

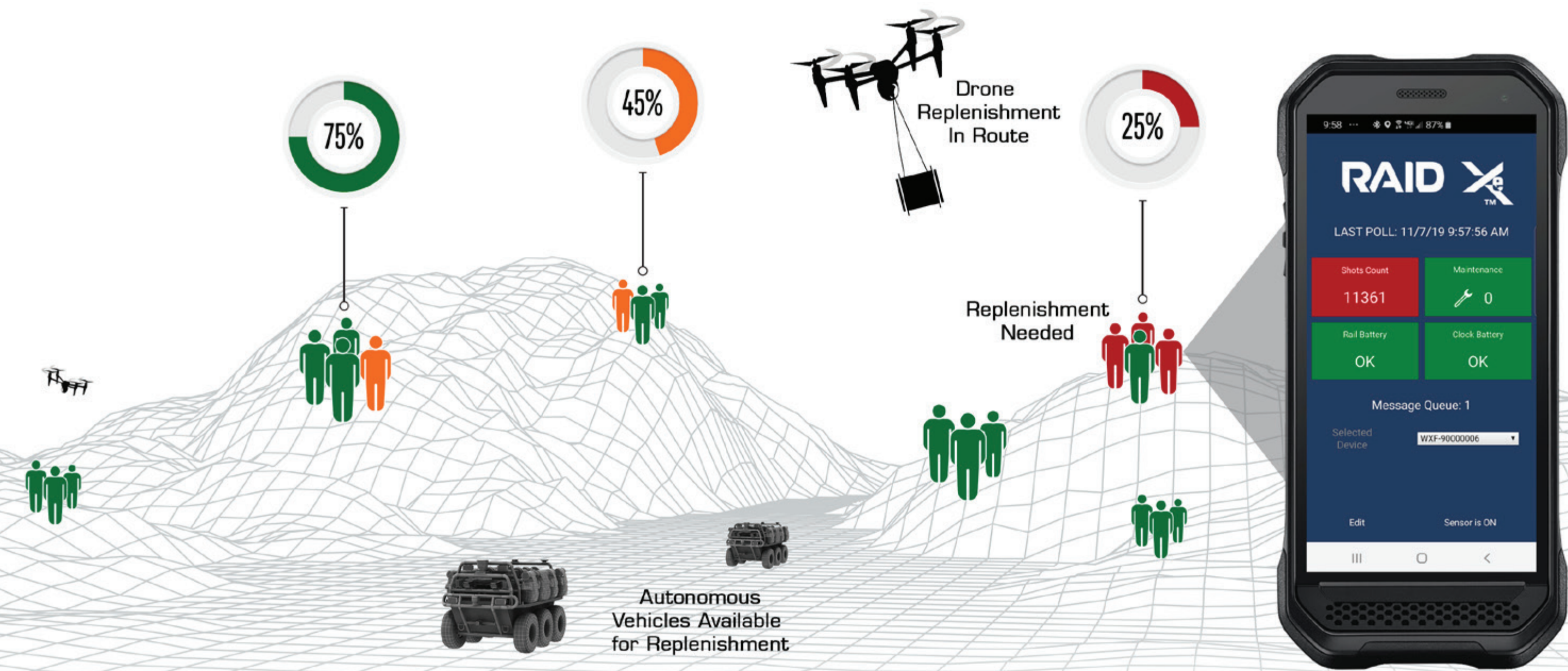
WILCOX[®]



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.

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 [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**

- Providing actionable, task relevant information to and from networked teammates.
- Shot counter: Monitors shot count which are 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.

BOSS X_e

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.

Download technical data, additional resources and request pricing at www.wilcoxind.com/BOSS-Xe



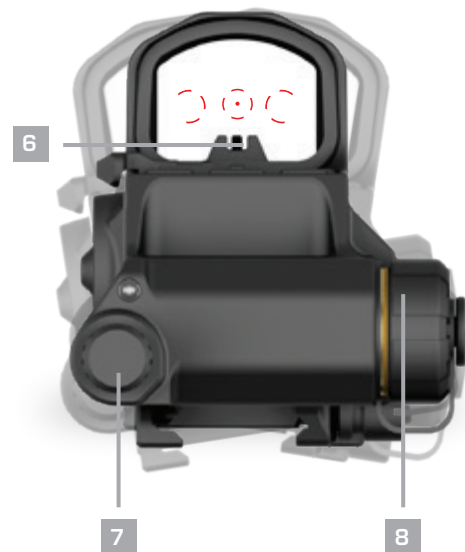
TECH INSIDE

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

www.wilcoxind.com/BOSSXe-Brief



OFF CANT INDICATOR



FEATURES & BENEFITS

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



BTAC™ NETWORKED ENABLED CAPABILITY

- Providing actionable, task relevant information to and from networked teammates.
- Shot counter: Monitors shot count which are 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.

BOSS MX^e

BALLISTICALLY OPTIMIZED SIGHTING
SYSTEM - MOD - ENHANCED

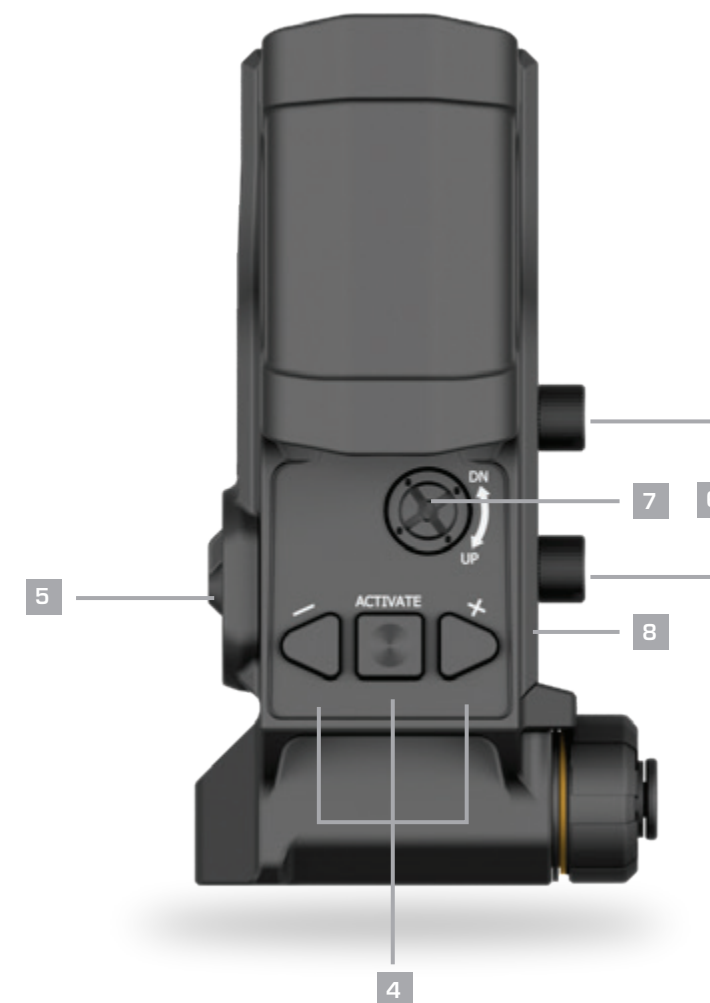
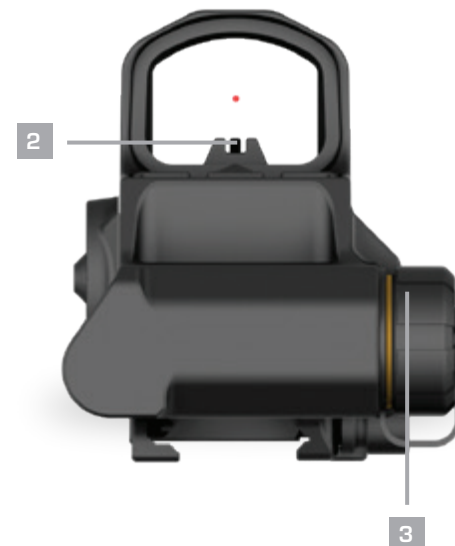
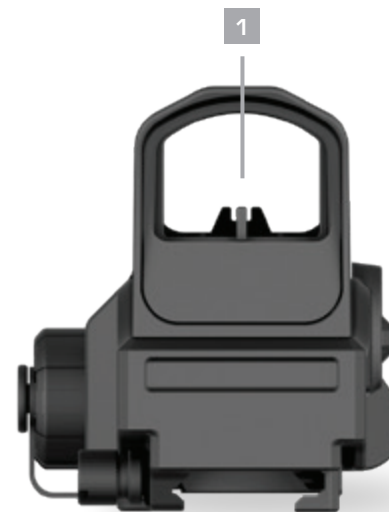


OVERVIEW

The Wilcox BOSS MXe™ is the next generation in the BOSS line of products. The BOSS MXe features a fully integrated, environmentally stable optical bench that houses a reflex sight and iron sight all co-aligned to one another.

Decisively designed for the assaulter, the BOSS XMe 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.

Download technical data, additional resources and request pricing at www.wilcoxind.com/BOSS-MXe



FEATURES & BENEFITS

1. Reflex Sight
2. Built-in Back Up Iron Sights
3. Battery Compartment
4. Brightness Control
5. Mode Selector Switch
6. Shock Nuts Picatinny Mount
7. Elevation Adjustment
8. Windage Adjustment (not visible)

BTAC™ NETWORKED ENABLED CAPABILITY

SENSOR TO SHOOTER ADVANTAGE

- Providing actionable, task relevant information to and from networked teammates.
- Shot counter: Monitors shot count which are 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 RAID 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.



RUGGEDIZED AIMING/ILLUMINATION DEVICE - ENHANCED - HIGH POWER



OVERVIEW

The Wilcox RAID Xe™ is the next generation in the RAID line of products. The RAID Xe is a class 3B high power laser aiming device designed for assault and crew served weapons. The RAID Xe provides a smaller, lighter, stronger laser aiming device with superior, uncompromising performance. The ultimate beam clarity and uniformity aide rapid target acquisition and the built-in networking capabilities give the RAID Xe superior maintenance and replenishment connectivity, all increasing the warfighter's lethality and situational awareness.

This product is available in either red or green laser configurations. The NIR room illuminator combined with the existing variable NIR illuminator features best in class overall effective tactical solution in any low light combat situation. The ergonomic illuminator spool location allows easy rapid adjustment of the NIR illuminator beam divergence for variable distances and mission requirements.

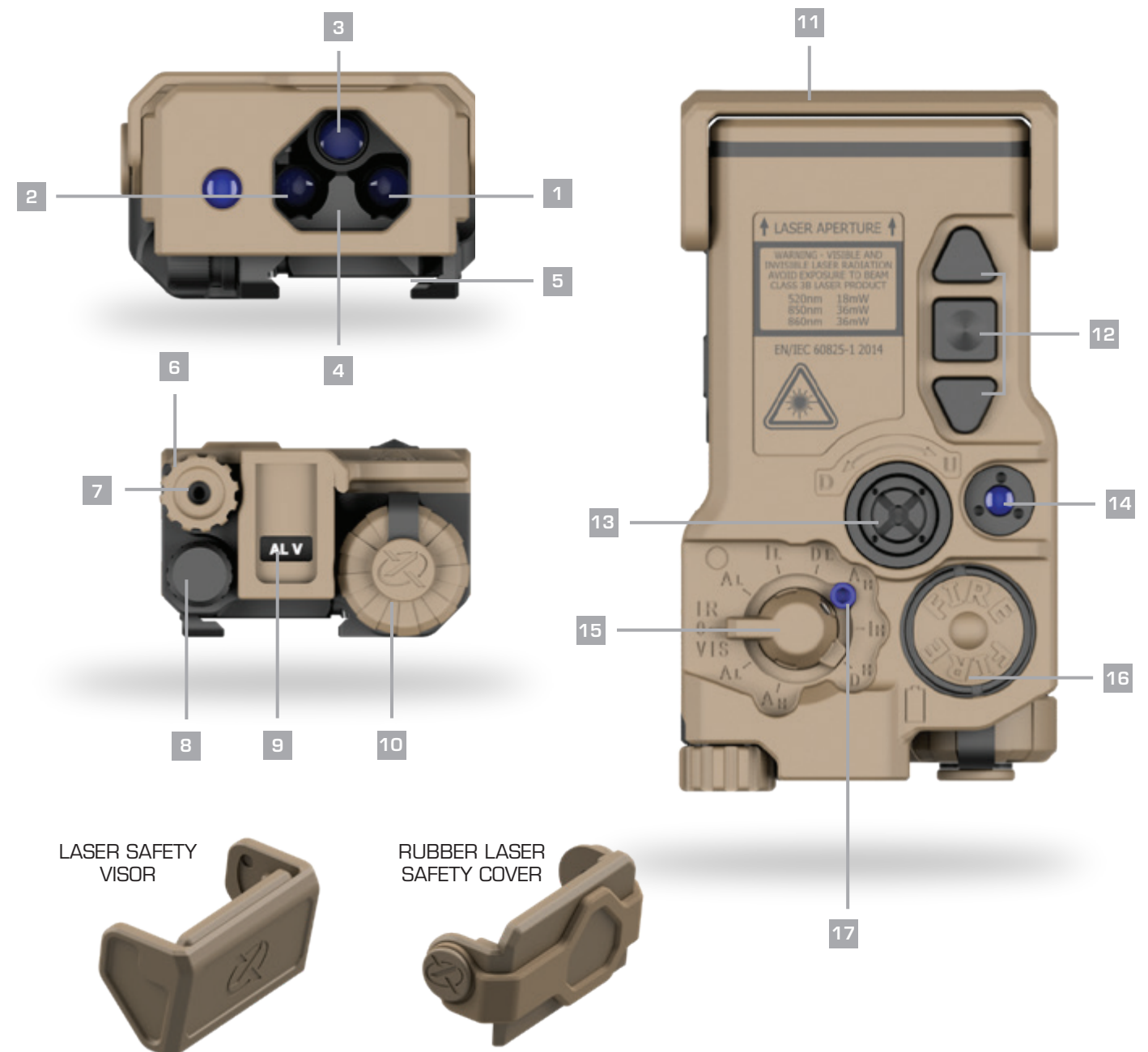
Download technical data, additional resources and request pricing at www.wilcoxind.com/RAID-Xe



TECH INSIDE

Download our technical brief, "*Enhanced Laser Tech & Networking Abilities Give Operators The Tactical Edge*"

www.wilcoxind.com/RAIDXe-Brief



FEATURES & BENEFITS

- | | |
|---------------------------------------|--|
| 1. Red/green VIS Laser | 10. Battery Compartment |
| 2. NIR Laser | 11. Modular Visor 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 |



BTAC™ NETWORKED ENABLED CAPABILITY

SENSOR TO SHOOTER ADVANTAGE

- Providing actionable, task relevant information to and from networked teammates.
- Shot counter: Monitors shot count which are 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 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.

MRF X^e

MICRO RANGE FINDER - ENHANCED LOW POWER



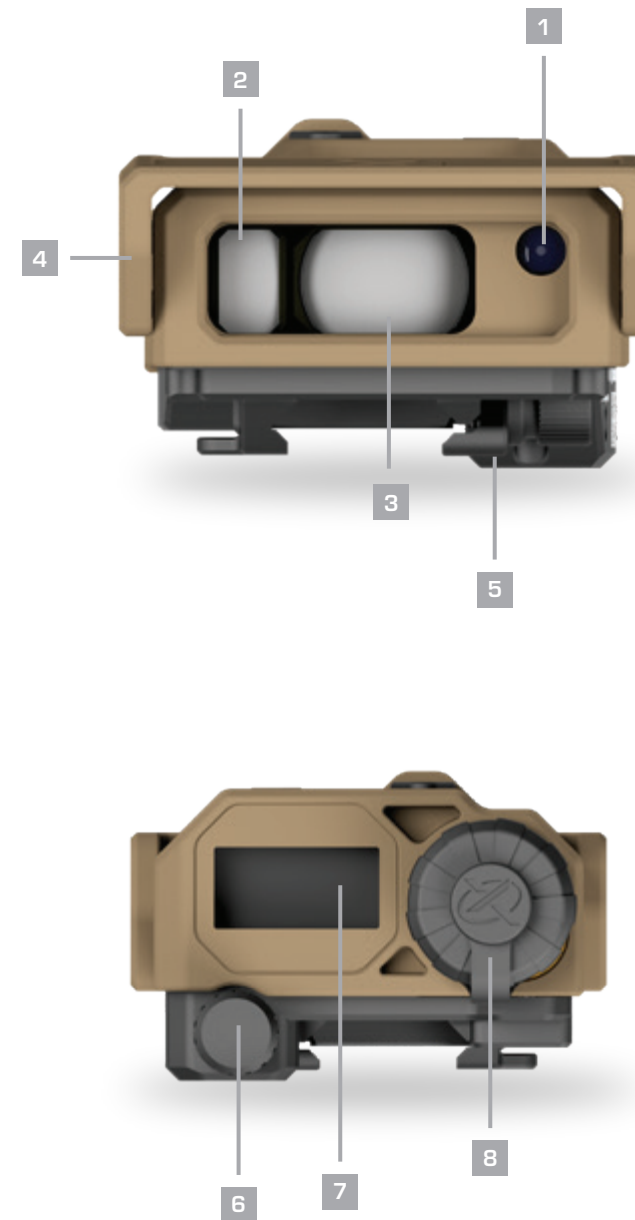
OVERVIEW

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.

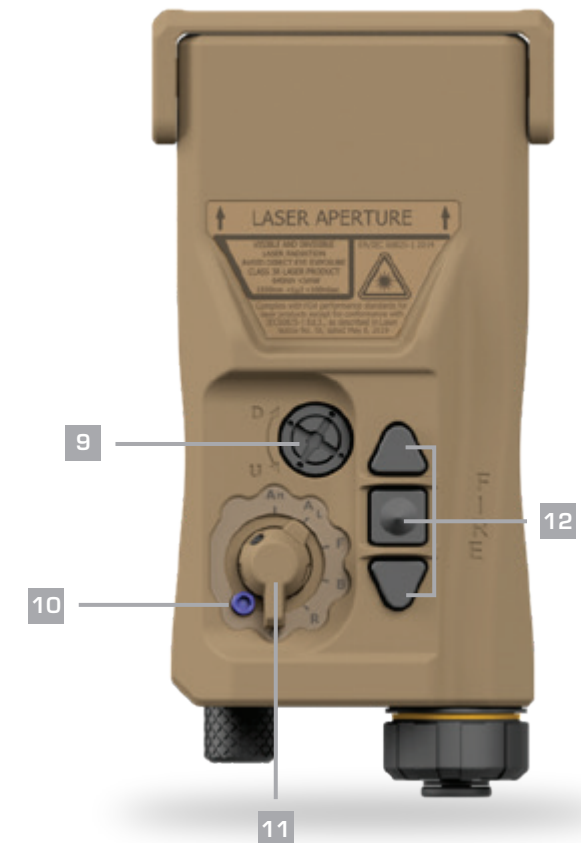
Download technical data, additional resources and request pricing at www.wilcoxind.com/MRF-Xe

IN PARTNERSHIP WITH:



FEATURES & BENEFITS

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





ERGOCTO

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 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 that featuring a tactile surface that helps prevent slippage of the weapon grip when controlling the device.

Download technical data, additional resources and request pricing at www.wilcoxind.com/Xe-Grip

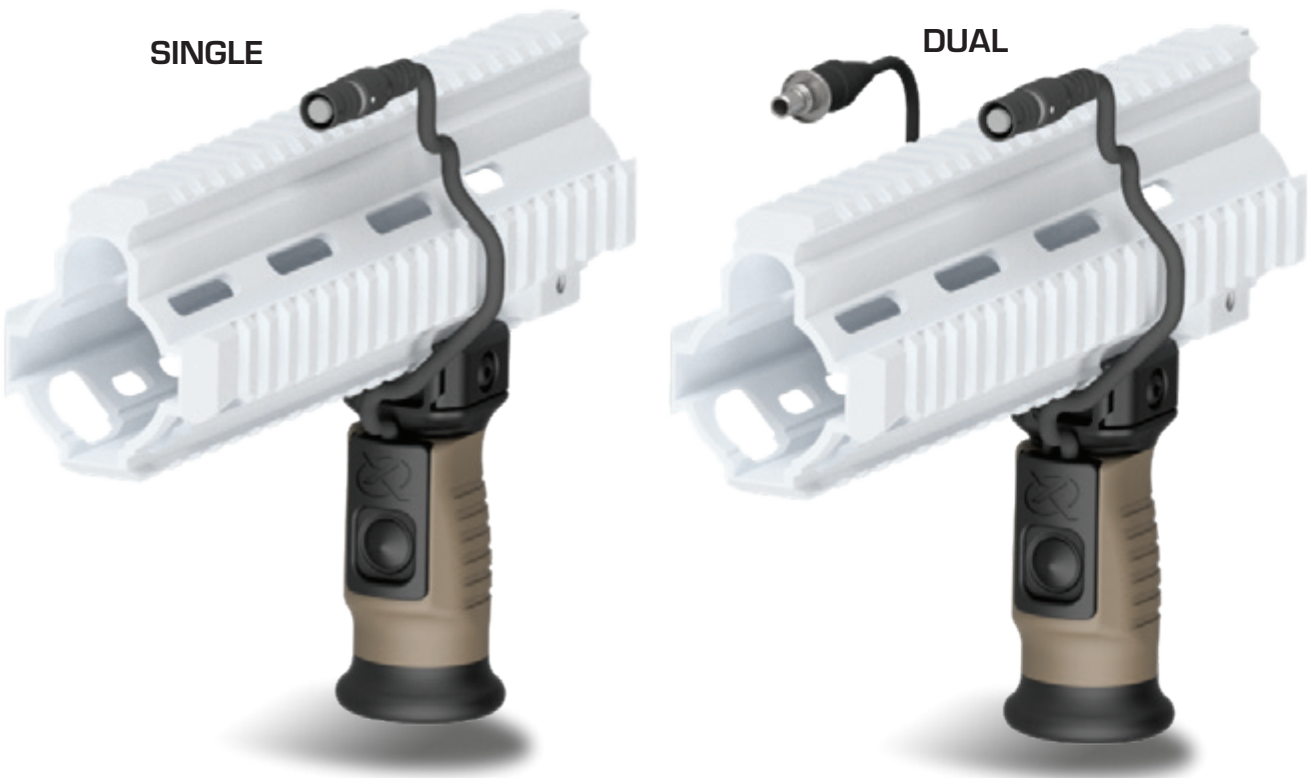
ERGOCTO

ACTIVATION KEYPAD

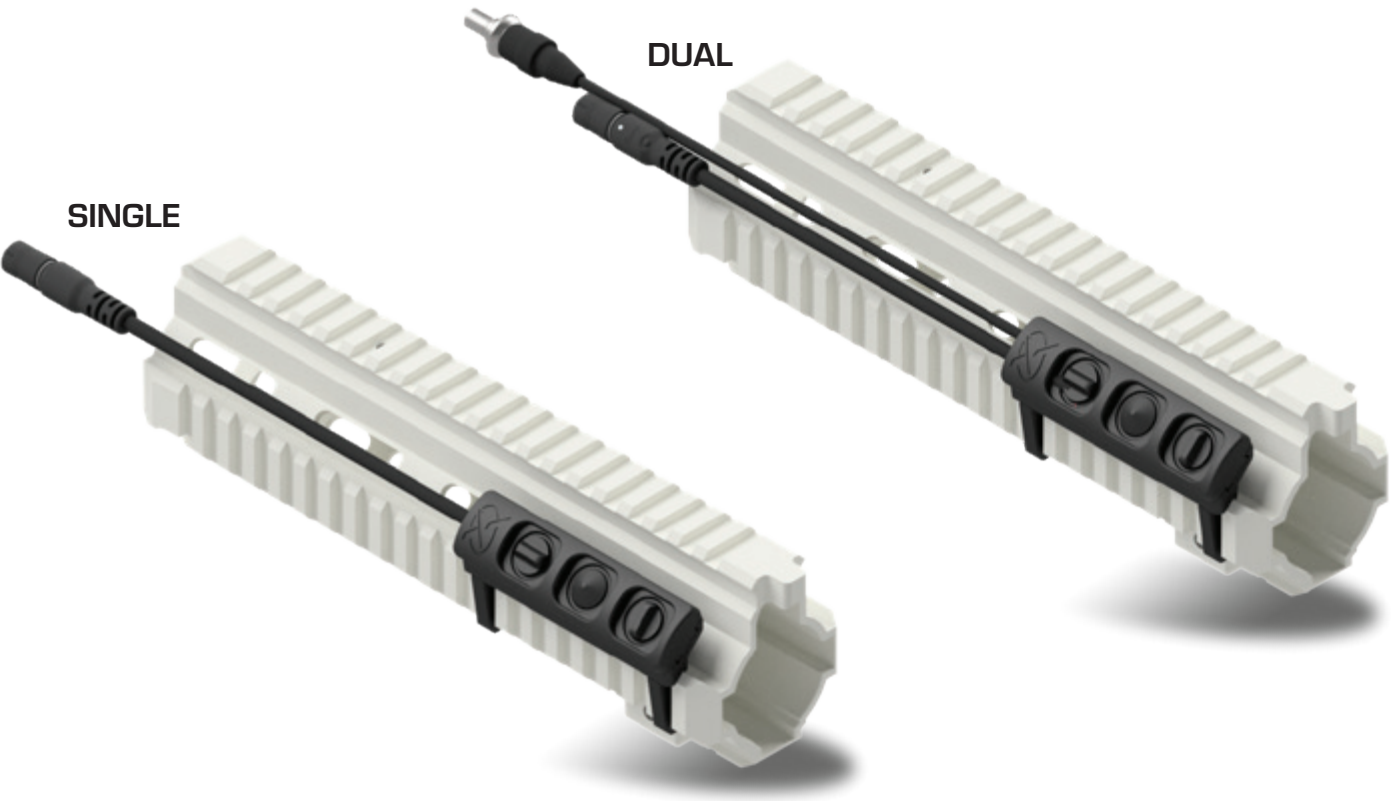
OVERVIEW

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.

Download technical data, additional resources and request pricing at www.wilcoxind.com/Xe-Keypad



Product Illustration   -C



DRONE

POTENTIAL THREAT

BTAC™



BOSS X™



MRF X™

PREDICTIVE MAINTENANCE

Wilcox weapons system data can be shared in real time with Wilcox Armorer's Module, a plugable 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.

BTAC COMMAND CENTER

WILCOX PRODUCTS



GLOBAL MASTER DISTRIBUTION NETWORK

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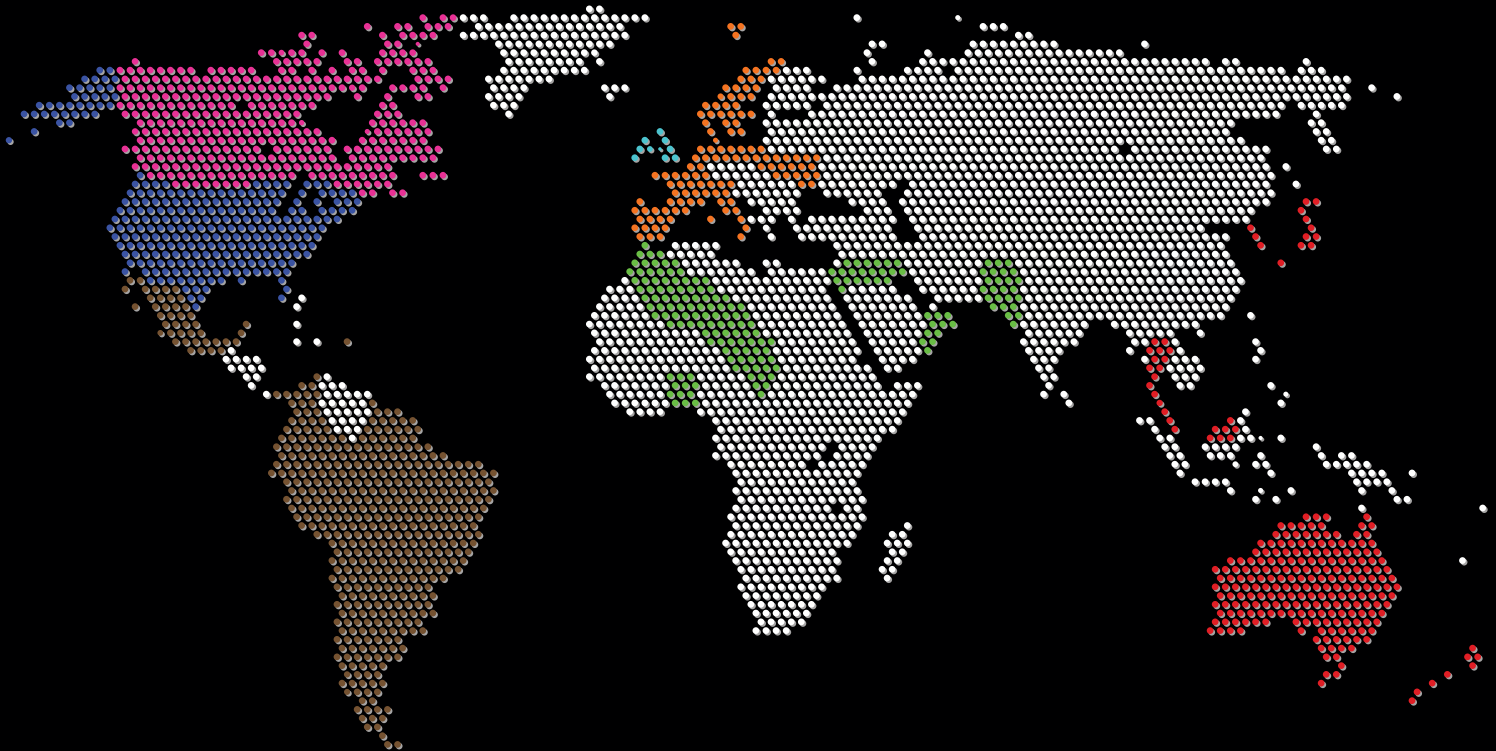
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