EXCELITAS TECHNOLOGIES®

QIOPTIQ An Excelitas Technologies Company

MERLIN-LR 2

Image Intensifier Clip-On Weapon Sight

MERLIN-LR 2 is a new Long Range Image Intensified Clip-On Weapon Sight product development from Excelitas.

MERLIN-LR 2 is a fully qualified military Weapon Sight designed to be compatible with variable magnification day scopes for Medium to Longer range surveillance and target engagement.

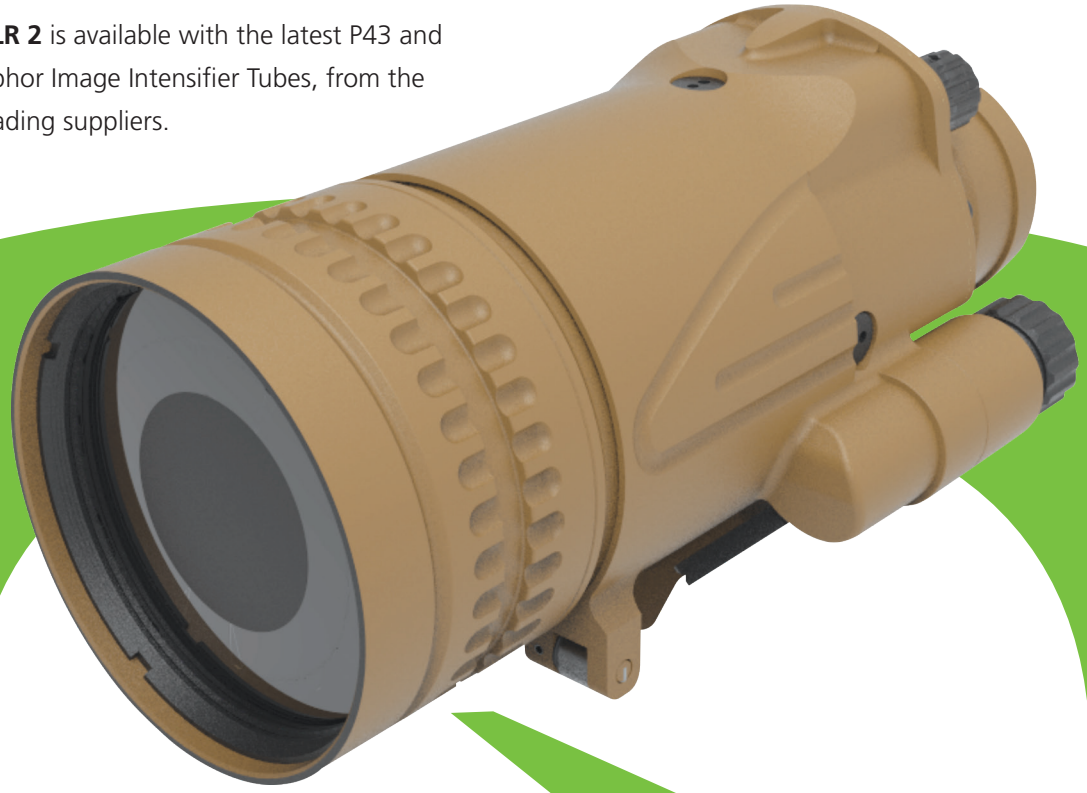
MERLIN-LR 2 attaches to Picatinny style rails in front of the day sight via a locking quick release throw lever, providing 24hr capability without the need to remove or re-zero the day sight.

MERLIN-LR 2 is available with the latest P43 and P45 phosphor Image Intensifier Tubes, from the world's leading suppliers.

MERLIN-LR 2 is equipped with a high performance catadioptric objective lens and a bright, sharp, large aperture collimating optics to give a lightweight, compact yet rugged package.

MERLIN-LR 2 is suitable for a wide variety of weapon systems:

- Self-Loading AR Platforms
- Designated Marksman Rifles
- Single Action Sniper Systems
  (Up to and including 12.7mm/0.50 Calibre)



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MERLIN-LR 2
Image Intensifier Clip-On Weapon Sight

Technical Data

Image Intensifier:
High Performance Catadioptric Objective
Field of View: >6° circular
Focal Length: 110mm
Aperture: F/1.62 (F/1.93 effective)
Focus Range: 25m to ∞
Durable Anti-Reflection optical coating
P43, P45 Phosphor options available
Large Aperture 36mm Eyepiece/Collimating Optic

Resolution
(Typical Resolution, 2000 FoM, x12 Magnification)
Moonlight (100mlx) 7.0 cy/mrad
Starlight (1mlx) 4.1 cy/mrad

Magnification
x1
Controls and Functionality
Start Time: < 1 second
Functionality: On/Off, Gain, Focus

I/O Port
RS232 Comms, Remote Control Interface

Power
1 x 1.5v AA Cell
Polarity Protection
Typical 50 hrs continuous operation

Weapon Interface
Single throw lever with secondary lock.
Fully compatible with MIL-STD-1913 / STANAG 4694

Weapon Suitability
Self-Loading AR Platforms
Designated Marksman Rifles
Single Action Sniper Systems including 12.7mm (.50 calibre)

Nominal dimensions:
L193mm x W 97mm x H 85mm (above rail)

Mass on Weapon: 950g – Includes:
MERLIN LR Weapon Sight
1 x AA Lithium Cell
Lens cap and light security shroud.

Finish:
Various paint options available

Environmental

DEF Stan 00-35 Part 3 (Environmental)
Temperature (Operating)
Temperature (Storage)
Thermal Shock
Solar Radiation
Shock – Drop Test (Sight Alone, Field Pouch and Logistical)
Shock – Vibration (Fixed Wing Propeller, Rotary Wing, Trackedand Wheeled Vehicle)
Low Air Pressure and Transportation
Chemical and Biological (Resistance and Decontamination)
Dust and Sand (Wind Blown)
Water Immersion (20m)
Driving Rain
Mist, Fog and Low Cloud
Salt Atmosphere
Mould Growth

DEF Stan 08-41 Part 1/1 (Chemical and Biological)
Chemical and Biological Hardening
Decontamination – In Service decontaminants

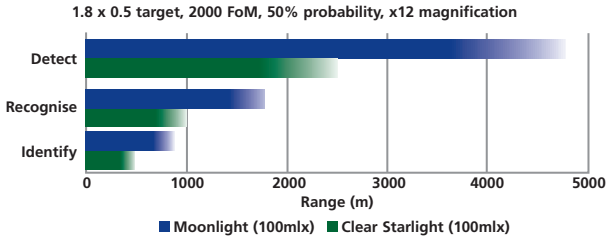
DEF Stan 59-411 Part 3 (Electro-Magnetic Effects)
Electro Magnetic Compatibility – Emissions and Susceptibility

Package

Standard:
Merlin LR Weapon Sight
Lens Cap and Light Secure Shroud
Transportation Case and Field Pouch
Operators Manual
Lens Cleaning Kit

Options:
Remote Control
Daylight Training Filter

Range Performance



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