

**WILCOX<sup>®</sup>**

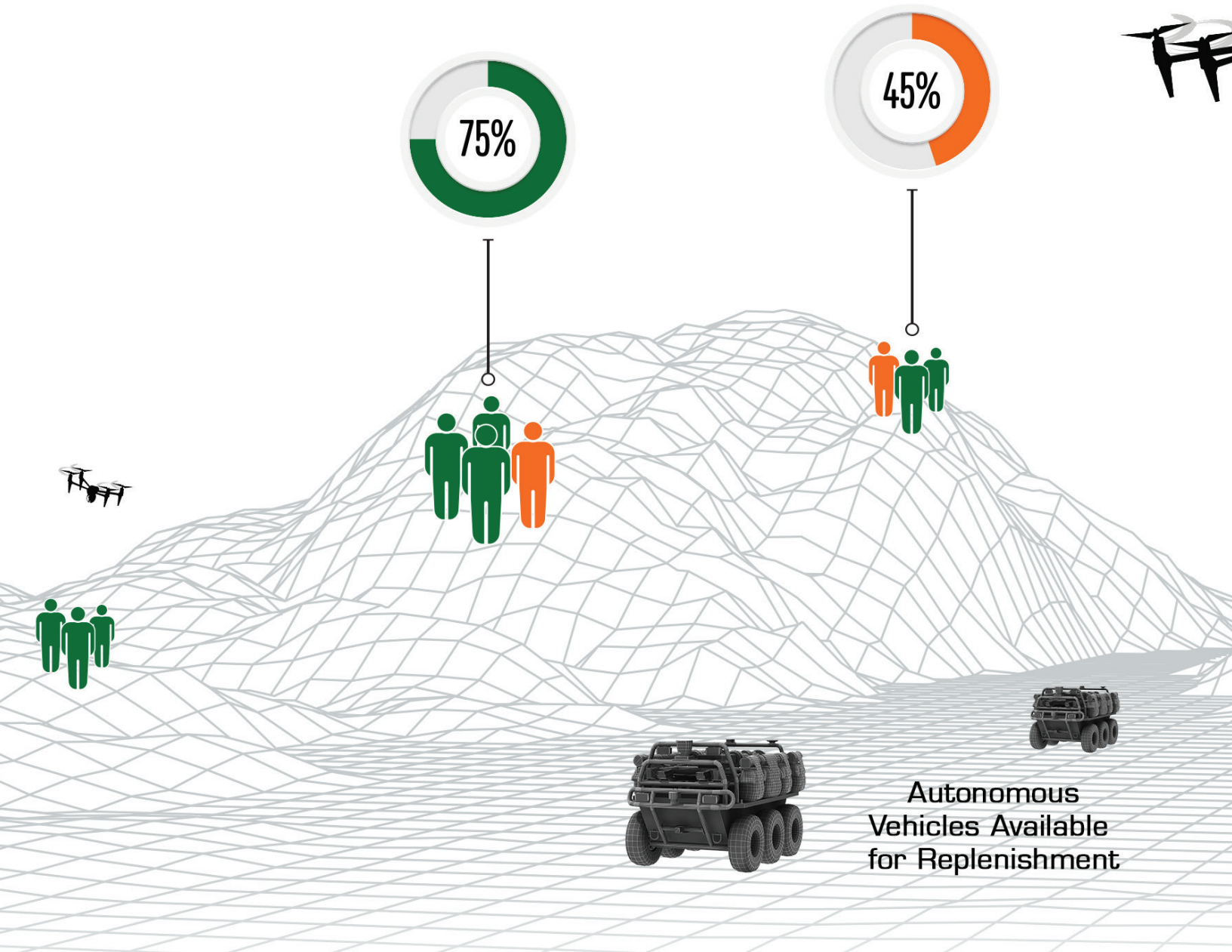


**Xe P R O D U C T B R O C H U R E**



# OPERATIONAL SUSTAINMENT

BY BLUEFORCE DEVELOPMENT



**Battlefield**, disaster response, and public safety sustainment is both an art and science; it's about synchronizing, integrating, and transporting commodities in a highly "just-in-time" manner to provide maneuver and incident commanders with freedom of action, extended operational reach, and prolonged endurance. As it turns out, the "science" of sustainment is not terribly difficult as it is grounded in basic math and computation, based on real-time data from the operational space. A fire team deploys with X amount of ammunition multiplied by the number of soldiers on a fire team, and then an ability to monitor ammunition consumption in real-time. The same calculus can be made for food, water, fuel, medical necessities, and nearly every other class of supply.

The "art" of sustainment is about considering how the tactical or incident response environment affects logistics and resupply. The "cog" at the center of the autonomous replenishment machine is data and situational awareness, fed by an array of IoT sensors (body worn and proximate) and stream analytics to anticipate resupply needs. Using a very simple example, a vehicle that takes X amount of petrol may be started early to warm up on a cold day which will require additional fuel sooner. Similarly, on a hot day with soldiers experiencing an accelerated operational tempo will drive faster and more acute need for resupply of water. Core to the discussion of "art", is all channel access to IoT, GIS, and environmental data, but also recognitional support "services" in the form of rules and AI.

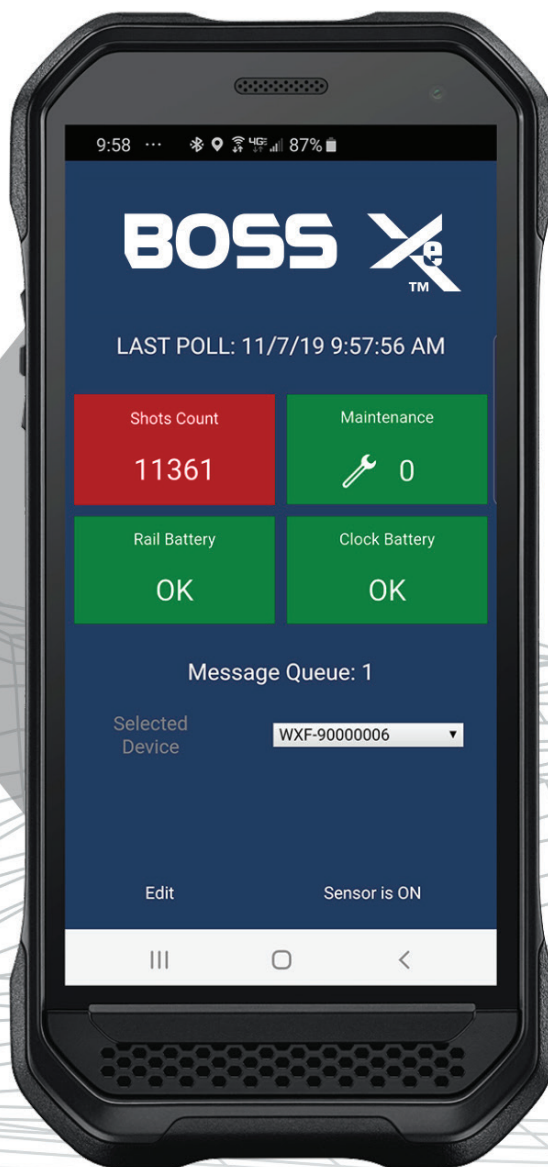
**Autonomous  
Vehicles Available  
for Replenishment**



Drone  
Replenishment  
En Route



Replenishment  
Needed



Wilcox Industries, has partnered with Blueforce Development Corporation and Thunderbolt Solutions to develop a packaged capability for operational sustainment based on deployed fire teams using certain [Wilcox Xe Products](#) and the [Wilcox FUSION System](#). These products house an integrated maintenance counter which monitors the number of rounds fired as well as barrel temperature and other rail sensors and moves weapon data using [BlueforceTACTICAL](#) (BTAC) where the data is shared amongst the fire team and their commander but is also shared with the Wilcox Armorers Module in an armory. Data is also monitored in real-time by Blueforce's new Autonomous Orchestration Plugin for [BlueforceEDGE](#), which monitors a wide array of soldier systems to include the Wilcox FUSION System, Wilcox Xe Products, physiological wearables, CBRN, laser rangefinders/targeting,

and others for single-variant and multi-variant threats. The Plugin contains sets of business rules that can detect active engagement and shot counts, but also looks across an entire deployed fire team versus a single operator. On certain thresholds, the Plugin can launch autonomous drones, track vehicles, or other for resupply and/or over-watch.

IN PARTNERSHIP WITH:

**blueforce**  
DEVELOPMENT

**THUNDERBOLT**



SEE BTAC IN ACTION





**BTAC**

**NETWORKED  
ENABLED CAPABILITY**

## SENSOR TO SHOOTER ADVANTAGE

- Providing actionable, task relevant information to and from networked teammates.
- Shot counter: Monitors shot count which is shared in real time with other users and the Armorer's Module for BlueforceCOMMAND.
- Temperature monitoring: Monitors weapon temperature and can forward based on high and low thresholds.
- Health/power: Monitors and reports maintenance flags or issues as part of the movement of shots, temperature, and location.
- Orthogonal sensor cueing allows the Wilcox BOSS Xe Plugin for BTAC to communicate with other BTAC plugins allowing image capture enabled sights to pass images to BTAC Cognitive Services Plugin for identification and real-time sharing.
- Offline queue: BTAC will hold presence packets when connectivity is denied. When BTAC sees an approved network, it forwards packets cached during offline operations.
- Network friendly Selective synchronization: Plugin may be configured to send ALL shot records, OR, only send those where shot count and/or temperature changes.

[Learn more about BTAC's unique capabilities.](#)

**BOSS X<sup>e</sup>**

**BALLISTICALLY OPTIMIZED SIGHTING  
SYSTEM - ENHANCED - HIGH POWER**



## OVERVIEW

The Wilcox BOSS Xe™ is the next generation in the BOSS line of products. The BOSS Xe is a high power laser aiming device that features a fully integrated, environmentally stable optical bench that houses a reflex sight, red or green visible laser, NIR laser, fixed NIR illuminator, and iron sight all co-aligned to one another. The fixed NIR illuminator, combined with the newly added NIR room illuminator, features best in class overall effective tactical solution in any low light combat situation.

Decisively designed for the assaulter, the BOSS Xe differentiates itself from any other reflex sight on the market. The user can fire both supersonic and subsonic ammunition from the same weapon by simply flipping a trajectory switch that changes the point of aim and point of impact of each round fired without having to re-zero the weapon. This product is available in a red or green laser configuration or in a low power commercial configuration.

[www.wilcoxind.com/BOSS-Xe](http://www.wilcoxind.com/BOSS-Xe)



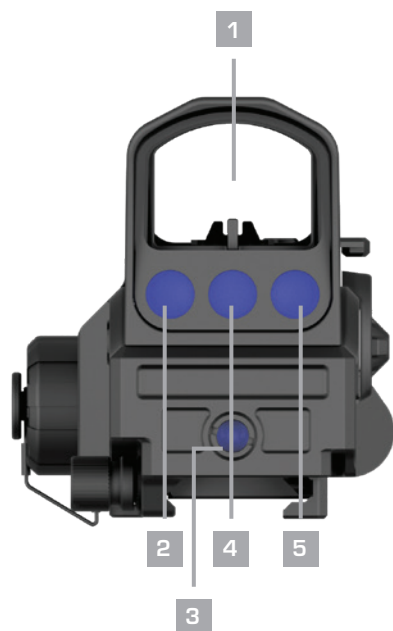
## TECH INSIDE

Download our technical brief, "Investments in Optical and Laser Technologies Increase Effectiveness and Lethality"

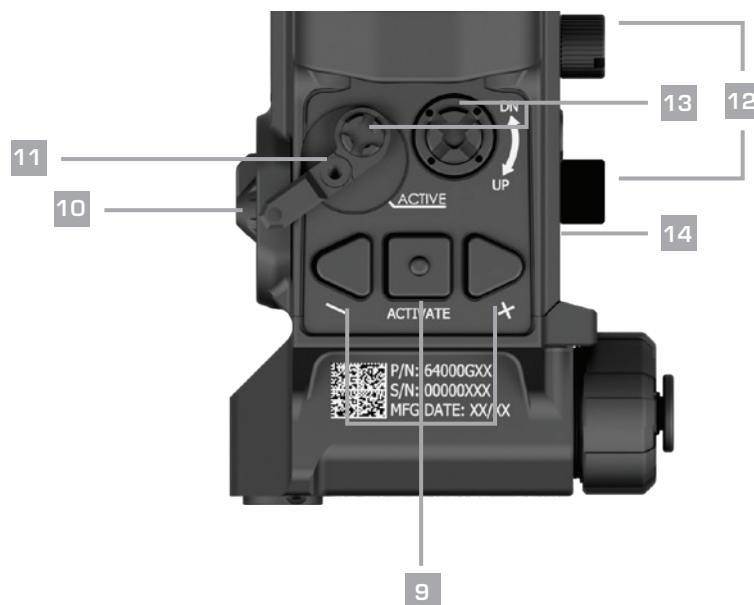
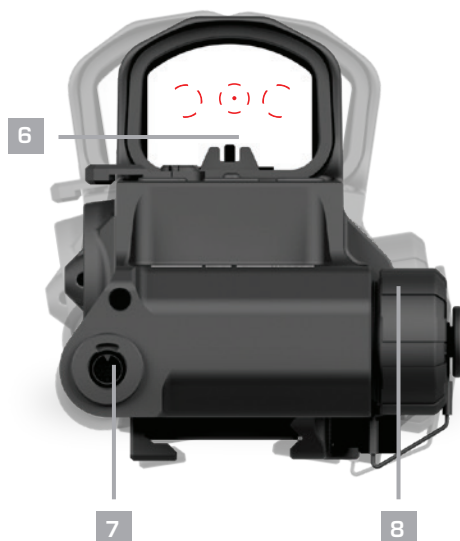
[www.wilcoxind.com/BOSSXe-Brief](http://www.wilcoxind.com/BOSSXe-Brief)

IN PARTNERSHIP WITH:





OFF CANT INDICATOR



## FEATURES & BENEFITS

1. Reflex Sight
2. NIR Laser
3. NIR room Illuminator
4. NIR fixed Illuminator
5. Red/Green VIS Laser
6. Built-in Back Up Iron Sights
7. Remote Control Activation Pad Port
8. Battery Compartment
9. Reflex/Laser/Illuminator Brightness Control
10. Mode Selector Switch
11. Trajectory Switch
12. Shock Nuts Picatinny Mount
13. Elevation Adjustment for Zero Presets 1 & 2
14. Windage Adjustment (not visible)





# RAID X<sup>TM</sup>

## RUGGEDIZED AIMING/ILLUMINATION DEVICE - ENHANCED - HIGH POWER



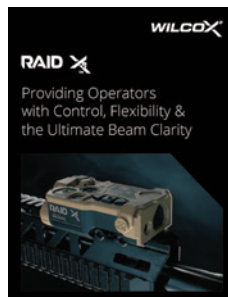
### OVERVIEW

The Wilcox RAID Xe™ High Power is the culmination of years of operator feedback and leading-edge technical advancements. The result is a compact, ergonomic aiming and illumination device with a uniquely rich feature set that achieves the highest standard of optical performance.

Military and law enforcement operators face an array of unique challenges in low or no light environments where quick target acquisition and identification are required. The RAID Xe represents a complete, robust solution for any operator requiring a high degree of awareness, flexibility and accuracy to ensure mission success.

This product is also available in a [low power commercial configuration](#).

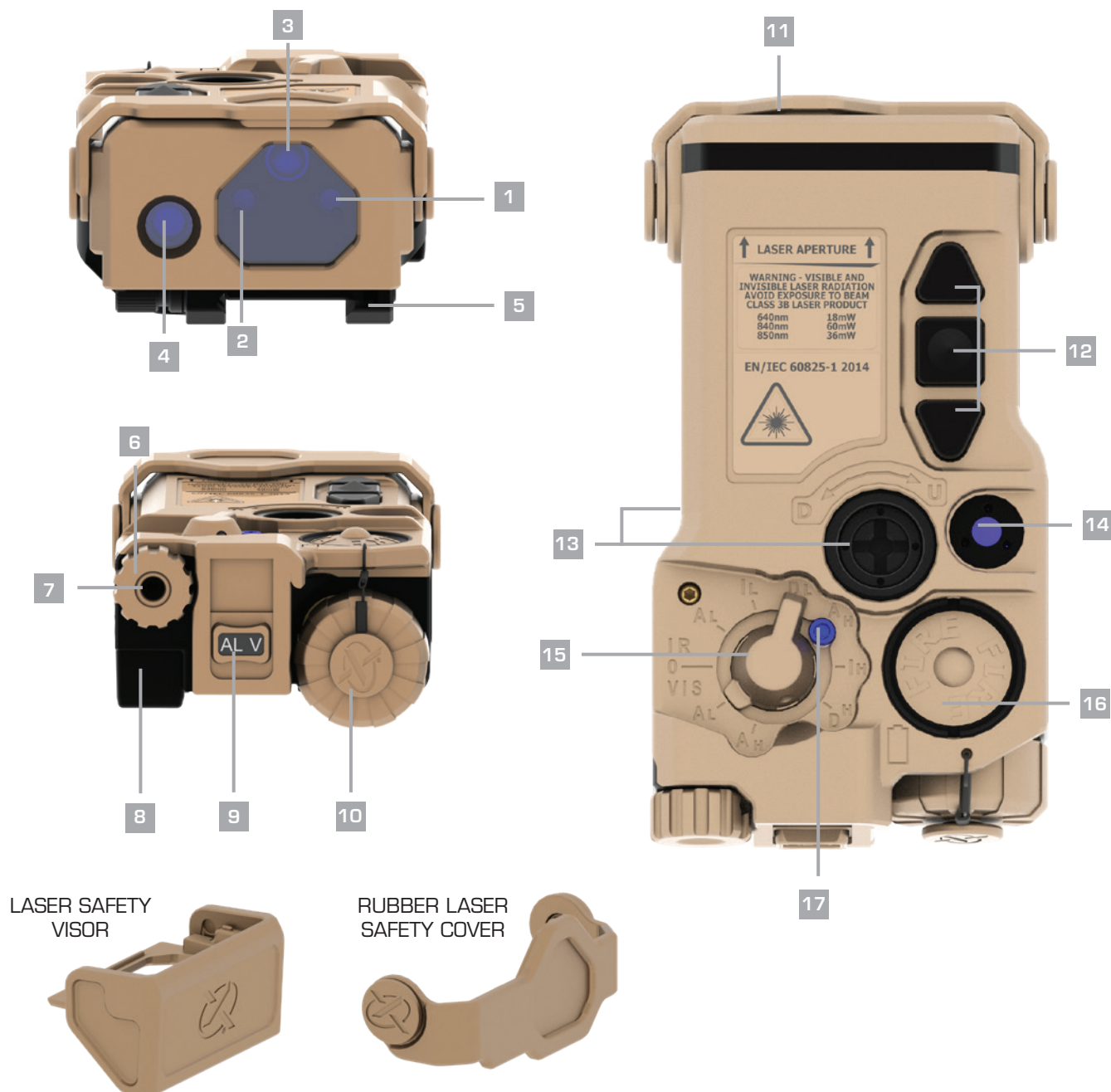
[www.wilcoxind.com/RAID-Xe](http://www.wilcoxind.com/RAID-Xe)



### TECH INSIDE

Download our technical brief, "*Enhanced Laser Technology Give Operators the Ultimate Tactical Advantage*"

[www.wilcoxind.com/RAIDXe-Brief](http://www.wilcoxind.com/RAIDXe-Brief)



## FEATURES & BENEFITS

- |                                       |  |
|---------------------------------------|--|
| 1. Red/Green VIS Laser                | 10. Battery Compartment                        |
| 2. NIR Laser                          | 11. Laser Safety Cover                         |
| 3. NIR Variable Illuminator           | 12. Laser/Illuminator Output Adjustment        |
| 4. NIR fixed Room Illuminator         | 13. Windage (not visible)/Elevation Adjustment |
| 5. MIL-STD-1913/NATO STANAG Interface | 14. Display Light Sensor/Programming Port      |
| 6. NIR Illuminator Divergence Knob    | 15. Mode Selector Switch                       |
| 7. High Power Lockout Screw Storage   | 16. FIRE Activation Button                     |
| 8. Remote/Pressure Pad Port           | 17. High Power Lockout Screw                   |
| 9. OLED Display                       |  |





**BTAC**

**NETWORKED  
ENABLED CAPABILITY**

## SENSOR TO SHOOTER ADVANTAGE

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- Temperature monitoring: Monitors weapon temperature and can forward based on high and low thresholds.
- Health/power: Monitors and reports maintenance flags or issues as part of the movement of shots, temperature, and location.
- Orthogonal sensor cueing allows the Wilcox MRF Xe Plugin for BTAC to communicate with other BTAC plugins allowing image capture enabled sights to pass images to BTAC Cognitive Services Plugin for identification and real-time sharing.
- Offline queue: BTAC will hold presence packets when connectivity is denied. When BTAC sees an approved network, it forwards packets cached during offline operations.
- Network friendly Selective Synchronization: Plugin may be configured to send ALL shot records, OR, only send those where shot count and/or temperature changes.

[Learn more about BTAC's unique capabilities.](#)

**MRF X<sub>e</sub>**

**MICRO RANGE FINDER - ENHANCED  
LOW POWER**



## OVERVIEW

The Wilcox MRF Xe™ is the next generation in the MRF line of products. As a class 3R low power laser aiming device, the MRF Xe is designed specifically for the military and law enforcement markets. The MRF Xe is a smaller, lighter, stronger laser ranging device with uncompromising performance superior to its predecessor. The built-in networking capabilities and user interface give the MRF Xe superior maintenance and replenishment connectivity with key auxiliary devices. These leading-edge features increase the warfighter's lethality and situational awareness.

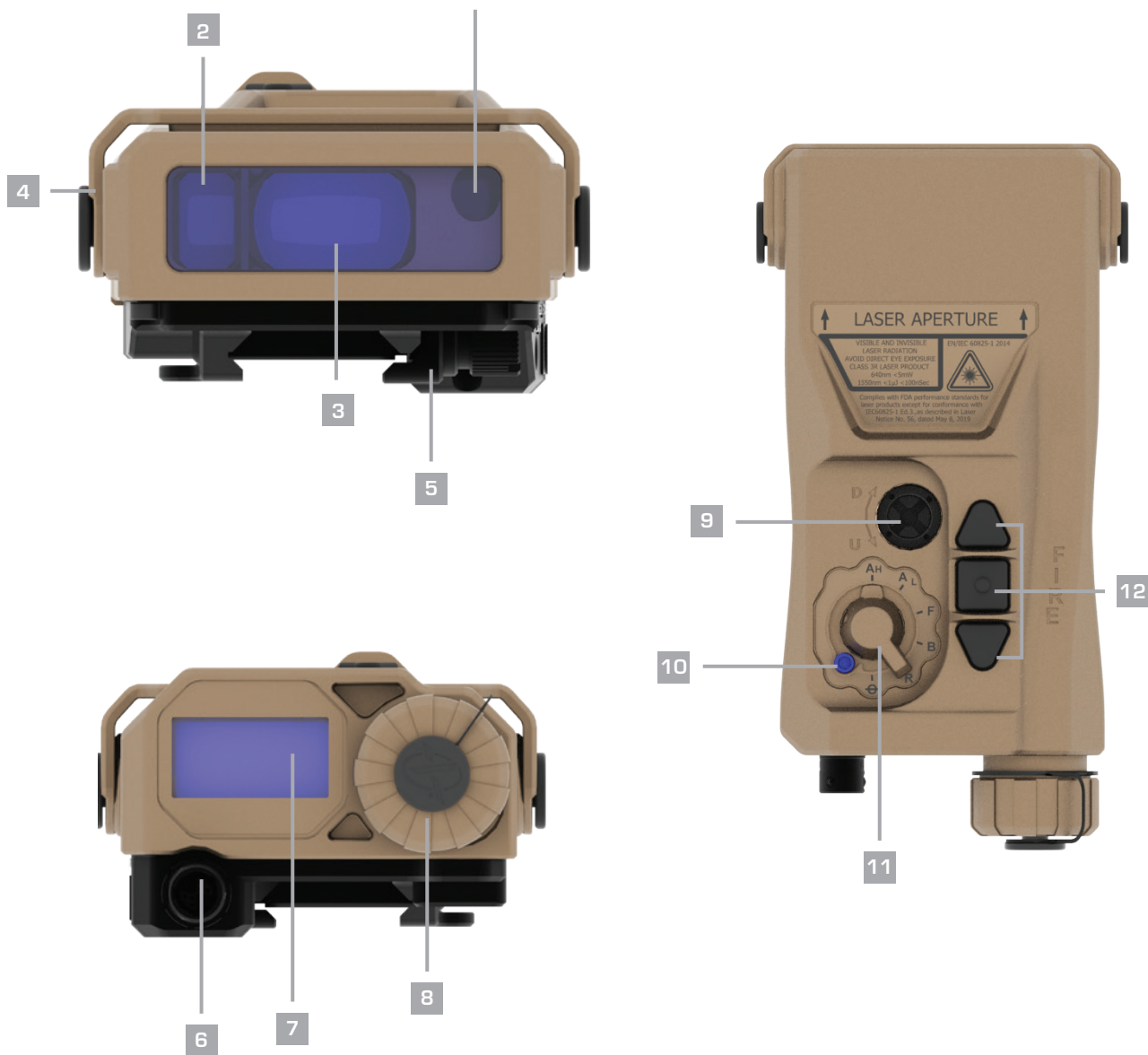
Weapon and bullet information can be entered into the MRF Xe through any paired mobile device and with the application of proprietary third party software. Once the data is entered, the MRF Xe captures both the environmental conditions transmitted from the sensor suite and the distance to the target transmitted by the precision laser range finder to the onboard computer instantly providing a ballistic solution to the user.

[www.wilcoxind.com/MRF-Xe](http://www.wilcoxind.com/MRF-Xe)

IN PARTNERSHIP WITH:







## FEATURES & BENEFITS

1. VIS Laser Pointer
2. LRF Transmitter
3. LRF Receiver
4. Laser Safety Visor
5. MIL-STD-1913 Interface
6. Remote Control Activation Pad Port
7. OLED Display/Ballistic Solver
8. Battery Compartment
9. Elevation Adjustment/Windage (not visible)
10. High Power Lockout Screw
11. Mode Selector Switch
12. Fire/Input Button



# ERGOCTO™ Xe™

## CONTROL ACTIVATION GRIP

### OVERVIEW

The Wilcox ERGOCTO™ Xe™ Control Activation Grip is the next generation accessory that is ergonomically positioned for the user to control Wilcox's new line of "Xe" laser and fire control devices. The ERGOCTO Xe Control Activation Grip mounts directly to the 6 o'clock rail position of the weapon with a unique grip design which allows for up to eight radial positions of the control button by the user. This feature provides an integrated control button that has an over molded skin featuring a tactile surface that helps prevent slippage of the weapon grip when controlling the device.

[www.wilcoxind.com/ERGOCTO-XE-GRIP-SINGLE](http://www.wilcoxind.com/ERGOCTO-XE-GRIP-SINGLE)

[www.wilcoxind.com/ERGOCTO-XE-GRIP-DUAL](http://www.wilcoxind.com/ERGOCTO-XE-GRIP-DUAL)

Available Colors:  -C  -B

DESCRIPTION	PART NUMBER
ERGOCTO Xe SINGLE CONTROL ACTIVATION GRIP - 7" CABLE LENGTH	68400G11
ERGOCTO Xe DUAL CONTROL ACTIVATION GRIP - 7" LONG CABLE LENGTH	68400G12

# ERGOCTO™ Xe™

## ACTIVATION KEYPAD

### OVERVIEW

The Wilcox ERGOCTO™ Xe™ Activation Keypad is the next generation accessory that is ergonomically positioned for the user to control Wilcox's new line of "Xe" lasers and fire control devices. The ERGOCTO Xe Activation Key Pad is mounted directly to any MIL-STD-1913 rail and can be positioned in-between the quadrant rails of most rifle handguards thereby preventing loss of the weapon grip when activating a device. The attachment mechanism of the ERGOCTO Xe Activation Key Pad features a very low-profile stance on the rail which does not interfere with the user's natural positioning of the pressure pad when handling a weapon. The ERGOCTO Xe Activation Key Pad is available in two configurations: single cable configuration that connects securely to Wilcox laser products or a dual connector cable configuration that connects to the Wilcox Laser products and the other connects to any Surefire flashlight product that has the tail-cap interface.

[www.wilcoxind.com/ERGOCTO-XE-PAD-SINGLE](http://www.wilcoxind.com/ERGOCTO-XE-PAD-SINGLE)

[www.wilcoxind.com/ERGOCTO-XE-PAD-DUAL](http://www.wilcoxind.com/ERGOCTO-XE-PAD-DUAL)

Available Colors:  -B

DESCRIPTION	PART NUMBER
ERGOCTO Xe SINGLE ACTIVATION KEY PAD - 7" CABLE LENGTH	68401G01
ERGOCTO Xe DUAL ACTIVATION KEY PAD - 7" LONG CABLE LENGTH	68401G02



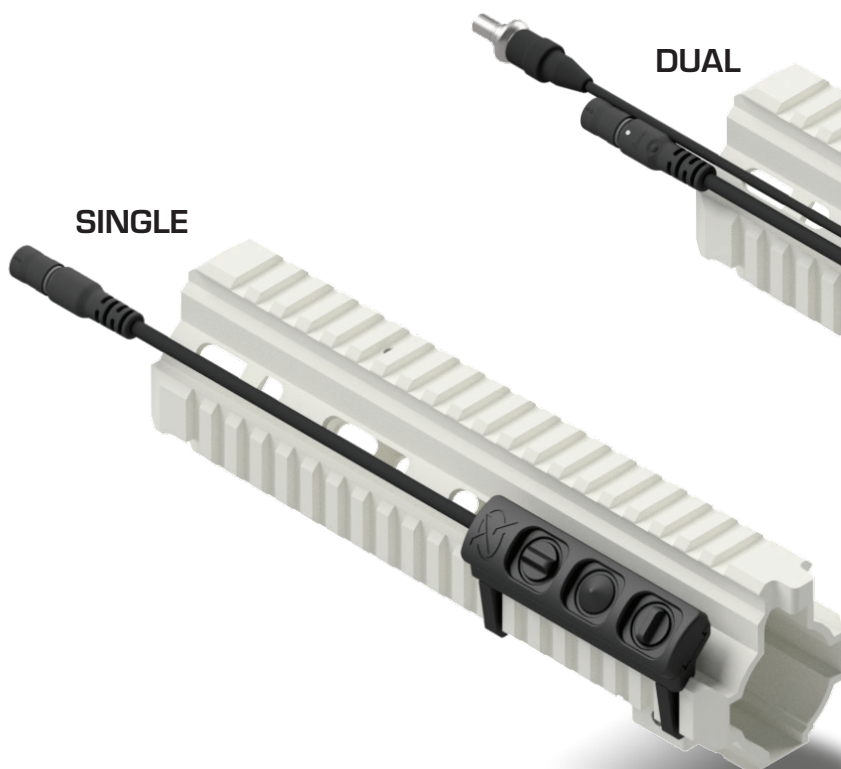
SINGLE



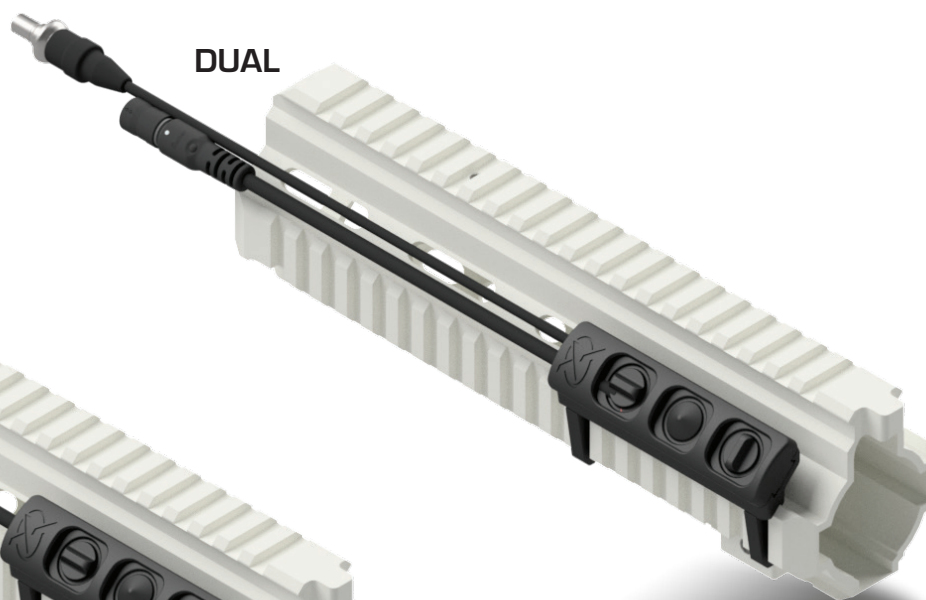
DUAL

Product Illustration  -C

SINGLE



DUAL





DRONE



BTAC COMMAND CENTER





**POTENTIAL THREAT**

**BTAC<sup>®</sup>**



**BOSS X<sup>™</sup>**



**MRF X<sup>™</sup>**

## PREDICTIVE MAINTENANCE

Wilcox weapons system data can be shared in real time with Wilcox Armorer's Module, a pluggable module for BlueforceCOMMAND, and the authoritative application for service and predictive maintenance.

## AUTONOMOUS REPLENISHMENT

Because BTAC and the Wilcox Plugin for BTAC are constantly monitoring weapons systems across a team, autonomous delivery platforms can be cued for just-in time field replenishment.

## FORCE READINESS

The Wilcox Armorer's Module not only drives supply chain value, but can also provide awareness of force readiness and can display weapon location and status.

## TACTICAL AWARENESS

Real-time shared awareness of oxygen and PPE operating modes, environmental data, maintenance counters, barrel temperature, and maintenance status of Wilcox devices shared in real-time amongst the team and command.

**WILCOX PRODUCTS**



## GLOBAL MASTER DISTRIBUTION NETWORK

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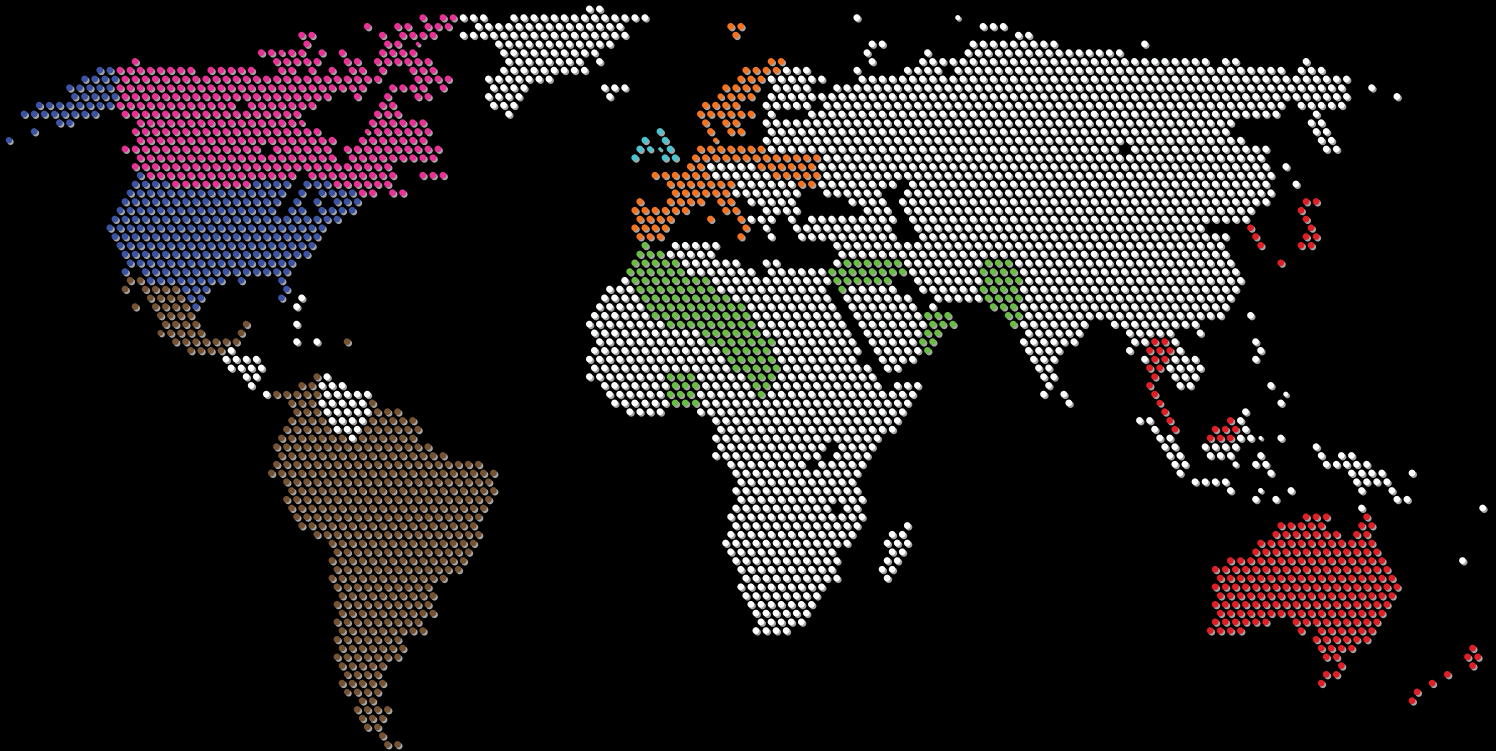
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