

## aura™



### One of the smallest and lightest handheld thermal imaging cameras available.

The Aura™ handheld thermal imaging camera can shine in many different situations, helping you to see the unseen for tactical fire fighting, urban search & rescue, man overboard and piracy at sea.

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

With its 3.5" HD display and dynamic mode sensing, the Aura™ gives crystal clear definition. Developed with an internal lithium ion battery, it offers a working duration of 10 hours before re-charging is required. At 670g the Aura™ is without doubt, one of the lightest hand held 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™ can be clipped onto a tunic, attached with a lanyard and used within the hand with the ability to be utilised between colleagues quickly for sharing information.

- ✔ One of the smallest and lightest handheld thermal imaging cameras available
- ✔ 670g including battery
- ✔ 10 hours battery life
- ✔ 3.5" high definition display
- ✔ Snap shot function with image freezing for situation assessment
- ✔ Superior dynamic range
- ✔ Unique shutter scanning awareness
- ✔ Sacrificial display window available

Single button operation

3.5" high definition display



High impact casing



aura™

## Technical Specifications

### Mechanical Data

Camera Dims (HxWxD)	88mm x 145mm x 117mm
Camera Weight	670g with battery
Main Camera Body	Radel® R-5100 and Santoprene®
Display Window	Lexan* CTGXT Anti fog coated polycarbonate

### Compliance Data

Emissions	EMC BS EN 61000-6-3:2007
Immunity	EN61000-6-2:2005

### Optical Data

Sensor Type	Uncooled Microbolometer with Digital Processing, Pixel Smoothing
Resolution	160 x 120 array
Sensing Material	Amorphous Silicon (aSi)
Spectral Response	7.5 - 14 Microns
Thermal Stabilization	-40°F to 175°F (-40°C to 85°C)
Update Rate	30HZ
Video Output	NTSC
Thermal Sensitivity	<50mK / <0.05°C
Dynamique Range	1100°F (600°C) Nominal
Pixel Size	30µm
Thermal Time Constant	10ms
Video Polarity	White-Hot, Black-Hot Selectable
Relative Heat Indicator	Sliding Bar Scale, temperature to colour relationship and temperature readout
Super Red Hot	Colour above 500°F / 260°C

### Lens

Lens Material	Germanium – Diamond hard high effective anti reflection coating
Focal Length	1m to infinity, optimised at 4m (3ft to infinity, optimised at 13ft)
Lens Size	16mm
Field Of View	37.5° Vertical x 50° Horizontal
Focus Fixed	3 feet (1 metre) to infinity
Aperture	f / 1.0

### Electrical Data

Power Consumption	3.7V 650mAh
Start Up Time	5 Seconds Typical
Battery Type	Li-ion Rechargeable Battery
Std Battery Life	10 Hours @ ambient temperatures (22°C, 72°F)
Std Battery Charge Time	Less than 2 hours
Std Battery Charging Temp	5°C to 40°C (41°F to 104°F)
Charger Input Voltage	5V 1.0 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" High Definition Screen
Dot Pitch	188mm (V) x 160mm (H)
Dot Format	640 x 480 Dots
Display Method	NTSC
Back Light	LED
Brightness	400 cd/m²
Viewing Angle	51°
Zoom	none as standard

### Environmental Data

Thermal Conditions	The camera has been designed to operate: Continuously between -20°C (-4°) and 85°C (185°F) or 150°C (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)