



We know that the name VECTOR is an obligation and a promise of excellence. After all, it is the name of an iconic product relied upon by many of the most elite military units around the world. Therefore, making “just another” rangefinding binocular and calling it VECTOR X was never an option.

Our goal from the very beginning of the development of the VECTOR X was to create a rangefinding binocular specifically for the needs of the most discerning long-range shooters and hunters. It offers superior range performance, rugged and reliable mechanics and a superb optical system. With three magnifications to choose from, there is a VECTOR X for every use case.

However, what truly sets the VECTOR X apart is its unrivaled usability and the many unique features and solutions that you will not find in any other rangefinding binocular available. With this short document, we want to highlight these features and solutions.

ABOUT VECTRONIX SHOOTING SOLUTIONS

1921



SWISS ROOTS

The Theodolite establishes the foundation for the Swiss surveying industry.

WILD
HEERBRUGG

WILD LEITZ

2003



VECTRONIX

With the highly successful VECTOR as our namesake, VECTRONIX is founded in Heerbrugg, Switzerland.

2012



PLRF

The Pocket Laser Rangefinder is refined to enhance the capabilities of SOF snipers.

2018



TERRAPIN X

The TERRAPIN X, the civilian adaptation of the PLRF, sets new standards for long-range shooters.

2023



**VECTRONIX
SHOOTING
SOLUTIONS.**

The new commercial business division within Safran Vectronix is established.

The story of our company began more than 100 years ago in Switzerland as a manufacturer of optical surveying instruments. Since then, we have continuously evolved, providing our customers with the necessary tools for obtaining the highest level of precision in acquiring geolocation data.

Throughout the years, we have focused our expertise on military applications of our technologies and today we are the leading manufacturer of electro-optical devices and target acquisition systems for the most elite military units in the world. Our commitment to excellence has earned us the trust of the United States Armed Forces and numerous other NATO countries. Especially snipers have relied on the superior performance and durability of our products, such as the PLRF and the VECTOR product lines, for many years.

When US soldiers, who had employed our rangefinding devices during their service, transitioned back to civilian life and

started to compete in the growing sport of long-range shooting, many of them expressed a strong desire to continue utilizing Vectronix products. This inspired us to begin developing top-tier electro-optical devices tailored specifically for the most discerning long-range shooters and hunters. Vectronix Shooting Solutions was born.

Our primary objective is to assist our customers in achieving that elusive first round hit and doing so quickly. Our cutting-edge products embody unrivaled performance, seamless integration with a diverse range of third-party devices and apps and exceptional user-friendliness. They feature uncompromising quality and durability, reflecting our company's long-standing background in the defense industry.

The TERRAPIN X and VECTOR X series are only the beginning of this new chapter in our company's history, and we hope that you are just as excited about what lies ahead for Vectronix Shooting Solutions as we are.





**VECTRONIX
SHOOTING
SOLUTIONS.**

VECTOR X **THE LEGEND REDEFINED**

KEY FEATURES

- 01 RANGE PERFORMANCE**
- 02 OPTICAL QUALITY**
- 03 RUGGED AND RELIABLE**
- 04 UNRIVALED USABILITY**
- 05 HUD SCREENS**
- 06 APPLIED BALLISTICS INSIDE**
- 07 CONNECTIVITY ECOSYSTEM**
- 08 RANGE ENHANCERS**
- 09 ETCHED RETICLES**
- 10 ATTENTION TO DETAIL**



RANGE PERFORMANCE

Any rangefinding binocular is ultimately judged by its ability to reliably provide accurate distance measurements for challenging, far away targets. With its 905 nm, class 1M laser engine and a narrow beam divergence of only 1.5×0.1 MRAD and fast scan mode (4 measurements per second) the VECTOR X sets new standards in the commercial market segment.

If ultimate range performance is what you demand from your rangefinding binocular, the VECTOR X is the right tool for the job.



7000 yd

max. Range Performance

905 nm

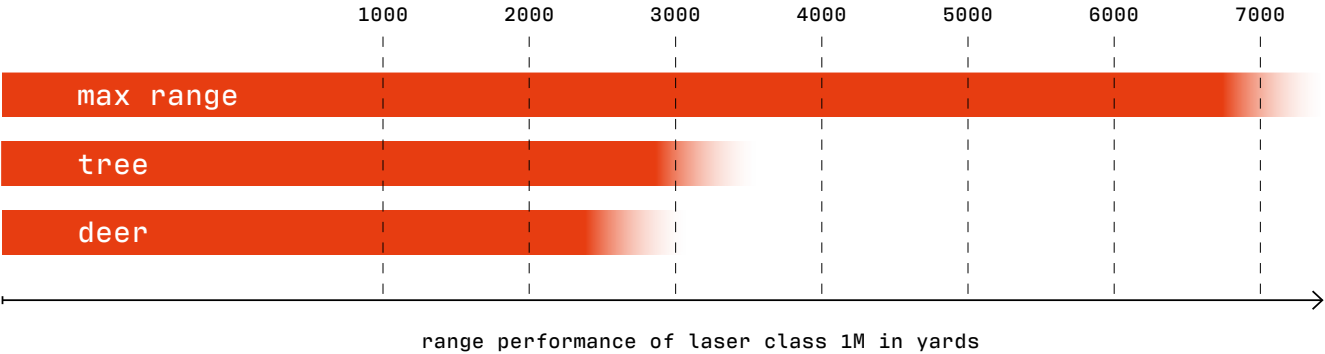
Rangefinder

Laser Class 1M

Eye-Safe

1.5 × 0.1 MRAD

Beam Divergence



OPTICAL QUALITY

The optical quality of a rangefinding binocular can make or break a hunting experience or the result at a shooting competition at which hidden targets have to be located on the clock. With its bright, color-neutral image, high contrast, and wide field of view, the VECTOR X is your ideal partner in situations where every detail counts. Hunters in particular will value the exceptional light transmission of the VECTOR X, allowing them to spot game even in challenging lighting conditions.

The VECTOR X series offers three models to cater to different preferences:
8×42 / 10×42 / 12×42

The 8×42 provides the widest field of view, making it a popular choice among military users. The 10×42 strikes a perfect balance between magnification level and field of view, making it the all-rounder of the series. Meanwhile, the 12×42 caters to users seeking maximum magnification while still maintaining stability when used off-hand.

The optionally available Range Enhancers increase the magnification of all three

models by 40%, making the VECTOR X the ideal rangefinding binocular for every use case.

One of the main challenges in creating a superior optical system for the VECTOR X was balancing two important but conflicting technical objectives. On the one hand, achieving a color neutral image was of paramount importance – especially for hunting use cases. On the other hand, it was maximizing the brightness of the innovative Active Matrix OLED display that is capable of displaying all crucial range and ballistic information on a single screen. Both of these objectives can be in opposition to each other and needed to be balanced carefully to achieve a superior result.

We achieved this by optimizing the coatings of the VECTOR X and by selecting a display capable of generating very brightness levels while still featuring low power consumption. As a result, the VECTOR X achieves a color-neutral image and a display image that maintains optimal brightness even in challenging sunny environments.



RUGGED AND RELIABLE



Manufacturing the most rugged, reliable and durable electro-optical devices is deeply ingrained in our company's DNA, stemming from our strong roots in the defense industry. This commitment to quality is immediately evident when you pick up a VECTOR X for the first time.

The housing of the VECTOR X is made from robust yet lightweight magnesium. Its high-quality rubber armoring protects the VECTOR X in case of falls and provides a

secure, non-slip grip to prevent them from happening in the first place. The focus wheel and diopter adjustment are made from aluminum, as is the mechanism of the twist-up eyecups that click positively into each of the four click stops.

The IP-67 rating of the VECTOR X means that it is protected against solid ingress and that it can sustain momentary water immersion in depths of 1 meter for up to 30 minutes maximum.

UNRIVALED USABILITY

Undoubtedly, a product bearing the VECTOR name is expected to embody rugged durability, reliable mechanics, superior range performance, and exceptional optical quality. However, what truly distinguishes the VECTOR X from any other rangefinding binocular in the commercial market is its unrivaled level of usability. Incorporating an intuitive Human-Machine Interface (HMI), the VECTOR X ensures that whether you're a novice or an experienced user, you'll instantly grasp its operation the moment you pick it up for the first time. Its user-friendly design guarantees effortless usability, making it accessible to all levels of proficiency.

If you have ever used an electronic device equipped with a D-Pad, you will immediately know how to operate your VECTOR X. Instead of having to learn button combinations as with many other rangefinding binoculars on the market, the five button D-Pad of the VECTOR X lets you navigate its menus intuitively and effortlessly. Its groundbreaking Active Matrix OLED display not only looks great but it also plays a vital role in giving the VECTOR X an unrivaled level of usability.

Unlike displays used in many other rangefinders, the display of the VECTOR X is significantly more capable. This means that navigating menus, changing units or checking which gun profile is activated is intuitive and effortless.

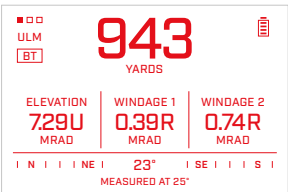
Often it is time that makes the difference if you succeed in hitting a challenging target or not. While on a hunt, it might be losing precious seconds due to having to operate two separate devices to get a firing solution. At a shooting competition, not knowing how much time is left to complete a stage might lead to missing the final shot. Therefore, your VECTOR X has four pre-programmed shortcuts. By a long press of the directional keys of your VECTOR X you can instantly activate important features that might help you succeed in making your next time critical shot. The pre-programmed shortcuts let you select the laser mode, set a timer or stop watch, activate or deactivate Bluetooth or populate a target card.



HUD SCREENS

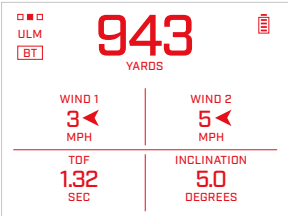
With each range measurement, your VECTOR X measures and calculates extensive additional target information. This information includes the target azimuth, inclination or the precise firing solution calculated by the Applied Ballistics Elite solver integrated in your VECTOR X. However, this wealth of information also presents a challenge. Only if it is well arranged on the display and in a large enough font

size, is the user able to locate the needed information effortlessly. Our solution to this challenge are the three separate HUD screens of the VECTOR X that display the target information arranged by order of importance. By pressing the left or right button of the D-Pad of your VECTOR X, you can swiftly toggle between the three HUD screens to access the different types of target information.



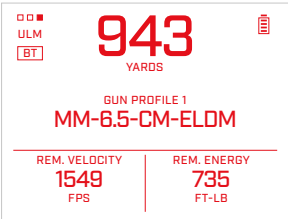
HUD SCREEN 01

Besides the target distance and azimuth, the first HUD screen displays the most important information for shooting related uses cases: elevation and two windage values (depending on wind direction and speed) calculated by Applied Ballistics Elite. Within this HUD screen you can effortlessly adjust the display brightness level using the up and down buttons.



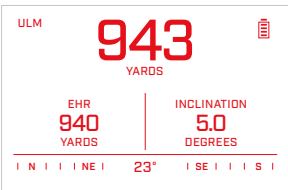
HUD SCREEN 02

The second HUD screen shows your wind presets (Wind 1 and Wind 2). You can easily adjust the wind speed within this HUD screen with the up and down buttons of the D-Pad. Also displayed on the second HUD screen are the inclination to your measured target and the time of flight of the bullet according to the activated gun profile.



HUD SCREEN 03

The third HUD screen displays the activated Gun Profile and the remaining energy and velocity of the bullet at the measured target distance.



NO BALLISTICS

If you do not use the Applied Ballistics Elite features of your VECTOR X, all target information generated with a measurement is displayed in one single HUD screen. Besides the measured distance it shows the target azimuth, inclination and the Equivalent Horizontal Range (EHR).

APPLIED BALLISTICS INSIDE



Assisting you in achieving that elusive first-round hit is an integral part of our mission. In addition to its formidable optics and powerful rangefinder, the VECTOR X is equipped with Applied Ballistics Elite on-board as standard.

With more than 800 bullets in its library, Applied Ballistics Elite has quickly become the ballistics solver of choice for many elite military units worldwide. With a press of the range button, your VECTOR X displays a precise firing solution for your rifle setup on its HUD screen without target distance limitations.

Thanks to the revolutionary Active Matrix OLED display of the VECTOR X, the elevation value and two windage values fit on a single screen, significantly reducing the time required to adjust your riflescope and make the shot.

You can generate and adjust gun profiles using the Vectronix Shooting Solutions app and you can store up to 30 profiles on your VECTOR X itself. Toggle to the third HUD screen to verify swiftly the currently activated gun profile.

Please contact us to get the latest version of the mobile app for iOS or Android.





**THE VECTOR X FEATURES
UNSURPASSED PERFORMANCE,
UNRIVALED USABILITY, AND
UNIQUE FEATURES TAILORED
FOR THE MOST DISCERNING
LONG-RANGE SHOOTERS AND
HUNTERS.**



VECTOR X KEY FEATURES

CONNECTIVITY ECOSYSTEM

Your VECTOR X is much more than just a rangefinding binocular and the Vectronix Shooting Solutions app is the key to extending its capabilities tremendously. Besides being a convenient tool for adjusting general settings and transferring them to your VECTOR X, the app offers many innovative features tailored to long-range shooters and hunters.

With the app, you generate your gun profiles, which – after having been transferred to your VECTOR X – are used by its onboard Applied Ballistics Ballistic Elite solver to calculate precise firing solutions according to your measured target distances.

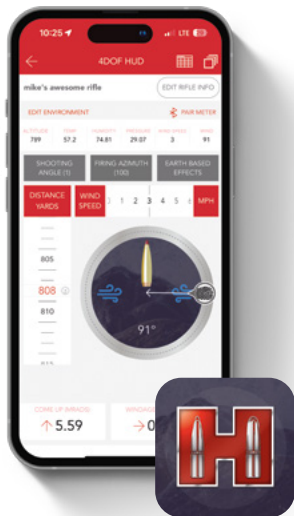
The target card feature of the Vectronix Shooting Solutions app allows you to populate a target card for multiple targets. By triggering range measurements remotely with the app, target information and firing solutions for each measured target are arranged in a target card. You can then transfer your target card to an E-DOPE card or save it as a PDF-document. When printed out and cut to size, place your range card in the transparent compartment of the lid of the soft case of your VECTOR X.



Kestrel 5700 Ballistic weather meters have become an essential piece of equipment for many long-range shooters and hunters. Not only because they measure important environmental data but also due to their integrated ballistics solvers. The top models of the 5700 are equipped with either Applied Ballistics Elite or Hornady 4 DOF. When you connect your VECTOR X with a Kestrel 5700 Ballistic weather meter, the environmental data measured by it will be used by default by your VECTOR X for calculating firing solutions.

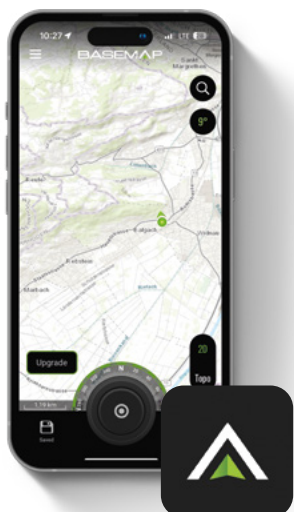
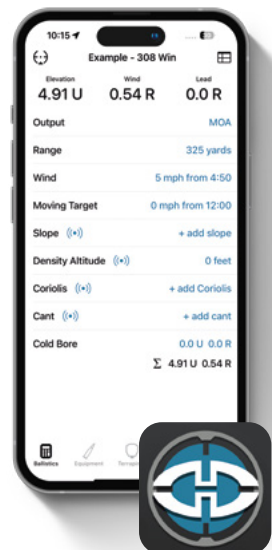
Garmin wrist-mounted computers are robust, high-performance navigational devices engineered to meet U.S. military standards. These rugged devices, equipped with integrated Applied Ballistics Elite software, are widely utilized by military personnel and civilian shooters worldwide. When connected to a compatible Garmin device featuring Applied Ballistics Elite, your VECTOR X transmits precise measurements of distance, azimuth, and inclination to the Garmin device. Currently the following Garmin wrist-mounted computers are compatible with the VECTOR X: Foretrex® 701/901 Ballistic Edition, tactix® Delta-Solar Edition tactix® 7, instinct® 2X Solar Tactical Edition.





Connect your VECTOR X to the free app version (available for Android and iOS) of the Hornady 4DOF calculator and get highly accurate ballistic solutions even in areas without wireless connection. Since the release of the app in August 2016 its user base has grown to over 300 000 active users – a clear testament to the high quality of the Hornady 4DOF ballistic calculator.

The TRASOL iOS app, developed by renowned precision rifle manufacturer Desert Tech, is a great connectivity partner for your VECTOR X. It is a powerful tool for long-range shooters who shoot to 1500 meters and beyond. Besides providing highly accurate ballistic solutions and a very high level of usability, TRASOL also incorporates heads-up display (HUD) technology that uses the built-in camera and onboard sensors of your iPhone and iPad.



Connectivity to mapping apps such as BaseMap is planned.

VECTOR X KEY FEATURES



RANGE ENHANCERS

Over the years, we have delivered a significant number of military VECTOR rangefinding binoculars to the different branches of the US Armed Forces. Responding to their request for increased magnification, we developed optional screw-on Range Boosters, which increase the base magnification of the VECTOR by 40%. This accessory quickly gained popularity and became an immediate success. As we embarked on the development of the VECTOR X, it became evident that a similar accessory that increases magnification would be an essential element we wanted to incorporate.

This accessory for the VECTOR X are the optionally available Range Enhancers. They also offer an increase in base magnification by 40% and are easily installed by screwing them onto the threaded objectives of the VECTOR X.

With the Range Enhancers installed, magnification of the VECTOR X is significantly increased:

- **8×42 becomes 11×42**
- **10×42 becomes 14×42**
- **12×42 becomes 17×42**



ETCHED RETICLES

An etched reticle is an invaluable feature in a rangefinding binocular when calling hits at long distances. As a manufacturer of electro-optical devices for military applications, having an etched reticle implemented in the VECTOR X is part of our DNA. For the VECTOR X, two types of MRAD-based reticles are available. They are designed by FinnAccuracy, renowned for their MSR series of reticles available for many top-tier riflescopes. The choice between these reticles depends on your main use case and whether you plan to use your VECTOR X with the optionally available Range Enhancers. Both reticles feature an etched aiming mark and the upper half of the field of view is unobstructed, which is especially important when glassing terrain.

MRAD-BASED DUAL MAGNIFICATION RETICLE

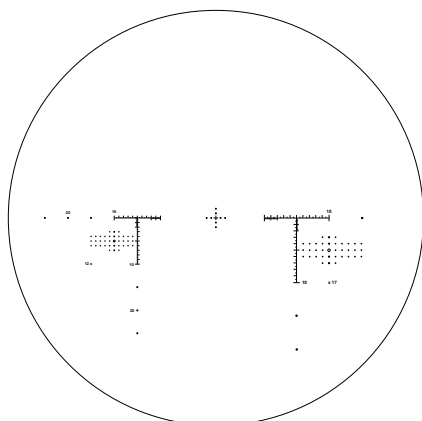
The MRAD-based Dual Magnification Reticle (MSR-DMR) is specifically designed for use in the VECTOR X with installed optional Range Enhancers that increase its magnification by 40%. With the MSR-DMR the VECTOR X has a calibrated reticle for both magnification levels. The MSR-DMR consists of two reticle segments that are separated by the display in between. This distinct separation makes it easy and intuitive for users to choose the correct reticle segment when calling hits or making calculations. The right reticle segment of the MSR-DMR

is to be used when the Range Enhancers are installed on the VECTOR X. This segment takes into account the increased magnification provided by the Range Enhancers, allowing for accurate range estimation, holdovers, or any other calculations required. On the other hand, the left reticle segment is intended for use with the base magnification of the VECTOR X without the Range Enhancers installed. By incorporating the MSR-DMR into the VECTOR X, users can seamlessly switch between the two reticle segments based on whether they have the Range Enhancers installed or not. This ensures optimal performance and accuracy in various shooting scenarios.

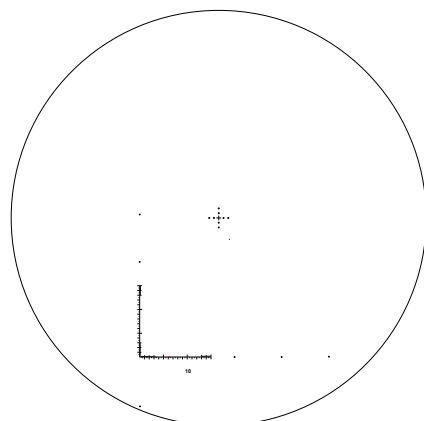
SINGLE MAGNIFICATION RETICLE

The Single Magnification Reticle (MSR-SMR) of the VECTOR X is also MRAD-based. It caters specifically to users who prefer a clean and simplistic L-reticle design. Opting for the MSR-SMR does not restrict the use of the optional Range Enhancers. However, it is important to note that the hashmarks of the MSR-SMR are not magnified by the Range Enhancers when installed. Users should keep this in mind when using the MSR-SMR for calling hits when the Range Enhancers are installed on their VECTOR X.

The MRAD-based Dual Magnification Reticle (MSR-DMR)



The Single Magnification Reticle (MSR-SMR)



VECTOR X KEY FEATURES

ATTENTION TO DETAIL

The VECTOR X, mounted to a tripod and with the optionally available Range Enhancers installed, transforms into a formidable spotting device. Unlike other binoculars, its tripod interface is integrated into the lower side of the main body and positioned perpendicular to the laser button. This prevents the device from shaking or wobbling when the laser button is pressed. As standard, the VECTOR X comes with a mounting plate featuring a universal $\frac{1}{4}$ " thread, allowing for easy attachment to most tripods. Additionally, Really Right Stuff (RRS) SOAR division and Area 419 both offer high quality ARCA-compatible mounting plates specifically designed for the VECTOR X that mount directly to its tripod interface.



Mounting interface



Flip-up lens cover

A string secures the battery cover of your VECTOR X to the main device. This design feature serves two important purposes. Firstly, it prevents the battery cover from getting lost when changing the battery. Secondly, it fulfills a common mandatory requirement in military tenders for electro-optical devices.



A string secures the battery cover

Sometimes, the sum of its innovative small details truly sets a product apart. We believe that the objective flip-up lens covers of the VECTOR X are one of these exceptional features. They are designed for quick and easy installation and operation, offer a full 360° rotation and protect the lenses of the VECTOR X effectively against scratches. When open, they are flush with the main body of the VECTOR X, ensuring they won't get caught on anything.

Your VECTOR X features an M46×0.75 front objective thread, which serves multiple purposes. Firstly, it enables the installation of optional Range Enhancers that increase the magnification of your VECTOR X by 40%. Additionally, this thread can be utilized for attaching [honeycomb] Anti-Reflection Devices (ARD), which are commonly employed by snipers. High quality anti-reflection devices made by Tenebræx are available as an optional accessory.



Optional Anti-Reflection Device, made by Tenebræx

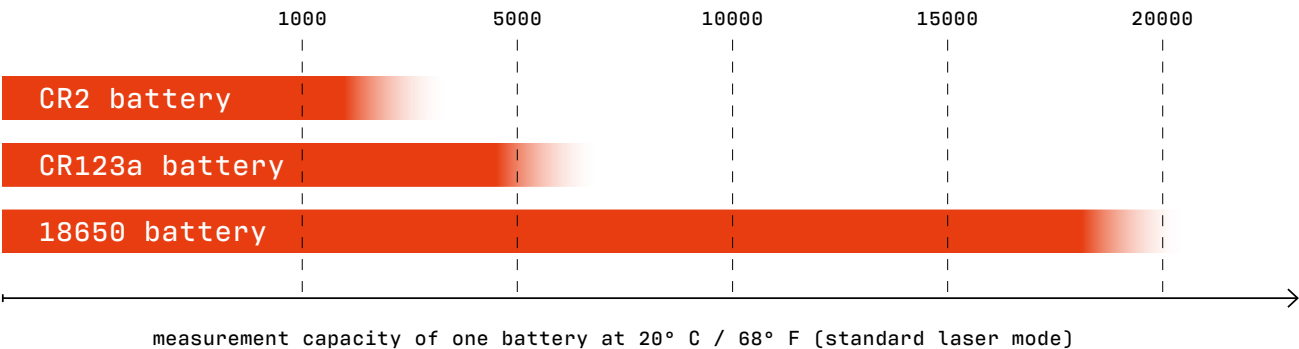


CR123 batteries

Being in a situation where you cannot range a target because your rangefinder's battery has drained is a frustrating scenario we wanted to eliminate. That is why we focused on optimizing the battery life of the VECTOR X during its development. We took several measures to achieve this goal.

Firstly, we designed the VECTOR X with inherently low power consumption. Additionally, we deliberately selected CR123 batteries as its main power source for their longer runtime, which is 1.5 to 2 times that of CR2 batteries. Furthermore, CR123 batteries are widely available.

But that's not all. The VECTOR X is the first rangefinder on the market that can be powered by 18650 rechargeable batteries. To support this feature, the VECTOR X comes with an optional extended battery cap as part of the standard scope of delivery. With an 18650 battery, which can endure 300-500 charge cycles depending on the model, you can expect approximately 1.5 to 2 times longer runtime compared to a CR123 battery.





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