

**argus™**  
LITE **4**



**The Argus4 Lite + DSC Option has all the features of the Argus 4 LITE (P7030/LT) which include:**

- Tri-Mode Sensitivity for increased temperature range performance
- Color battery level indicator and User replaceable external fittings.

It also comes with Dynamic Scene Colorization. (DSC) . Colorizes the thermal image to allow the firefighter to pinpoint the hottest areas within the fire scene and is set up by the use of a supplied remote control.

Plus the following standard accessories:

- Soft carry bag
- Side straps
- One rechargeable battery
- AC or DC battery charger
- Operating instructions

The Argus4 LITE P7030/LT/C thermal imaging camera is a low cost, high quality solution to meet the needs of every firefighter. The Argus4 LITE uses the same highly successful Amorphous Silicon (ASi) Microbolometer Detector used in the Argus4 but allows the end-user to customize their camera to the features they require.

The Argus4 LITE is a simple to operate, robust, self-contained camera, which has fully automatic operation; no control or adjustment, is required in use. The camera has been specifically designed to help firefighters to see through smoke, identify and rescue casualties and locate hot spots or the seat and spread of the fire.

The Argus4 LITE is constructed from high quality Radel®R- 5100, which has been chosen for its strength, resistance to heat, water and impact. Protection from shock is provided by a combination of rugged components, optimum mechanical design and protective

bumpers. The camera is sealed to allow short-term total immersion in water (IP67).

No end-user maintenance is required other than recharging of batteries and post-use external cleaning with a soft cloth. Power for the Argus4 LITE is provided by an integral battery pack located on the top of the camera. The camera has a single on/off button with a delayed off operation to prevent accidental power-down during use. The camera will display a start-up screen until a usable thermal image is produced.

## **OPTIONAL FEATURES**

The Argus4 LITE can be supplied with the same advanced features available on the standard Argus4. These features include:

- Direct Temperature Measurement (DTM) Displays both the temperature of objects within a defined area of the thermal scene and also the ambient temperature of the environment using a sensor mounted on the front of the camera.

The above features can be supplied with the camera at time of purchase or added as an after sales upgrade.

## **WARRANTY**

- The camera is supplied with a 2-year warranty as standard.
- Warranty can be extended for up to three years at time of purchase.

## **CONFIGURATION**

Camera Order Code  
Argus4 Lite + DSC Option P7030/LT/C

Optional Accessories Order Code

- Station Battery Charger P7030BC and P7030CS
- Truck Battery Charger P7030TBC
- Truck Storage Mount P7030TSM
- Truck Storage Mount and  
• Battery Charger P7030TSMBC
- Rechargeable Battery Pack P7030R
- Handle P7030HA
- Neck Strap P7030NS
- Retractable Lanyard P7030RL
- Hard Carry Case P7030HC

## **CAMERA SPECIFICATION**

### **Compliance Data**

RFI/EMC Conducted

Emissions - BS EN 61000-6-3:2001 Class B FCC CFR-47 Part 15

Radiated Emissions - BS EN 61000-6-3:2001 Class B FCC CFR-47 Part 15

Electrostatic Discharge - BS EN 61000-6-1:2001 Class B

Safety IEC 60950-1 and related national standards Vibration/Shock BS EN 60721-3-2 Class 2M3.

Restriction of the use of Hazardous Substances in electrical and electronic equipment (RoHS)

All parts of the system are compliant with EU directive 2002/95/EC

### **Environmental Data**

Thermal conditions - The camera has been designed to operate for:

- 45 minutes at 80 °C (176 °F)
- 15 minutes at 150 °C (300 °F)
- 7 minutes at 260 °C (500 °F)
- Minimum operating temperature is -10 °C (14 °F)

Sealing - The camera is sealed to allow short-term immersion in water (IP67)

Impact - The camera has been designed to withstand a drop from a height of 2 metres (78 inches).

Vibration - The camera has been design to withstand transportation vibration defined by BS EN 60721-3-2 Class 2M3.

Storage - The camera can be stored for extended periods. It is recommended that for maximum effective operational life, the storage temperature is kept between -10 °C and +40 °C (14 °F and 104 °F) and the camera is retained in its carry case when not in use.

### **Optical Data**

#### **Detector**

Sensor type - Uncooled Microbolometer

Sensor material - Amorphous Silicon (ASi)

Resolution - 160 x 120

Spectral response - 7 – 14 µm

MDTD - (Minimum Discernable Temp Difference) < 0.1 °C

Dynamic range - -40 °C to 800 °C (-40 °F to 1480 °F) using 3 ranges with auto-switching between ranges.

Refresh rate - 30 Hz

Spot temperature range - -40 °C to 800 °C (-40 °F to 1480 °F)

Ambient temperature range - -15 °C to 150 °C (5 °F to 300 °F)

## **Lens**

Lens material - Germanium

Focal length - 6 mm

Focal distance - 1 m to infinity, optimized at 4 m (3 feet to infinity, optimized at 13 feet)

Horizontal aperture - f/1.0

Field of view - 50° horizontal

## **Viewing**

Display type - Transflective, active matrix color TFT

Display size - 90 mm (3.5 inches)

Backlight - White LED

## **Mechanical Data**

Overall dimensions (H x W x D) - 130 mm x 185 mm x 185 mm (5.1 x 7.2 x 7.2 inch)  
(nominal)

Weight without battery - < 1.2 kg (2.6 pounds)

with battery - < 1.5 kg (3.3 pounds)

## **Materials**

Outer camera case - Radel®R-5100

Rear bumper - Multiflex®

Front bumper - Multiflex®

Neck strap - Nomex®

Side straps - Nomex®

## **Electrical Data**

### **Power Supply**

Power consumption - 3 W typical

Start-up time - <5 seconds

### **Battery**

Type - Ni-MH Rechargeable Battery Capacity - 2300 mAH

Battery life - 4 hours @ ambient temperature (22 °C, 72 °F)

Charge time - 2 hours nominal

Recharge cycles - 500 @ 80% capacity

Length - 125 mm (4.8 inches) nominal

Width - 55 mm (2.2 inches) nominal

Height - 50 mm (2 inches) nominal

Net weight - 220 g (0.1 pounds) nominal

Charging temperature - 0 °C – 40 °C (32 °F – 104 °F) 65 °C (150 °F) can be tolerated

Sealing - IP56