

## Vision Solutions Dismounted Soldier



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# NIGHT VISION AND THERMAL SOLUTIONS FOR THE DISMOUNTED SOLDIER



## Weapon Sights: Uncooled Thermal Imagers



**DRAGON-C**



**DRAGON MULTI**



**DRAGON-S**



**DRAGON-SR**



**DRAGON-MR**



**DRAGON-LR**

## Weapon Sights: Image Intensifiers



**MERLIN C**



**MERLIN-SR**



**MERLIN-MR**



**MERLIN-LR**

## Weapon Sights: Image Intensifiers



**KITE**



**MAXIKITE-1**



**MAXIKITE-2**

## (Goggle) Binocular: Image Intensifiers



**MERLIN-G**

## Surveillance: Uncooled Thermal Imagers



**VIPIR-2S+**

## Display Systems:



**SMMI**  
SYSTEM MAN  
MACHINE  
INTERFACE

## TARGET ACQUISITION AND SURVEILLANCE EQUIPMENT

Qioptiq, is one of the world's principal designers and manufacturers of infra red, image intensified and fused night vision equipment. More than 65,000 individual night sights have been supplied to over 52 different countries for a wide range of defence, police, border security, coastguard and search and rescue applications.

### WEAPON AIMING AND TARGET ACQUISITION

Qioptiq provides a range of world leading weapon sights for a wide variety of platforms including individual assault weapons, light support weapons, crew-served weapons, anti-tank/anti-materiel weapons and specialised sniper applications, using image intensifying and uncooled thermal imaging technology.

### SURVEILLANCE

A range of surveillance equipment is also available utilising both visible image intensifying and uncooled thermal imaging technology. Monocular and Binocular eyepiece variants are available providing maximum flexibility for surveillance applications.





## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON-C - Multi Purpose Thermal Sight



**DRAGON-C** (Compact) is an ultra lightweight multi purpose thermal weapon/surveillance sight that provides all round capability for the dismounted close combat user.

**DRAGON-C** is part of the DRAGON family of uncooled thermal products from Qioptiq that utilise the latest in uncooled thermal cameras, electronics and optical technologies to deliver world leading performance and reliability.

### DRAGON-C – Versatile Thermal Capability

- Stand-alone thermal weapon sight
- Clip-on thermal weapon sight
- Hand held observation / surveillance sight

**DRAGON-C** can be fitted with Qioptiq's LO GLINT coating technology to reduce sunlight glint and reflection as an option.

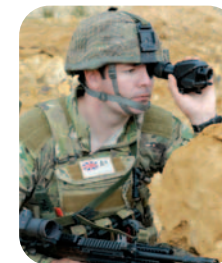
**RIGIDITY** - All Aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all 3 roles. No focus control is required.

**FUNCTIONALITY** - Polarity, NUC, Auto/Manual settings, zoom, boresight, display brightness.

**DRAGON-C Hand-Held role**  
Is able to be used in a hand-held role.



### DRAGON-C – Stand-Alone role

In the stand-alone configuration, DRAGON-C provides a thermal weapon sight capability with onboard text and graphics providing graticules and control functionality. Magnifications of x1, x2 are achievable (via E-Zoom).



### CHARACTERISTICS

**Magnification:** x1, x2 (electronic zoom)

**Field of View:** 16° HFOV

**Detection Range - Man:** x1 Mag - 910m  
x2 Mag - 1070m

**Weight:** (excluding batteries & weapon mount)  
<390g

**Dimensions:** 135mm (L) x 70mm (W)  
x 83mm (H)

**Detector type:** 8-12 μm, 320 x 240 pixel,  
25 μm pitch FPA

**Batteries:** 2 x 1.5V AA

**Battery Life:** >5 hours continuous operation  
@ 23°C – Lithium

**Features:** RS232 comms, Video out, External power source

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Neck Strap, Lens Cleaning Kit

**Optional accessories:** Interface Cable (external power, serial communications & video) Shrouds to interface with various day-scopes (Clip-on mode only).

### DRAGON-C – In-line role

In-line configuration, DRAGON-C can be integrated with a wide range of optical day sights in the range of x1 – x4 magnification. Light and dust shields can be provided to suit most common sight units.



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## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON MULTI - Miniature Universal Lightweight Thermal Sight (MULTI)

**DRAGON MULTI** is a lightweight multi purpose thermal weapon / surveillance sight with an integrated laser pointing capability.

**DRAGON MULTI** utilises the latest in uncooled thermal camera, electronics and optical technology to deliver world leading performance and reliability.

**DRAGON MULTI** can be used in stand-alone, In-line, hand held or head mounted configurations.

**DRAGON MULTI** can be provided with Qioptiq's Lo Glint Coating technology that minimises front lens reflections.

**DRAGON MULTI** provides the capability to capture, store and view thermal images.

### DRAGON MULTI

- Stand-alone weapon sight
- In-line weapon sight
- Hand held surveillance sight
- Head mounted mobility sight
- Integrated laser pointer
- Image Capture Capability
- Optional x3 afocal surveillance adapter

**RIGIDITY** - All Aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all 3 roles. No focus control is required.

**FUNCTIONALITY** - Polarity, NUC, Auto/Manual settings, zoom, boresight, display brightness, laser pointing, image capture.

**DRAGON MULTI** - is able to be used in a hand held or head mounted role.

### DRAGON MULTI - Hand Held role

is able to be used in a hand held or head mounted role.



### DRAGON MULTI - Stand-Alone role

provides a stand-alone thermal weapon sight capability with onboard text and graphics providing graticules and control functionality.



### CHARACTERISTICS

**Magnification:** x1, x2 (electronic zoom)

**Field of View:** 16° HFOV

**Detection Range - Man:** x1 Mag - 910m  
x2 Mag - 1070m

**Weight:** (excluding batteries & weapon mount)  
<450g

**Dimensions:** 148mm (L) x 74.5mm (W)  
x 68mm (H)

**Detector type:** 8-12 μm, 320 x 240 pixel,  
25 μm pitch FPA

**Batteries:** 2 x 1.5V AA

**Battery Life:** 4- 5 hours continuous operation

**Features:** RS232 comms, video out, external power input laser pointer, image capture / store / view

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Lens Cleaning Kit

**Optional accessories:** x3 afocal surveillance adapter, interface cable (external power, serial communications & video) light shrouds to interface with various day-scopes , neck strap. Interface Cable (external power, serial communications & video), Shrouds to interface with various dayscopes

### DRAGON MULTI - In-line role

can be integrated in-line with a wide range of optical day sights in the range of x1 – x4 magnification.



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## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON-S - In-Line Thermal Weapon Sight



**DRAGON-S** (Sniper) In-line Thermal Sight is designed for use with a range of optical dayscopes and provides snipers with a 24Hr surveillance and target engagement capability. DRAGON-S is factory set to eliminate the need for rezeroing when used in conjunction with the dayscope. A light seal is provided between the In-line Thermal Sight and the dayscope.

**DRAGON-S** is part of the DRAGON family of uncooled thermal products from Qioptiq that utilise the latest in uncooled thermal camera, electronics and optical technologies to deliver world leading performance and reliability.

### DRAGON-S for precision weapons

- Low power, high performance
- 320 x 240 25 µm thermal core
- Ruggedised military design
- 24 hour operational capability

**DRAGON-S** can be adapted for use on a variety of weapons mounting to either a Picatinny or NATO rail.

**DRAGON-S** thermal sight is designed specifically to meet target engagement and surveillance requirements for military customers and law enforcement agencies providing high performance within a lightweight, compact and rugged military-qualified design.

**DRAGON-S** delivers a capability to detect man and vehicle targets 24 hours a day, even in poor visibility, in total darkness and through battlefield obscurants.

**DRAGON-S** can be fitted with Qioptiq's LO GLINT coating technology to reduce sunlight glint and reflection as an option.

**RIGIDITY** - All aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all roles.

### CHARACTERISTICS

**Magnification:** x1

**Field of View:** 5.9° HFOV

**Detection Range - Man:** 2740m

**Weight:** (excluding batteries & weapon mount) <930g

**Dimensions:** 238mm (L) x 85mm (W) x 87mm (H)

**Detector type:** 8-12 µm, 320 x 240 pixel, 25 µm pitch FPA

**Batteries:** 4 x 1.5V AA

**Battery Life:** >8 hours continuous operation @ 23°C – Lithium

**Features:** RS232 comms, Video out, External power source

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Lens Cleaning Kit

**Optional accessories:** Remote Control, Interface Cable (external power, serial communications & video), Shrouds to interface with various dayscopes



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## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON-SR - Thermal Weapon Sight

**DRAGON-SR** (Short Range) is a multi purpose thermal weapon/surveillance sight that provides all round capability for the dismounted and mounted close combat users.

**DRAGON-SR** is part of the DRAGON family of uncooled thermal products from Qioptiq that utilise the latest in uncooled thermal camera, electronics and optical technologies to deliver world leading performance and reliability.

**DRAGON-SR** can be adapted for use on a variety of short-range weapons mounting to either a Picatinny or NATO rail. DRAGON can also be used in a hand held role if required.

### DRAGON-SR for personal weapons

- Low power, high performance
- 320 x 240 25 µm thermal core
- Ruggedised military design
- 24 hour operational capability

**DRAGON-SR** thermal sight is designed specifically to meet target engagement and surveillance requirements for military customers and law enforcement agencies providing high performance within a lightweight, compact and rugged military-qualified design.

**DRAGON-SR** can be fitted with Qioptiq's LO GLINT coating technology to reduce sunlight glint and reflection as an option.

**DRAGON-SR** delivers a capability to detect man and vehicle targets 24 hours a day, even in poor visibility, in total darkness and through battlefield obscurants.

**RIGIDITY** All aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all roles.

**DRAGON-SR** shown with optional red dot CQB and laser pointer.



### CHARACTERISTICS

**Magnification:** x3, x6 (electronic zoom)

**Field of View:** 8° HFOV

**Detection Range - Man:** x3 Mag - 2300m  
x6 Mag - 2390m

**Weight:** (excluding batteries & weapon mount)  
<730g

**Dimensions:** 245mm (L) x 94mm (W)  
x 121mm (H)

**Detector type:** 8-12 µm, 320 x 240 pixel,  
25 µm pitch FPA

**Batteries:** 4 x 1.5V AA

**Battery Life:** >8 hours continuous operation  
@ 23°C – Lithium

**Features:** RS232 comms, Video out, External power source

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Neck Strap, Lens Cleaning Kit

**Optional accessories:** Laser Pointer & Laser Fire Cable, Close Quarter Battle Sight Remote Control, Interface Cable (external power, serial communications & video)



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## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON-MR - Thermal Weapon Sight

**DRAGON-MR** (Medium Range) is a multi purpose thermal weapon/surveillance sight that provides all round capability for the dismounted and mounted close combat users.

**DRAGON-MR** is part of the DRAGON family of uncooled thermal products from Qioptiq that utilise the latest in uncooled thermal camera, electronics and optical technologies to deliver world leading performance and reliability.

**DRAGON-MR** can be adapted for use on a variety of short to medium range weapons mounting to either a Picatinny or NATO rail. DRAGON can also be used in a hand held role if required.

### DRAGON-MR for support weapons

- Low power, high performance
- 320 x 240 25 µm thermal core
- Ruggedised military design
- 24 hour operational capability

**DRAGON-MR** thermal sight is designed specifically to meet target engagement and surveillance requirements for military customers and law enforcement agencies providing high performance within a lightweight, compact and rugged military-qualified design.

**DRAGON-MR** can be fitted with Qioptiq's LO GLINT coating technology to reduce sunlight glint and reflection as an option.

**DRAGON-MR** delivers a capability to detect man and vehicle targets 24 hours a day, even in poor visibility, in total darkness and through battlefield obscurants.

**RIGIDITY** - All aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all roles.



**DRAGON-MR** shown with optional red dot CQB and laser pointer.

### CHARACTERISTICS

**Magnification:** x4, x8 (electronic zoom)

**Field of View:** 5.9° HFOV

**Detection Range - Man:** x4 Mag - 2740m  
x8 Mag - 3120m

**Weight:** (excluding batteries & weapon mount)  
<810g

**Dimensions:** 255mm (L) x 94mm (W)  
x 121mm (H)

**Detector type:** 8-12 µm, 320 x 240 pixel,  
25 µm pitch FPA

**Batteries:** 4 x 1.5V AA

**Battery Life:** >8 hours continuous operation  
@ 23°C – Lithium

**Features:** RS232 comms, Video out, External power source

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Neck Strap, Lens Cleaning Kit

**Optional accessories:** Laser Pointer & Laser Fire Cable, Close Quarter Battle Sight Remote Control, Interface Cable (external power, serial communications & video)



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## WEAPON SIGHT: UNCOOLED THERMAL IMAGER



## DRAGON-LR - Thermal Weapon Sight

**DRAGON-LR** (Long Range) is a multi purpose thermal weapon/surveillance sight that provides all round capability for the dismounted and mounted close combat users.

**DRAGON-LR** is part of the DRAGON family of uncooled thermal products from Qioptiq that utilise the latest in uncooled thermal camera, electronics and optical technologies to deliver world leading performance and reliability.

### DRAGON-LR for heavy Weapons

- Suitable for crew served and support weapons
- 640 x 480 25 µm thermal core
- Ruggedised military design

**DRAGON-LR** can be fitted with Qioptiq's LO GLINT coating technology to reduce sunlight glint and reflection as an option.

**RIGIDITY** - All aluminium construction for structural rigidity and EMC sealing properties ensures good integration and compatibility with surrounding systems.

**STABILITY** - Boresight stability guaranteed through state of the art optical design and lens mounting techniques.

**SIMPLICITY** - Controls have been designed and positioned for ease of access and MMI designed for ease of use across all roles.

**FUNCTIONALITY** - Polarity, NUC, auto/manual settings, zoom, boresight, display brightness.



**DRAGON-LR** shown with optional red dot CQB and laser pointer.



### CHARACTERISTICS

**Magnification:** x2.7, x5.4, x10.8 (electronic zoom)

**Field of View:** 8.8° HFOV

**Detection Range - Man:** x2.7 Mag - 2750m  
x5.4 Mag - 2990m  
x10.8 Mag - 3050m

**Weight:** (excluding batteries & weapon mount) <1075g

**Dimensions:** 295mm (L) x 85mm (W) x 105mm (H)

**Detector type:** 8-12 µm, 640 x 480 pixels, 25 µm pitch FPA

**Batteries:** 6 x 1.5V AA

**Battery Life:** >8 hours continuous operation @ 23°C – Lithium

**Features:** RS232 comms, Video out, External power source

**Accessories:** Weapon Bracket, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Neck Strap, Lens Cleaning Kit

**Optional accessories:** Laser Pointer & Laser Fire Cable, Close Quarter Battle Sight Remote Control, Interface Cable (external power, serial communications & video)



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## WEAPON SIGHT: IMAGE INTENSIFIER



### MERLIN-C - (Compact) Multi Role Monocular Night Vision Sight



**MERLIN-C** is an ultra lightweight multi role Monocular Night Vision Sight designed for use within military environments.

**MERLIN-C** can be used in three modes, as a head or helmet mounted mobility sight; a hand held observation sight, or a weapon mounted sight working independently, or in conjunction with a Red Dot CQB Reflex Sight.

**MERLIN-C** can be used as a head/helmet mounted mobility / driving sight with twin

monocular sights mounted in a side-by-side (binocular) configuration.

**MERLIN-C** is compatible with a variety of Image Intensifier Tube options, including Gen 2 and Gen 3.

#### MERLIN-C - Features

- x1 Magnification with Afocal Adaptor Options x3, 4 and 5
- Multi Role Monocular Night Vision
- Sight Automatic Brightness Protection
- Ruggedized Military Design

**MULTI-ROLE** – The **MERLIN-C** is a multi role Monocular Night Vision Sight that can be used in three modes, as a head or helmet mounted mobility sight; a hand held observation sight, or a weapon mounted sight working independently, or in conjunction with a Red Dot CQB Reflex Sight. The MERLIN-C can be used as a head/helmet mounted mobility / driving sight with twin monocular sights mounted in a side-by-side (binocular) configuration. MERLIN-C is designed to be used by either the left or right eye without any product changes.

**LIGHTWEIGHT** – Compact multi role device reducing the need for additional equipment to be carried by the soldier and with a weight of only 279g.

**COMPATIBILITY** – **MERLIN-C** can be mounted to a variety of light weapon platforms. The MERLIN-C helmet mounting is compatible with a variety of military helmets, whilst the head mounting option provides comfortable use under military helmets.

#### IMAGE INTENSIFIER TUBE OPTIONS

The **MERLIN-C** is compatible with a variety of Image Intensifier options to satisfy customer performance and budgetary requirements.

#### CHARACTERISTICS

**Magnification:** x1with x3, x4, x5 Afocal Adaptors

**Field of View:** 40° (x1 Magnification)

**Weight:** (including batteries): <280g

**Tube:** Gen 2, Gen 3

**Batteries:** 1 x AA or 1 x AAA

**Battery Life:** >90 hours continuous operation @ 20°C Alkaline

**Operational Temperature Range:** -45°C to +55°C

**Accessories:** Protective eye cups, Soft carrying case, Lens cleaning cloth, Instruction/maintenance manual, Batteries, Storage/Transportation case



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## WEAPON SIGHT: IMAGE INTENSIFIER



## MERLIN-SR - In-Line Weapon Mounted Night Sight



**MERLIN-SR** (Short Range) is a lightweight night vision adaptor for military and law enforcement operators who want to retain the use of their existing day scopes.

**MERLIN-SR** is part of the MERLIN family of night vision products from Qioptiq utilising the latest optical technologies to deliver world leading performance and reliability.

### MERLIN-SR - Flexible Night Vision Capability

- Low profile in line clip-on configuration
- Lightweight and compact design
- Ruggedised and stable design

**MERLIN-SR** can be fitted with a wide range of standard and autogating image intensifier tube variants from US and European manufacturers.

**MERLIN-SR** is a high resolution collimated night sight for use in front of an existing day sight, providing the user with a 24 hr capability.

**MERLIN-SR** can be installed and removed without the need for re-zeroing.

**MERLIN-SR** ensures a high night time first round hit probability.

**MERLIN-SR** attaches via a quick release mount onto either a primary or secondary picatinny rail attached to the weapon (other mounting options are available).

**MERLIN-SR** is powered from 1 commercially available 1.5V AA battery which provides up to 40 hours continuous use.

**MERLIN-SR** controls are easily accessible by the user.

### CHARACTERISTICS

**Magnification:** x1

**Field of View:** 17°

**Detection Range - Man:** Clear Starlight - 730m  
Moonlight - 1589m

**Weight:** (excluding lens cap & rubber boot)  
<820g

**Dimensions:** 163mm (L) x 89mm (W)  
x 63mm (H)

**Batteries:** 1 x 1.5V AA

**Battery Life:** >40 hours continuous operation  
@ 20°C Lithium

**Image Intensifier Tube:** 18mm XR5

**Boresight Alignment:** <0.5 MOA  
(Factory Set)

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## WEAPON SIGHT: IMAGE INTENSIFIER



## MERLIN-MR - In-Line Weapon Mounted Night Sight



**MERLIN-MR** (Medium Range) is a lightweight night vision adaptor for military and law enforcement operators who want to retain the use of their existing day scopes.

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### **MERLIN-MR - Flexible Night Vision Capability**

- Low profile in line clip-on configuration
- Lightweight and compact design
- Ruggedised and stable design

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**MERLIN-MR** is a high resolution collimated night sight for use in front of an existing day sight, providing the user with a 24 hr capability.

**MERLIN-MR** can be installed and removed without the need for re-zeroing.

**MERLIN-MR** ensures a high night time first round hit probability.

**MERLIN-MR** attaches via a quick release mount onto either a primary or secondary picatinny rail attached to the weapon (other mounting options are available).

**MERLIN-MR** is powered from 1 commercially available 1.5V AA battery which provides up to 40 hours continuous use.

**MERLIN-MR** controls are easily accessible by the user.

### CHARACTERISTICS

**Magnification:** x1

**Field of View:** 13°

**Detection Range - Man:** Clear Starlight - 836m  
Moonlight - 1779m

**Weight:** (excluding lens cap & rubber boot)  
<1060g

**Dimensions:** 202mm (L) x 97mm (W)  
x 74mm (H)

**Batteries:** 1 x 1.5V AA

**Battery Life:** >40 hours continuous operation  
@ 20°C Lithium

**Image Intensifier Tube:** 18mm XR5

**Boresight Alignment:** <0.5 MOA  
(Factory Set)

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## WEAPON SIGHT: IMAGE INTENSIFIER



## MERLIN-LR - In-Line Weapon Mounted Night Sight



**MERLIN-LR** (Long Range) is a lightweight night vision adaptor for military and law enforcement operators who want to retain the use of their existing day scopes.

**MERLIN-LR** is part of the MERLIN family of Night Vision Products from Qioptiq utilising the latest optical technologies to deliver world leading performance and reliability

### **MERLIN-LR - Flexible Night Vision Capability**

- Low profile in line clip-on configuration
- Lightweight and compact design
- Ruggedised and stable design

**MERLIN-LR** can be fitted with a wide range of standard and autogating image intensifier tube variants from US and European manufacturers.

**MERLIN-LR** is a high resolution collimated night sight for use in front of an existing day sight, providing the user with a 24 hr capability.

**MERLIN-LR** can be installed and removed without the need for re-zeroing.

**MERLIN-LR** ensures a high night time first round hit probability.

**MERLIN-LR** attaches via a quick release mount onto either a primary or secondary picatinny rail attached to the weapon (other mounting options are available).

**MERLIN-LR** is powered from 2 commercially available 1.5V AA batteries which provide over 90 hours.

**MERLIN-LR** controls are easily accessible by the user.

### CHARACTERISTICS

**Magnification:** x1

**Field of View:** 8.75°

**Detection Range - Man:** 1/4 Moon - 2040m  
Moonlight - 2940m

**Weight:** (excluding lens cap, rubber boot & batteries) <1500g

**Dimensions:** 250mm (L) x 93mm (W) x 105mm (H)

**Batteries:** 2 x 1.5V AA

**Battery Life:** >90 hours continuous operation @ 20°C Alkaline

**Image Intensifier Tube:** 18mm XR5

**Boresight Alignment:** <0.5 MOA (Factory Set)

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## WEAPON SIGHT: IMAGE INTENSIFIER



## KITE - Weapon Mounted Night Sight



**KITE** is part of a family of highly successful night vision sights currently in-service with more than 50 countries worldwide.

**KITE** is a compact and lightweight military standard night vision sight designed specifically for short-medium range surveillance and target engagement.

- In service with over 50 countries
- Compact and lightweight
- Fully qualified and ruggedised
- x4 magnification
- Image intensifier tube options
- Suitable for short-medium range weapons

The fully ruggedised and qualified design offers x4 magnification and a high resolution image to allow effective operation during lowlight conditions. Image Intensifier options including high performance European or US tubes are available.

**KITE** is particularly suited for use on shorter range / smaller calibre 5.56mm and 7.62mm weapons. Interface brackets are available to mount to a wide variety of weapons.

Power is derived from 2 commercially available 1.5V AA batteries providing over 100 hours of continuous use. The eyeguard is compatible with a wide range of NBC clothing and in-service respirators.

**KITE** is supplied complete with transit case, carrying pouch, lens cloth, user handbook, spare batteries, ND filter and zeroing screwdriver.

**KITE's** excellent performance is supported by a simple maintenance philosophy, which permits rapid replacement of modular sub assemblies.

**KITE** is available in two variants offering fixed and variable eyepiece configurations Mk4 - fixed eyepiece dioptre, Mk6 variable eyepiece dioptre.

### CHARACTERISTICS

**Magnification:** x4

**Field of View:** 9°

**Detection Range - Man:** (Performance is determined by the type of II tube fitted)

|                              |       |
|------------------------------|-------|
| Clear Starlight (1 millilux) | 526m  |
| Moonlight (100 millilux)     | 3269m |

**Weight:** (including batteries)  
<1000g (Fixed Dioptre)

**Dimensions:** 210mm (L) x 80mm (W) x 105mm (H)

**Batteries:** 2 x 1.5V AA

**Battery Life:** >100 hours depending on circumstances

### Eyepiece Dioptre:

Mk4 Fixed @ -1 ±0.35 dioptre

Mk6 Adjustable @ +2 to -6 dioptres

**Focus Range:** 15m to Infinity

**Eye Relief:** 30mm

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## WEAPON SIGHT: IMAGE INTENSIFIER



## MAXIKITE-1 - Weapon Mounted Night Sight



**MAXIKITE-1** is part of a family of highly successful KITE night vision sights currently in service with more than 50 countries worldwide.

**MAXIKITE-1** is a compact and lightweight military standard night vision sight designed specifically for medium-long range surveillance and target engagement.

- In service with over 50 countries
- Compact and lightweight
- Fully qualified and ruggedised
- x6 magnification
- Image intensifier tube options
- Suitable for medium-long range weapons

The fully ruggedised and qualified design offers x6 magnification and a high resolution image to allow effective operation during lowlight conditions. Image Intensifier options including high performance European or US tubes are available.

**MAXIKITE-1** Offers superior range performance due to its longer focal length and outsized objective aperture optimised to interface with vehicle mounted or static positions on medium to heavy weapons systems.

Power is derived from two commercially available 1.5V AA batteries providing over 100 hours of continuous use. The eyeguard is compatible with NBC clothing and in-service respirators.

**MAXIKITE-1** is simple to operate and its excellent performance is supported by a simple maintenance philosophy, which permits rapid replacement of modular sub assemblies.

**MAXIKITE-1** is supplied complete with transit case, carrying pouch, lens cloth, user handbook, spare batteries, ND Filter and zeroing screwdriver.

**MAXIKITE-1** is available in two variants offering fixed and variable eyepiece configurations Mk4 - fixed eyepiece dioptre, Mk6 variable eyepiece dioptre.

### CHARACTERISTICS

**Magnification:** x6.7

**Field of View:** 5.3°

**Detection Range - Man:** (Performance is determined by the type of II tube fitted)  
 Clear Starlight (1 millilux) 784m  
 Moonlight (100 millilux) 5647m

**Weight:** (including batteries)  
 <1700g (Fixed Dioptre)

**Dimensions:** 400mm (L) x 120mm (W) x 120mm (H)

**Batteries:** 2 x 1.5V AA

**Battery Life:** >100 hours depending on circumstances

### Eyepiece Dioptre:

Mk4 Fixed @ -1 ±0.35 dioptre  
 Mk6 Adjustable @ +2 to -6 dioptres

**Focus Range:** 25m to Infinity

**Eye Relief:** 30mm

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## WEAPON SIGHT: IMAGE INTENSIFIER



## MAXIKITE-2 - Weapon Mounted Night Sight



**MAXIKITE-2** is part of a family of highly successful KITE night vision sights currently in service with more than 50 countries worldwide.

**MAXIKITE-2** is a compact and lightweight military standard night vision sight designed specifically for medium-long range surveillance and target engagement.

- In service with over 50 countries
- Compact and lightweight
- Fully qualified and ruggedised
- x6 magnification
- Image intensifier tube options
- Suitable for medium-long range weapons

The fully ruggedised and qualified design offers x6 magnification and a high resolution image to allow effective operation during lowlight conditions. Image Intensifier options including high performance European or US tubes are available.

**MAXIKITE-2** Optimised to integrate with the sharpshooters and section support weapons. Interface brackets are available to mount to a wide variety of weapons.

Power is derived from two commercially available 1.5V AA batteries providing over 100 hours of continuous use. The eyeguard is compatible with NBC clothing and in-service respirators.

**MAXIKITE-2** is simple to operate and its excellent performance is supported by a simple maintenance philosophy, which permits rapid replacement of modular sub assemblies.

**MAXIKITE-2** is supplied complete with transit case, carrying pouch, lens cloth, user handbook, spare batteries, ND Filter and zeroing screwdriver.

**MAXIKITE-2** is available in two variants offering fixed and variable eyepiece configurations Mk4 - fixed eyepiece dioptre, Mk6 variable eyepiece dioptre.

### CHARACTERISTICS

**Magnification:** x5.2

**Field of View:** 6.8°

**Detection Range - Man:** (Performance is determined by the type of II tube fitted)

|                              |       |
|------------------------------|-------|
| Clear Starlight (1 millilux) | 613m  |
| Moonlight (100 millilux)     | 4612m |

**Weight:** (including batteries)  
<1500g (Fixed Dioptre)

**Dimensions:** 260mm (L) x 95mm (W) x 95mm (H)

**Batteries:** 2 x 1.5V AA

**Battery Life:** >100 hours depending on circumstances

### Eyepiece Dioptre:

Mk4 Fixed @ -1 ±0.35 dioptre

Mk6 Adjustable @ +2 to -6 dioptres

**Focus Range:** 25m to Infinity

**Eye Relief:** 30mm

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## GOOGLE: IMAGE INTENSIFIER



## MERLIN-G - (Goggle) Binocular Night Vision Sight



**MERLIN-G** is a lightweight Binocular Night Vision Sight designed for use within military environments.

**MERLIN-G** can be fitted with a variety of Afocal Adaptor Lenses to provide x3, x4 or x5 magnification and extended range.

**MERLIN-G** can be used as a head mounted, helmet mounted or hand held night surveillance or mobility sight.

**MERLIN-G** is compatible with a variety of Image Intensifier Tube options including Gen2 and Gen3.

### **MERLIN-G - Features**

- x1 Magnification with Afocal Adaptor Options x3, 4 and 5
- Built in IR Illuminator
- Automatic Brightness Protection
- Ruggedised Military Design

**MULTI-ROLE – MERLIN-G** can be provided with Afocal Adaptor Lenses to provide x3, x4 or x5 magnification and extended range. The Afocal Adaptors provide the option to use the MERLIN-G as a long range surveillance sight.

**FLEXIBILITY – MERLIN-G** can be used as a head mounted, helmet mounted or hand held night surveillance or mobility sight.

**COMPATIBILITY – The MERLIN-G** helmet mounting is compatible with a variety of military helmets, whilst the head mounting option provides comfortable use under military helmets. Interpupillary adjustment is provided within the eyepiece.

### **IMAGE INTENSIFIER TUBE OPTIONS**

The **MERLIN-G** is compatible with a variety of Image intensifier tube options to include Gen2 & Gen3, to satisfy performance and budgetary requirements.

### **CHARACTERISTICS**

**Magnification:** x1 with x3, x4, x5 Afocal Adaptors

**Field of View:** 40° (x1 Magnification)

**Weight:** (including batteries): <480g

**Tube:** Gen 2, Gen 3

**Dimensions:** 250mm (L) x 93mm (W) x 105mm (H)

**Batteries:** 2 x AA

**Battery Life:** >90 hours continuous operation @ 20°C Alkaline

**Image Intensifier Tube:** 18mm XR5

**Boresight Alignment:** <0.5 MOA (Factory Set)

**Accessories:** Weapon mount, Lens Cap, Carrying Pouch, Transit Case, Instruction Card, User Manual, Carrying Strap, Lens Cleaning Kit



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## SURVEILLANCE: UNCOOLED THERMAL IMAGER



### VIPIR-2S+ - Hand Held Thermal Surveillance Sight



VIPIR-2S+ is part of a family of compact and lightweight thermal sights utilising low power uncooled IR camera technology.

VIPIR-2S+ is a compact and lightweight military standard thermal sight designed specifically for medium-range surveillance and target observation.

- Low powered uncooled technology
- Compact and lightweight
- Fully qualified and ruggedised
- x3.6 magnification
- x2 electronic zoom
- 24 hour operational capability
- Suitable for short-medium range surveillance

The fully ruggedised and qualified design offers image optimisation features and a 24 hour operational capability.

VIPIR-2S+ utilises uncooled thermal imaging technology to provide a superior performance to weight/size ratio.

The low power consumption of this technology allows VIPIR-2S+ to operate with only 4 commercially available AA batteries, greatly reducing through life costs.

VIPIR-2S+ controls include:

- Electronic zoom
- Aiming mark selection / adjustment
- Automatic and manual gain and level
- Polarity and display brightness

#### CHARACTERISTICS

**Magnification:** x3.6, x7.2 (electronic zoom)

**Field of View:** 6.75° HFOV

**Detection Range - Man:** x3.6 Mag - 2370m  
x7.2 Mag - 2640m

**Weight:** (excluding batteries & tripod mount)  
<1095g

**Dimensions:** 286mm (L) x 100mm (W)  
x 94mm (H)

**Detector type:** 8-12  $\mu\text{m}$ , 320 x 240 pixel,  
38  $\mu\text{m}$  pitch FPA

**Batteries:** 4 x 1.5V AA

**Battery Life:** >7 hours continuous operation  
@ 23°C – Lithium

**Features:** RS232 comms, Video out, External  
power source

**Accessories:** Tripod mount, Lens Cap, Carrying  
Pouch, Transit Case, Instruction Card, User  
Manual, Neck Strap, Lens Cleaning Kit

**Optional accessories:** Interface Cable (external  
power, serial communications & video)



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## SITUATIONAL AWARENESS - DISPLAY SYSTEMS



## SMMI - System Man Machine Interface

The **SMMI** is a lightweight, low power hand held display and control device that provides the user with quick access to information including situational awareness, navigation, mapping, mission planning and other information that requires rapid access on the move.

- Compact & lightweight
- Single handed operation
- Low power
- Digital magnetic compass
- USB architecture
- SVGA resolution full colour
- Covert operation

The **SMMI** incorporates 7 controls that can be individually mapped via USB to allow optimum flexibility.

The **SMMI** can be fitted with a 3 axis Digital Magnetic Compass (DMC) to provide the user with the ability to navigate and determine his orientation, or the orientation of other features.

The **SMMI** provides the optimum solution for any user with the requirement to access data on the move 24 hours a day.

In recognition of the growing need to provide the dismounted and mounted war fighters with up to date command & control, situational awareness and other mission critical information, the SMMI provides the user with a lightweight, easy to use display controller that provides rapid access to information on the move, therefore allowing the user to focus on the mission.

The ergonomic design of the **SMMI** allows the user to access and control the SMMI with a single hand (either left or right handed) allowing him to retain control of weapons or other equipment.

### The SMMI comprises of:

- 800x600 pixel resolution full colour display
- User adjustable display brightness control
- 30° FoV Eyepiece with dioptr adjustment
- Eyecup switch for covert operation and power saving 3 Axis digital magnetic compass (optional)
- USB communication protocol
- 7 individually programmable controls (USB)
- Single cable connection to host PC / platform (Fully Screened)
- Lightweight aluminium construction
- Environmentally sealed & rugged design

### CHARACTERISTICS

**Weight:** <350g (excluding cable)

**Dimensions:** 155mm x 75mm x 35mm

**Power consumption:** <0.5W

**Dioptric Adjustment Range:** -4 to +2 Dioptre



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## LOGISTIC CUSTOMER SERVICES



**The Qioptiq Mission:** To deliver a fully integrated support service that totally satisfies the customers' needs.

Qioptiq has the skills, experience and commitment to meet the challenges of Customer Services – today and in the future.

- Tailored to provide flexible, cost effective, customer-focused services
- Applied by experienced, highly trained staff with widely acknowledged expertise in all aspects of support

- Working in partnership with the customer to drive down costs across the life of the equipment
- Maximise equipment availability
- Guarantee continuous through-life customer service



## 'GLOBAL PRESENCE...

## ...FAR REACHING CAPABILITIES'



**2,100 Qioptiq employees work at our 11 sites around the world.**  
**For more information visit**  
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All of our sites are ISO 9001 certified – Three sites are ISO 14001, Rev C certified and One site is ISO 13485 certified

