EOMAX™

WOLFPACK™

Networked Tactical ISR

α system

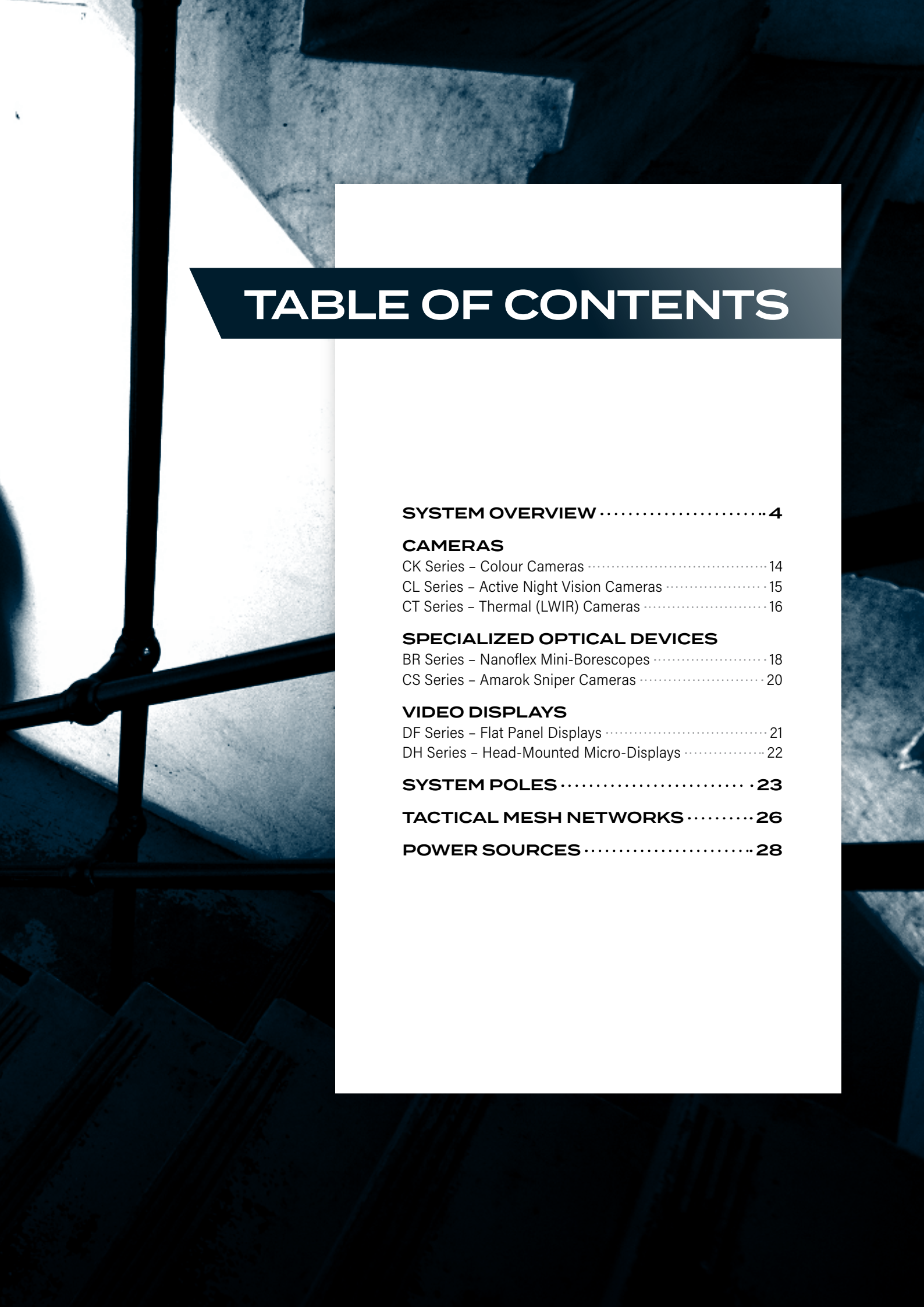


TABLE OF CONTENTS

WOLFPACK | α system

The World's Most Advanced Multi-Mission Tactical ISR System

Alpha is the networked imaging capability like no other. A highly flexible mission suite of multi-purpose system modules designed to support the widest range of operational objectives. Engineered in accordance with MIL-STD-810G, Alpha is the go-anywhere system for every environment on land and at sea.

PB Series
Power Sources

DF Series
Flat Panels

DH Series
Micro Displays

DC Series
Touch Screen Computers

EP5d
15ft (4.5m)

EP6d
30ft (9m)

EP7d
18ft (5.5m)

EP8d
6ft (1.8m)

POWER SOURCES

Vehicle Adapter

AC Power Supply

Battery Chargers

DISPLAYS

Body Harness

EXTENSIONS

Tripod Adapters

Guyline Kits

CS Series
Amarok™
Sniper Camera

CL Series
Active Night-Vision

CK Series
Low-Light Colour

CT Series
Thermal

CB Series
Optical Probe

CU Series
Under-Door

BV Series
Videoscopes

BR Series
Nanoflex™

EA Series
Extension
Accessories

CC Series
Cables

NW Series
Mesh Network Devices

WIRELESS

Intrusion Detection Sensors

SYSTEM ACCESSORIES

CAMERAS

Camera Mounts

WOLFPACK™

Wolf Pack is a high mobility, rapid deployment imaging system designed to expand situational awareness across a broad range of mission environments including tactical operations, interdiction, force protection/physical security, and SAR. Wolf Pack is a force multiplier providing eyes-on visual intelligence with fewer operators while enhancing team safety and effectiveness.

A multi-spectral imaging platform, Wolf Pack includes high resolution thermal, near infrared night vision and low-light colour cameras. Several specialized optical technologies including small diameter fiberoptic probes, videoscopes, sniper cameras and under-door viewers further expand the multi-mission capabilities of Wolf Pack.

Interdiction:

- Stowaway/Fugitive Detection
- Contraband Weapons, Explosives and Other Restricted Materials
- Covert Surveillance
- Counter-Drug Operations

Force Protection/Physical Security

- Perimeter Surveillance
- Intruder Detection
- Counter-IED/EOD/High Risk Search
- Evidence Search and Recovery
- PSD/CP/VIP Protection

Tactical Operations

- Hostage Rescue
- Building/Confined Space Clearing (fatal funnels)
- Covert/Tactical Surveillance
- Sniper/Sniper Observer Target Detection, Coordination and Verification

Search and Rescue (SAR)

- Site/Safety Monitoring/Surveillance
- Water Rescue
- Confined Space Entry
- Urban SAR

(L to R) NIR Camera on 6' extension w/ head-mounted display, SuperMesh+ wireless camera configuration, videoscope w/ flat panel display.

TOUGH

Wolf Pack's ergonomic efficiency, light weight, and compactness, combined with its extreme durability have resulted in successful deployments by military and civilian organizations around the world on land and at sea.

ADAPTABLE

Designed for quick assembly and operation, Wolf Pack components and their interconnections support assembly and reconfiguration in low-light or no-light conditions in every environment—from the frozen north to the equatorial rain forest.

CONNECTED

To augment decision-making, Wolf Pack imagery can be shared among team members and distributed throughout the command structure using the system's plug-and-play mesh network capabilities.

Engineered for the Real World

Wolf Pack system components are built to meet operational requirements in the most extreme working conditions on land and at sea - rain, snow, saltwater, mud, sand, hot or cold, day or night. Engineered in accordance with relevant MIL-STD-810G specifications and beyond, Wolf Pack has established a reputation for go-anywhere durability that is second to none.

- MIL-STD-810G
- Go-Anywhere Durability
- All-Weather Assembly and Operation

Superior durability is engineered into every part of Wolf Pack and every system component is put through extensive internal testing procedures to ensure compliance with Eomax design standards. Relevant tests include long duration saltwater exposure; pressure testing of up to 10 ATMA; shock and vibration resistance; blowing dust and sand exposure; and extreme temperature and thermal shock. Where there is an operational expectation, Eomax testing includes assembly and disassembly of system components in these adverse conditions.

A Focus on Operational Efficiency

One of the key foundations of Wolf Pack is its mission flexibility. Eomax established a set of standardized mechanical and electronic interfaces for Wolf Pack that have allowed the Company to continuously upgrade and expand system capabilities while maintaining high levels of backward and forward compatibility. For over 15 years, Wolf Pack development has resulted in a field-proven, ergonomically superior system that provides operators with access to a large range of capabilities within this single system architecture.

Wolf Pack promotes the efficient exploitation of costly sensor solutions by supporting multiple deployment options. Wolf Pack reconfigurability means that any given sensor can be used in multiple applications.

As an expandable (and ever expanding) system, Wolf Pack allows new and/or additional capabilities to be added to an existing system with the benefits of increased operational performance, life-cycle cost control, and resistance to obsolescence. Training intensity and costs are reduced by a pre-existing foundation of operational experience.

In response to the challenges posed by many logistics systems, Wolf Pack is powered using standard battery types including AN/PRC-148 (MBITR) and AN/PRC-152 (Falcon 3) LION rechargeable battery cells. Recharge infrastructure includes roll-up solar cells, as well as desktop and vehicle chargers.

A Focus on Mission Success

Eomax recognizes that size, weight, and power are critical issues in every technology deployment. To balance these issues for the required operational benefit, several design and engineering strategies are employed in order to meet our goals;

- Light-weight materials including carbon fiber, aluminum, titanium and high tech polycarbonates are used extensively in Wolf Pack system components.
- Size and miniaturization are balanced with important issues of durability and operational efficiency. Meeting MIL-SPEC standards and ensuring that our systems can be effectively assembled and operated in all environments with gloved hands are important considerations in our design process.
- Closely managing power consumption while providing a reliable power supply is a major Wolf Pack benefit. The system has been engineered to operate on AC and DC power sources and includes battery packs that accept military standard rechargeable radio cells.
- Wolf Pack system design also focuses on weight reduction by allowing components to be used in a variety of configurations on a variety of missions. A considerable weight and volume reduction is realized by eliminating multiple discrete systems and their respective overheads.

Ergonomics and Workflow

Over time we have observed soldiers and civilian public safety personnel creatively solving challenges in the field by improvising solutions using available tools. Often these tools are used in ways that were not envisioned by their respective manufacturers. In support of this ad hoc creativity, Wolf Pack has been conceived to support what we call Structured Improvisation™; the ability for system users to employ a given set of system components in as many ways as they can put these system components together.

Cameras and Base System Components

An operational Wolf Pack assembly includes a camera, video display (or wireless transmission module), camera extension (or camera mount) and power source – all selected from a wide range of system components. Modular design ensures that the Wolf Pack system is highly resistant to obsolescence, while remaining expandable to meet evolving requirements.

Camera Mounts

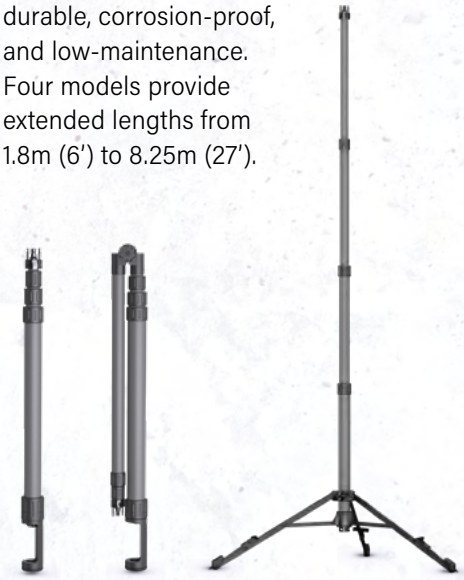
A variety of camera mounting solutions including manual and remote control articulation sections, a pan-tilt drive, helmet mount, pistol grip, and weapon rail mounts are available.

Cameras

Wolf Pack camera modules include thermal, active night vision, and low-light colour models.

Extensions

Wolf Pack system poles are constructed of carbon fiber and advanced plastics making them extremely light-weight, durable, corrosion-proof, and low-maintenance. Four models provide extended lengths from 1.8m (6') to 8.25m (27').



Displays

Wolf Pack touch screen computer, head-mounted micro-display, and compatible COTS Android™ devices provide a wide variety of viewing options.

Power Sources

Widely available AN/PRC-148 (MBITR) and AN/PRC-152 (Falcon III) Li-Ion cells power any Wolf Pack system configuration. Single or multi-unit battery assemblies can provide power for several hours or several days. Optional AC power adapters, solar cells and vehicle connectors further contribute to Wolf Pack's flexible power capabilities.

Specialized Optical Devices

Wolf Pack integrates a number of additional opto-electronic technologies including an under-door viewer, several small video probes, Wolf Pack exclusive Nanoflex ultrathin semiflexible optical probes, and Amarok™ sniper cameras.

Flexible Optical Probes

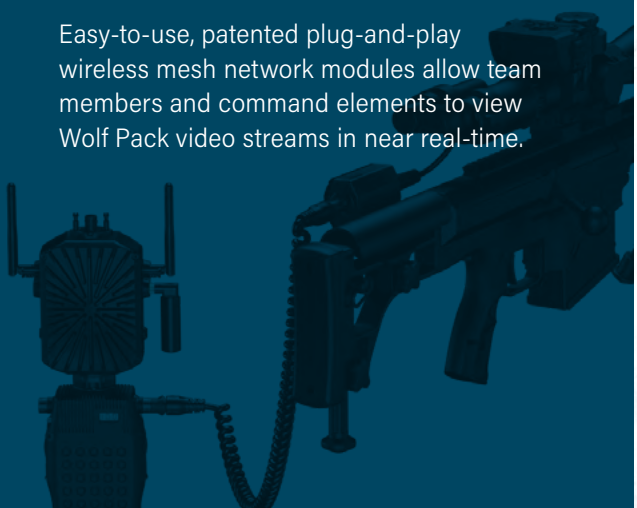
Fiberoptic and video-based solutions including ultrathin optical probes, and full HD videoscopes.

Sniper Camera Systems

The Wolf Pack Amarok™ sniper camera allows eyes-on visual intelligence to the sniper observer and command elements in the field while maintaining an unimpeded optical view through the riflescope. Amarok is fully integrated with the modular system capabilities of Wolf Pack Alpha including SuperMesh+ tactical mesh networks.

Tactical Networks

Easy-to-use, patented plug-and-play wireless mesh network modules allow team members and command elements to view Wolf Pack video streams in near real-time.



SuperMesh+™

ONE SYSTEM – MANY MISSIONS

Each Wolf Pack module is part of a large, highly integrated imaging platform. Wolf Pack's modular "Lego block" architecture maximizes the benefits of a set of reconfigurable imaging tools providing operators with a complete multi-mission resource. The ability to repurpose Wolf Pack system components in a changing mission environment can have a significant impact of size, weight, power, technical overhead and training.

OUR PRODUCTS

CK Series – HD Colour Cameras

Features

- High definition (HD) megapixel imaging.
- Low-light optimized colour CMOS sensor.
- High resolution video in zero-light environments using built-in white light illuminator.
- Advanced image processing for exceptional low-noise image quality.
- Five available camera focal lengths.
- Built for the future with Wolf Pack Digital Evolution (DEvo) technology.

Specifications

- **Camera Type:** Low-light optimized colour CMOS sensor
- **Sensitivity:** 0.002 lux
- **Resolution:** 1920 (H) x 1080 (V) pixels
- **Field-of-View (diagonal):** 13dg, 21dg, 37dg, 55dg, 98dg
- **Illumination:** White light w/8 high intensity LEDs
- **Connector:** Eomax CA-X waterproof quick-release - rotatable 280dg for camera orientation
- **Pressure Rating:** 10 ATMA (300' / 90m)
- **Dimensions:** 120mm x 41mm x 48mm
- **Weight:** 230g
- **Operating Temperature:** -20°C to +50°C
- **Storage Temperature:** -30°C to +70°C

The CK-HD series is a new family of high definition colour megapixel cameras.

Incorporating a low-light optimized sensor, the CK-HD cameras bring high resolution colour imaging capabilities to a variety of missions. Built-in white light illumination and a range of lens focal lengths allow users to view detail at distance as well as large confined spaces with ease. All this in the compact, high mobility, rapid deployment package that users have come to expect from Wolf Pack.

Models

EW-CK10Hd13 Field-of-View (diagonal): 13dg	**EW-CK10Hd21** Field-of-View (diagonal): 21dg	**EW-CK10Hd37** Field-of-View (diagonal): 37dg	**EW-CK10Hd55** Field-of-View (diagonal): 55dg	**EW-CK10Hd98** Field-of-View (diagonal): 98dg

CL Series
– HD Active Night Vision Cameras

Features

- High definition (HD) megapixel imaging
- Ultra-low-light imaging with Sony STARVIS sensor technology
- Active night vision in zero-light environments with built-in NIR illuminator.
- Advanced image processing for exceptional low-noise image quality.
- Five available camera focal lengths.
- Built for the future with Wolf Pack Digital Evolution (DEvo) technology.

Specifications

- **Camera Type:** Ultra-low-light STARVIS back-illuminated CMOS sensor
- **Sensitivity:** 0.0001 lux
- **Resolution:** 1920 (H) x 1080 (V) pixels
- **Field-of-View (diagonal):** 13dg, 21dg, 37dg, 55dg, 98dg
- **Illumination:** 940nm Near Infrared (NIR) w/8 high intensity LEDs
- **Connector:** Eomax CA-X waterproof quick-release - rotatable 280dg for camera orientation
- **Pressure Rating:** 10 ATMA (300' / 90m)
- **Dimensions:** 120mm x 41mm x 48mm
- **Weight:** 230g
- **Operating Temperature:** -20°C to +50°C
- **Storage Temperature:** -30°C to +70°C

The CL-HD series is a family of high definition active night vision megapixel cameras.

Incorporating a Sony STARVIS ultra-low-light sensor, CL-HD series cameras bring remarkable night vision capabilities to tactical ISR missions. Built-in near infrared illumination and super-wide optics enable operators to view large confined spaces with ease. All this in the compact, high mobility, rapid deployment package that users have come to expect from Wolf Pack. Like all Wolf Pack system components, the CL-HD series is engineered to MIL-SPEC levels of durability and designed for real world operations.

Models

EW-CL10Hd13 Field-of-View (diagonal): 13dg	**EW-CL10Hd21** Field-of-View (diagonal): 21dg	**EW-CL10Hd37** Field-of-View (diagonal): 37dg	**EW-CL10Hd55** Field-of-View (diagonal): 55dg	**EW-CL10Hd98** Field-of-View (diagonal): 98dg

CT Series – Thermal Cameras

Wolf Pack CT5 series thermal cameras provide military, law enforcement and SAR personnel

with enhanced detection capabilities in EOD, contraband interdiction, intruder detection, urban search, and tactical operations. Because thermal imaging is a passive night vision technology, CT5 thermal cameras enhance operator safety in high risk environments – no need for IR illuminators as these cameras rely on the relative temperatures (heat signature) of objects in the visual field.

Compact, high resolution CT5 cameras feature leading edge 640 x 480 pixel 12µ sensor technology making these among the most advanced thermal cameras available in this class. The outstanding spatial and temperature resolution of CT5 cameras combined with an adaptive dynamic range algorithm produce images with outstanding detail.

Features

- Super-compact design.
- Advanced 12µ sensor technology.
- Seven available lens focal lengths.
- Engineered in accordance with MIL-STD-810G.
- Built for the future with Wolf Pack Digital Evolution (DEvo) technology.

Specifications

- **Camera Type:** 8µ – 12µ long wave infrared (LWIR)
- **Sensor:** Uncooled VOx microbolometer
- **Pixel Size:** 12µ
- **Resolution:** 640 x 512 pixels
- **Thermal Sensitivity (NETD):** <40 mK, <50mK, <60mK models available
- **Lens HFoV:** 95°, 50°, 32°, 24°, 18°, 12°, 8° lens options available
- **Frame Rate:** Up to 60Hz (full frame)
- **Time to Image:** < 3 sec.

Mechanical / Environmental

- **Camera Body:** Waterproof and pressure-proof (7 ATMA / 60mSW)
- **Connectors:** Eomax CA-X waterproof quick-release
- **Operating Temperature:** -40°C to +80°C
- **Storage Temperature:** -50°C to +105°C
- **Dimensions (LWH):** 128 mm x 48 mm x 49 mm (w/ 32° HFoV lens illustrated)
- **Weight:** 210 g (w/ 32° HFoV lens)

Models

EW-CT5d95
Field-of-View (H): 95dg

EW-CT5d50
Field-of-View (H): 50dg

EW-CT5d32
Field-of-View (H): 32dg

EW-CT5d24
Field-of-View (H): 24dg

EW-CT5d18
Field-of-View (H): 18dg

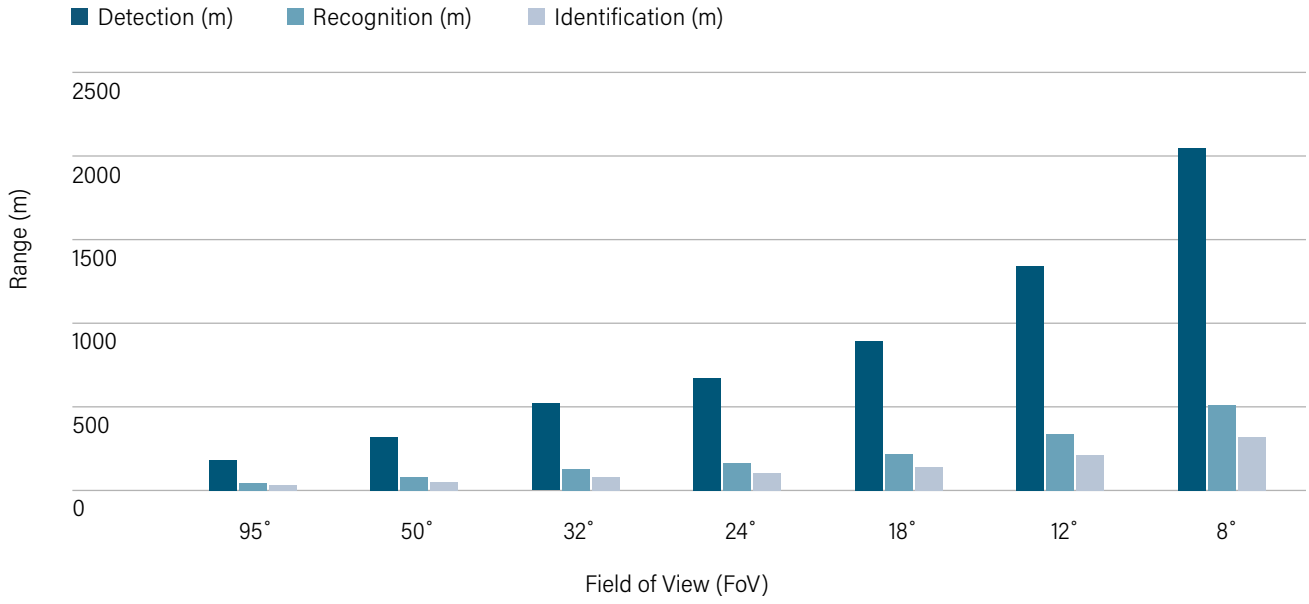
EW-CT5d12
Field-of-View (H): 12dg

EW-CT5d8
Field-of-View (H): 8dg

CT Series – Thermal Cameras

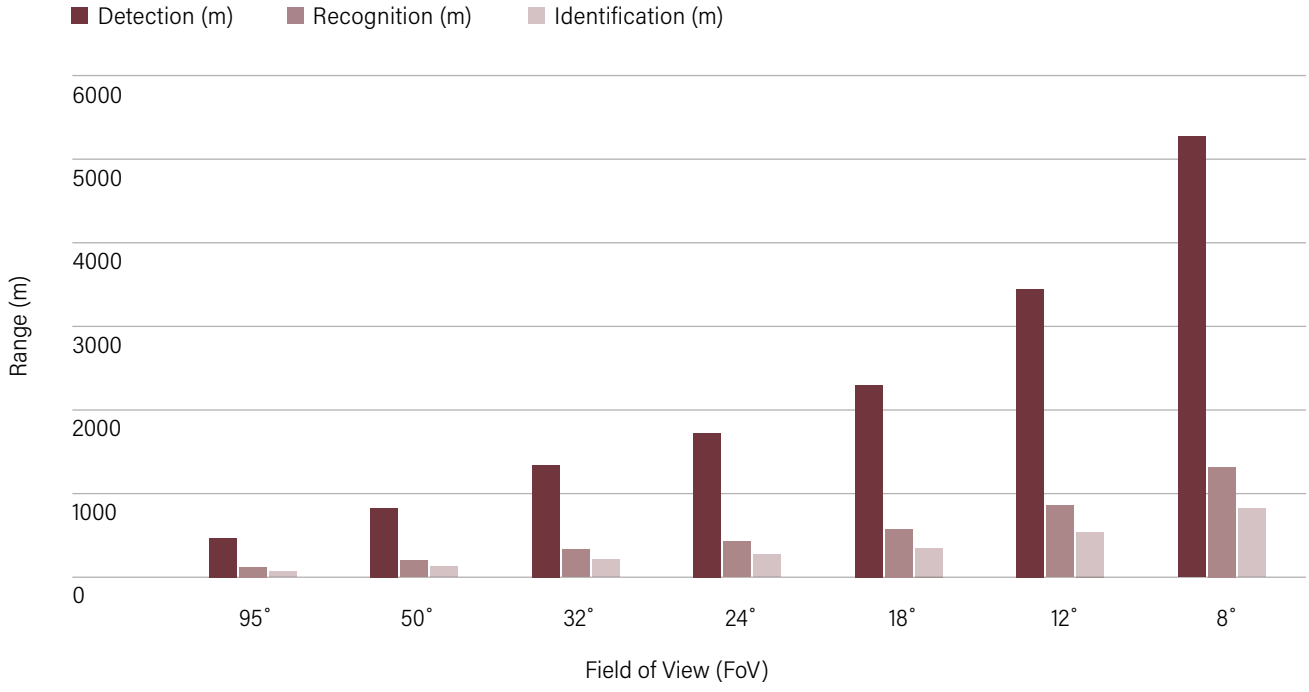
CT5d Series Thermal Camera calculated DRI ranges for a human target

Johnson's criteria using 1.7m x 0.5m target size



CT5d Series Thermal Camera calculated DRI ranges for a NATO target

Johnson's criteria using 2.3m x 2.3m target size



BR Series – Nanoflex

Nanoflex — the world's only tactical grade mini-borescope designed for real-world operations. Available in 1.8mm and 2.4mm diameters, Nanoflex probes produce remarkable high resolution wide-field images.

Equipped with a super-elastic titanium sheath, Nanoflex shafts are abrasion resistant and can bend without breaking. In combination with Wolf Pack Alpha CB optical probe cameras, Nanoflex provide low-light imagery like nothing else. Turn on the built-in fiberoptic light source and Nanoflex becomes a fully illuminated confined space search tool. And, as with all Wolf Pack capabilities, Nanoflex probes seamlessly integrate with the entire Wolf Pack Alpha system.

Models

BR-1.8A12D87NFd
12cm (4.75") 1.8mm (0.07")
Direct view 87° super wide-field

BR-1.8A18D87NFd
18cm (7") 1.8mm (0.07")
Direct view 87° super wide-field

BR-1.8A30D87NFd
30cm (11.8") 1.8mm (0.07")
Direct view 87° super wide-field

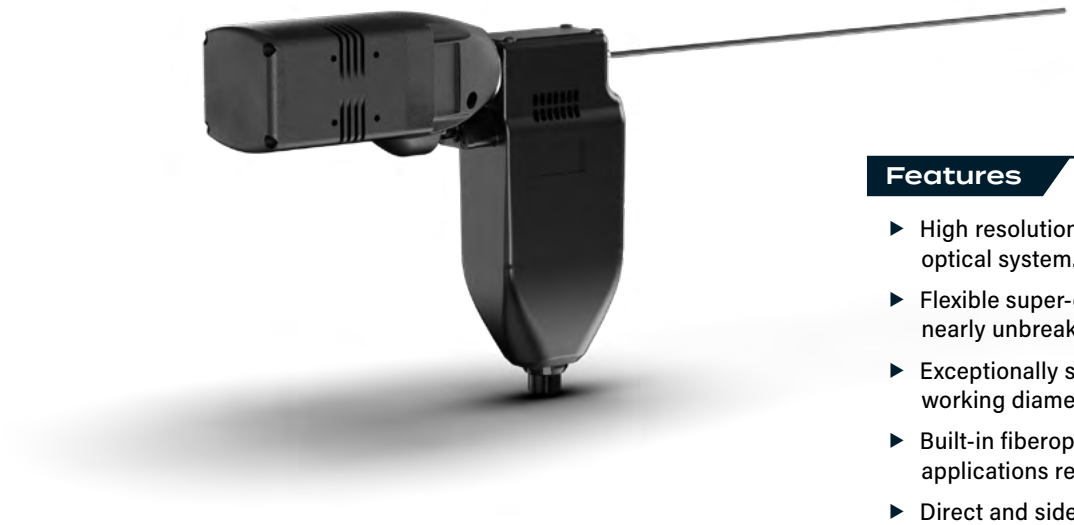
BR-2.4A27D90NFd
27cm (10.6") 2.4mm (0.09")
Direct view 90° super wide-field

BR-2.4A58D90NFd
58cm (22.8") 2.4mm (0.09")
Direct view 90° super wide-field

BR-2.4A35S60NFd
35cm (13.8") 2.4mm (0.09")
Side view 60° field-of-view

BR-2.4A58S60NFd
58cm (22.8") 2.4mm (0.09")
Side view 60° field-of-view

BR Series – Nanoflex



Features

- High resolution, wide field-of-view optical system.
- Flexible super-elastic titanium shaft is nearly unbreakable in normal operation.
- Exceptionally small 1.8mm and 2.4mm working diameters.
- Built-in fiberoptic lighting for search applications requiring illumination.
- Direct and side-view optical configurations.
- Fully integrated with Wolf Pack Alpha.

CB Optical Probe Cameras

CB series optical probe cameras enable the seamless integration of Nanoflex mini-borescopes in a variety of Wolf Pack Alpha system configurations. CB cameras utilize a hybrid opto-mechanical-electronic quick-connect for superior field interchangeability. A high durability environmentally sealed design ensures reliable operation in any weather — on land and at sea.

Specifications

- **Camera Type:** Ultra-low-light STARVIS back-illuminated CMOS sensor
- **Sensitivity:** 0.0001 lux
- **Resolution:** 1920 x 1080 pixels
- **Optical System:** Built-in Nanoflex optimized video lens
- **Connector:** Hybrid opto-mechanical-electronic quick release
- **Pressure Rating:** IP68
- **Dimensions:** 110mm x 50mm x 56mm (incl. docking connector)
- **Weight:** 230g
- **Operating Temperature:** -20° to +50°C
- **Storage Temperature:** -30° to +70°C

CS Series – Amarok™ Sniper Camera

Wolf Pack Amarok™ sniper cameras allow eyes-on visual intelligence to the sniper observer and command elements in the field while maintaining an unimpeded optical view through the riflescope.

Amarok is fully integrated with the modular system capabilities of Wolf Pack Alpha including SuperMesh+ tactical mesh networks, close range WiFi capabilities, MIL-STD video displays and image capture devices, giving operators ultimate mission flexibility.

Whether it's local display connectivity with standard Android smartphones and tablets, connectivity with existing backhaul network infrastructure, or point-to-point transmission to command elements over distances of several kilometers, there is likely a Wolf Pack wireless solution to suit your needs.

Features

- High definition (HD) megapixel image sensor.
- High durability environmentally sealed design for all-weather operation.
- No interference with riflescope optical properties and operation.
- Rapid deployment in any Wolf Pack configuration.
- Light-weight on the riflescope; 4 oz (114 g).
- Compact low-volume design supports good peripheral vision.
- Tool-less adaptation and set up with a wide range of available riflescopes.

Specifications

EW-CS1d

- **Camera Type:** 1/2.8" Low-Light Colour CMOS
- **Resolution:** 1984 (H) x 1105 (V) pixels
- **Sensitivity:** 0.1 lux
- **Current Consumption:** 1.3 Watts
- **Operating Temperature:** -20°C to +50°C
- **Storage Temperature:** -30°C to +70°C

Riflescopes Supported

- **Leupold**
- **Nightforce**
- **Schmidt-Bender**
- **Swarovski**

Contact Eomax for additional fit information.

DF3d – Flat Panel Display

Building on Eomax display engineering experience over the last 15 years, the DF3d Flat Panel Display is a balance of operational simplicity, advanced features, light weight, and durability.

The DF3d displays video imagery from any Wolf Pack Alpha camera module. The DF3d is equipped with a hinged connection point to optimize screen orientation for body mount, positioning on flat surfaces, and in hard-mount applications in vehicles, aircraft and on marine vessels. An optional accessory connector supports the attachment of a DH2d Head Mounted Display in a dual display configuration.

Features

- Hinged connection point for optimal display positioning.
- Image flip to optimize viewing orientation.
- Push button display controls for contrast, brightness and colour are accessible with gloved hands.
- Automatic screen brightness sensor for viewing in full daylight or zero light.
- Low power consumption maximizes operating time in Wolf Pack system assemblies.
- MIL-STD-810G durability in a compact light-weight design.

Specifications

EW-DF3d

- **Display Type:** 7" trans-reflective IPS colour LCD
- **Resolution:** 1920 x 1080 pixels
- **Display Controls:** Contrast, brightness, colour, image flip using recessed push-buttons
- **Connector:** Articulating waterproof one-way fit locking connector w/ alignment pins
- **Accessory Connector (Optional):** Press-lock cable connector
- **Pressure Rating:** IP68 (1 m water for 1 hour)
- **Dimensions:** 202mm x 135mm x 45mm
- **Weight:** 1.2 Kg (2.64 lbs)
- **Operating Temperature:** -20 °C to +50 °C
- **Storage Temperature:** -30 °C to +70 °C

DH2d – Head Mounted Display (HMD)

The DH2d head mounted display (HMD) uses high resolution OLED technology to provide outstanding imaging capability in a package weighting less than 2 oz (50 g).

A complete Wolf Pack system with camera, HMD, power source and weapon mount can have a fully configured weight of less than 3 lbs (1.4 Kg).

The DH2d can be used as a stand-alone display in a Wolf Pack system assembly, or in a dual display configuration with a back-mounted DF3d flat panel display.

Features

- Colour or B&W display depending on camera input
- Clip-on display control unit enables on/off, brightness and image flip
- Helmet and tactical glasses mounting options
- Waterproof, dust-proof, shock resistant design
- High resolution OLED display technology ensures outstanding picture quality

Specifications

EW-DH2d

- **Display Type:** active matrix OLED
- **Resolution:** 800 x 600 pixels
- **Apparent Image Size:** 21″ / 54 cm @ virtual 3′ / 92 cm viewing distance
- **Eye Relief:** 0.6″ / 15 mm
- **Connector:** Wolf Pack in-line press-lock
- **Mounting Options:** tactical glasses (clip-on) / helmet mount
- **Weight:** < 2 oz / 50 g
- **Operating Temperature:** -40 °C to +50 °C
- **Storage Temperature:** -45 °C to +70 °C
- **Pressure Rating:** IP68 (1 m water for 1 hour)

EP Series – System Poles

Wolf Pack extendable system poles equipped with any Wolf Pack camera module, allow operators to view hard-to-reach or dangerous areas from a position of relative safety.

Made of high strength carbon-fiber composite, these poles are remarkably light weight, strong and rigid relative to extended length. System poles are internally wired and are operational at any extended length or locked angle. All models are built for extreme durability and are corrosion-proof making them virtually maintenance-free[2] in normal operation.

Pole sections are secured using a unique self-cleaning, twist-lock mechanism developed by Eomax. A quick release structural connector at the base of these poles allows the attachment of a cable protector and several accessory modules depending on system configuration. A double interlock connector with alignment pins at the top of the pole ensures secure attachment of Wolf Pack pole mounted system modules. Folding models feature a lockable pivot section allowing a variety of deployment geometries as well as extremely compact storage.

Features

- Strong, lightweight carbon fiber composite and advanced plastics.
- All-weather, corrosion-proof design.
- Quick-release connection points.
- High rigidity at maximum extension.
- Eomax designed no-thread self-cleaning section twist-locks.
- Internally wired for power, video, and data.
- Quick connecting tripod adapter[1] and guyline kits available for all models.

Specifications

EW-EP6d (Folding)

- **Retracted Length:** 138cm
- **Extended Length:** 8.20m
- **Sections:** 7 / folding
- **Weight:** 2.75Kg

EW-EP7d

- **Retracted Length:** 147cm
- **Extended Length:** 5.7m
- **Sections:** 5
- **Weight:** 1.45Kg

EW-EP5d (Folding)

- **Retracted Length:** 80cm
- **Extended Length:** 3.95m
- **Sections:** 7 / folding
- **Weight:** 1.75Kg

EW-EP8d

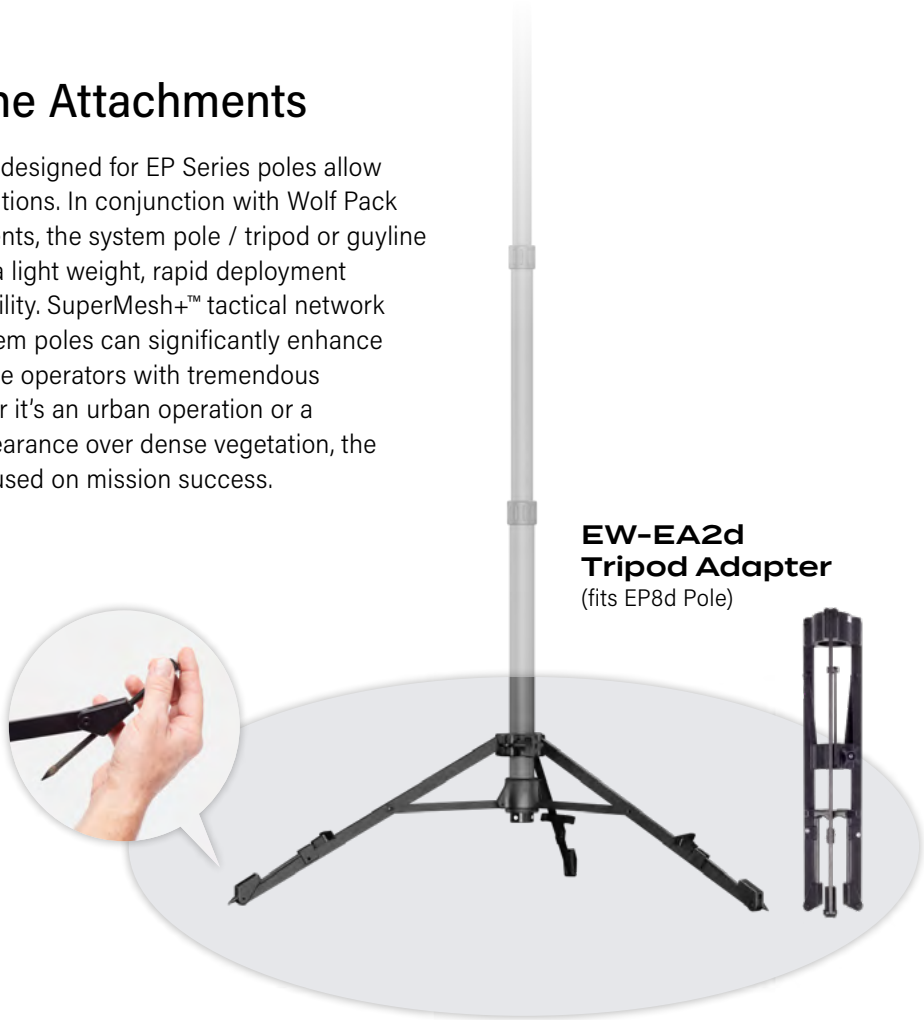
- **Retracted Length:** 69cm
- **Extended Length:** 1.88m
- **Sections:** 4
- **Weight:** 865g

1 Sold separately.
2 Special maintenance requirements in salt water environments.

EP Series – System Poles

Tripod and Guyline Attachments

Tripod adapter and guyline kits designed for EP Series poles allow free-standing camera configurations. In conjunction with Wolf Pack wireless transmission components, the system pole / tripod or guyline assembly is the foundation for a light weight, rapid deployment stand-alone surveillance capability. SuperMesh+™ tactical network modules mounted on long system poles can significantly enhance transmission ranges and provide operators with tremendous configuration flexibility. Whether it's an urban operation or a jungle deployment requiring clearance over dense vegetation, the adaptability of Wolf Pack is focused on mission success.



EW-EA2d
Tripod Adapter
(fits EP8d Pole)

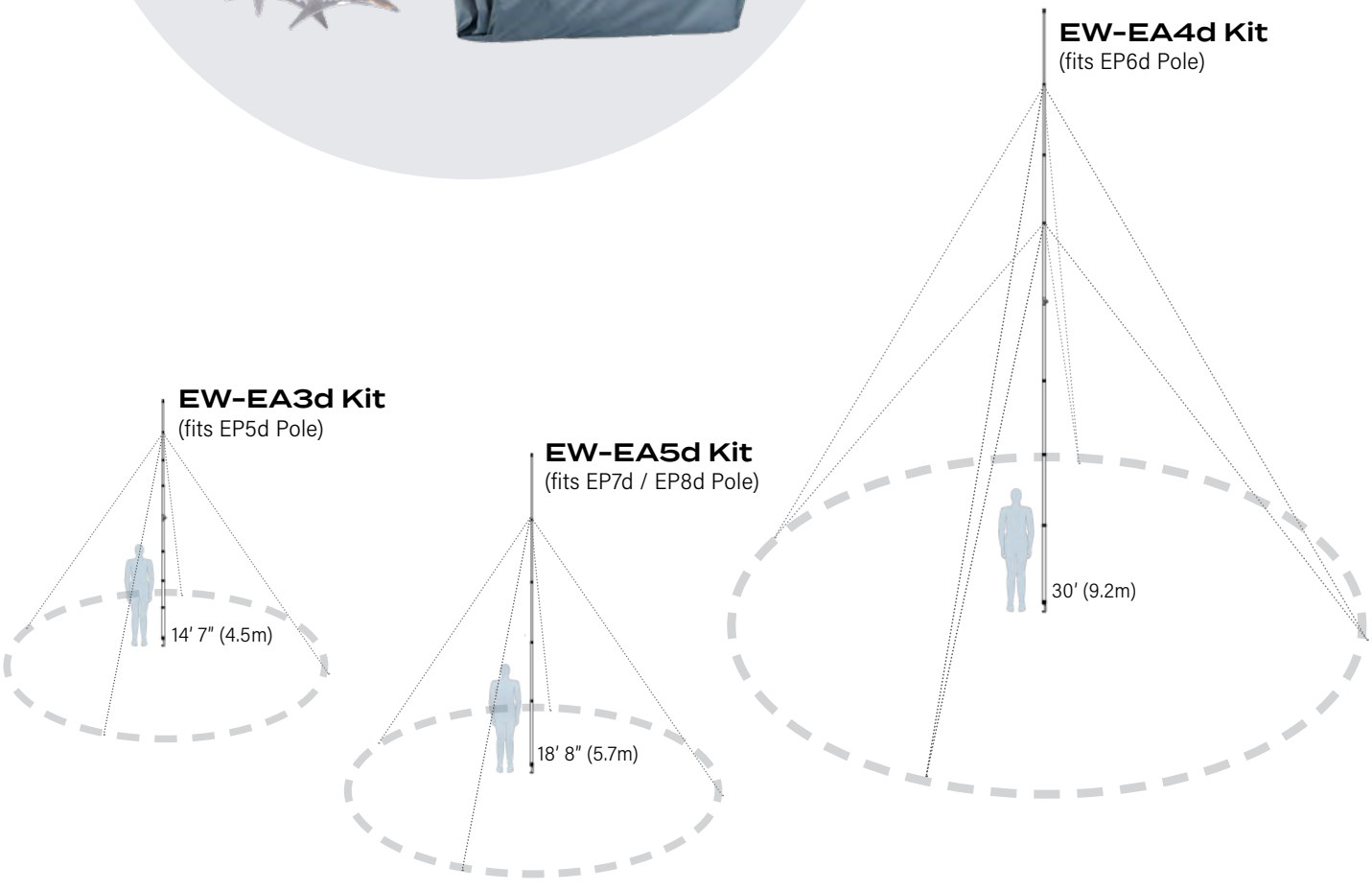
Free standing thermal camera with flat panel display.

Free-standing camera assembly with tactical mesh network module.

EP Series – System Poles

Guyline Kits

1. rope with carabiners
2. anchor pegs
3. eyelet brace
4. base peg
5. reflective markers
6. roll up rope tarp



NW3d – SuperMesh+™ Wireless Network

Wolf Pack SuperMesh+™ is a mobile ad hoc mesh network that allows operators to quickly and easily deploy multiple Wolf Pack camera nodes in a variety of environments and stream video from these camera positions over standard Android™ mobile devices.

SuperMesh+ employs a modular plug-and play Wolf Pack radio* configuration ensuring rapid network setup anywhere and in any weather. SuperMesh+™ modules are equipped with an Ethernet gateway that allows connection to IP standards-based backhaul network infrastructure as required. Wolf Pack tactical networks are compatible with ATAK and other geospatial SA software applications.

*US Patent # US 20110221907 A1.

1 May require export license.

Features

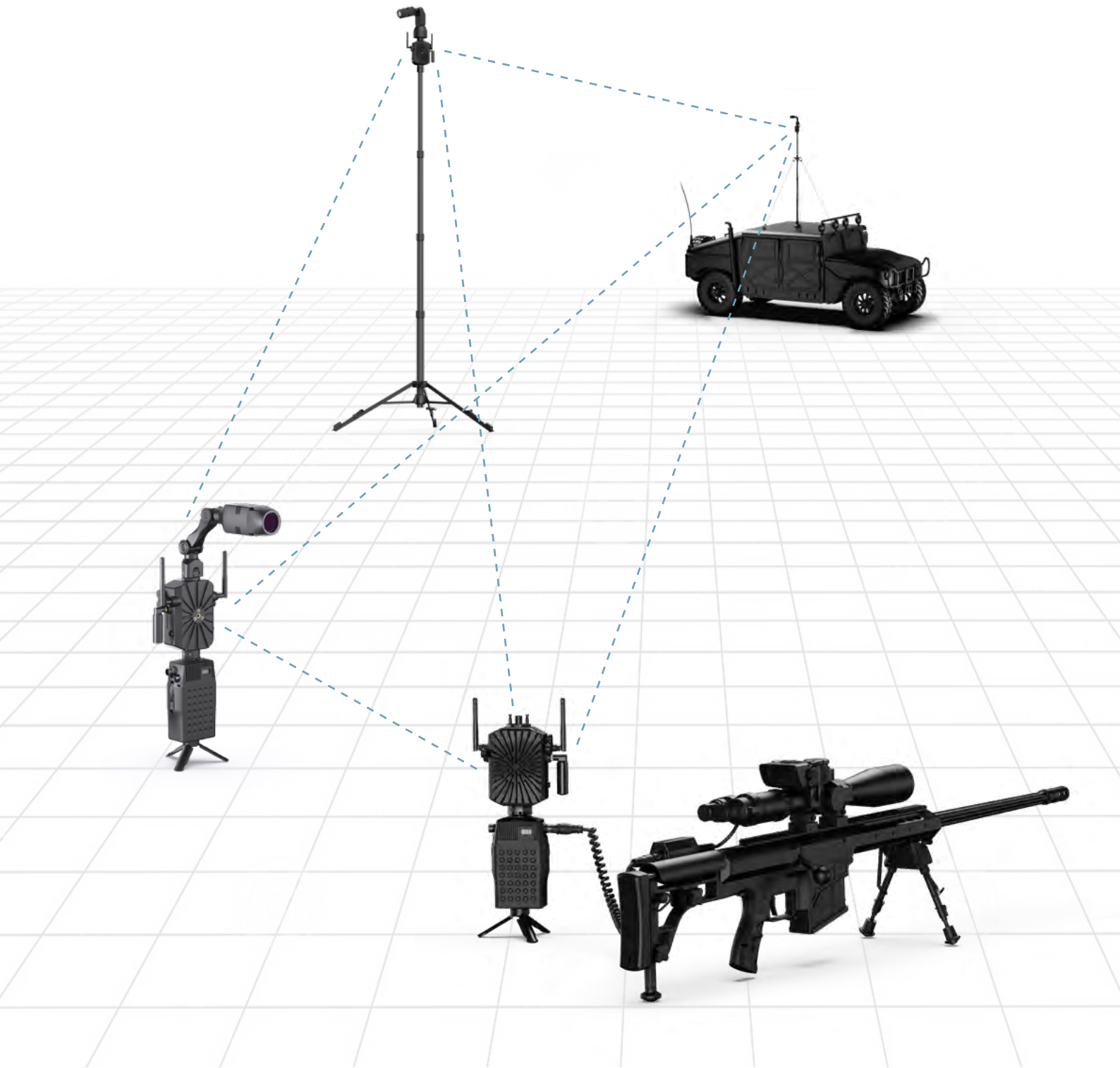
- 3000m line-of-sight transmission range node-to-node.
- View SuperMesh+™ video streams on Wolf Pack displays and standard Android mobile devices.
- Compatible with every Wolf Pack Alpha camera and optical device.
- Modular, field configurable plug and play design supports rapid deployment.
- Flexible power options for operations from several hours to several days.
- Engineered in accordance with MIL-STD-810G.

Specifications

EW-NW3d

- **Mesh Radio Models:**
  NW3d9: 900MHz (ISM)
  NW3d15: 1400MHz (L-Band licensed)
  NW3d24: 2400MHz (S-Band ISM)
- **Radio Configuration:** 2x2 MIMO
- **Tx Power:** 1w
- **Bandwidth:**
  40MHz (100Mbps) / 20MHz (80Mbps) / 10MHz (40Mbps)
- **Transmission Range:** 3000m typical line-of-sight w/ standard 3.5db omnidirectional antennas
- **Mesh Encryption[1]:**
  Hardware Layer: AES128 / 256 / 512 / 1024
  Transport Layer: Optional special encryption
- **Access Point (AP) Radio:** 802.11n WLAN (2.4GHz)
- **AP Radio Encryption:**
  AES128 w/ WPA-PSK access control
- **Ethernet Gateway:** 100BaseT connection to IP standards-based external networks
- **Antenna Ports:** Mesh, AP, GPS, Serial Data
- **Video Resolution:** Low / Medium / High (HD)
- **Video Recording (HD):** 24 hours/32GB, 48 hours/64GB, 96 hours/128GB, 192 hours/256GB
- **Connectors:** Eomax press-lock w/ secondary interlock (1x male, 1x female)
- **Accessory Connectors:**
  Eomax press-lock (1x Ethernet, 1x USB)
- **Dimensions:** 155mm x 93mm x 55mm
- **Weight:** 575g
- **Environmental:**
  IP68 – engineered in accordance with MIL-STD-810G

NW3d – SuperMesh+™ Wireless Network



PB3d – Intelligent Power Module

Features

- Compatible w/ AN/PRC-148 (MBITR) and AN/PRC-152 (Harris Falcon III) radio batteries.
- Uninterruptable power supply mode when connected to AC power or solar cell.
- Field interchangeable in any weather conditions.
- Trans-reflective LCD display provides high resolution charge condition in 1% increments.
- Serial control interface for remote runtime monitoring and battery configuration.

Power is a key component in every electronic system, and a major operational consideration in most environments.

Availability and commonality of batteries, required system operating times, as well as size and weight present a variety of challenges for operators in the field. Wolf Pack system architecture has been optimized to address these challenges with a range of power options designed to easily connect to every system configuration using quick-release connectors.

Using AN/PRC-148 (MBITR) or AN/PRC-152 (Harris Falcon III) rechargeable radio batteries, the PB3d intelligent power module has been designed to address the realities of many field operations. These rechargeable Li-Ion radio batteries provide extremely high power density leading to long PB3d operating times of up to 20 hours. As with all other components in the Wolf Pack system, the PB3d is fully interchangeable in any weather condition, including heavy rain.

Specifications

EW-PB3d

- **Battery Cells Type Supported:** Li-Ion rechargeable AN/PRC-148 and AN/PRC152
- **Operating time:** Up to 20 hours @21°C (system configuration dependent)
- **Charge Display:** Trans-reflective LCD in 1% increments
- **Power Regulation:** 15v DC constant (60w)
- **Environmental Rating:** IP68
- **Dimensions:** 149mm x 90mm x 50mm
- **Weight:** 835g (w/ Li-Ion cell), 475g (w/o Li-Ion cell)
- **Operating Temperature:** -40°C - +60°C (cell dependent)
- **Storage Temperature:** -40°C - +60°C

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