

# **TALON**

## Fused Weapon Sight Image Intensifier / Thermal Imager

**TALON** is the new dual channel optically Fused Weapon Sight product development from Excelitas providing the Dismounted Close Combat User with an enhanced, multi waveband Detect, Recognise & Identify capability.

**TALON** is a fully qualified military Weapon Sight designed specifically for short and medium range surveillance and target engagement.

**TALON** attaches to Picatinny or NATO accessory rails in front of the day sight via a quick release throw lever, providing 24hr capability without the need to remove or re-zero the day sight.

**TALON** combines the latest Image Intensification and uncooled Thermal Imaging capability in a single lightweight, compact yet rugged package.

**TALON** is fitted with a 12µm, 60Hz uncooled thermal sensor coupled with a near silent shutter, delivering class leading sensitivity, uniformity and system latency in an ITAR free package.

**TALON** is fitted with a 4G Image Intensifier tube from PHOTONIS

**TALON** provides a low power architecture and is operated from just 2 commercially available Lithium AA batteries .



# TALON

## Fused Weapon Sight Image Intensifier / Thermal Imager

### Main Features

#### Thermal Imager:

**Sensor:** 12µm, 60 Hz VOx (ITAR free) Near silent shutter  
**Field Of View:** 9.5 x 7.2°  
**Focus Range:** 15m to ∞ (fixed focus)  
 Diamond Like Carbon (DLC) Anti-Reflection optical coating

#### Image Intensifier:

**Field of View:** 11.8° circular  
**Focus Range:** 15m to ∞  
 Durable Anti-Reflection optical coating  
**Image Intensifier Tube:** PHOTONIS 4G –  
 Green or White Phosphor

**Display Type:** OLED, full color, 1280 x 1024

**Magnification:** x1

#### Controls and Functionality:

Modes: Off / I² / Blend / TI / Menu  
 Functionality: Blend Adjust, Brightness, Polarity, NUC,  
 Outline, Edge

**I/O Port:** RS232 Comms, External Power, Video Out (PAL/NTSC)  
 Standard: TI Video Out

**Power:** 2 x 1.5v AA Cells  
 Polarity Protection  
 >7hrs continuous operation, Fused Mode  
 >24hrs continuous operation, I² Mode

**Nominal dimensions:** 123mm (L) x 80mm (W) x 72mm (H)

**Weight:** 650g - Includes:  
 TALON Weapon Sight including rail grabber lens cap and light  
 security shroud. 2 x AA Lithium Batteries

**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, Tracked  
 and 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:

TALON Weapon Sight, Lens Cap, Light Secure Shroud,  
 Transportation Case, Field Pouch, Operators Manual, Lens  
 Cleaning Kit, 2 x AA Lithium Cells

**Options:** Multi-Function Remote Control,  
 Daylight Training Filter

### Range Performance

1.8 x 0.5 target, 50% probability, x4 magnification

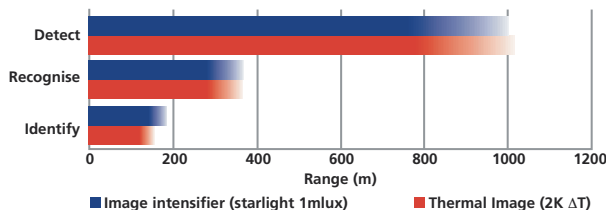


IMAGE INTENSIFIER



THERMAL + THRESHOLD



FUSED I2-TI  
+ TI OUTLINE



FUSED I2-TI  
+ OUTLINE ONLY



#### For technical information contact:

Qioptiq Limited  
[sales@uk.qioptiq.com](mailto:sales@uk.qioptiq.com)  
 phone +44 (0)1745 588000  
[www.qioptiq.com](http://www.qioptiq.com)