

Hand Held Thermal Imaging Camera

For Fire Departments, USAR Teams, Marine Environments

Saving Lives with Thermal Image Cameras

aura

The Aura rugged hand-held thermal image camera is small, light and robust. Built to firefighting standards, it enables the user to see through smoke, detect hot spots and search for casualties. This robust camera can also save lives at sea in 'man overboard' situations.

Weights just under 1½lb

3½" HD OLED display

Thermal Sensitivity <16mK

Programmable Start-Up Logo

Secure hand-held position

Smart lithium ion battery

10 hours of battery life

Simple one button operation

Software holds up to 1000 images



Military Spec Hardened Case

The small hand-held Aura TIC weighs just under 1½lb. Housed in a military spec hardened case, it has a 3½" OLED display which gives a sharper and brighter image definition than the standard LED display.

As well as a secure hand-held position the camera is also designed to easily clip on to a lanyard.

The camera operates with one single button, with easy navigation of the factory-fixed multiple display levels, with spot temperature (Fahrenheit), four color maps, battery and temperature gauge. The 51° wide angle lens and internal software give up to 1000 image captures and can be upgraded to video recording capability if required.



The Aura TI Camera is powered by an integral power pack capable of ten hours continual usage and will charge from flat to 50% in 2½ hours it comes with a truck charger option.

The camera comes complete with download cables and software. Servicing options give the capacity to update and upgrade the software.

www.dash-us.com | www.technicalrescueequipment.com



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Aura Technical Specification

Mechanical Data

Dimensions (HxWxD) 88mm x 145mm x 117mm
 Total Weight 1½lbs
 Camera Body Radel® R-5100 and Santoprene®
 Display Window Lexan® CTGXT Anti fog coated Polycarbonate

Compliance Data

Emissions EMC BS EN 6100-6-3:2007
 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) Brightness
 Update Rate 30HZ
 Video Output NTSC
 Thermal Sensitivity <50mK / <0.05°C
 Dynamique Range 1100°F (600°C)
 Pixel Size 30µm
 Thermal Time Constant 10ms
 Video Polarity White-Hot, Black Hot Selectable
 Relative Heat Indicator Sliding Bar Scale, temperature To color relationship and Temperature readout
 Super Red Hot Color above 500°F (260°C)

Lens

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

Electrical Data

Power Consumption 3.7v 650mAh
 Start Up Time 5 Seconds Typical
 Battery Type Li-on Rechargeable Battery
 Std Battery Life 10 Hours @ ambient temperatures (72°F, 22°C)
 Std Battery Charge Time Less than 2 Hours
 Std Battery Charging Temp 41°F to 104°F (5°C to 40°C)
 Charger Input Voltage 5v 1.0AMP
 Charger Operating Temp 32°F to 104°F (0°C to 40°C)
 Battery Recharge Cycles Over 1000 charge cycles
 Battery Weight 80gm

Display

Type 3½" High Definition Screen
 Dot Pitch 188mm (V) x 160mm (H)
 Dot Format 640 x 480 Dots
 Display Method NTSC
 Back Light LED
 400 cd/m²
 Viewing Angle 51°
 Zoom None as standard

Environmental Data

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

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