

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 & rescue, One of the smallest and lightest handheld thermal imaging cameras available.

An aura™ Fire is also available for Fire & Rescue situation.

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 re-charging is required. At 730g the aura™ SAR 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™ 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



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TECHNICAL CAMERA SPECIFICATION

Mechanical Data

Camera Dims (H x W x D)	88mm x 145mm x 117mm
Camera Weight	730g 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	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
Dynamique 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	3.7V 480mAh
Start Up Time	5 Seconds Typical
Battery Type	Li-ion Rechargeable Battery
Battery Life	Up to 8 Hours @ ambient temperatures (22°C, 72°F)
Battery Charge Time	Less than 5 hours
Battery Charging Temp	5°C to 40°C (41°F to 104°F)
Charger Input 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/m ²
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°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) 24-month warranty as standard (exclusions apply)

