PRODUCT COLLECTION

DATASHEETS

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We are 3E

We are driven by a passion for distinguished products.

3E is a high-tech company specializing in the design, development, know-how, and manufacture of optronic equipment and systems that deliver the most accurate, reliable and creative solutions to military, law enforcement, and civil applications.

In military and civil applications, we deliver first-class solutions to answer their missionneeds with highly versatile, field-proven, and robust products.

3E, with a dynamic team, pushes the boundaries of optronic and aiming systems to put state-of-the-art design and production one step further. We continuously invest in human and financial resources in R&D as the development of our team is one of our priorities. By investing in training and providing up-to-date knowledge to our team, we are setting new benchmarks in imaging and aiming solutions.

We turn inspiration into innovation to deliver end-to-end mission solutions to fulfill your ever-evolving requirements. By means of integrated expertise, 3E offers the best available electro-optic solutions.

Considering all the processes, we either eliminate or minimize harmful environmental impacts with a zero waste policy to protect our Earth. We value diversity, ethics, and sustainability in every aspect of life. We build our innovative spirit on the inclusive vision that gathers diverse ideas, perspectives, and lifestyles.

PHOENIX LZ

MULTI-SENSOR SURVEILLANCE MONOCULAR

The PHOENIX LZ redefines the benchmark for surveillance technology in every aspect. It is engineered using cutting-edge technology and informed by comprehensive customer insights.

The PHOENIX LZ combines most critical properties essential for surveillance, target acquisition and distance determination in one unit, providing impressive solutions to mission needs with its ergonomic, compact structure and smart features.

In addition to the high-sensitive thermal imager with a 640x512 uncooled 12-Micron detector, the PHOENIX LZ has unique performance with its low light capable high definition wide UXGA camera, 1535 nm eye-safe laser range finder, infrared laser pointer, integrated geo-location sensitive GPS and digital magnetic compass. In addition to these features, the PHOENIX LZ also includes a built-in 6x magnification hard optic that does not require a battery.

It is designed to carry the user's experience one-step further and give them superiority with its high resolution UXGA OLED display, long-lasting battery life and easy to use UI design that keeps up with the new generation. It provides superior awareness in ever-changing duty and environmental conditions by offering thermal, low-light CMOS, and hard optic imaging capabilities.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the PHOENIX LZ is durable and reliable for maximum structural rigidity.

The PHOENIX LZ will revolutionize its class and redefine the standards.

Optics Day	
Magnification	6x
Field of View	6.0°

Optics TI	
Sensor Resolution	VGA, 640 x 480 pixels
Field of View	8.8° × 7.0°

Optics Low Light CMOS	
Sensor Resolution	Wide UXGA, 1920 x 1200 pixels
Field of View	5.8° x 4.7°

Rangefinder (Distance)	
Range Capability	20 m to 6000 m
Accuracy	± 2 m
Laser Type	1535 nm, Class I, Eye-safe

Digital Magnetic Compass	
Azimuth Accuracy (1σ)	± 10 mil / ± 0.6°
Inclination Accuracy (1σ)	± 3 mil / ± 0.2°

Data Interface	
Standard Interface	RS-232, USB 2.0, HDMI
Optional	Bluetooth & Wi-Fi

KEY FEATURES

- **LOW WEIGHT**
  Exceptional performance-to-weight ratio, delivering impressive results
- **VERSATILE VIEWING MODES**
  Features integrated hard optics that require no power, thermal imaging for detection and situational awareness both day and night, and a low-light sensor for dependable detection in dim conditions
- **LASER RANGE FINDER**
  Outstanding performance in the most challenging environments, with the capability to measure distances up to 6,000 meters
- **LASER POINTER**
  Accurately mark and designate targets with an eye-safe Class I laser

Laser Pointer	
Location	Integrated
Laser Type	830 nm, Class I, Eye-safe

GPS Receiver (Optional)	
Supported GNSS	Built-in GPS

Display	
Type	UXGA, 1600 x 1200 pixels

Power Supply	
Battery	2 x 18650 Rechargeable Lithium
Battery Life (1)	7+ hours
External Power Supply	Yes

Physical	
Dimensions	170 x 160 x 90 mm
Weight	≤ 1.3 kg

(1) Battery life may vary depending on environmental and atmospheric conditions.

DSPHOENIXLZ-EN | Rev:+ | 05.24

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PHOENIX MZ

MULTI-SENSOR SURVEILLANCE BINOCULARS

The PHOENIX MZ redefines the benchmark for surveillance technology in every aspect. It is engineered using cutting-edge technology and informed by comprehensive customer insights.

The PHOENIX MZ combines most critical properties essential for surveillance, target acquisition and distance determination in one unit, providing impressive solutions to mission needs with its ergonomic, compact structure and smart features.

In addition to the high-sensitive thermal imager with a 640 x 480 uncooled 12-Micron detector, the PHOENIX MZ has unique performance with its low light capable high definition camera, 1535 nm eye-safe laser range finder, infrared laser pointer, integrated geo-location sensitive GPS and digital magnetic compass.

It is designed to carry the user's experience one-step further and give them superiority with its high resolution UXGA OLED display, long-lasting battery life and easy to use UI design that keeps up with the new generation. It provides superior awareness in ever-changing duty and environmental conditions by offering thermal and low-light CMOS imaging capabilities.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the PHOENIX MZ is durable and reliable for maximum structural rigidity.

The PHOENIX MZ will revolutionize its class and redefine the standards.

KEY FEATURES

- **LOW WEIGHT**
  Exceptional performance-to-weight ratio, delivering impressive results.
- **VERSATILE VIEWING MODES**
  Thermal imaging for detection and situational awareness both day and night, and a low-light sensor for dependable detection in low light conditions
- **LASER RANGE FINDER**
  Outstanding performance in the most challenging environments, with the capability to measure distances up to 6,000 meters
- **LASER POINTER**
  Accurately mark and designate targets with an eye-safe Class I laser

Optics TI	
Sensor Resolution	VGA, 640 x 480 pixels
Field of View	6.3° × 5.0°

Optics Low Light CMOS	
Sensor Resolution	HD, 1920 x 1080 pixels
Field of View	6.2° x 3.5°

Rangefinder (Distance)	
Range Capability	20 m to 6000 m
Accuracy	± 2 m
Laser Type	1535 nm, Class I, Eye-safe

Digital Magnetic Compass	
Azimuth Accuracy (1σ)	± 10 mil / ± 0.6°
Inclination Accuracy (1σ)	± 3 mil / ± 0.2°

Data Interface	
Standard Interface	RS-232, USB 2.0, HDMI
Optional	Bluetooth & Wi-Fi

Laser Pointer	
Location	Integrated
Laser Type	830 nm, Class I, Eye-safe

GPS Receiver (Optional)	
Supported GNSS	Built-in GPS

Display	
Type	UXGA, 1600 x 1200 pixels

Power Supply	
Battery	2 x 18650 Rechargeable Lithium
Battery Life (1)	6+ hours
External Power Supply	Yes

Physical	
Dimensions	170 x 160 x 90 mm
Weight	≤ 1.3 kg

(1) Battery life may vary depending on environmental and atmospheric conditions.

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PHOENIX SZ

MULTI-SENSOR SURVEILLANCE BINOCULARS

The PHOENIX SZ delivers crisp, clear images with high definition in a durable and reliable body. It offers exceptional and superior performance in day/night surveillance with outstanding usability and handling.

The PHOENIX SZ is developed with innovative image processing algorithms to optimize the image clarity to the maximum level and provide high-quality rendering within the target and the background. It is equipped with an advanced 12 µm high sensitivity sensor and high quality premium germanium lens to get the detail in the image down to the smallest detail. The PHOENIX SZ features a 1535 nm eye-safe laser range finder, enabling precise target measurements at distances up to 6 kilometers. The PHOENIX SZ boasts a highly sensitive, uncooled thermal sensor with a resolution of 640 x 480 pixels and a sensitivity of less than 20 mK. Multiple preset color palettes enable the selection of the optimal display option tailored to the specific tasks at hand.

The optimized software and advanced electrical design minimize battery consumption to the lowest levels and offer 8+ hours of uninterrupted use with a single battery.

The PHOENIX SZ is designed for harsh environmental conditions for maximum structural rigidity in a binocular infrastructure.

Experience a completely different thermal experience with The PHOENIX SZ and exceed your expectations.

Optics TI	
Sensor Resolution	VGA, 640 x 480 pixels
Field of View	8.8° × 7.0°

Rangefinder (Distance)	
Range Capability	20 m to 3000 m
Accuracy	± 2 m
Laser Type	1535 nm, Class I, Eye-safe

Digital Magnetic Compass	
Azimuth Accuracy (1σ)	± 10 mil / ± 0.6°
Inclination Accuracy (1σ)	± 3 mil / ± 0.2°

Data Interface	
Standard Interface	RS-232, USB 2.0, HDMI
Optional	Bluetooth & Wi-Fi

GPS Receiver (Optional)	
Supported GNSS	Built-in GPS

KEY FEATURES

- **LOW WEIGHT**
  Exceptional performance-to-weight ratio, delivering impressive results
- **LASER RANGE FINDER**
  Outstanding performance in the most challenging environments, with the capability to measure distances up to 6,000 meters.
- **HIGHLY SENSITIVE THERMAL SENSOR**
  Features an uncooled thermal sensor with a resolution of 640 x 480 pixels and exceptional sensitivity below 20 millikelvins

Display	
Type	Color OLED Display

Power Supply	
Battery	2 x 18650 Rechargeable Lithium
Battery Life [(1)]	10+ hours
External Power Supply	Yes

Physical	
Dimensions	150 x 120 x 70 mm
Weight	≤1 kg

(1) Battery life may vary depending on environmental and atmospheric conditions.

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TUFAN

MULTI-SENSOR SURVEILLANCE BINOCULARS

TUFAN sets a new standard for surveillance applications in every sense. It has been designed with advanced technology and deep customer insights.

Featured with the intelligent fusion-imaging algorithm[1] TUFAN multi-sensor surveillance binoculars combine most critical properties essential for surveillance, target acquisition and distance determination in one unit, providing impressive solutions to mission needs with its ergonomic, compact structure and smart features.

In addition to the high-sensitive thermal imager with a 640x512 cooled detector, TUFAN has unique performance with its low light capable high definition color TV camera, 1550 nm eye-safe laser range finder, infrared laser pointer, integrated geo-location sensitive GPS and digital magnetic compass.

It is designed to carry the user's experience one-step further and give them superiority with its unrivaled dual OLED display quality, long-lasting battery life with hot-swap feature and easy to use UI design that keeps up with the new generation. It provides superior awareness in ever-changing duty and environmental conditions by processing thermal and a color TV camera with advanced algorithms.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, TUFAN is durable and reliable with its aluminium construction for maximum structural rigidity.

TUFAN will revolutionize its class and redefine the standards

Mechanical Data	
Housing Material	Aluminium w/Plastic Parts
Color	Black or FDE
Weight [2]	3.3 kg (116.4 oz)
Dimensions (WxLxH)	276x350x130 mm (10.86x13.77x5.11 in)
Tripod Interface	Quick Release Interface

Thermal Imaging Unit	
Sensor Resolution	640x512 pixels
Sensor Pitch	15 µm
Spectral Range	MWIR; 3 µm - 5 µm
E-Zoom	up to 8X
NFOV (Horizontal)	2.1°
WFOV (Horizontal)	27°

KEY FEATURES

- **POWERFUL MULTI-SENSOR CAPABILITY**
  High-sensitive thermal imager with a 640x512 cooled detector, TUFAN has unique performance with its low light capable high definition color TV camera, 1550 nm eye-safe laser range finder, infrared laser pointer, integrated geo-location sensitive GPS and digital magnetic compass
- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 cooled mid-wave IR sensor and premium zoom germanium optics paired with a high-definition dual OLED display provide outstanding image clarity and perfect detail recognition
- **DUAL OLED DISPLAY**
  Wide vision experience with dual OLED display design
- **HOT-SWAP LONG LASTING BATTERY**
  Long-lasting use with replaceable battery design without the need to power off the device
- **POWERFUL TACTICAL CAPABILITIES**
  Built-in digital magnetic compass, GPS, laser range finder and laser pointer provide accurate range-to-target, precise geo-location and crystal clear imagery
- **FLEXIBLE AND EASY-TO-USE USER INTERFACE**
  Easy to use user interface design that keeps up with the new generation
- **POWERFUL THAN EVER WITH ITS ADVANCED ACCESSORIES**
  More powerful with its smart operator control unit, electronic pan-tilt and smart batteries
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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Ocular Optical Unit

Display Type	Color OLED
Dual Screen	Yes
Resolution	1280x1024 SXGA

Day Camera Unit

Optical Zoom	12X
E-Zoom	up to 32X
NFOV (Horizontal)	2.1°
WFOV (Horizontal)	60.0°

Laser Range Finder

Wavelength	1.54 µm
Laser Class	Class 1 (Eye Safe)
Range	< 12 km
Range (NATO Target)	< 6 km
Sensitivity	< 2 m

Digital Magnetic Compass

Sensitivity	1° rms
Azimuth Range	360°

Global Navigation Satellite System

Position Sensitivity	< 5 m
Direction Sensitivity	< 1.0°

Laser Pointer

Wavelength	850 nm
Laser Class	Class 3B

Electronical Data

Battery [3]	2 x Smart Lithium Rechargeable Battery
Hot Swap	Yes
Battery Life [4]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

(1) Intelligent fusion-imaging algorithm is offered as an optional package.
(2) The weight given is calculated without accessories and batteries.
(3) Tufan can also work with 1 x Smart Lithum Rechargeable Battery.
(4) Battery life may vary depending on environmental and atmospheric conditions.
(5) Accessories may vary. Please contact us for detailed information.
(6) Related data are calculated based on “Johnson Criteria”.

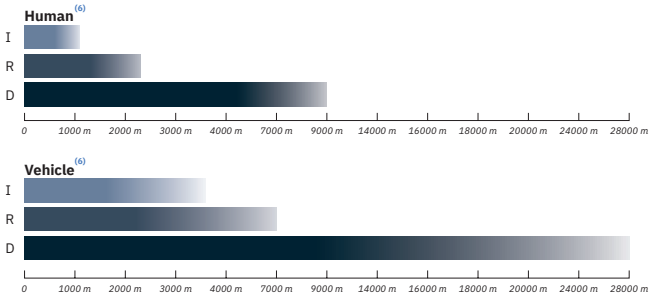
Contact 3E for product codes and SKUs.

Standard Accessories [5]

■ Soft Backpack	■ 2 x Smart Lithium Rechargeable Battery
■ Hard Case	■ Smart Battery Charger

Optional Accessories [5]

☐ Operator Control Unit	☐ Intelligent Fusion Software Package
☐ Motorized Pan-Tilt (w/Tripod)	☐ WiFi Connection Software Package
☐ Mechanical Pan-Tilt (w/Tripod)	☐ 24" LCD Monitor



OCU and Mechanical Pan-Tilt system are optionally available.

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PARTAN NZ

FUSION WEAPON SIGHT

3E leveraged advanced technology and deep customer insights to create the most advanced fusion weapon sight, PARTAN NZ.

PARTAN NZ delivers crispy and intelligent image performance. It is designed for functionality and superior performance by taking into account the demands of most elite users. It offers unrivaled optical performance via industry leading 12-micron LWIR technology with a resolution of 640x480 and DI2 low light sensor with superior image quality.

The advanced image processing leads to excellent fusion images by combining the two sensors into one and provides better detection and recognition whenever users need the most.

PARTAN NZ has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, PARTAN NZ is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

It is a simple revolutionary step in the advanced detection systems.

Thermal Imaging Unit	
Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 480 pixels
Sensor Sensitivity	f/1.0 to < 40 mK
Sensor Pitch	12 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

DI² Imaging Unit	
Sensor Technology	DI² LLcmos
Sensor Resolution	1920 x 1200 pixel
Sensor Sensitivity	100000 mV/Lux.s
Sensor Pitch	12 µm
Spectral Range	400-1100 nm
Min. Illumination	$1x10^{-4}$ lux

KEY FEATURES

- **INTELLIGENT FUSION MODE**
  Its advanced image processing architecture combines the image taken from two different sensors in a single layer, providing users with a perfect fusion image
- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x480 12-micron LWIR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detail recognition
- **SUPERB DETECTION AND RECOGNITION CAPABILITY**
  Its fusion technology and image processing architecture provides the user with excellent detection and recognition capabilities
- **VIDEO AND STILL-PHOTO RECORDING**
  The internal memory offers storage space for videos and photos. In addition, you can download recorded files seamlessly when connected to the PC
- **HDMI VIDEO OUTPUT**
  The HDMI interface allows to send high-resolution digital video
- **LONG LASTING BATTERY LIFE**
  Uninterrupted usage experience with 10+ battery life with a single battery set
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments

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Optical Data

Field of View (DFOV)	18.7°
DRI [1]	Human Detection - 1250 m / 1367 yd Vehicle Detection - 3800 m / 4156 yd
Diopter	+2,-6 dpt

General Data

Frame Rate	60 Hz
Display Type	Color OLED
Eye Relief	30 mm
E- Zoom	2x, 4x
Start-up Time	<10 sec.

Features (All Modes)

Video Recording	Yes
Image Capturing	Yes
Reticle	Multiple Reticle Patterns
Reticle Color	Multiple Reticle Colors, Auto BG
Reticle FP	FFP, SFP
Reticle Zeroing	Manual
User Profiles	Up to 5 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Video Output	Yes (HDMI)

Features (Thermal Mode)

Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Calibration	Auto, Semi-Auto, Manual

Features (DI² Mode)

Color Modes	Black/White, Red, Green

Features (Fusion Mode)

Color Modes	Black/White, City, Forest, Snow, Desert, Red Hot
Fusion Scale	1-10

Physical Data

Weight [2]	820 g (29 oz)
Dimensions (WxLxH)	90x195x110 mm (3.54x7.67x4.33 in)
Housing Material	Aluminium w/Plastic Parts
Color	Black or FDE
Weapon Mount Type	Low Profile Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	3 x 18650 Rechargeable Li-ion Battery
Battery Life [3]	10+ hours

Environmental Data

Operating Temperature Range	-32°C to +49°C (-26°F to +120°F)
Storage Temperature Range	-40°C to +71°C (-40°F to +160°F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [4]

■ User and Operating Manual	■ 3 x 18650 Rechargeable Lithium Ion Battery
■ Low Profile Quick Release Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ 2x Objective Protection Cover
■ Eyecup	■ HDMI Video Cable
■ Soft Carrying Bag	■ USB Cable

Optional Accessories [4]

☐ Hard Case	☐ Fine Adjustment Grip

(1) Related data are calculated based on "Johnson Criteria".
(2) The weight given is calculated without accessories and batteries.
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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TIGER 635N

THERMAL WEAPON SIGHT

TIGER 635N Thermal Weapon Sight delivers crisp, clear images with high definition in a durable and reliable body. It offers exceptional and superior performance in day/night surveillance with outstanding usability and handling.

TIGER 635N is developed with innovative image processing algorithms to optimize the image clarity to the maximum level and provide high-quality rendering within the target and the background. It is equipped with an advanced 12 µm high sensitivity sensor and F1.0 fast premium germanium lens to get the detail in the image down to the smallest detail.

The optimized software and advanced electrical design minimize battery consumption to the lowest levels and offer 8+ hours of uninterrupted use with a single battery.

3E engineering team designed TIGER 635N for harsh environmental conditions with its all aluminium construction for maximum structural rigidity in a monocular infrastructure.

Experience a completely different thermal experience with TIGER 635N and exceed your expectations.

General Data	
Frame Rate	50 Hz
Display Type	Color OLED
Eye Relief	30 mm
E-Zoom	1x, 2x, 4x
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
FOV (HxV)	12.5˚ x 9.4˚
Minimum Focus Distance	3 m
Diopter	+2,-6 dpt

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**

  A high-resolution 640x480 long-wave IR sensor and fast premium germanium optics paired with a high-definition display provide outstanding image clarity and ensure perfect detail recognition

- **ADVANCED 12 µm HIGH SENSITIVITY SENSOR**

  TIGER 635N carries the industry-leading new 12 µm high sensitivity sensor and F1.0 fast germanium lenses to provide excellent image clarity

- **UP TO 8+ HOURS OF CONTINUOUS OPERATION**

  Uninterrupted usage experience with 7+ battery life with a single battery

- **VIDEO AND STILL-PHOTO RECORDING**

  The internal memory offers storage space for videos and photos. In addition, you can download recorded files seamlessly when connected to the PC

- **COMPACT, LIGHT AND RUGGED**

  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 480 pixels
Sensor Sensitivity	< 40 mK @f/1.0
Sensor Pitch	12 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Video Recording	Yes
Image Capturing	Yes
Zoom Assist (PiP Mode)	Yes
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Polarity	White-Hot, Black-Hot, Multiple Colors
Outline Mode	Yes
Video Output	Yes

Electronical Data

Battery	2 x 18500 Rechargeable Li-ion
Battery Life [3]	7+ hours

Physical Data

Weight	480 g (16.93 oz) (w/o accs.)
Dimensions (WxLxH)	74x168x93 mm (2.91x6.61x3.6 in)
Housing Material	Aluminium and Plastic Parts
Color	Black or FDE

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [4]

■ User and Operating Manual	■ 18500 Rechargeable Lithium Ion Battery
■ Lens Cleaning Cloth	■ Eyecup
■ Battery Charger	■ Objective Protection Cover
■ 0.8m USB & BNC Cable	■ Soft Carrying Bag

Optional Accessories [4]

☐ Hard Case	☐ External Battery Pack

(1) MF: Manual Focus
(2) Related data are calculated based on "Johnson Criteria".
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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PARS 635N

THERMAL WEAPON SIGHT

PARS 635N is the top-of-the-range thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, The PARS 635N is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 635N delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

PARS 635N can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	30 mm
E- Zoom	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [2]	35 mm
Field of View (HxV)	17.7˚ x 13.3˚
Min. Focus Distance	3m
DRI [3]	Human Detection - 1020 m / 1115 yd Vehicle Detection - 3160 m / 3455 yd
Diopter	+2,-6 dpt

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detect recognition
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”
- **THE SIMPLEST RETICLE ZEROING EVER**
  With the auto reticle zeroing feature, just give PARS 635N a few data about your shooting; PARS 635N will automatically zero your reticle in seconds regardless of your distance. Don’t bother with calculations

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Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [4]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [5]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [6]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) MF: Manual Focus
(3) Related data are calculated based on "Johnson Criteria".
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(5) May not be available on all devices. Please contact us for detailed information.
(6) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(7) With mounting adapter and 2 x 18650 batteries.
(8) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(9) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	616 g (21.7 oz) (w/o accs.) 807 g (28.4 oz) (w/ accs.) [7]
Dimensions (WxLxH)	90x207x93 mm (3.54x8.14x3.66 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [8]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [9]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Eyecup	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [9]

☐ Hard Case	☐ Wireless Remote Control (BRC)
☐ Helmet Mounted Display (HMD)	☐ External Battery Pack

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PARS 660N

THERMAL WEAPON SIGHT

The PARS 660N is the top-of-the-range thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, The PARS 660N is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 660N delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

PARS 660N can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	30 mm
E- Zoom	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [2]	60 mm
Field of View (HxV)	10.2˚ x 7.7˚
Min. Focus Distance	3 m
DRI [3]	Human Detection - 1760 m / 1924 yd Vehicle Detection - 5400 m / 5905 yd
Diopter	+2,-6 dpt

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detail recognition
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”
- **THE SIMPLEST RETICLE ZEROING EVER**
  With the auto reticle zeroing feature, just give PARS 660N a few data about your shooting; PARS 660N will automatically zero your reticle in seconds regardless of your distance. Don’t bother with calculations

DS30010-60N-EN | Rev.C | 07.23

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [4]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [5]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [6]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) MF: Manual Focus
(3) Related data are calculated based on "Johnson Criteria".
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(5) May not be available on all devices. Please contact us for detailed information.
(6) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(7) With mounting adapter and 2 x 18650 batteries.
(8) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(9) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	755 g (26.6 oz) (w/o accs.) 946 g (33.3 oz) (w/ accs.) [7]
Dimensions (WxLxH)	90x229x93 mm (3.54x9.01x3.66 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [8]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59 mm (.338)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [9]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Eyecup	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [9]

☐ Hard Case	☐ Wireless Remote Control (BRC)
☐ Helmet Mounted Display (HMD)	☐ External Battery Pack

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PARS 675N

THERMAL WEAPON SIGHT

The PARS 675N is the top-of-the-range thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

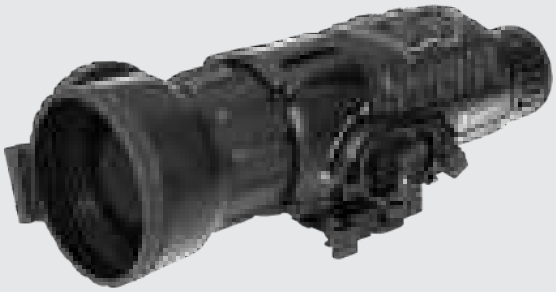
It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, The PARS 675N is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 675N delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

PARS 675N can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	30 mm
E- Zoom	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [2]	75 mm
Field of View (HxV)	8.3˚ x 6.6˚
Min. Focus Distance	9 m
DRI [3]	Human Detection - 2200 m / 2405 yd Vehicle Detection - 6750 m / 7381 yd
Diopter	+2,-6 dpt



KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detect recognition
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”
- **THE SIMPLEST RETICLE ZEROING EVER**
  With the auto reticle zeroing feature, just give PARS 675N a few data about your shooting; PARS 675N will automatically zero your reticle in seconds regardless of your distance. Don’t bother with calculations

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Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [4]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [5]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [6]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) MF: Manual Focus
(3) Related data are calculated based on "Johnson Criteria".
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(5) May not be available on all devices. Please contact us for detailed information.
(6) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(7) With mounting adapter and 2 x 18650 batteries.
(8) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(9) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	842 g (29.7 oz) (w/o accs.) 1033 g (36.4 oz) (w/ accs.) [7]
Dimensions (WxLxH)	90x238x96 mm (3.54x9.40x3.77 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [8]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59mm (.338) 12.7 mm* NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.
* 12.7 mm (.50) NATO only for 675NH variation.

Standard Accessories [9]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Eyecup	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [9]

☐ Hard Case	☐ Wireless Remote Control (BRC)
☐ Helmet Mounted Display (HMD)	☐ External Battery Pack

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PARS G2-50

DUAL MODE THERMAL WEAPON SIGHT

The PARS G2-50 is the top-of-the-range dual mode thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 12-micron LWIR technology and a 640x480 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

The Pars G2-50 stands as the most compact dual mode thermal weapon sight equipped with 50mm, boasting a detection range of up to 3000+ meters. Its remarkably brief length of merely 106mm facilitates its attachment to machine guns, which typically offer limited mounting space due to their structural design.

“Experience unmatched vision with the PARS G2-50: the world’s most compact dual-mode thermal weapon sight, boasting a detection range over 3000 meters.”

The PARS G2-50’s lens features an athermalized design, guaranteeing steady precision across a broad spectrum of environmental conditions. This allows for unvarying accuracy in performance, unaffected by changes in weather or the time of day.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, The PARS G2-50 is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

General Data	
Frame Rate	60 Hz
Display Type	Color OLED
Eye Relief	∞
E- Zoom [(1)]	0.8x, 1x, 2x, 4x, 6x
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens	50 mm
Optical Magnification	1x
Field of View (HxV)	8.8˚ x 7.0˚

Sensor Data	
Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 480 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	12 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x480 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detail recognition
- **EXCELLENT BORESIGHT RETENTION**
  It offers a high-performance shooting experience via superior boresight retention through its state of the art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)

Advanced Features

Video Recording	Yes
Image Capturing	Yes
Reticle	Multiple Reticle Patterns
Reticle Color	Multiple Reticle Colors
Reticle Zeroing	Yes
User Profiles	Up to 5 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (PAL/NTSC)

Physical Data

Weight	500 g (17.63 oz)
Dimensions (WxLxH)	83x106x76 mm (3.27x4.20x3 in)
Housing Material	Aluminium
Color	Black, FDE or Green
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	1 x 18650 Rechargeable Li-ion
Battery Life [2]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP68

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [3]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Interface Bellows	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [3]

☐ Hard Case	☐ Wireless Remote Controller
☐ Shuttered Eyecup	☐ External Battery Pack

(1) E-Zoom cannot be used in clip-on mode.
(2) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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PARS 635

CLIP-ON THERMAL WEAPON SIGHT

PARS 635 is the top-of-the-range dual use clip-on thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, PARS 635 is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 635 delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

It offers a high-performance shooting experience via superior boresight retention through its state-of-the-art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform.

PARS 635 can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	∞
E- Zoom [2]	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [3]	35 mm
Optical Magnification	1x
FOV (HxV)	17.7˚ x 13.3˚
Min. Focus Distance	3 m
DRI [4]	Human Detection - 1020 m / 1115 yd Vehicle Detection - 3160 m / 3455 yd

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detail recognition
- **EXCELLENT BORESIGHT RETENTION**
  It offers a high-performance shooting experience via superior boresight retention through its state of the art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”

DS30010-35-EN | RevC | 07.23

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640x512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [5]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [6]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [7]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) E-Zoom cannot be used in clip-on mode.
(3) MF: Manual Focus
(4) Related data are calculated based on "Johnson Criteria".
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(6) May not be available on all devices. Please contact us for detailed information.
(7) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(8) With mounting adapter and 2 x 18650 batteries.
(9) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(10) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	608 g (21.4 oz) (w/o accs.) 799 g (28.1 oz) (w/ accs.) [8]
Dimensions (WxLxH)	90x189x93 mm (3.54x7.44x3.66 in)
Optical Axis Distance (A)	40.90 mm (1.61 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [9]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

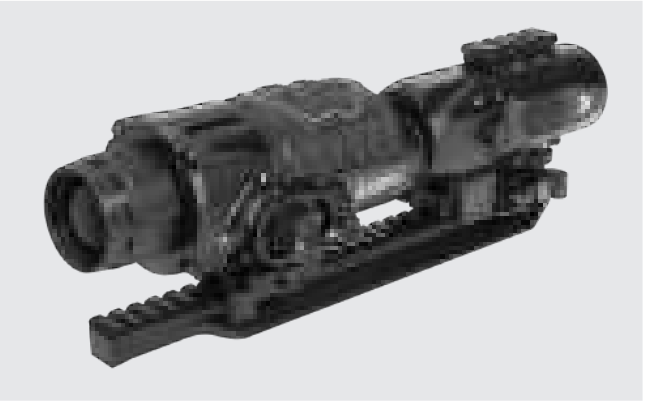
■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [10]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Interface Bellows	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [10]

☐ Hard Case	☐ Helmet Mounted Display (HMD)
☐ Diopter Filter (-0.75 dpt)	☐ Wireless Remote Control (BRC)
☐ Eyecup	☐ External Battery Pack



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PARS 660

CLIP-ON THERMAL WEAPON SIGHT

PARS 660 is the top-of-the-range dual use clip-on thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, PARS 660 is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 660 delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

It offers a high-performance shooting experience via superior boresight retention through its state-of-the-art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform.

PARS 660 can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	∞
E- Zoom [2]	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [3]	60 mm
Optical Magnification	1x
Field of View (HxV)	10.2˚ x 7.7˚
Min. Focus Distance	3 m
DRI [4]	Human Detection - 1760 m / 1924 yd Vehicle Detection - 5400 m / 5905 yd

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detect recognition
- **EXCELLENT BORESIGHT RETENTION**
  It offers a high-performance shooting experience via superior boresight retention through its state of the art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”

DS30010-60-EN | RevC | 07.23

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [5]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [6]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [7]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) E-Zoom cannot be used in clip-on mode.
(3) MF: Manual Focus
(4) Related data are calculated based on "Johnson Criteria".
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(6) May not be available on all devices. Please contact us for detailed information.
(7) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(8) With mounting adapter and 2 x 18650 batteries.
(9) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(10) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	737 g (25.9 oz) (w/o accs.) 928 g (32,73 oz) (w/ accs.) [8]
Dimensions (WxLxH)	90x221x93 mm (3.54x8.70x3.66 in)
Optical Axis Distance (A)	40.90 mm (1.61 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [9]	8+ hour

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59 mm (.338)

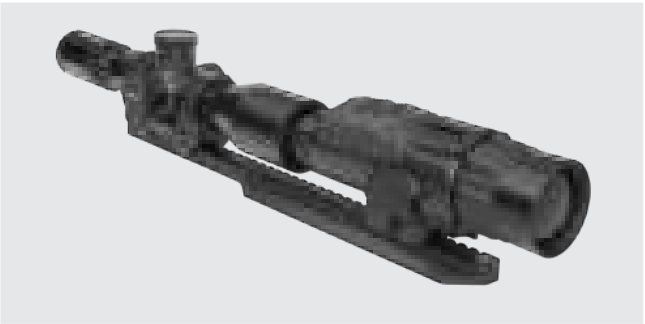
■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [10]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Interface Bellows	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [10]

☐ Hard Case	☐ Helmet Mounted Display (HMD)
☐ Diopter Filter (-0.75 dpt)	☐ Wireless Remote Control (BRC)
☐ Eyecup	☐ External Battery Pack



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PARS 675

CLIP-ON THERMAL WEAPON SIGHT

PARS 675 is the top-of-the-range dual use clip-on thermal weapon sight to deliver world-leading performance on image processing. It offers unrivaled optical performance via 17-micron LWIR technology and a 640x512 thermal sensor. In addition, the advanced image processing leads to excellent image clarity and provides better detection and recognition, allowing conquering the night with its exceptional visual quality.

It has a rugged and lightweight construction to survive extreme conditions with peak performance so that the elite operators can count on it. Tested for MIL-STD-810 and with a waterproof design, PARS 675 is durable and reliable under harsh environmental conditions with its all-aluminium construction for maximum structural rigidity.

PARS 675 delivers the most efficient and feasible user experience with its user-friendly interface. It includes many advanced features such as wireless video transfer to various platforms, wireless remote control, picture in picture (PiP) mode, internal video and image recording.

It offers a high-performance shooting experience via superior boresight retention through its state-of-the-art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform.

PARS 675 can be quickly mounted on any MIL-STD-1913 rail interface.

General Data	
Frame Rate [1]	60 Hz
Display Type	Color OLED
Eye Relief	∞
E- Zoom [2]	2x, 3x, 4x, 8x (PiP Mode)
Start-up Time	<5 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [3]	75 mm
Optical Magnification	1X
Field of View (HxV)	8.3˚ x 6.6˚
Min. Focus Distance	9 m
DRI [4]	Human Detection - 2200 m / 2405 yd Vehicle Detection - 6750 m / 7381 yd

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  A high-resolution 640x512 long-wave IR sensor and premium germanium optics paired with a high-definition display provide outstanding image clarity and perfect detail recognition
- **EXCELLENT BORESIGHT RETENTION**
  It offers a high-performance shooting experience via superior boresight retention through its state of the art optical design and revolutionary software architecture developed by the engineering team, which can adapt automatically according to the platform
- **VIDEO AND STILL-PHOTO RECORDING**
  Store your hours of video and thousands of photos in the internal memory
- **COMPACT, LIGHT AND RUGGED**
  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments
- **COMBAT-PROVEN DURABILITY**
  Robustly designed and field-tested so the most elite operators can count on it (20,000+ PARS delivered/fielded by various military forces)
- **WI-FI INTERFACE WITH MULTIPLE PLATFORMS**
  The built-in Wi-Fi module connects with Android, IOS or Windows platforms. Seamlessly control the features of the PARS through these platforms
- **CREATE YOUR OWN RETICLE**
  Along with a wide variety of built-in reticles, you can create your own reticle just as you imagine it. For more information, visit “www.reticlecreator.com”

DS30010-75-EN | RevC | 07.23

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	17 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Integrated WI-FI [5]	Yes (Wireless Video Streaming w/AppStore, Google Play, Windows)
Integrated Bluetooth	Yes
Motion Detection	Yes [6]
Video Recording	Yes (Format: MP4 | Capacity: 180+ minutes)
Image Capturing	Yes (Format: JPEG | Capacity: 10000+ photos)
Eye Comfort Mode	Yes
2-Axis Angle Indicator	Yes
Stadiametric Range Finder	Yes
Continuous E-Zoom	+0.05x (1.00, 1.05, 1.10...)
Reticle	Multiple Reticle Patterns [7]
Reticle Color	Multiple Reticle Colors, Auto POL, Auto BG
Reticle Brightness Adjustment	Yes
Reticle FP	FFP, SFP
Reticle Stadia	Yes
Reticle Zeroing	Manual, Auto
User Profiles	Up to 10 Profiles
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Active Histogram Equalization	Yes
Polarity	White-Hot, Black-Hot, Multiple Pseudo Colors
Outline Mode	Yes
Zoom Assist (PiP Mode)	Yes
Video Output	Yes (Digital; USB & Analog)

(1) Some devices may offer 25/30 Hz. Contact us for detailed information.
(2) E-Zoom cannot be used in clip-on mode.
(3) MF: Manual Focus
(4) Related data are calculated based on "Johnson Criteria".
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(6) May not be available on all devices. Please contact us for detailed information.
(7) User customized reticles can be loaded. For detailed information, visit **www.reticlecreator.com**
(8) With mounting adapter and 2 x 18650 batteries.
(9) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions. The battery life may vary across certain PARS models.
(10) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Physical Data

Weight	839 g (29.5 oz) (w/o accs.) 1030 g (36.3 oz) (w/ accs.) [8]
Dimensions (WxLxH)	90x239x96 mm (3.54x9.40x3.77 in)
Optical Axis Distance (A)	40.90 mm (1.61 in)
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weapon Mount Type	Quick Release Mount
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Electronical Data

Battery	2 x 18650 Rechargeable Li-ion
Battery Life [9]	8+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59mm (.338) 12.7 mm* NATO (.50)

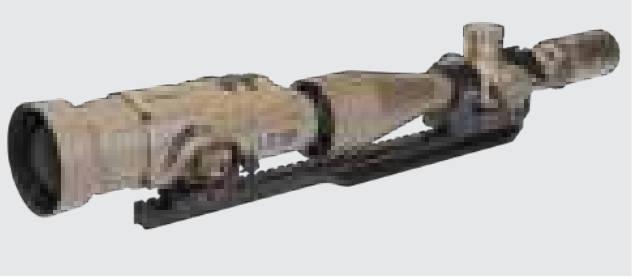
■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.
* 12.7 mm (.50) NATO only for 675H variation.

Standard Accessories [10]

■ User and Operating Manual	■ 2 x 18650 Rechargeable Lithium Ion Battery
■ Quick Release Weapon Mount	■ Lens Cleaning Cloth
■ Battery Charger	■ Objective Protection Cover
■ Interface Bellows	■ 0.8m USB & BNC Cable
■ Soft Carrying Bag	

Optional Accessories [10]

☐ Hard Case	☐ Helmet Mounted Display (HMD)
☐ Diopter Filter (-0.75 dpt)	☐ Wireless Remote Control (BRC)
☐ Eyecup	☐ External Battery Pack



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FELIS H35

THERMAL HAND-HELD CAMERA

FELIS H35 Thermal Handheld Camera delivers crisp, clear images with high definition in a durable and reliable body. It offers exceptional and superior performance in day/night surveillance with outstanding usability and handling.

FELIS H35 is developed with innovative image processing algorithms to optimize the image clarity to the maximum level and provide high-quality rendering within the target and the background. It is equipped with an advanced 12 µm high sensitivity sensor and F1.0 fast premium germanium lens to get the detail in the image down to the smallest detail.

The optimized software and advanced electrical design minimize battery consumption to the lowest levels and offer 8+ hours of uninterrupted use with a single battery.

3E engineering team designed FELIS H35 for harsh environmental conditions with its all aluminium construction for maximum structural rigidity in a monocular infrastructure.

Experience a completely different thermal experience with FELIS H35 and exceed your expectations.

General Data	
Frame Rate	60 Hz
Display Type	Color OLED
Eye Relief	30 mm
E-Zoom	2x, 4x
Start-up Time	<3 sec.
Calibration	Auto, Semi-Auto, Manual

Optical Data	
Objective Lens (MF) [(1)]	35 mm - F 1.0
FOV (HxV)	12.5˚ x 9.4˚
Minimum Focus Distance	3 m
DRI [(2)]	Human Detection - 1400 m / 1531 yd Vehicle Detection - 4400 m / 4811 yd
Diopter	+2,-6 dpt

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**

  A high-resolution 640x512 long-wave IR sensor and fast premium germanium optics paired with a high-definition display provide outstanding image clarity and ensure perfect detail recognition

- **ADVANCED 12 µm HIGH SENSITIVITY SENSOR**

  FELIS H35 carries the industry-leading new 12 µm high sensitivity sensor and F1.0 fast germanium lenses to provide excellent image clarity

- **UP TO 8+ HOURS OF CONTINUOUS OPERATION**

  Uninterrupted usage experience with 8+ battery life with a single battery

- **VIDEO AND STILL-PHOTO RECORDING**

  The internal memory offers storage space for videos and photos. In addition, you can download recorded files seamlessly when connected to the PC

- **COMPACT, LIGHT AND RUGGED**

  The highly portable and exceptionally modern design provides the operator with ease of use and simple control for all device menu adjustments

DS30021-EN | Rev.C | 07.23

Sensor Data

Sensor Technology	Uncooled Microbolometer
Sensor Resolution	640 x 512 pixels
Sensor Sensitivity	< 30 mK @f/1.0
Sensor Pitch	12 µm
Spectral Range	LWIR; 7.5 µm to 13.5 µm

Advanced Features

Video Recording	Yes
Image Capturing	Yes
Zoom Assist (PiP Mode)	Yes
Brightness Adjustment	Yes
Contrast Adjustment	Yes
Sharpness Adjustment	Yes
Polarity	White-Hot, Black-Hot, Multiple Colors
Outline Mode	Yes
Video Output	Yes

Electronical Data

Battery	1 x 18650 Rechargeable Li-ion
Battery Life [3]	8+ hours

Physical Data

Weight	480 g (16.93 oz) (w/o accs.)
Dimensions (WxLxH)	69x152x75 mm (2.71x5.98x2.95 in)
Housing Material	Aluminium and Plastic Parts
Color	Black or FDE

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [4]

■ User and Operating Manual	■ 18650 Rechargeable Lithium Ion Battery
■ Lens Cleaning Cloth	■ Eyecup
■ Battery Charger	■ Objective Protection Cover
■ 0.8m USB & BNC Cable	■ Soft Carrying Bag

Optional Accessories [4]

☐ Hard Case	☐ External Battery Pack

(1) MF: Manual Focus
(2) Related data are calculated based on "Johnson Criteria".
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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SERHAT

AVIATION NIGHT VISION GOGGLES

SERHAT aviation night vision goggles deliver outstanding performance and depth perception even in the most challenging low-light conditions with its premium fast objective lens design. Thus, it provides sufficient vision for a pilot to complete night time missions down to starlight and extreme low light conditions. It is an elite dual tube night vision goggle which offers the user total depth perception.

It has an ergonomic low-profile and compact design that offers superior situational awareness with easy-to-use interface controls including inter-pupillary and vertical/fore aft/tilt adjustments.

SERHAT significantly expands the operational mission capability of helicopter crews.

General Data	
Objective Lens	F/0.95 or F/1.2
Optical Magnification	1X
FOV	40˚
Min. Focus Distance	25 cm - ∞
Diopter	-6, +2
Eye Relief	25 mm
Monocular Axis Movement Distance	48-76 mm
Objective Lens Filter	Internal Minus B Filter
Weight	<525 g (18.52 oz)
Battery	External Battery Pack

Image Intensifier Data

SERHAT can be offered with different image intensifier tubes. Please contact us for your detailed request.

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

KEY FEATURES

- **PREMIUM FAST F/0.95 OBJECTIVE LENS**
  For increased sensitivity even in the most challenging low-light conditions
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **MULTIPLE HELMET-MOUNT OPTIONS**
  Adaptable to different helmets in line with the demands of the user
- **SMOOTHER FOCUS ADJUSTMENT**
  Clearer images with a more precise focus adjustment
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance

DS20002-EN | Rev:C | 09.22

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M14

MONOCULAR NIGHT VISION

Designed to meet the rigorous PVS-14 standards utilized by military and law enforcement operators globally, including NATO forces, the M14 Monocular Night Vision represents an exceptional optics for professional nighttime operations.

The M14 offers unparalleled flexibility in use. When mounted on the head or helmet, it provides users with the unique advantage of maintaining night-adapted vision in one eye, while the other surveys the environment through the device's illuminated eyepiece. An additional standout feature is its capability to be weapon-mounted behind most collimated daylight aimers and reflex sights. This dual-mode functionality equips the user with enhanced mobility and tactical awareness as a monocular night vision and as a short-range weapon sight.

Engineered for resilience, the M14's robust design is proven in combat and built to withstand extreme operations in the harshest of conditions and environments. Furthermore, it showcases compatibility with all PVS-14 type accessories, optics, and image intensifier tubes, setting a new standard for monocular night vision systems. This comprehensive adaptability ensures seamless integration into existing equipment ecosystems without the need to replace current accessories.

The M14 does not compromise on functionality. It boasts automatic flip-up shut-off, an infrared illuminator, a low battery indicator, and a highlight cut-off. These features are designed to optimize performance while preserving the device's longevity.

Embodying military specifications, the M14 Monocular Night Vision enhances nighttime operational effectiveness and boosts situational awareness. It is an indispensable asset on the battlefield, reinforcing the professional capabilities of its user and establishing new benchmarks in night vision technology.

Physical Data	
Weight (1)	235 g (8.28 oz)
Dimensions (WxLxH)	65x105x70 mm (2.55x4.13x2.75 in)

Optical Data	
Magnification	1X
Objective	27 mm
Field of View	40°
Focus Distance	25 cm - ∞
F#	F/1.2
Diopter Adjustment	-6, +2 dpt

Image Intensifier Data

M14 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Electronical Data	
IR Illumination	Yes
IR Indicator	Yes (in FOV)
Low Battery Indicator	Yes (in FOV)
Flip Up Turn Off Function (2)	Yes
High Light Cut-Off	Yes
Battery	1 x AA
Battery Life	40+ hours

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (3)	
■ Lens Cleaning Cloth	■ 1 x AA
■ Objective Protection Cover	■ Eyecup
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories (3)	
☐ Sacrificial Filter	☐ Hard Case
☐ Protection Filter	☐ Face Mask
☐ Daylight Filter	☐ Weapon Mount
☐ Light Reducing Filter	☐ Low Temperature Adapter
☐ Helmet Mount	☐ Shuttered Eyecup

(1) Weight may vary up to 330 grams depending on lens variations.
(2) Applicaple if used with compatible helmet mount.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

DS20003-EN | Rev:E | 12.23

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B31

BINOCULAR NIGHT VISION

The B31 Binocular Night Vision is purpose-built to enhance nighttime operational effectiveness and heighten situational awareness for operators. Engineered with a dual-tube design, this compact, lightweight goggle is optimized for seamless performance in the most challenging low-light conditions.

The B31's dual-tube system provides superior image resolution, enabling unparalleled capabilities for target detection, recognition, and identification across significant distances. Its standout feature is its independent dual-tube housings, offering the flexibility to operate in either binocular or monocular configurations as per mission requirements. In the binocular configuration, the two tubes work together to provide enhanced depth perception, simplifying terrain navigation, obstacle maneuvering, and operation of controls or devices. The monocular configuration, on the other hand, provides the versatility to adapt swiftly to fluctuating lighting conditions often encountered in tactical environments.

The B31's power versatility further solidifies its robust design. It can operate efficiently using an onboard AA battery or an external battery pack for prolonged usage scenarios. Notably, this external battery pack incorporates dual infrared strobe lights - a critical feature for ground personnel identification.

The B31 Binocular Night Vision Device does more than augment your visibility in the dark. With its advanced capabilities and rugged design, it significantly boosts your operational efficiency and success rate. The B31 empowers you to not merely adapt to, but assert control over, the darkness. Master the night with the B31.

Physical Data	
Weight (1)	520 g (18.34 oz)
Dimensions (WxLxH)	115x105x90 mm (4.52x4.13x3.54 in)
Monocular Opening Angle	140°

Optical Data	
Magnification	1X
Objective	27 mm
Field of View	40°
Focus Distance	25 cm - ∞
F#	F/1.2
Diopter Adjustment	-6, +2 dpt

Image Intensifier Data

B31 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP68

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Electronical Data	
IR Illumination	Yes
Sleep Mode	Yes
IR Indicator	Yes (in FOV)
Low Battery Indicator	Yes (in FOV)
Flip Up Turn Off Function (2)	Yes
Battery	1 x AA
Battery Life	15+ hours / 50+ hours (External Battery Pack)

Standard Accessories (3)	
■ Lens Cleaning Cloth	■ 1 x AA
■ 2 x Objective Protection Cover	■ 2 x Eyecup
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories (3)	
☐ Sacrificial Filter	☐ Daylight Filter
☐ Protection Filter	☐ Light Reducing Filter
☐ Helmet Mount	☐ Hard Case
☐ Face Mask	☐ External Battery Pack

(1) Weight may change between 500 and 580 grams depending on the variotions of the lenses.
(2) Applicaple if used with compatible helmet mount.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

DS20004-EN | Rev:D | 07.23

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ENES N4

NIGHT VISION WEAPON SIGHT

The ENES N4 is a versatile and dependable night vision weapon sight that excels in accuracy, durability, and target acquisition capabilities.

Its robust construction ensures it can withstand harsh environments and extreme weather conditions. It offers excellent target acquisition and identification capabilities, making it ideal for military operations and law enforcement applications. Its user-friendly design allows for quick and easy adjustments, ensuring optimal performance in any situation. It is equipped with advanced image intensifier technology, offering crisp and clear images even in low-light conditions.

Crafted to meet military specifications for mid to long-range accuracy, the ENES N4 is compatible with a wide range of individual and crew-served weapons.

The ENES N4 can be quickly mounted on any MIL-STD-1913 rail interface.

Physical Data

Weight (w/o accs.) [1]	805 g (28.39 oz)
Dimensions (WxLxH)	236x94x90 mm (9.29x3.70x3.54 in)
Color	Black or FDE
Weapon Mount Type	Hand Tighten or Quick Release Mount [2]
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data

Magnification	4.5X
Objective	108 mm
Field of View	9°
Focus Distance	10 cm - ∞
F#	F/1.54
Diopter Adjustment	-4, +2 dpt
Eye Relief	35 mm

Image Intensifier Data

ENES N4 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Reticle Data

Reticle Type	Mil-Dot
Reticle Color	Red
Reticle Illumination	Yes - 5 levels
Reticle Travel Range	10+ MIL
Windage Adjustment Click Value	0.15 MIL
Elevation Adjustment Click Value	0.15 MIL

ENES Remote Controller

Electronical Data

IR Illumination	Yes (Detachable Long Range IR)
Low Battery Indicator	Yes
Autogating	Yes
Automatic Shut-off System	Yes
Manual Gain Control	Yes
Remote Control [2]	Yes (Wireless)
Battery	1 x CR123 (3V) or 2 x CR123 (3V)
Battery Life [3] [4]	60+ hours (w/ 1 x CR123) / 120+ hours (w/ 2 x CR123)

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	Up to 12.7 mm (.50)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories

■ Lens Cleaning Cloth	■ 1 x CR123
■ Objective Protection Cover	■ Eyecup
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories

☐ Remote Control	☐ Hard Case
☐ Detachable Long Range IR Illuminator	☐ Quick Release Mount

(1) The weight has been calculated excluding the mount and battery.
(2) This feature is available as an option.
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) All ENES models can be offered in 1 x CR123 or 2 x CR123 configuration. The standard model is 1 x CR123. 2 x CR123 model is optional.

Contact 3E for product codes and SKUs.

DS20005-N4-EN | Rev:C | 03.24

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ENES N6

NIGHT VISION WEAPON SIGHT

The ENES N6 is a versatile and dependable night vision weapon sight that excels in accuracy, durability, and target acquisition capabilities.

Its robust construction ensures it can withstand harsh environments and extreme weather conditions. It offers excellent target acquisition and identification capabilities, making it ideal for military operations and law enforcement applications. Its user-friendly design allows for quick and easy adjustments, ensuring optimal performance in any situation. It is equipped with advanced image intensifier technology, offering crisp and clear images even in low-light conditions.

Crafted to meet military specifications for long-range accuracy, the ENES N6 is compatible with a wide range of individual and crew-served weapons.

The ENES N6 can be quickly mounted on any MIL-STD-1913 rail interface.

Physical Data

Weight (w/o accs.) (1)	985 g (34.74 oz)
Dimensions (WxLxH)	290x98x99 mm (11.41x3.85x3.89 in)
Color	Black or FDE
Weapon Mount Type	Hand Tighten or Quick Release Mount (2)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data

Magnification	6X
Objective	145 mm
Field of View	7°
Focus Distance	25 cm - ∞
F#	F/1.8
Diopter Adjustment	-4, +2 dpt
Eye Relief	35 mm

Image Intensifier Data

ENES N6 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Reticle Data

Reticle Type	Mil-Dot
Reticle Color	Red
Reticle Illumination	Yes - 5 levels
Reticle Travel Range	10+ MIL
Windage Adjustment Click Value	0.15 MIL
Elevation Adjustment Click Value	0.15 MIL

ENES Remote Controller

Electronical Data

IR Illumination	Yes (Detachable Long Range IR)
Low Battery Indicator	Yes
Autogating	Yes
Automatic Shut-off System	Yes
Manual Gain Control	Yes
Remote Control (2)	Yes (Wireless)
Battery	1 x CR123 (3V) or 2 x CR123 (3V)
Battery Life (3) (4)	60+ hours (w/ 1 x CR123) / 120+ hours (w/ 2 x CR123)

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	Up to 12.7 mm (.50)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories

■ Lens Cleaning Cloth	■ 1 x CR123
■ Objective Protection Cover	■ Eyecup
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories

☐ Remote Control	☐ Hard Case
☐ Detachable Long Range IR Illuminator	☐ Quick Release Mount

(1) The weight has been calculated excluding the mount and battery.
(2) This feature is available as an option.
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) All ENES models can be offered in 1 x CR123 or 2 x CR123 configuration. The standard model is 1 x CR123. 2 x CR123 model is optional.

Contact 3E for product codes and SKUs.

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ENES C4

CLIP-ON NIGHT VISION WEAPON SIGHT

The ENES C4 is a versatile and dependable clip-on night vision weapon sight that excels in accuracy, durability, and target acquisition capabilities.

Its robust construction ensures it can withstand harsh environments and extreme weather conditions. It offers excellent target acquisition and identification capabilities, making it ideal for military operations and law enforcement applications. Its user-friendly design allows for quick and easy adjustments, ensuring optimal performance in any situation. It is equipped with advanced image intensifier technology, offering crisp and clear images even in low-light conditions.

It can be installed in front of your regular day vision scope. This implies that you do not need to readjust your scope, nor do you need to take off your day vision scope. This makes it incredibly convenient for users who rely on their day vision scopes for accurate targeting. With this add-on, you can seamlessly transition between day and night vision without any disruptions or delays.

Crafted to meet military specifications for mid to long-range accuracy, the ENES C4 is compatible with a wide range of individual and crew-served weapons.

The ENES C4 can be quickly mounted on any MIL-STD-1913 rail interface.

Physical Data

Weight (w/o accs.) (1)	915 g (32.27 oz)
Dimensions (WxLxH)	236x94x90 mm (9.29x3.70x3.54 in)
Color	Black or FDE
Weapon Mount Type	Hand Tighten or Quick Release Mount (2)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data

Magnification	1X
Objective	108 mm
Field of View	9°
Focus Distance	10 cm - ∞
F#	F/1.54

Image Intensifier Data

ENES C4 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Electronical Data

IR Illumination	Yes (Detachable Long Range IR)
Low Battery Indicator	Yes
Autogating	Yes
Automatic Shut-off System	Yes
Manual Gain Control	Yes
Remote Control (2)	Yes (Wireless)
Battery	1 x CR123 (3V) or 2 x CR123 (3V)
Battery Life (3)(4)	60+ hours (w/ 1 x CR123) / 120+ hours (w/ 2 x CR123)

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	Up to 12.7 mm (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories

■ Lens Cleaning Cloth	■ 1 x CR123
■ Objective Protection Cover	■ Interface Bellows
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories

☐ Remote Control	☐ Hard Case
☐ Detachable Long Range IR Illuminator	☐ Quick Release Mount

(1) The weight has been calculated excluding the mount and battery.
(2) This feature is available as an option.
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) All ENES models can be offered in 1 x CR123 or 2 x CR123 configuration. The standard model is 1 x CR123. 2 x CR123 model is optional.

Contact 3E for product codes and SKUs.

ENES Remote Controller

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ENES C6

CLIP-ON NIGHT VISION WEAPON SIGHT

The ENES C6 is a versatile and dependable clip-on night vision weapon sight that excels in accuracy, durability, and target acquisition capabilities.

Its robust construction ensures it can withstand harsh environments and extreme weather conditions. It offers excellent target acquisition and identification capabilities, making it ideal for military operations and law enforcement applications. Its user-friendly design allows for quick and easy adjustments, ensuring optimal performance in any situation. It is equipped with advanced image intensifier technology, offering crisp and clear images even in low-light conditions.

It can be installed in front of your regular day vision scope. This implies that you do not need to readjust your scope, nor do you need to take off your day vision scope. This makes it incredibly convenient for users who rely on their day vision scopes for accurate targeting. With this add-on, you can seamlessly transition between day and night vision without any disruptions or delays.

Crafted to meet military specifications for long-range accuracy, the ENES C6 is compatible with a wide range of individual and crew-served weapons.

The ENES C6 can be quickly mounted on any MIL-STD-1913 rail interface.

Physical Data

Weight (w/o accs.) (1)	1085 g (38.27 oz)
Dimensions (WxLxH)	290x98x99 mm (11.41x3.85x3.89 in)
Color	Black or FDE
Weapon Mount Type	Hand Tighten or Quick Release Mount (2)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data

Magnification	1X
Objective	145 mm
Field of View	7°
Focus Distance	25 cm - ∞
F#	F/1.8

Image Intensifier Data

ENES C6 is equipped with NoctuVision image intensifier tubes. For an overview of various NoctuVision models, please scan the provided QR code.

NoctuVision

Electronical Data

IR Illumination	Yes (Detachable Long Range IR)
Low Battery Indicator	Yes
Autogating	Yes
Automatic Shut-off System	Yes
Manual Gain Control	Yes
Remote Control (2)	Yes (Wireless)
Battery	1 x CR123 (3V) or 2 x CR123 (3V)
Battery Life (3) (4)	60+ hours (w/ 1 x CR123) / 120+ hours (w/ 2 x CR123)

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	Up to 12.7 mm (.50)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories

■ Lens Cleaning Cloth	■ 1 x CR123
■ Objective Protection Cover	■ Interface Bellows
■ User and Operating Manual	■ Soft Carrying Bag

Optional Accessories

☐ Remote Control	☐ Hard Case
☐ Detachable Long Range IR Illuminator	☐ Quick Release Mount

(1) The weight has been calculated excluding the mount and battery.
(2) This feature is available as an option.
(3) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(4) All ENES models can be offered in 1 x CR123 or 2 x CR123 configuration. The standard model is 1 x CR123. 2 x CR123 model is optional.

Contact 3E for product codes and SKUs.

ENES Remote Controller

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DLIRIL MR

DUAL LASER POINTER & ILLUMINATOR

DLIRIL MR combines four unique functionalities in a single body: visible red laser, infrared (IR) laser, infrared (IR) illuminator, and visible tactical flashlight. Tactical flashlight has a very powerful illumination capability with its 500 Lumens power. DLIRIL MR comes with high or low power modes.

DLIRIL MR has a wide range of applications in different conditions. It can be used as an accurate target pointer to assist auxiliary weapons in wide-range operations. It offers additional IR pointer and illuminator support for night vision systems during the night conditions. It can also be used as a visible laser pointer and a tactical flashlight for tactical shoots in CQB. The integrated weapon mount is compatible with MIL-STD 1913 and STANAG 4694.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the DLIRIL MR is durable and reliable with its aluminium construction for maximum structural rigidity.

General Data	
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weight	270 g (9.52 oz) (w/o battery) 303 g (11.64 oz) (w/ battery)
Dimensions (WxLxH)	42x104x72 mm (1.65x4.09x2.83 in)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694
Windage & Elevation Adjustment	Yes
On/Off Switch	Rotary Switch/Integrated Buttons
Battery	1 x 18500 Lithium-Ion Battery

Battery Life Chart [1]	
Visible Laser Pointer	50+ hours
IR Laser Pointer	60+ (Low), 15+ (High) hours
IR Laser Illuminator	50+ (Low), 12+ (High) hours
Visible Illuminator	1+ (High), 2.5+ (Mid), 10+ (Low) hours

KEY FEATURES

- **4 TECHNOLOGIES IN A SINGLE BODY**
  Includes visible red laser, infrared (IR) laser, infrared (IR) illuminator, and visible tactical flashlight
- **CO-ALIGNED VISIBLE AND INFRARED LASERS**
  Lasers are co-aligned for the most precise use
- **USER ENABLED STROBE FUNCTION**
  Offers strobe feature to disorient the enemy
- **COMPACT AND FUNCTIONAL DESIGN**
  Compact body with a functional design in line with the demands of the most elite users
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS50001-10-MR-EN | Rev: B | 07.22

Visible Laser Pointer

Output Power	< 5 mW
Beam Divergence [2]	0.8 mRad
Wavelength	635 nm
Class	Class 3A

Output power will be ≤ 1 mW if training mode is activated.

IR Laser Pointer

Max. Output Power High [3]	40 mW
Output Power Low [3]	≤ 5 mW
Beam Divergence [2]	0.8 mRad
Wavelength	850 nm
Class	Class 3B

Output power will be < 1 mW in both high and low modes if training mode is activated.

IR Laser Illuminator

Max. Output Power High [3]	50 mW
Output Power Low [3]	≤ 10 mW
Beam Divergence [4]	100 mRad
Wavelength	850 nm
Class	Class 3B

Output power will be < 5 mW in both high and low modes if training mode is activated.

Visible Illuminator

Peak Illuminance High [5]	500 Lumens
Peak Illuminance Mid [5]	225 Lumens
Peak Illuminance Low [5]	60 Lumens
Type	LED

(1) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(2) Tolerance value is +/- 0.2 mrad.
(3) Values may vary. Please contact us for detailed information.
(4) Tolerance value is +/- 15 mrad.
(5) Tolerance value is +/- 10%.
(6) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	Submersible to 10 m

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Advanced Features

Remote Cable Pressure Pad	Yes
Traning Mode	Yes
OFF Mode Vibration Warning	Yes
Adjustable Visible Illuminator	Yes (Low, Mid, High)

Standard Accessories [6]

■ Soft Carrying Bag	■ 3.7V 18500 Lithium-Ion Battery
■ Remote Cable Pressure Pad	■ Battery Charging Kit
■ User and Operating Manual	

Optional Accessories [6]

☐ Hard Case	☐ Optical Pattern Generators
☐ Iron Sight	

DS50001-10-MR-EN | Rev: B | 07.22

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DLIRIL MG

DUAL LASER POINTER & ILLUMINATOR

DLIRIL MG combines four unique functionalities in a single body: visible green laser, infrared (IR) laser, infrared (IR) illuminator, and visible tactical flashlight. Tactical flashlight has a very powerful illumination capability with its 500 Lumens power. DLIRIL MG comes with high or low power modes.

DLIRIL MG has a wide range of applications in different conditions. It can be used as an accurate target pointer to assist auxiliary weapons in wide-range operations. It offers additional IR pointer and illuminator support for night vision systems during the night conditions. It can also be used as a visible laser pointer and a tactical flashlight for tactical shoots in CQB. The integrated weapon mount is compatible with MIL-STD 1913 and STANAG 4694.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the DLIRIL MG is durable and reliable with its aluminium construction for maximum structural rigidity.

General Data	
Housing Material	Aluminium w/ Plastic Parts
Color	Black or FDE
Weight	270 g (9.52 oz) (w/o battery) 303 g (11.64 oz) (w/ battery)
Dimensions (WxLxH)	42x104x72 mm (1.65x4.09x2.83 in)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694
Windage & Elevation Adjustment	Yes
On/Off Switch	Rotary Switch/Integrated Buttons
Battery	1 x 18500 Lithium-Ion Battery

Battery Life Chart [1]	
Visible Laser Pointer	15+ hours
IR Laser Pointer	60+ (Low), 15+ (High) hours
IR Laser Illuminator	50+ (Low), 12+ (High) hours
Visible Illuminator	1+ (High), 2.5+ (Mid), 10+ (Low) hours

KEY FEATURES

- **4 TECHNOLOGIES IN A SINGLE BODY**
  Includes visible green laser, infrared (IR) laser, infrared (IR) illuminator, and visible tactical flashlight
- **CO-ALIGNED VISIBLE AND INFRARED LASERS**
  Lasers are co-aligned for the most precise use
- **USER ENABLED STROBE FUNCTION**
  Offers strobe feature to disorient the enemy
- **COMPACT AND FUNCTIONAL DESIGN**
  Compact body with a functional design in line with the demands of the most elite users
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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Visible Laser Pointer

Output Power	< 5 mW
Beam Divergence [2]	0.8 mRad
Wavelength	532 nm
Class	Class 3A

Output power will be ≤ 1 mW if training mode is activated.

IR Laser Pointer

Max. Output Power High [3]	40 mW
Output Power Low [3]	≤ 5 mW
Beam Divergence [2]	0.8 mRad
Wavelength	850 nm
Class	Class 3B

Output power will be < 1 mW in both high and low modes if training mode is activated.

IR Laser Illuminator

Max. Output Power High [3]	50 mW
Output Power Low [3]	≤ 10 mW
Beam Divergence [4]	100 mRad
Wavelength	850 nm
Class	Class 3B

Output power will be < 5 mW in both high and low modes if training mode is activated.

Visible Illuminator

Peak Illuminance High [5]	500 Lumens
Peak Illuminance Mid [5]	225 Lumens
Peak Illuminance Low [5]	60 Lumens
Type	LED

(1) Battery life is calculated based on the original equipment battery. Battery life may vary depending on environmental and atmospheric conditions.
(2) Tolerance value is +/- 0.2 mrad.
(3) Values may vary. Please contact us for detailed information.
(4) Tolerance value is +/- 15 mrad.
(5) Tolerance value is +/- 10%.
(6) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	Submersible to 10 m

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Advanced Features

Remote Cable Pressure Pad	Yes
Traning Mode	Yes
OFF Mode Vibration Warning	Yes
Adjustable Visible Illuminator	Yes (Low, Mid, High)

Standard Accessories [6]

■ Soft Carrying Bag	■ 3.7V 18500 Lithium-Ion Battery
■ Remote Cable Pressure Pad	■ Battery Charging Kit
■ User and Operating Manual	

Optional Accessories [6]

☐ Hard Case	☐ Optical Pattern Generators
☐ Iron Sight	

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PLF

TACTICAL FLASHLIGHT and IR/VIS LASER POINTER

The PLF was designed as a low profile with a functional design in line with the demands of the most elite users.

It features a white LED technology with 500 Lumens, visible red laser and infrared laser. It is one of the most compact devices in its class, combining these three technologies.

It can securely attach to a wide range of handguns. According to the user's operational requirements, infrared laser on the invisible side and flashlight / red laser on the visible side can be easily operated independently or simultaneously. It utilizes windage and elevation adjustments to ensure precise and accurate zeroing.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the PLF is durable and reliable with its aluminium construction for maximum structural rigidity.

Physical Data	
Housing Material	Aluminium w/Plastic Parts
Color	Black
Weight [(1)]	75 g (2.64 oz)
Windage/Elevation Adjustment	Yes
Dimensions (WxLxH)	37x60x38 mm (1.45x2.36x1.49 in)
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Tactical Flashlight Data	
Peak Lumen Performance	500 lumens
LED Source	High Performance White LED

Visible Laser Pointer Data	
Output Power	<5 mW
Beam Divergence	<0.8 mRad
Wavelength	650 nm
Class	3R

KEY FEATURES

- **LOW-PROFILE AND FUNCTIONAL DESIGN**
  Designed as a low profile with a functional design in line with the demands of the most elite users
- **3 TECHNOLOGIES IN A SINGLE BODY**
  Features a white LED technology with 500 Lumens, visible red laser and infrared laser
- **USER ENABLED STROBE FUNCTION**
  Offers strobe feature to disorient the enemy
- **HOMOGENEOUS LIGHT DISTRIBUTION**
  Offers homogeneous light distribution for best focusing
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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IR Laser Pointer Data	
Output Power	<5 mW
Beam Divergence	<0.8 mRad
Wavelength	850 nm
Class	3R

Advanced Features	
Modes	Visible Laser, Flashlight, Visible Laser/ Flashlight, IR Laser
Flash Mode (Strobe)	Yes

Electronical Data	
Battery	CR123A

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (2)	
■ 1 x CR123A	■ User and Operating Manual
■ Allen Key	

(1) The weight given is calculated without accessories and batteries.
(2) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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LRB

LASER BORESIGHT

The LRB provides a precise and accurate alignment in the field without firing a single round of ammo to prevent the use of extra ammunition.

The LRB includes arbors for these calibers: 5.56mm, 7.62mm, 8.59mm and 12.7mm.

It utilizes windage and elevation adjustments to ensure precise and accurate zeroing.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the LRB is durable and reliable with its all-aluminium construction for maximum structural rigidity.

Physical Data	
Housing Material	Aircraft Grade Aluminium
Color	Black
Weight (w/o battery)	85 g (3 oz)
Dimensions (WxLxH)	24x89x41 mm (0.94x3.50x1.61 in)

Laser Data	
Wavelength	635 nm
Output Power (Low)	<1 mW (Class II) (NV Mode)
Output Power (High)	<5 mW (Class 3A)
Vertical & Horizontal Zeroing	Yes
Battery	1xAA (1.5 V)
Battery Life (Low Mode)	25 hours
Battery Life (High Mode)	10 hours

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Available Arbors	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59 mm (.338) 12.7 mm NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

KEY FEATURES

- **PREVENT THE USE OF EXTRA AMMUNITION**
  Precise and accurate alignment in the field without firing a single round of ammo
- **LIGHTWEIGHT AND COMPACT DESIGN**
  Lightweight and compact design for ease of use
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

Standard Accessories (1)	
■ Barrel Bar, Long	■ Soft Carrying Case
■ Barrel Bar, Short	■ 2 x AA Battery
■ 5.56 mm Arbor	■ Fixing Screw
■ 7.62 mm Arbor	■ Zeroing Adjustment Key
■ 8.59 mm Arbor	■ User and Operating Manual
■ 12.7 mm Arbor	■ 10 m Distance Rope

Optional Accessories (1)	
☐ Hard Case	

(1) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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MLRF-PRO

MONOCULAR LASER RANGEFINDER

Introducing the Monocular Laser Range Finder “MLRF-PRO”: a pinnacle of precision and reliability for snipers, marksmen, and forward observers. Designed for the most extreme conditions, this advanced range finder redefines operational excellence and connectivity in combat scenarios.

The MLRF-PRO is engineered with integrated GPS and GNSS satellite system support, ensuring unparalleled global positioning accuracy. Its seamless Bluetooth connectivity allows effortless integration with mobile apps and trajectory calculation devices, transforming your smart devices into powerful tools on the battlefield. Additionally, the device supports UART data transfer, enabling extensive compatibility with various external devices for comprehensive data sharing and analysis.

The MLRF-PRO boasts an intuitive dual-button design, simplifying operation and allowing users to swiftly measure distances and navigate functions. A universal 1/4” tripod socket ensures stable and secure mounting on a variety of supports, making the device versatile across different environments.

Despite its compact and lightweight build, the MLRF-PRO offers an impressive ranging capability of up to 6,000 meters using its Class I eye-safe 1550 nm laser module. It also provides precise angle measurements, ensuring unmatched accuracy.

Optimized for size, weight, power, and performance, the MLRF-PRO stands as a testament to cutting-edge innovation and superior craftsmanship. Elevate your operational effectiveness with this state-of-the-art range finder, designed for those who demand the very best in precision and reliability.

Mechanical Data	
Housing Material	High Grade Polymer w/NBR+PVC Armour
Color	Black, Green or FDE
Weight	430 g
Dimensions (WxLxH)	86x141x57 mm (3.38x 5.55x 2.24)
Tripod Interface	1/4”

Optical Data	
Observation	Monocular
Optical Magnification	7x
Objective Diameter	32 mm
Eye Relief	20 mm
Focus	Fixed
FoV @1000 m	6° (106 mil)
Diopter	± 5 dpt
Reticle	Electronic Aiming Mark w/ Glass Etched mRad Reticle

KEY FEATURES

- **ULTRA-COMPACT AND LIGHTWEIGHT**
  Optimized for size, weight, power, and performance, the MLRF-PRO is a testament to cutting-edge innovation and superior craftsmanship
- **INTUITIVE DUAL-BUTTON DESIGN**
  Simplifies operation, enabling swift distance measurement and easy navigation
- **RIGOROUSLY TESTED & MILITARY-GRADE QUALITY**
  Built for extreme conditions, this advanced rangefinder redefines operational excellence and connectivity in combat
- **IMPRESSIVE RANGING CAPABILITY OF UP TO 6,000 METERS**
  Measures ranges up to 6,000m with precise angle accuracy
- **EYE-SAFE OPERATION**
  Equipped with a CLASS I eye-safe laser per IEC 60825-1
- **GLASS ETCHED RETICLE**
  “Always on” with a glass etched reticle
- **PACKED WITH ADVANCED FEATURES**
  Angle measurement, height measurement, two-point rangefinding, target positioning, ballistic calculation, and more!

Communication Interface	
Wireless	Bluetooth® 4.1
Standard	UART / USB

Laser Rangefinder Data	
Laser Wavelength	1550 nm
Class	CLASS I (Eye Safe)
Range	30 m - 6000 m
Scanning Mode	Yes
Measurement Accuracy	± 2 m (50 m to 1500 m), ± 5 m (<50 m /> 1500m)

Digital Magnetic Compass	
Units	360°
Azimuth Accuracy	± 1°
Inclination Accuracy	± 1°

Electronical Data	
Battery	2 x 16340 or 1 x 18650
Battery Life	5000+ measurements

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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MLRF-M

MONOCULAR LASER RANGEFINDER

MLRF-M is designed to improve your vision and provide the power of a monocular in a laser rangefinder.

It is a rugged and modern laser rangefinder monocular integrated with premium glass optics and advanced bluetooth connectivity. It combines range finding phenomena with the in-built Applied Ballistics Ultralite® and externally connected Kestrel® that results in the most accurate ballistic calculations necessary for ultimate shooting experience in order for users to get the maximum benefit out of their device

It ranges up to 2500+ m on reflective targets with a CLASS I eye-safe laser and optimized beam divergence for maximum reliability on small targets.

It allows one-handed usage with its ergonomic design. It comes with a glass etched reticle that guarantees the continued use even if the battery runs out. Reinforced and rubberized protection on its housing provides solid protection from harshest environmental conditions.

It is portable and ideal for the elite users to carry it out with its extremely compact and lightweight design.

MLRF-M can be used in the harshest conditions with zero concern.

Mechanical Data	
Housing Material	High Grade Polymer w/NBR+PVC Armour
Color	FDE
Weight	270 g (9.52 oz)
Dimensions (WxLxH)	105x128x50 mm (4.13x5.04x1.97 in)
Tripod Interface	1/4”

Optical Data	
Observation	Monocular
Optical Magnification	7x
Objective Diameter	25 mm
Eye Relief	16 mm
Exit Pupil	3.6 mm
Focus	Fixed
FoV @1000 m	6° (105 m)
Diopter	± 3 dpt
Reticle	Electronic Aiming Mark w/ Glass Etched mRad Reticle

Kestrel® APPLIED BALLISTICS THE SCIENCE OF ACCURACY®

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **LIGHTWEIGHT AND COMPACT DESIGN**
  Lightweight and compact design for ease of use
- **ACCURATE AND RELIABLE**
  High precision laser technology for the most accurate and reliable results
- **EYE-SAFE OPERATION**
  Equipped with a CLASS I eye-safe laser per IEC 60825-1
- **GLASS ETCHED RETICLE**
  “Always on” with a glass etched reticle
- **ONBOARD APPLIED BALLISTICS ULTRALITE®**
  Onboard Applied Ballistics Ultralite® for ballistics solutions
- **CONNECTABILITY TO KESTREL® ELITE 5700**
  Ballistic solutions with external connection to Kestrel® Elite 5700

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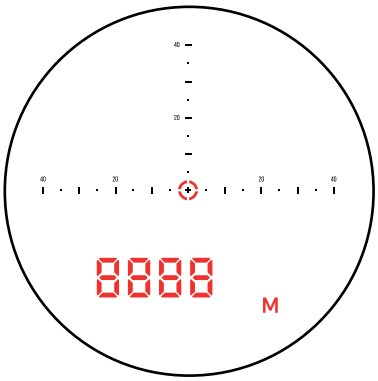
Display Data

Type	OLED w/ 5 levels brightness control
Featured Information	Horizontal Equivalent Distance, Vertical Equivalent Distance, Elevation, Azimuth, Ballistics Data
Glass Etched Reticle	Yes (mRad)



Communication Interface

Wireless (1)	Bluetooth® 4.1

Laser Rangefinder Data

Laser Wavelength	905 nm
Class	CLASS I (Eye Safe)
Range (2)	10 m - 2500 m
Scanning Mode	Yes
Measurement Accuracy	± 2 m (up to 1000 m), ± 3 m (up to 1000-2000 m), ± 5 m (>2000 m)
Beam Divergence (typical)	3 mRad
Repetition Rate	2 Hz
Time per Measurement	<0.25 sec.

Digital Magnetic Compass

Units	360°
Resolution	1°
Azimuth Accuracy	± 5°
Inclination Accuracy	± 1°

Electronical Data

Battery	1 x CR123 (3V)
Battery Life (3)	2500+ measurements

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (4)

■ Soft Carrying Bag	■ User and Operating Manual
■ 1 x CR123 [3V]	■ Neck Strap
■ Lanyard	■ Suede Pouch
■ Lens Cleaning Cloth	■ Lens Cleaning Brush
■ Lens Protection Cover	

Optional Accessories (4)

☐ Hard Case	☐ Tripod Connection Interface

(1) Bluetooth provides connection with Kestrel® 5700 Elite w/ Applied Ballistics® and AB SORD application for accurate firing solutions.
(2) Base performance is 2000 m based on the target: 2.3 m x 2.3 m, visibility: 30 km albedo: 0.6, detection probability > %90
(3) Battery life may vary depending on environmental and atmospheric conditions.
(4) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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MLRF-S

MONOCULAR LASER RANGEFINDER

MLRF-S is designed to improve your vision and provide the power of a monocular in a laser rangefinder.

It is a rugged and modern laser rangefinder monocular integrated with premium glass optics. It ranges up to 2500+ m on reflective targets with a CLASS I eye-safe laser and optimized beam divergence for maximum reliability on small targets.

It allows one-handed usage with its ergonomic design. Operating with one-button is easy to learn. Within milliseconds, distance will appear just by one push.

Reinforced and rubberized protection on its housing provides solid protection from harshest environmental conditions.

It is portable and ideal for the elite users to carry it out with its extremely compact and lightweight design.

MLRF-S can be used in the harshest conditions with zero concern.

Mechanical Data	
Housing Material	High Grade Polymer w/NBR+PVC Armour
Color	FDE
Weight	260 g (9.17 oz)
Dimensions (WxLxH)	105x128x50 mm (4.13x5.04x1.97 in)
Tripod Interface	1/4”

Optical Data	
Observation	Monocular
Optical Magnification	7x
Objective Diameter	25 mm
Eye Relief	16 mm
Exit Pupil	3.6 mm
Focus	Fixed
FoV @1000 m	6° (105 m)
Diopter	± 3 dpt

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **LIGHTWEIGHT AND COMPACT DESIGN**
  Lightweight and compact design for ease of use
- **ACCURATE AND RELIABLE**
  High precision laser technology for the most accurate and reliable results
- **EYE-SAFE OPERATION**
  Equipped with a CLASS I eye-safe laser per IEC 60825-1

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Display Data

Type	OLED
Featured Information	Horizontal Equivalent Distance, Vertical Equivalent Distance, Elevation, Azimuth

Laser Rangefinder Data

Laser Wavelength	905 nm
Class	CLASS I (Eye Safe)
Range (1)	10 m - 2500 m
Scan Mode	Yes
Measurement Accuracy	± 2 m (up to 1000 m), ± 3 m (up to 1000-2000 m), ± 5 m (>2000 m)
Beam Divergence (typical)	3 mRad
Repetition Rate	2 Hz
Time per Measurement	<0.25 sec

Digital Magnetic Compass

Units	360°
Resolution	1°
Azimuth Accuracy	± 5°
Inclination Accuracy	± 1°

Electronical Data

Battery	1 x CR123 (3V)
Battery Life (2)	2500+ measurements

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (3)

■ Soft Carrying Bag	■ User and Operating Manual
■ 1 x CR123 [3V]	■ Neck Strap
■ Lanyard	■ Suede Pouch
■ Lens Cleaning Cloth	■ Lens Cleaning Brush

Optional Accessories (3)

☐ Hard Case	☐ Lens Protection Cover
☐ Tripod Connection Interface	

(1) Base performance is 2000 m based on the target: 2.3 m x 2.3 m, visibility: 30 km albedo: 0.6, detection probability > %90
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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CE FC RoHS 2002/95/EC

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BLRF

BINOCULAR LASER RANGEFINDER

BLRF is designed to improve your vision and provide the power of a binocular in a laser rangefinder. It delivers bright and clear images at any distance with its high light transmittance across the entire spectral range.

BLRF is a rugged and modern laser rangefinder binocular integrated with premium glass optics and advanced bluetooth connectivity. It combines range finding phenomena with the in-built Applied Ballistics Ultralite® and externally connected Kestrel® that results in the most accurate ballistic calculations necessary for ultimate shooting experience in order for users to get the maximum benefit out of their device.

It ranges up to 3000+ m on reflective targets with a CLASS I eye-safe laser and optimized beam divergence for maximum reliability on small targets.

Reinforced and rubberized protection on its housing provides solid protection from harshest environmental conditions.

It is portable and ideal for the elite users to carry it out with its compact and modern design.

Mechanical Data	
Housing Material	Aluminium w/NBR+PVC Armour
Color	FDE
Weight	1085 g (38.27 oz)
Dimensions (WxLxH)	137x170x68 mm (5.39x6.69x2.68 in)

Optical Data	
Observation	Binocular
Optical Magnification	10X
Objective Diameter	50 mm
Eye Relief	17 mm
Exit Pupil	4.8 mm
Focus	Adjustable
FoV @1000 m	6.2° (108 m)
Diopter	± 3 dpt

Kestrel® APPLIED BALLISTICS THE SCIENCE OF ACCURACY®

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **ACCURATE AND RELIABLE**
  High precision laser technology for the most accurate and reliable results
- **EYE-SAFE OPERATION**
  Equipped with a CLASS I eye-safe laser per IEC 60825-1
- **ONBOARD APPLIED BALLISTICS ULTRALITE®**
  Onboard Applied Ballistics Ultralite® for ballistics solutions
- **CONNECTABILITY TO KESTREL® ELITE 5700**
  Ballistic solutions with external connection to Kestrel® Elite 5700

DS50007-EN | Rev:B | 06.22

Display Data

Type	OLED w/ 5 levels brightness control
Featured Information	Horizontal Equivalent Distance, Vertical Equivalent Distance, Elevation, Azimuth, Ballistics Data

Communication Interface

Wireless(1)	Bluetooth® 4.1

Laser Rangefinder Data

Laser Wavelength	905 nm
Class	CLASS I (Eye Safe)
Range (2)	10 m - 3000 m
Scanning Mode	Yes
Measurement Accuracy	± 2 m (up to 1000 m), ± 3 m (up to 1000-2000 m), ± 5 m (>2000 m)
Beam Divergence (typical)	1.5 mRad
Repetition Rate	2 Hz
Time per Measurement	<0.25 sec

Electronical Data

Battery	1 x CR2 (3V)
Battery Life (3)	2500+ measurements

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (4)

■ Soft Carrying Bag	■ User and Operating Manual
■ 1 x CR2 [3V]	■ Neck Strap
■ Lens Cleaning Cloth	■ Lens Cleaning Brush
■ Eyecups (x2)	■ Objective Protection Covers (x2)

Optional Accessories (4)

☐ Hard Case	☐ Tripod Connection Interface

(1) Bluetooth provides connection with Kestrel® 5700 Elite w/ Applied Ballistics® and AB SORD application for accurate firing solutions.
(2) Base performance is 2000 m based on the target: 2.3 m x 2.3 m, visibility: 30 km albedo: 0.6, detection probability > %90
(3) Battery life may vary depending on environmental and atmospheric conditions.
(4) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

Classified according to
IEC 60825-1:2014

CE FC RoHS 2002/95/EC

DS50007-EN | Rev:B | 06.22

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AVCI 1x-4x

COMBAT OPTICAL SIGHT

The AVCI 1x-4x integrates a dual-purpose optical design, enabling a swift and effortless transition between different magnification levels. This feature allows the user to proficiently handle both Close Quarters Battle and longer-range situations, balancing speed and precision.

The AVCI 1x-4x's wide field of view in 1x mode delivers clear imaging for urban combat, while the 4x mode ensures superior accuracy in mid-to-long range shooting. An ultra-bright illuminated reticle augments hit precision, even in dim environments. It is engineered with reticle variations, meticulously designed to be compatible with both 5.56mm and 7.62mm calibers.

Featuring a lockable elevation dial, the AVCI 1x-4x embodies reliability at its finest. The incorporated interface further broadens its versatility, enabling integration of a reflex sight if so desired. Alternatively, you may utilize the picatinny interface, thereby enhancing the adaptability to accommodate a wide array of applications.

Crafted with high-strength aluminum, the AVCI 1x-4x is both lightweight and robust. It offers consistent performance in harsh conditions, making it a reliable choice across varied combat scenarios.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	650 g (22.93 oz)
Dimensions (WxLxH)	67x140x77 mm (2.64x5.51x3.03 in)
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Objective Diameter	32 mm
Magnification	1X-4X
Field of View (@1X-@4X)	24° - 6°
Exit Pupil	8 mm
Eye Relief	72 mm
Focal Plane	Second Focal Plane (SFP)
Parallax	Fixed

KEY FEATURES

- **DUAL ROLE OPTICAL SIGHT**
  Two unique sighting experiences in one body by its dual-role optics
- **BDR RETICLE DESIGN**
  Glass-etched BDR reticle for an optimal shooting experience
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40020-EN | Rev:D | 02.24

Windage / Elevation Turret

Adjustment Click Value	1 cm @100 m
Adjustment Range	400+ clicks
Elevation Lock	Yes

Electronical Data

Reticle Illumination	Yes
Illumination Level	Yes - 10 levels
Battery	1 x CR2032 (3V)
Battery Life	500+ hours (1) (2)
Auto Illumination Shutdown	After 3 hours

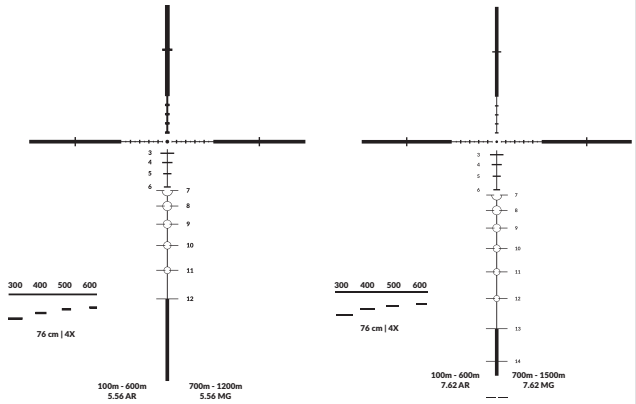
Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Available Reticles

☐ DS4-MCR5 Variations ☐ DS4-MCR7 Variations



■ *DS4-MCR5* ■ *DS4-MCR7*

The above DS4-MCR5 and DS4-MCR7 variants have been used for reference purposes.
Please contact us for different available variants.

Standard Accessories (3)

■ User and Operating Manual	■ Lens Cleaning Cloth
■ Allen Key	

Optional Accessories (3)

☐ Hard Case	☐ Honeycomb
☐ Picatinny Rail Kit	☐ Mini Reflex Sight Kit
☐ Protection Cover	

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) 5th level of illumination is taken as a reference.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

* AVCI M1X is offered as an optional feature.

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AVCI 1.5x-6x

COMBAT OPTICAL SIGHT

The AVCI 1.5x-6x integrates a dual-purpose optical design, enabling a swift and effortless transition between different magnification levels. This feature allows the user to proficiently handle both Close Quarters Battle and longer-range situations, balancing speed and precision.

The AVCI 1.5x-6x's wide field of view in 1.5x mode delivers clear imaging for urban combat, while the 4x mode ensures superior accuracy in mid-to-long range shooting. An ultra-bright illuminated reticle augments hit precision, even in dim environments. It is engineered with reticle variations, meticulously designed to be compatible with both 5.56mm and 7.62mm calibers.

Featuring a lockable elevation dial, the AVCI 1.5x-6x embodies reliability at its finest. The incorporated interface further broadens its versatility, enabling integration of a reflex sight if so desired. Alternatively, you may utilize the picatinny interface, thereby enhancing the adaptability to accommodate a wide array of applications.

Crafted with high-strength aluminum, the AVCI 1.5x-6x is both lightweight and robust. It offers consistent performance in harsh conditions, making it a reliable choice across varied combat scenarios.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	725 g (25.57 oz)
Dimensions (WxLxH)	67x170x79 mm (2.64x6.69x3.11 in)
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Objective Diameter	46 mm
Magnification	1.5X-6X
Field of View (@1.5X-@6X)	16° - 4°
Exit Pupil	7.6 mm
Eye Relief	72 mm
Focal Plane	Second Focal Plane (SFP)
Parallax	Fixed

KEY FEATURES

- **DUAL ROLE OPTICAL SIGHT**
  Two unique sighting experiences in one body by its dual-role optics
- **BDR RETICLE DESIGN**
  Glass-etched BDR reticle for an optimal shooting experience
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40021-EN | Rev:D | 02.24

Windage / Elevation Turret

Adjustment Click Value	1 cm @100 m
Adjustment Range	400+ clicks
Elevation Lock	Yes

Electronical Data

Reticle Illumination	Yes
Illumination Level	Yes - 10 levels
Battery	1 x CR2032 (3V)
Battery Life	500+ hours (1) (2)
Auto Illumination Shutdown	After 3 hours

Environmental Data

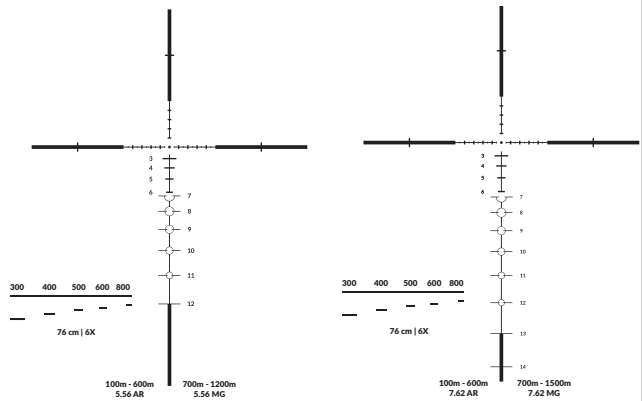
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Available Reticles

☐ DS6-MCR5 Variations

☐ DS6-MCR7 Variations



■ *DS6-MCR5* ■ *DS6-MCR7*

The above DS4-MCR5 and DS4-MCR7 variants have been used for reference purposes. Please contact us for different available variants.

Standard Accessories (3)

■ User and Operating Manual	■ Lens Cleaning Cloth
■ Allen Key	

Optional Accessories (3)

☐ Hard Case	☐ Honeycomb
☐ Picatinny Rail Kit	☐ Mini Reflex Sight Kit
☐ Protection Cover	

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) 5th level of illumination is taken as a reference.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

* AVCI M1X is offered as an optional feature.

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KESKIN 1-8x30

Low Powered Variable Optic [LVPO]

The KESKIN 1-8x30 represents a versatile riflescope that excels in competitive, tactical, and sporting applications. Offering a true 1x magnification with an impressive 8x optical zoom and a first focal plane reticle, this scope ensures swift target acquisition and precise long-range shots. Boasting a seamless transition between a 1x reflex sight reticle and an 8x sniper reticle, this exceptional optic confers unmatched versatility and operational advantages to the discerning user.

The scope is powered by a single CR2032 lithium battery and features an easy-to-operate brightness adjustment dial with eleven settings.

Employing fully multi-coated broadband anti-reflective glass, the 34 mm tube and 30 mm objective lens combination deliver exceptional optical clarity and brightness, ensuring a clear and crisp view in various lighting conditions.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Body Tube Diameter	34 mm (1.33 in)

Optical Data	
Magnification	1-8x
Objective Diameter	30 mm
FoV @100m	39.6 m - 5.1 m
Exit Pupil	10.3 mm - 3.8 mm
Eye Relief	90 mm (3.5 in)
Diopter Adjustment Range	-2 to +2 dpt
Focal Plane	First Focal Plane (FFP)

Elevation Turret	
Elevation Click Value	1 click 1 cm @100m / 0.1 mil

Windage Turret	
Windage Click Value	1 click 1 cm @100m / 0.1 mil

Reticle Details	
Measuring System	MIL
Focal Plane	First Focal Plane (FFP)

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	7.62 mm NATO (.308) 8.59 mm (.338) 12.7 mm NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **PRECIESE AIMING AT LONGER DISTANCE**
  High shooting accuracy with sensitive adjustment mechanisms
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGNN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

Electronical Data	
Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	1-11 Level Brightness Adjustment
Battery [1]	1 x CR2032 (3V)
Battery Life [2]	1000+ hours
Auto Illumination Shutdown	After 5 hours

Standard Accessories [3]	
■ User and Operating Manual	■ CR2032
■ Eyepiece Protection Cover	■ Lens Cleaning Cloth
■ Objective Protection Cover	

Optional Accessories [3]	
☐ Hard Case	☐ Honeycomb
☐ Soft Carrying Bag	☐ Protection Cover
☐ Fine Adjustment Grip	☐ Mount Adapter

(1) Optionally, BR2032 can be used.
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

DS40003-EN | Rev:+ | 09.23

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KESKIN 3-12x50

SNIPER RIFLE SCOPE

KESKIN 3-12x50 provides unmatched edge-to-edge clarity and precise shooting experience that extends your range beyond 1000+ m.

The 50 mm lens and low dispersion glass with anti reflective coated lenses provides efficient light transmission and color accuracy. It is built with aircraft-grade aluminium and single-piece construction with anodized finish for extreme durability so the elite users can count on it. Its ruggedized design prevents damage from heavy recoil and rough handling.

It is equipped with all the features required for precise long-range shooting. The precision-machined turrets with zero stop feature provide users with precise and accurate control to make the necessary adjustments.

Side-mounted parallax adjustment allows users to control the reticle in focus and creates the most accurate shooting environment.

With its 11-level reticle illumination, it can be used easily even in low-light conditions. The reticle patterns are designed with the feedback of the most elite operational units.

Tested for MIL-STD-810, and with waterproof design, the KESKIN 3-12x50 is durable and reliable under harsh environmental conditions with its all aluminium construction for maximum structural rigidity.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	890 g (32 oz)
Length	335 mm (13.2 in)
Body Tube Diameter	34 mm (1.33 in)

Optical Data	
Magnification	3-12x
Objective Diameter	50 mm
FoV @100m	11 m - 3.5 m
Exit Pupil	14 mm - 4 mm
Eye Relief	85 mm (3.35 in)
Light Transmission	Min. 90%
Diopter Adjustment Range	-3 to +2 dpt
Parallax Setting	50 m - ∞
Focal Plane	First Focal Plane (FFP)

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **HIGH MAGNIFICATION CAPACITY**
  Allows precise aiming at a longer distance
- **PRECIESE AIMING AT LONGER DISTANCE**
  High shooting accuracy with sensitive adjustment mechanisms
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40001-EN | Rev.c | 07.23

Elevation Turret

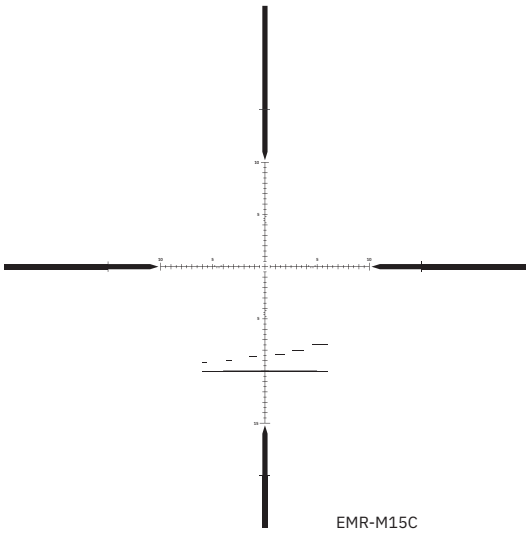
Elevation Click Value	1 click 1 cm @100m / 0.1 mil
Elevation Range	250+ clicks (25+ MIL)
Zero-Stop	Yes
Double Turn Pin	Yes

Windage Turret

Windage Click Value	1 click 1 cm @100m / 0.1 mil
Windage Range	± 60 clicks (± 6 MIL)

Reticle Details

Measuring System	MIL
Focal Plane	First Focal Plane (FFP)



EMR-M15C

Electronical Data

Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	1-11 Level Brightness Adjustment
Battery [1]	CR2032 (3V)
Battery Life [2]	1000+ hours
Auto Illumination Shutdown	After 5 hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	7.62 mm NATO (.308) 8.59 mm (.338) 12.7 mm NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [3]

■ User and Operating Manual	■ Objective Protection Cover
■ Lens Cleaning Cloth	■ Eyepiece Protection Cover
■ CR2032	

Optional Accessories [3]

☐ Hard Case	☐ Honeycomb
☐ Soft Carrying Bag	☐ Protection Cover
☐ Fine Adjustment Grip	

☐ Mount Adapter 5 MOA	☐ Mount Adapter 15 MOA
☐ Mount Adapter 25 MOA	☐ Mount Adapter 35 MOA
☐ Mount Adapter 45 MOA	☐ External Water Level

(1) Optionally, BR2032 can be used.
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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KESKIN 5-25x56

SNIPER RIFLE SCOPE

KESKIN 5-25x56 provides unmatched edge-to-edge clarity and precise shooting experience that extends your range beyond 1500+ m.

The 56 mm lens and low dispersion glass with anti reflective coated lenses provides efficient light transmission and color accuracy. It is built with aircraft-grade aluminium and single-piece construction with anodized finish for extreme durability so the elite users can count on it. Its ruggedized design prevents damage from heavy recoil and rough handling.

It is equipped with all the features required for precise long-range shooting. The precision-machined turrets with zero stop feature provide users with precise and accurate control to make the necessary adjustments.

Side-mounted parallax adjustment allows users to control the reticle in focus and creates the most accurate shooting environment.

With its 11-level reticle illumination, it can be used easily even in low-light conditions. The reticle patterns are designed with the feedback of the most elite operational units.

Tested for MIL-STD-810, and with waterproof design, the KESKIN 5-25x56 is durable and reliable under harsh environmental conditions with its all aluminium construction for maximum structural rigidity.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	1080 g (38.09 oz)
Overall Length	395 mm (15.6 in)
Body Tube Diameter	34 mm (1.33 in)

Optical Data	
Magnification	5-25x
Objective Diameter	56 mm
FoV @100m	7.37 m - 1.5 m
Exit Pupil	9 mm - 2.2 mm
Eye Relief	95 mm (3.7 in)
Light Transmission	Min. %92
Diopter Adjustment Range	-3 to +2 dpt
Parallax Setting	50 m - ∞
Focal Plane	First Focal Plane (FFP)

KEY FEATURES

- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **HIGH MAGNIFICATION CAPACITY**
  Allows precise aiming at a longer distance
- **PRECIESE AIMING AT LONGER DISTANCE**
  High shooting accuracy with sensitive adjustment mechanisms
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40000-EN | Rev.C | 07.23

Elevation Turret

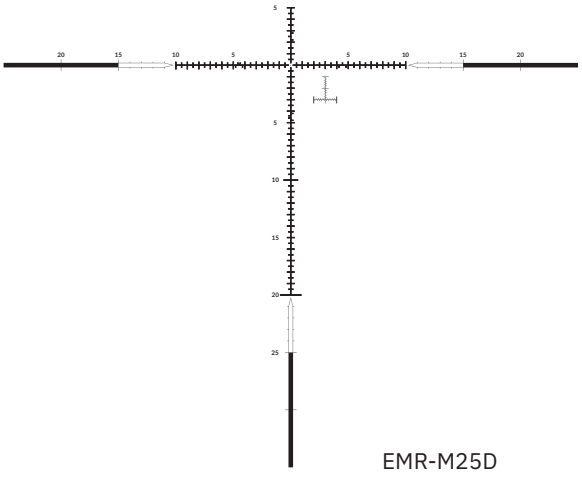
Elevation Click Value	1 click 1 cm @100m / 0.1 mil
Elevation Range	320+ clicks (32+ MIL)
Zero-Stop	Yes
Double Turn Pin	Yes

Windage Turret

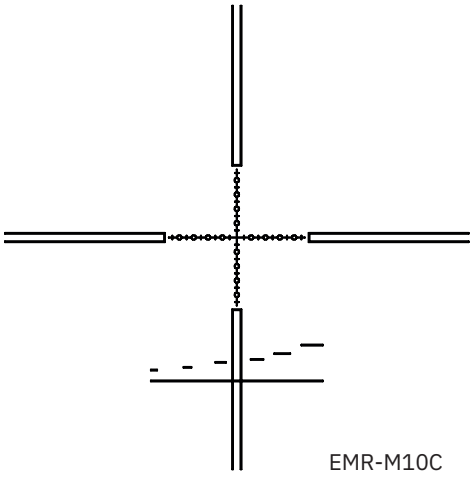
Windage Click Value	1 click 1 cm @100m / 0.1 mil
Windage Range	± 60 clicks (± 6 MIL)

Reticle Details

Measuring System	MIL
Focal Plane	First Focal Plane (FFP)



EMR-M25D



EMR-M10C

Electronical Data

Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	1-11 Level Brightness Adjustment
Battery (1)	1 x CR2032 (3V)
Battery Life (2)	1000+ hours
Auto Illumination Shutdown	After 5 hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	7.62 mm NATO (.308) 8.59 mm (.338) 12.7 mm NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (3)

■ User and Operating Manual	■ CR2032
■ Eyepiece Protection Cover	■ Lens Cleaning Cloth
■ Objective Protection Cover	

Optional Accessories (3)

☐ Hard Case	☐ Honeycomb
☐ Soft Carrying Bag	☐ Protection Cover
☐ Fine Adjustment Grip	

☐ Mount Adapter 5 MOA	☐ Mount Adapter 15 MOA
☐ Mount Adapter 25 MOA	☐ Mount Adapter 35 MOA
☐ Mount Adapter 45 MOA	☐ External Water Level

(1) Optionally, BR2032 can be used.
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

DS40000-EN | Rev:C | 07.23

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KESKIN 5-25x56 ULTRA SHORT

SNIPER RIFLE SCOPE

KESKIN 5-25x56 ULTRA SHORT provides unmatched edge-to-edge clarity and precise shooting experience that extends your range beyond 1500+ m. Benefiting from an optimized optical design, the KESKIN 5-25x56 ULTRA SHORT has been ingeniously reengineered and its length reduced. This sleeker form factor provides additional space on the picatinny rail, thereby facilitating enhanced adaptability to cater to a broader range of user needs.

The 56 mm lens and low dispersion glass with anti reflective coated lenses provides efficient light transmission and color accuracy. It is built with aircraft grade aluminium and single-piece construction with anodized finish for extreme durability so the elite users can count on it. Its ruggedized design prevents damage from heavy recoil and rough handling.

It is equipped with all the features required for precise long-range shooting. The precision-machined turrets with zero stop feature provide users with precise and accurate control to make the necessary adjustments.

Side-mounted parallax adjustment allows users to control the reticle in focus and creates the most accurate shooting environment.

With its 11-level reticle illumination, it can be used easily even in low-light conditions. The reticle patterns are designed with the feedback of the most elite operational units.

Tested for MIL-STD-810, and with waterproof design, the KESKIN 5-25x56 ULTRA SHORT is durable and reliable under harsh environmental conditions with its all aluminium construction for maximum structural rigidity.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Body Tube Diameter	34 mm (1.33 in)

Optical Data	
Magnification	5-25x
Objective Diameter	56 mm
Eye Relief	95 mm (3.7 in)
Light Transmission	Min. %92
Diopter Adjustment Range	-3 to +2 dpt
Parallax Setting	50 m - ∞
Focal Plane	First Focal Plane (FFP)

Elevation Turret	
Elevation Click Value	1 click 1 cm @100m / 0.1 mil
Elevation Range	320+ clicks (32+ MIL)
Zero-Stop	Yes
Double Turn Pin	Yes

Windage Turret	
Windage Click Value	1 click 1 cm @100m / 0.1 mil
Windage Range	± 60 clicks (± 6 MIL)

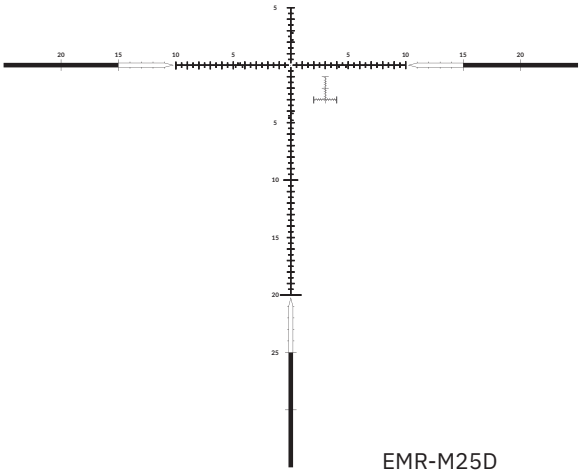
KEY FEATURES

- **REDESIGNED FOR COMPACTNESS**
  Achieving enhanced adaptability through length reduction
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **HIGH MAGNIFICATION CAPACITY**
  Allows precise aiming at a longer distance
- **PRECIESE AIMING AT LONGER DISTANCE**
  High shooting accuracy with sensitive adjustment mechanisms
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGNN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

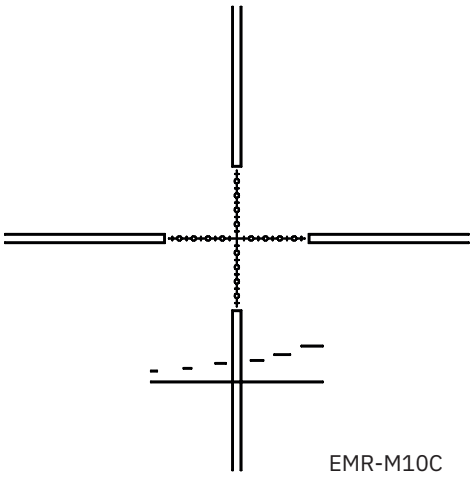
Electronical Data	
Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	1-11 Level Brightness Adjustment
Battery [1]	1 x CR2032 (3V)
Battery Life [2]	1000+ hours
Auto Illumination Shutdown	After 5 hours

Reticle Details

Measuring System	MIL
Focal Plane	First Focal Plane (FFP)



EMR-M25D



EMR-M10C

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	7.62 mm NATO (.308) 8.59 mm (.338) 12.7 mm NATO (.50)

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (3)

■ User and Operating Manual	■ CR2032
■ Eyepiece Protection Cover	■ Lens Cleaning Cloth
■ Objective Protection Cover	

Optional Accessories (3)

☐ Hard Case	☐ Honeycomb
☐ Soft Carrying Bag	☐ Protection Cover
☐ Fine Adjustment Grip	

☐ Mount Adapter 5 MOA	☐ Mount Adapter 15 MOA
☐ Mount Adapter 25 MOA	☐ Mount Adapter 35 MOA
☐ Mount Adapter 45 MOA	☐ External Water Level

(1) Optionally, BR2032 can be used.
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.

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CRS GEN I

CLOSED REFLEX SIGHT

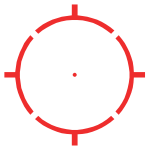
The CRS Gen I offers a wide field of view and reliable accuracy to conquer every CQB situation. It allows fast target engagement under harsh environmental conditions. The wide glass both provides fast aiming with a wider vision and gives faster maneuverability.

The CRS Gen I is also compatible with night vision systems with dedicated night vision compatible brightness settings.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the CRS Gen I is durable and reliable with its all-aluminium construction for maximum structural rigidity.

Increase your accuracy and speed while engaging with the targets.
[Compatible with M3X and M5X magnifiers]

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	280 g (9.87 oz)
Dimensions (WxLxH)	52x95x60 mm (2.04x3.74x2.36 in)
Center Height	36 mm
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Magnification	1X
Objective Lens Diameter	28x36 mm
Dot/Circle	Bright Red
Dot Size	3 MOA
Circle Size	65 MOA
	
Eye Relief	Unlimited
Parallax	No (Parallax Free)

Windage / Elevation Turret	
Adjustment Type	MOA
Adjustment Click Value	0.5 MOA
Adjustment Range	100 MOA

Electronical Data	
Illumination	2 NV / 10 Day Settings
Battery	1 x CR2 (3V)
Battery Life [1]	8000+ hours
Auto Shutoff	After 3 hours

KEY FEATURES

- **UNLIMITED EYE RELIEF**
  Non-critical eye relief for rapid target acquisition
- **NIGHT VISION COMPATIBILITY**
  Dedicated night vision compatible brightness settings
- **FAST ACQUISITION TO THE TARGETS**
  Increase your accuracy and speed while engaging with the targets
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [2]	
■ User and Operating Manual	■ Lens Cleaning Cloth
■ Click Wrench	■ 1 x CR2 (3V)

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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CRS GEN II

CLOSED REFLEX SIGHT

Designed to facilitate rapid target acquisition, the CRS Gen II allows for quick target engagement from non-standard shooting positions, significantly enhancing situational awareness. Born from the sophisticated enhancements made on the CRS Gen I, the CRS Gen II stands poised to become an indispensable optical choice even for the most discerning elite users.

To provide flexibility for a broad range of operational requirements covering both close and far distances, the CRS Gen II is equipped with six different, interchangeable reticles. The separately positioned Night Vision button enhances the functionality with night vision devices, thereby reinforcing the safety and efficacy of night operations.

Its design presents a careful balance between durability and minimalism, offering impressively lightweight and compact form without compromising its ruggedness. It is designed to withstand the most brutal physical impacts and cater to the demands of end-users. The optical clarity it offers is unmatched, contributing to the device's effective functionality.

Taking advantage of an energy-efficient LED design, the CRS Gen II is built for longevity and can withstand up to an impressive operation time of 50.000 hours.

This synthesis of durability, performance, and longevity emphasizes the status of the CRS Gen II as a superior choice in its category.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	315 g (11.11 oz)
Dimensions (WxLxH)	53x105x67 mm (2.08x4.13x2.63 in)
Axis Height	36 mm
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Electronical Data	
Illumination	3 NV / 10 Day Settings
Dedicated NV Activation Button	Yes
Battery	1 x CR123A (3V)
Battery Life [(1)]	50000+ hours
Sleep Mode	Yes
Motion Awake Sensor	Yes

KEY FEATURES

- **INTERCHANGEABLE RETICLE PATTERN**
  6 different reticle patterns can be changed according to the mission requirements and provide the opportunity to use the most suitable one
- **DEDICATED NV ACTIVATION BUTTON**
  Dedicated button for NV compatible illumination for minimal risk
- **UNLIMITED EYE RELIEF**
  Non-critical eye relief for rapid target acquisition
- **FAST ACQUISITION TO THE TARGETS**
  Increase your accuracy and speed while engaging with the targets
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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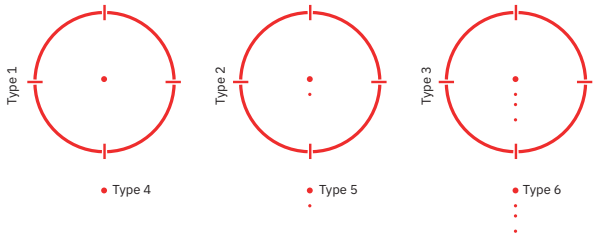
Optical Data

Magnification	1X
Objective Lens Diameter	28x36 mm
Dot/Circle	Bright Red
Dot Size	2 MOA
Circle Size	65 MOA
Additional Distance Dots	Yes (300m, 400m, 500m)
Interchangeable Reticle Pattern	Yes (6 type)
	
Eye Relief	Unlimited
Parallax	No (Parallax Free)

Windage / Elevation Turret

Adjustment Type	MOA
Adjustment Click Value	0.5 MOA
Adjustment Range	100 MOA

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP68
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories (2)

■ User and Operating Manual	■ Lens Cleaning Cloth
■ Click Wrench	■ Front Lens Protection Cover
■ Rear Lens Protection Cover	■ 1 x CR123A (3V)

Optional Accessories (2)

☐ Honeycomb	☐ CRS Click Wrench

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

DS40037-EN | Rev:E | 02.24

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ARS GEN I

REFLEX SIGHT

The ARS Gen I is engineered with a meticulous focus on facilitating rapid target acquisition, a key feature that significantly enhances situational awareness and enables swift target engagement, particularly from non-standard shooting positions.

Its design is a careful balance of ruggedness and minimalism, offering an impressively lightweight and compact form without compromising its robustness. It has been designed to withstand the toughest physical impacts and considering the requirements demanded by the end-users. The optical clarity it provides is unparalleled, contributing to the effective functionality of the device.

Benefitting from a power-efficient LED design, the ARS Gen I is built for longevity, boasting an impressive operational time of 50,000 hours.

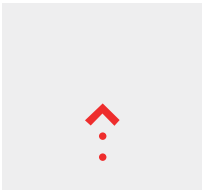
This synthesis of durability, performance, and longevity underscores the ARS Gen I's status as a superior choice in its category.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	195 g (6.87 oz)
Dimensions (WxLxH)	42x75x65 mm (1.65x2.95x2.55 in)
Axis Height	36 mm
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Magnification	1X
Objective Lens Diameter	22 mm
Dot/Circle	Bright Red
Dot Size	2 MOA
Circle Size	65 MOA
Additional Distance Dots	Yes (300m, 400m, 500m)
Interchangeable Reticle Pattern	Yes (3 type)

Type 1
(Dot)

Type 2
(Dot + Circle)



Type 3
(Long Range)

Eye Relief	Unlimited
Parallax	No (Parallax Free)

Windage / Elevation Turret	
Adjustment Type	MOA
Adjustment Click Value	0.5 MOA
Adjustment Range	100 MOA

DS40038-EN | Rev: A | 07.23

Electronical Data	
Illumination	3 NV / 10 Day Settings
Battery	1 x CR2032 (3V)
Battery Life [1]	50000+ hours
Sleep Mode	Yes
Motion Awake Sensor	Yes

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP68
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [2]	
■ User and Operating Manual	■ 1 x CR2032(3V)
■ ARS Click Wrench	■ Honeycomb
■ Rear Lens Protection Cover	■ Front Lens Protection Cover
■ 3 mm Axis Bracket	■ Protection Cover
■ 6 mm Axis Bracket	

Optional Accessories [2]	
☐ Hard Case	

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) Accessories may vary. Please contact us for detailed information.

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AVCI M1X

MINI REFLEX SIGHT

Mechanical Data	
Housing Material	Aluminium
Color	Matte Black
Weight	36.2 g (1.27 oz)
Dimensions (WxLxH)	30.5x17x25 mm (1.20x0.66x0.98 in)
Center Height	15 mm (0.98 in)

Optical Data	
Magnification	1X Reflex (No Magnification)
Lens Coating	Anti-reflection (AR)
Dot Color	Bright Red
Dot Size Options	2 MOA or 3 MOA
Eye Relief	Unlimited
Parallax	No (Parallax Free)

Windage / Elevation Turret	
Adjustment Type	MOA
Adjustment Click Value	1 MOA
Adjustment Range	100 MOA

Electronical Data	
Illumination Range	1-10 Level Brightness Adjustment
Battery	CR1632 (3V)
Battery Life (1) (2)	10000+ hours
Auto Illumination Shutdown	After 3 hours

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) 5th level of illumination is taken as a reference.

Contact 3E for product codes and SKUs.

KEY FEATURES

- **UNLIMITED EYE RELIEF**
  Non-critical eye relief for rapid target acquisition
- **FAST ACQUISITION TO THE TARGETS**
  Increase your accuracy and speed while engaging with the targets
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ULTRA-BRIGHT RETICLE ILLUMINATION**
  Comfortable and precise focusing with ultra-bright reticle illumination
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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M3X

MAGNIFIER 3X

Everything can change in an instant and it may be necessary to quickly switch from CQB to mid-range when situations change. In these situations, the M3X allows you to quickly switch between two distances without compromising the accuracy.

The M3X is compact and lightweight. The flip-up mount provides fast transitioning from 1X to 3X. The M3X offers a larger field-of-view and an adjustable diopter for improved and precise focusing.

The M3X is compatible to use together with the CRS.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the M3X is durable and reliable with its all-aluminium construction for maximum structural rigidity.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	295 g (10.40 oz)
Dimensions (WxLxH)	42x76x44 mm (1.65x2.99x1.73 in)
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Magnification	3X
Objective Lens Diameter	20 mm
FoV	7.3°
Exit Pupil	5.5 mm
Eye Relief	66.5 mm (2.6 in)
Diopter	± 2 dpt

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

KEY FEATURES

- **1X to 3X MAGNIFICATION**
  The flip-up mount provides instant transition from 1X to 3X with compromising the accuracy
- **FLIP-UP MOUNT**
  Quick flip up/down mount for switching from CQB to mid-range
- **EXTREMELY CLEAR AND WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

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M5X

MAGNIFIER 5X

Everything can change in an instant and it may be necessary to quickly switch from CQB to mid-range/long-range when situations change. In these situations, the M5X allows you to quickly switch between two distances without compromising the accuracy.

The M5X is compact and lightweight. The flip-up mount provides fast transitioning from 1X to 5X. The M5X offers a larger field-of-view and an adjustable diopter for improved and precise focusing.

The M5X is compatible to use together with the CRS.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, the M5X is durable and reliable with its all-aluminium construction for maximum structural rigidity.

Mechanical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	335 g (11.81 oz)
Dimensions (WxLxH)	42x95x44 mm (1.65x3.74x1.73 in)
Weapon Mount Compatibility	MIL-STD 1913; STANAG 4694

Optical Data	
Magnification	5X
Objective Lens Diameter	25 mm
FoV	4.4°
Exit Pupil	4.3 mm
Eye Relief	67 mm (2.6 in)
Diopter	± 2 dpt

Windage / Elevation Turret	
Adjustment Type	MOA
Adjustment Range	100+ clicks

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

KEY FEATURES

- **1X to 5X MAGNIFICATION**
  The flip-up mount provides instant transition from 1X to 5X with compromising the accuracy
- **FLIP-UP MOUNT**
  Quick flip up/down mount for switching from CQB to mid-range
- **EXTREMELY CLEAR AND WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40031-EN | Rev:B | 06.22

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IZCI 15-45 X 60

TACTICAL SPOTTING SCOPE

IZCI 15-45 X 60 tactical spotting scope with the MIL reticle provides an effective magnification range in a compact and rugged enclosure. It is designed for detailed target identification in any conditions with high resolution premium lenses.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, IZCI 15-45 X 60 is durable and reliable with its all-metal construction for maximum structural rigidity. Reinforced and rubberized protection on its housing provides solid protection from harshest environmental conditions.

It offers unrivalled light transmission to operate even in the most challenging lighting conditions not to let the user down.

With its large field of view and fine focus adjustments, IZCI 15-45 X 60 is the ideal choice for observing long distances with exceptional visual quality.

Elite operators are already counting on it, join them.

Mechanical Data	
Housing Material	Aluminium Body w/ Rubber Armour
Color	FDE
Weight	1180 g (41.6 oz)
Dimensions (WxLxH)	85x290x140 mm (3.35x11.42x5.51 in)
Tripod Interface	1/4”
Filter Interface	M60x0.75

Optical Data	
Magnification	15-45X
Objective Diameter	60 mm
Diopter	+2 to -3
FoV (m/1000m)	59 - 20 m
Exit Pupil	4.2 - 1.3 mm
Eye Relief	27 mm
Min. Focus Distance	12 m - ∞

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  Bright and high contrast image at all magnification levels
- **COMPACT DESIGN**
  Compact design for concealed observation
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast identification of targets with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40016-EN | Rev:B | 06.22

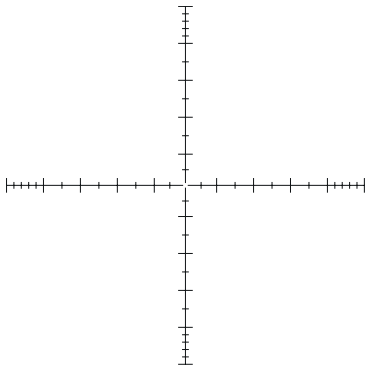
Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Reticle Details

Measurement System	MIL
Focal Plane	First Focal Plane (FFP)



Standard Accessories (1)

■ User and Operating Manual	■ Protection Cover
■ Lens Cleaning Cloth	■ Objective Protection Cover
■ Eyepiece Protection Cover	■ Top Picatinny Rail
■ Side Picatinny Rail x 2	

Optional Accessories (1)

☐ Hard Case	☐ Tactical Tripod TPOD T1
☐ Night Vision Mount Adapter	☐ Tactical Tripod TPOD T3
☐ Honeycomb	

(1) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

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IZCI 20-60 X 80

TACTICAL SPOTTING SCOPE

IZCI 20-60 X 80 tactical spotting scope with the MIL reticle provides an effective magnification range in a compact and rugged enclosure. It is designed for detailed target identification in any conditions with high resolution premium lenses.

It has a rugged and lightweight construction to survive extreme conditions with peak performance. Tested for MIL-STD-810 and with a waterproof design, IZCI 20-60 X 80 is durable and reliable with its all-metal construction for maximum structural rigidity. Reinforced and rubberized protection on its housing provides solid protection from harshest environmental conditions.

It offers unrivalled light transmission to operate even in the most challenging lighting conditions not to let the user down.

With its large field of view and fine focus adjustments, IZCI 20-60 X 80 is the ideal choice for observing long distances with exceptional visual quality.

Elite operators are already counting on it, join them.

Mechanical Data	
Housing Material	Aluminium Body / Rubber Armour
Color	FDE
Weight	1720 g (60.7 oz)
Dimensions (WxLxH)	100x405x140 mm (3.94x15.94x5.51 in)
Tripod Interface	1/4”
Filter Interface	M83x0.75

Optical Data	
Magnification	20-60X
Objective Diameter	80 mm
Diopter	+2 to -3
FoV (m/1000m)	44 - 15 m
Exit Pupil	4.1 - 1.3 mm
Eye Relief	27 mm
Min. Focus Distance	12 m - ∞

KEY FEATURES

- **OUTSTANDING IMAGE CLARITY**
  Bright and high contrast image at all magnification levels
- **COMPACT DESIGN**
  Compact design for concealed observation
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast identification of targets with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40017-EN | Rev:B | 06.22

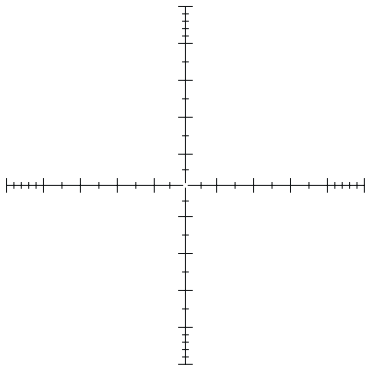
Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

■ Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Reticle Details

Measurement System	MIL
Focal Plane	First Focal Plane (FFP)



Standard Accessories (1)

■ User and Operating Manual	■ Protection Cover
■ Lens Cleaning Cloth	■ Objective Protection Cover
■ Eyepiece Protection Cover	■ Top Picatinny Rail
■ Side Picatinny Rail x 2	

Optional Accessories (1)

☐ Hard Case	☐ Tactical Tripod TPOD T1
☐ Night Vision Mount Adapter	☐ Tactical Tripod TPOD T3
☐ Honeycomb	

(1) Accessories may vary. Please contact us for detailed information.

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MTN 90

MACHINE GUN REFLEX SIGHT

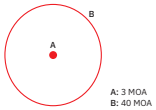
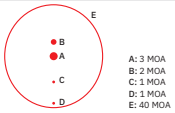
The MTN 90 significantly enhances machine gun users' target detection, engagement, and accuracy through a wide field of view and uncompromising precision. Its design allows for greater flexibility in operation, with the ability to keep both eyes open for optimal situational awareness.

Engineered with a durability-centric approach, the MTN 90 can withstand the harshest conditions without sacrificing performance. With tests meeting MIL-STD-810 standards and a fully aluminum construction for maximum structural integrity, the MTN 90 represents the pinnacle of durability and reliability.

The MTN 90 offers the capability to integrate a 3X or 5X magnifier. This feature enhances versatility necessary for diverse operational demands. Users can significantly enhance their tactical efficiency, resulting in a more effective and adaptable engagement strategy. This additional magnification enriches the user experience, providing unparalleled precision at varying distances.

Elevate your speed and accuracy while engaging with targets.

Physical Data	
Housing Material	Aluminium
Color	Black
Weight	2380 g (83.9 oz)
Dimensions (WxLxH)	117x252x128 mm (4.60x9.92x5.03 in)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data	
System	Reflex (Collimator System)
Objective Lens	90x60 mm (3.54x2.36 in)
Magnification	1X
Reticle Options	
 *Option 1*	 *Option 2*
Eye Relief	Unlimited

KEY FEATURES

- **UNLIMITED EYE RELIEF**
  Non-critical eye relief for rapid target acquisition
- **FAST ACQUISITION TO THE TARGETS**
  Increase your accuracy and speed while engaging with the targets
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **HIGH LIGHT TRANSMITTANCE**
  Exceptional image quality with high light transmittance across the entire spectral range
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40023-EN | Rev.E | 02.24

Vertical and Horizontal Zeroing Adjustment

Vertical Click Value	1 MOA
Horizontal Click Value	1 MOA

Electronical Data

Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	3 NV / 8 Day Settings (Total 11 Levels)
Battery	CR123A (3V)
Battery Life [1]	1000+ hours

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59 mm NATO (.338) 12.7mm NATO (.50) 40 mm Automatic Grenade Launcher (AGL)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [2]

■ User and Operating Manual	■ Lens Cleaning Cloth
■ 5.0 Allen Key	■ Hard Case
■ 2x Side Picatinny Rails	■ Top Picatinny Rail

Optional Accessories [2]

- ☐ MK19 40mm Grenade Launcher Mechanical Sight [3]
- ☐ M5X Magnifier 5X
- ☐ M3X Magnifier 3X
- ☐ Magnifier Mount Interface

(1) Battery life may vary depending on environmental and atmospheric conditions.
(2) Accessories may vary. Please contact us for detailed information.
(3) Please contact for different ammunition ballistic options.

Contact 3E for product codes and SKUs.

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MTN 90i

MACHINE GUN REFLEX SIGHT w/LRF

The MTN 90 significantly enhances machine gun users' target detection, engagement, and accuracy through a wide field of view and uncompromising precision. Its design allows for greater flexibility in operation, with the ability to keep both eyes open for optimal situational awareness.

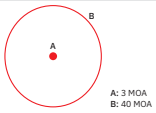
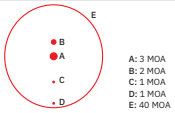
Engineered with a durability-centric approach, the MTN 90 can withstand the harshest conditions without sacrificing performance. With tests meeting MIL-STD-810 standards and a fully aluminum construction for maximum structural integrity, the MTN 90 represents the pinnacle of durability and reliability.

The MTN 90 offers the capability to integrate a 3X or 5X magnifier. This feature enhances versatility necessary for diverse operational demands. Users can significantly enhance their tactical efficiency, resulting in a more effective and adaptable engagement strategy. This additional magnification enriches the user experience, providing unparalleled precision at varying distances.

The MTN 90i comes equipped with a built-in laser rangefinder, to measure the targets up to 2 km. This advanced feature imparts crucial distance data to users, thereby amplifying their targeting precision and elevating the overall accuracy of operations.

Elevate your speed and accuracy while engaging with targets.

Physical Data	
Housing Material	Aluminium
Color	Black
Weight	3390 g (119.58 oz)
Dimensions (WxLxH)	133x253x158 mm (5.23x9.96x6.22 in)
Weapon Mount Compatibility	MIL-STD 1913, STANAG 4694

Optical Data	
System	Reflex (Collimator System)
Objective Lens	90x60 mm (3.54x2.36 in)
Magnification	1X
Reticle Options	
 *Option 1*	 *Option 2*
Eye Relief	Unlimited

KEY FEATURES

- **UNLIMITED EYE RELIEF**
  Non-critical eye relief for rapid target acquisition
- **FAST ACQUISITION TO THE TARGETS**
  Increase your accuracy and speed while engaging with the targets
- **HIGH-QUALITY OPTICAL COMPONENTS**
  High-quality optics for exceptional performance in low-light conditions
- **EYE-SAFE OPERATION**
  Equipped with a CLASS I eye-safe laser per IEC 60825-1
- **ACCURATE AND RELIABLE**
  High precision laser technology for the most accurate and reliable results
- **WIDE FIELD OF VIEW**
  Fast aiming with a wider vision
- **SHARP AND CLEAR IMAGES EDGE-TO-EDGE**
  The performance-optimized optical design provides sharp and clear images edge-to-edge
- **ROBUST AND RELIABLE BODY DESIGN**
  Robust and reliable design to maintain functionality, usability, ergonomics and performance in harsh conditions

DS40023-EN | Rev:D | 02.24

Laser Rangefinder Data

Laser Wavelength	905 nm
Class	CLASS I (Eye Safe)
Range [1]	10 m - 2000 m
Measurement Accuracy	± 0.1m
Beam Divergence	5 mRad
Time per Measurement	0.25 sec.
Display	OLED
Features	Distance and Tilting Angle

Vertical and Horizontal Zeroing Adjustment

Vertical Click Value	1 MOA
Horizontal Click Value	1 MOA

Electronical Data

Illumination Control	Rotary Control w/ Intermediate Stops
Illumination Range	3 NV / 8 Day Settings (Total 11 Levels)
Battery	2 x CR123A (3V)
Battery Life [2]	1000+ hours
Auto Shutoff (Reticle)	After 6 hours
Auto Shutoff (OLED)	After 30 minutes

Environmental Data

Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67
Recoil Compatibility	5.56 mm NATO (.223) 7.62 mm NATO (.308) 8.59 mm NATO (.338) 12.7mm NATO (.50) 40 mm Automatic Grenade Launcher (AGL)

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Standard Accessories [3]

■ User and Operating Manual	■ Lens Cleaning Cloth
■ 5.0 Allen Key	■ Hard Case
■ 2x Side Picatinny Rails	■ Top Picatinny Rail
■ 2x CR123A	

Optional Accessories [3]

- ☐ MK19 40mm Grenade Launcher Mechanical Sight [4]
- ☐ M5X Magnifier 5X
- ☐ M3X Magnifier 3X
- ☐ Magnifier Mount Interface

Classified according to **IEC 60825-1:2014**

(1) Base performance is 2000 m based on the target: 2.3 m x 2.3 m, visibility: 30 km albedo: 0.6, detection probability > %90
(2) Battery life may vary depending on environmental and atmospheric conditions.
(3) Accessories may vary. Please contact us for detailed information.
(4) Please contact for different ammunition ballistic options.

Contact 3E for product codes and SKUs.

DS40033-EN | Rev:D | 02.24

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KNP GEN II

TACTICAL PERISCOPE

Mechanical Data	
Housing Material	Aluminium
Color	RAL 6014 Khaki Green
Weight	Max 600 g (21.16 oz)

Optical Data	
FoV 4x	10°
FoV 9x	4.5°
Magnification Ratio	From 4x to 10x
Diopter Adjustment	±5 dpt

DS40024-01-R6014-EN | Rev:+ | 10.23

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RECON DN

TACTICAL TARGET CAMERA

The Recon DN represents the cutting edge in compact target camera technology, seamlessly integrating with riflescopes and spotting scopes. This device not only allows for photo and video capture without disturbing the functionality and handling of your optics but also saves these files directly to an SD card for easy retrieval.

In addition to these features, the Recon DN enhances user experience by offering live streaming capabilities via Wi-Fi, enabling seamless connectivity to a PC or mobile device. A wired connection for image streaming to your PC is also available, providing an array of options for users.

The Recon DN sets itself apart by its compatibility with various battery models, promising over 10 hours of uninterrupted operational battery life. This device encapsulates a delicate balance of durability and minimalism, boasting a remarkably lightweight and compact design that doesn't compromise on ruggedness and reliability.

Seize every moment with the Recon DN and never miss your most critical scene.

Physical Data	
Housing Material	Aluminium
Color	Black or FDE
Weight	230 g (8.11 oz) (w/o accs.)
Dimensions (WxLxH)	80x48x95 mm
Mounting Interface*	46 mm Ø

Recon DN Data	
Video Resolution	1920 x 1080 pixels
Frame Rate	30 frames/sec
Recording Format	MP4
Image Format	JPG
Internal Memory	64 GB
Connection	OTG (Android USBCAM), PCCAM, WiFi 2.4GHz

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)
Immersion	IP67

- Other MIL-STD-810G tests are applicable. Please contact us for detailed information.

Electronical Data	
Battery	The RECON DN is compatible with 16340, CR123A, 18350, 18500, and 18650 battery types. Operates with a single battery.
Battery Life (1)	10+ hours

Standard Accessories	
■ User and Operating Manual	■ Lens Cleaning Cloth
■ Wall Charging Adapter	■ Charging Cable
■ Allen Key	■ Mount Adapter
■ Front Protection Cover	■ Rear Protection Cover
■ 18500 Battery Cap	■ 18650 Battery Cap
■ 64 GB MicroSD	

(1) The battery life is estimated based on the original 18650 equipment battery. Battery life may vary depending on environmental and atmospheric conditions.

DS80003-35-EN | Rev:C | 07.23

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HMD

HELMET MOUNTED DISPLAY UNIT

SUPPORT PRODUCT	Only works with compatible 3E device. Contact us for more information.

The HMD is lightweight, adjustable and comfortable. It brings the live video from your 3E device in front of your eyes seamlessly. It allows aiming and firing around obstacles and corners, without putting the user in the line of fire.

It is designed to deepen your imaging experience.

Physical Data	
Housing Material	High Grade Polymer (Polyamid)
Color	Black or FDE
Weight [1]	160 g (5.64 oz)
Dimensions (WxLxH)	52x80x70 mm (2.05x3.15x2.76 in)
Helmet Connection Interface [2]	Yes
Compatible Host Devices	Pars 635, Pars 635N, Pars 660, Pars 660H, Pars 660N, Pars 660NH, Pars 675, Pars 675H, Pars 675N, Pars 675NH

Optical Data	
Observation	Monocular
Ocular FoV	30°
Exit Pupil	10 mm

Display Data	
Type	High Resolution Color OLED

Electronical Data	
Connection Type	Wired or Wireless [3]
Battery	2 x 18500 Rechargeable Li-ion Battery
Battery Life [4] [5] [6]	4+ hours

KEY FEATURES

- **ALLOWS AIMING AND FIRING AROUND OBSTACLES**
  Allows aiming and firing around obstacles and corners, without put user in the line of fire
- **ALLOWS FLEXIBILITY TO HOLD THE WEAPON AND AIM**
  It provides flexibility in aiming by making weapon control easier
- **WORKS WITH ALL PARS MODELS**
  It can work with all PARS models

DS80000-EN | Rev.B | 07.22

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)

Standard Accessories [8]	
■ User and Operating Manual	■ 1.2 m Host Device Connection Cable Set [7]
■ External Battery Pack	■ 0.5 m Power Cable Kit
■ Eyecup	■ Helmet Connection Interface [2]

Optional Accessories [8]	
☐ Hard Case	☐ Battery Charger
☐ Soft Carrying Bag	

(1) The weight given is for the HMD including the bellows. In wireless mode with fully loaded external battery pack and power cable kit, the total weight will be 350 g. Helmet connection interface is not included in this weight calculation.
(2) Please contact us to learn more about suitable helmet types.
(3) Wireless connection type is optional. Contact us for more information.
(4) Battery life is calculated according to the wireless connection mode with the external battery pack. Battery life may vary depending on environmental and atmospheric conditions.
(5) If the HMD is connected to the host device in wireless mode, it will reduce the battery life of the host device by ~15%.
(6) If the HMD is connected to the host device in wired mode, it will reduce the battery life of the host device by ~40%.
(7) The length of the host device connection cable set is 2.6 m when the cable coil is fully unfolded.
(8) Accessories may vary. Please contact us for detailed information.

Contact 3E for product codes and SKUs.

CE

DS80000-EN | Rev:B | 07.22

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OCU

OPERATOR CONTROL UNIT

SUPPORT PRODUCT	Only works with compatible 3E device. Contact us for more information.

The OCU is designed to maximize the TUFAN user experience with the 7.0-inch built-in touchscreen that displays clear, bright images, even under challenging conditions. Easy-to-use controls and seamless connection to TUFAN provides the most convenient use than ever before.

It can work with both internal battery and external power and has been designed in line with the ergonomic demands of experienced users for maximum uninterrupted use.

Take your user experience forward and get the most out of your device.

Physical Data	
Dimensions (WxLxH)	300x205x75 mm (11.81x8.07x2.95 in)
Weight	1615 g (56.97 oz) [1]
Housing Material	Plastic Parts w/Aluminium
Color	Black
Compatible Host Devices	TUFAN

General Data	
Rated Power	9W
Memory	64 GB
RAM	2 GB
Ethernet Support	Yes (100Mbps)
Video Output Port 1	HDMI Port
Video Output Port 2	Analog Video Output

Display Data	
Display	Onboard 7" LCD
Secondary Display Support [2]	7" LCD
Resolution	1280x768

KEY FEATURES

- **SEAMLESS CONNECTION TO YOUR 3E DEVICE**
  Get the most out of your 3E device by seamless connection
- **EASIER USE WITH 7" LCD SCREEN**
  Provides ease of use thanks to the built-in 7" LCD screen
- **WIRELESS CONNECTION WITH WIFI**
  Provides wireless connection with wifi
- **RUNS WITH BOTH INTERNAL OR EXTERNAL POWER**
  Runs on both internal battery or external power

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Electronical Data	
Internal Battery	Rechargable Lithium 4 x 18650 (3500mAh) Battery
Internal Battery Life	5+ hours
External Adaptor Input	13V/2A (min) 19V/2A (max)
External Battery Input	14.8V (nominal) 16.8V (max)

Bluetooth (3)	
Protocol	Bluetooth 4.2
Operation Frequency Range	2.4 GHz

WI-FI (3)	
Protocol	Support of IEEE Std 802.11a/b/g/n 20 and 40 MHz SISO 20 MHz 2x2 MIMO
Operation Frequency Range	2.4 GHz, 5 GHz

Environmental Data	
Operating Temperature Range	-32˚C to +49˚C (-26˚F to +120˚F)
Storage Temperature Range	-40˚C to +71˚C (-40˚F to +160˚F)

(1) The weight given is calculated without accessories and batteries.
(2) It is available as an optional accessory.
(3) It is available as an optional features.

Contact 3E for product codes and SKUs.

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