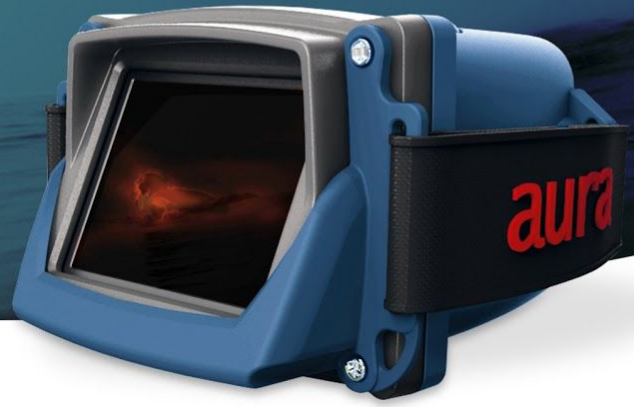


saving lives at sea



## aura™ SAR

The new upgraded 2018 aura™ SAR handheld thermal imaging camera.

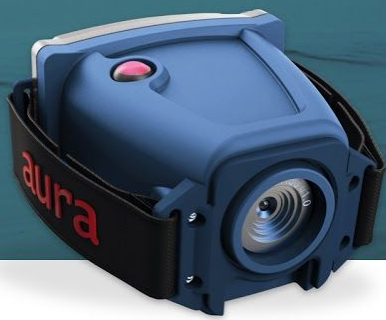
Helping you to see the unseen for man overboard, piracy, and urban search and rescue, one of the smallest and lightest handheld thermal imaging cameras available.

The aura™ Camera has been a flagship product for the company for many years with its ability to go anywhere and unrivalled dependability.

With its 3.5" LCD display and dynamic mode sensing, the aura™ SAR gives crystal clear definition. Developed with an internal lithium ion battery, it offers a working duration of up to 8 hours before recharging is required. At 730g the aura™ SAR is without doubt, one of the lightest handheld thermal imaging cameras available today.

When temperature is important to the wearer, we have available spot temperature measurement with 4 colour maps, with single button configuration making for easy operation. The aura™ SAR can be attached with a lanyard and used within the hand with the ability to be utilised between colleagues quickly for sharing information.

- The lightest camera in operation, weighing in at only 730g
- Ultra small form design
- 320x240 pixel sensor @ 60Hz
- 3.5" LCD display
- Secure hand-held position
- Boot time < 5 seconds
- 8 hours of battery life with a smart, lithium ion battery. Charge from any USB port.
- Simple colour modes with single-button configuration makes for easy operation
- X2 and X4 Zoom
- Camera saves up to 100 image captures
- Simple image playback in camera
- Download images to a PC with no extra software



# technical specification

## Mechanical Data

|                     |                                            |
|---------------------|--------------------------------------------|
| Camera Dims (HxWxD) | 88mm x 145mm x 117mm                       |
| Camera Weight       | 730g with battery                          |
| Main Camera Body    | Radel® R-5100<br>and Santoprene®           |
| Display Window      | Lexan® CTGXT Anti fog coated polycarbonate |

## Compliance Data

|           |                   |
|-----------|-------------------|
| Emissions | EN 61000-6-3:2007 |
| Immunity  | EN 61000-6-2:2005 |

## Optical Data

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Sensor Type             | Uncooled Microbolometer with Digital Processing, Pixel Smoothing              |
| Resolution              | 320 x 240 array                                                               |
| Sensing Material        | Vanadium Oxide (Vox)                                                          |
| Spectral Response       | 7.5um – 13.5um                                                                |
| Thermal Stabilization   | -40°F to 175°F (-40°C to 80°C)                                                |
| Update Rate             | 30HZ                                                                          |
| Thermal Sensitivity     | <50mK                                                                         |
| Dynamic Range           | 1022°F (550°C) Nominal                                                        |
| Pixel Size              | 17µm                                                                          |
| Thermal Time Constant   | 10ms                                                                          |
| Video Polarity          | White-Hot, Black-Hot Selectable                                               |
| Relative Heat Indicator | Sliding Bar Scale, temperature to colour relationship and temperature readout |

## Lens

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| Lens Material | Germanium – Diamond hard high effective anti-reflection coating         |
| Focal Length  | 0.6m to infinity, optimised at 18m (3ft to infinity, optimised at 13ft) |
| Lens Size     | 35mm                                                                    |
| Field of View | 7.1° Vertical x 9.3° Horizontal                                         |
| Aperture      | f / 1.5                                                                 |

## Electrical Data

|                             |                                      |
|-----------------------------|--------------------------------------|
| Power Consumption           | 1.78W                                |
| Start Up Time               | 5 Seconds Typical                    |
| Battery Type                | Li-ion Rechargeable Battery          |
| Battery Life                | Up to 8 Hours @ ambient (22°C, 72°F) |
| Temperatures                | (22°C, 72°F)                         |
| Battery Charge Time         | Less than 3 hours to 95% Charge      |
| Battery Charging Temp       | 5°C to 40°C (41°F to 104°F)          |
| Charger Output Voltage      | 5V 2.2 AMP                           |
| Charger Operating Temp      | 0°C to 40 °C (32°F to 104°F)         |
| Battery Rechargeable Cycles | Over 1000 charge cycles              |
| Battery Weight              | 80g                                  |

## Display

|                |                 |
|----------------|-----------------|
| Type           | 3.5" LCD Screen |
| Dot Format     | 320 x 240 Dots  |
| Display Method | NTSC            |
| Back Light     | LED             |
| Brightness     | 300 cd/m2       |
| Viewing Angle  | 60°             |
| Zoom           | X2 and X4       |

## Environmental Data

|                    |                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal Conditions | The camera has been designed to operate continuously between -20°C (-4°) and 85°C (185°F) or 150°300°F for 15 minutes 260°C (500°F) for 7 minutes |
| Sealing            | IP67, will withstand short-term immersion in water                                                                                                |
| Impact             | The camera will withstand A drop from a height of 2m (78 inches) on to concrete                                                                   |
| Storage            | It is recommended that for maximum effective operational life, the storage temperature is kept between -20°C (-4°F) and +40°C (104°F)             |
| Warranty           | 24-month warranty as standard (exclusions apply)                                                                                                  |

*This specification is for the aura™ SAR Thermal Imaging Camera.  
Build Issue C Released December 2018*