

Therm-App
 more to see.

**High-Resolution
 Mobile Thermal Imaging Device**

Therm-App™ transforms Android smartphones into powerful thermal cameras, featuring long-range night vision and high-resolution thermography.

This lightweight device clips onto your Android smartphone. Plug it in and your phone becomes a powerful night vision camera capable of displaying, recording and sharing thermal images, for any security, safety, farming, lifeguarding and wildlife observation applications. It will also run a whole new suite of exciting thermography applications such as veterinary, construction & air conditioning, electricity, maintenance, healthcare, and more.



Applications



Security and Safety

Equip law enforcement officers and guards with nighttime and bad-weather daytime vision to improve their safety by identifying potential threats.



Lifeguarding & Rescue

Track people in water, on the beach, climbing mountains or in any other environment.



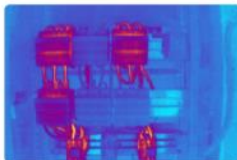
Construction & Air Conditioning

Locate construction defects and humidity, map water pipes, track insulation flow to decrease energy consumption and reduce expenditure.



Electricity Certification & Maintenance

Monitor and measure overheated elements for preventive diagnosis of electrical malfunctions.



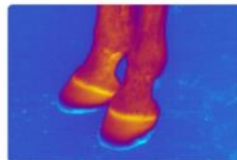
Industrial Applications

Carry out preemptive maintenance and quality control by detecting product irregularities and defects.



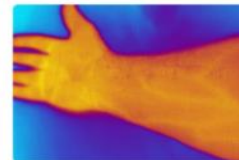
Wildlife Observation

Track and view animals from a distance.



Veterinary & Farming

Diagnose stress, trauma, and injury in horses and other livestock, locate herds and stray animals in the dark, and identify threats around the farm.



Healthcare

Non-invasive detection of inflammation and sources of pain, monitoring of localized conditions, and segregation of passengers with high fever.

TECHNICAL SPECIFICATIONS

HARDWARE	
Minimal Requirements	Android 4.1 and above, supporting USB OTG
Imager	384 x 288 microbolometer LWIR 7.5 - 14um
Optics	6.8mm lens (55° x 41°) 13mm lens (29°x 22°) 19mm lens (19°x14°) 35mm lens (11° x 8°)
Focus	Manual, 0.2m to infinity
Frame Rate	8.7Hz
Weight	138 grams / 4.86 ounces
Size	55 x 65 x 40mm (2.16 x 2.55 x 1.57in)
Operating Temperature	-10°C to +50°C (14°F to +122°F)
Storage Temperature	-20°C to +50°C (-4°F to +122°F)
Power Supply	No battery, 5V over USB OTG cable, power consumption < 0.5W
Certifications	CE, FCC, RoHS
Encapsulation	IP54
Mount/Handle	Ergonomic handle, using 1/4"-20 standard tripod mount
Device Attachment	Clip-on for smartphone (5 - 10cm span)

MEASUREMENT	
Resolution	384 x 288 pixels (>110,000 pixels)
Accuracy	+/- 3°C or 3% (@25°C)
Sensitivity	NETD <0.07°C
Temperature Range Calibration	5 - 90 °C

SOFTWARE	
Viewing Modes	<ul style="list-style-type: none"> Night Vision Thermography (Basic)
Output	Video & Audio (h.264), Snapshot
Color Palettes	Hot White / Hot Black / Iron / Rainbow / Grey / Vivid
Zoom	Continuous digital zoom using touchscreen
Software and feature updates	Yes (via Google Play)
Maintenance	Bad pixel repair utility

PRODUCT FEATURES

Superb Image Quality

With its 384 x 288, 17µ thermal detector, combined with our cutting-edge image processing algorithms, Therm-App® delivers clear crisp images vital for professional performance in the field, in any lighting or weather conditions.

Interchangeable Lenses

Capturing the images you need often depends on being able to match the optics used. Therm-App® offers this flexibility, with a range of lens options: 6.8mm, 13mm, 19mm and 35mm. Select the lenses that meet your needs – from wider FOV to long range detection.



Multiple Imaging Modes

Therm-App® combines two image processing modes: Night Vision optimizes hot object detection, while Thermography provides a clean and accurate basic temperature reading. Multiple color palettes are available for each imaging mode.

Easy to Use

No installation. No prior technical knowledge. Plug & Play. Simply download the Therm-App® application, clip the Therm-App™ device onto your Android device, plug in the USB cable and you're ready to explore the world in infrared!

