm (H)			
Footprint:	Docter/Noblex standard (see Figure 14 on page 41)			
Weight:	38 grams (1.34 ounces)			
Waterproof Rating:	IPX7 (submersed one meter for 30 minutes)			
Housing Material:	6061 aluminum alloy			
Adjustments:	Windage and elevation, 1 MOA per click			

10.2 Battery Life (all models)

Type of User	Frequency of Use	Usage Scenario	Average Battery Life
Light	Yearly	Annual range practice	10+ years*
Casual	Monthly	Monthly range practice	8 years
Heavy	Weekly	Weekly range practice Quarterly competitions	4 years
Competitive	Biweekly	Biweekly range practice Bimonthly competitions	2 years

Figure 16: Average Battery Life

*Changing lithium batteries after (8) eight years is recommended regardless of available charge.

11. WARRANTY

Zvetco LLC. (“Zvetco”) warrants this Cuda optical product (“Product”) against defects in materials or workmanship for a period of (5) years from the original date of purchase.

In the event of a defect, these are your exclusive remedies.

Labor: For the limited warranty period, Zvetco will repair defects in the Product at no charge. After the applicable period you must pay for all labor charges.

Parts: For the limited warranty period, Zvetco will supply, at no charge, new or rebuilt, at Zvetco’s option, replacement parts in exchange for parts. Any replacement parts will be warranted for the remainder of the original warranty period. All parts replaced under this Limited Warranty will become the property of Zvetco.

This Limited Warranty does not cover any consumable items supplied with this Product; cosmetic damages; damage due to (1) acts of God, accident, misuse, abuse, negligence, commercial use or modifications of this Product; (2) improper operation or maintenance of this product; (3) connection to improper voltage supply; (4) attempted repair by any party other than a Zvetco authorized personal computer service facility; or (5) tampering with internal components.

This Limited Warranty is valid only in country of purchase, either the United States of America or Canada.

This Limited Warranty is invalid if the factory applied serial number has been altered or removed from the product.

Repair or replacement of parts or hardware as provided under this Limited Warranty is the exclusive remedy of the consumer.

ZVETCO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER LEGAL THEORY RELATED TO THIS PRODUCT. SUCH DAMAGES INCLUDE BUT ARE NOT LIMITED TO, LOSS OF PROFITS, LOSS OF REVENUE, LOSS OF DATA, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DOWN TIME AND PURCHASER'S TIME. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

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12. CUSTOMER SUPPORT

Your complete satisfaction is our goal. If you have any questions about your Cuda reflex sight or need additional support not found in this manual, please contact us.

(321) 422-3991

support@cudaoptics.com

cudaoptics.com

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