

# Therm-App<sup>®</sup> MD

more to see.

## Quick Start Guide



**Congratulations on purchasing Therm-App<sup>®</sup> MD for Thermography —**

The thermography camera that has changed the way thermal imaging technology works — onsite or on the move.

## **Your Therm-App® MD comes with the following items:**

- USB-OTG cables
- Quick start guide and warranty
- Single board Android computer

## **Read This First**

- The Therm-App® MD device should be connected to the single board computer (SBC) through the USB cable. The application the runs the Therm-App® MD is preinstalled on the SBC.
- Connect the SBC to a monitor through the HDMI plug and a mouse to a USB plug and run the ThermApp application.
- Attach the Therm-App® MD a tripod or any



other fixed stationary point by a  $\frac{1}{4}$  inch screw,  
and you are set to go.

- Attach the SBC to a fixed location.

## Take Note

- Therm-App® MD can work as well with a standard Android Cellphone by downloading the ThermApp application from Google play and running the application. The connection to the phone can be done by the USB OTG cables
- Connect all the cabling before you connect the SBC to the power supply.
- In case that the application is not installed on the SBC please contact Opgal and the application would be sent to you.
- After installing run the application connect the SBC to the internet and run the application, it would automatically download the calibration files.

## Compatibility

- Therm-App® MD was designed to work with the SBC and the preinstalled software.
- Therm-App® MD will only operate with mobile devices supporting USB OTG (also called USB host).
- Therm-App® MD requires a USB OTG cable supplied in the box.
- Therm-App® MD will operate on Android version 6 (Marshmallow) and up.



## Application Overview



Quick Access Menu



Temperature Range & Lock Buttons



Temperature Scale



Gallery




Image Recording



Video Recording

## Quick Tips

- To change the color palette, swipe the image right or left.
- To manually set the temperature range, press the temperature number at the end of the scale.
- To set the temperature threshold on “hot-red” and “cold-blue” palettes, press the temperature reading in the middle of the temperature scale.
- Double tap for a full screen view.
- Pinch the touch screen for digital zoom.
- To use the automatic temperature range, press the current temperature and then press the  button on the ruler.

**Note:** To obtain an accurate temperature reading, install the Therm-App ® MD of a fixed position and wait at least five minutes for system warmup.

# Terms and Conditions

## **Congratulations!**

You are now the owner of a new Therm-App® MD world class thermal imaging device which includes hardware and software components (the “Product”).

Please note that in order to use the Product, you need to attach it to a Compatible Mobile Device. A list of Compatible Mobile Devices is located at: <http://www.therm-app.com>. It is your responsibility to confirm, prior to purchase and thereafter, that your mobile device complies with our Compatible Mobile Device requirements.

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## **PRODUCT USAGE NOTICES**

### **Attachment to your Mobile Device**

To avoid damage to your Product and mobile device, attachment of the Product to your mobile device should be done with care, securing the locking knob with your fingers only. Do not use any

external tools as too much pressure may mark or damage your mobile device.

### **Calibration**

The Product makes use of specific calibration data, which was prepared for it in the factory. It is possible that during prolonged field usage of the Product a deterioration of image will be noticed. In such case we recommend that you send in the device, for re-calibration at the factory. Please contact our support team at <http://www.therm-app.com> for further instructions.

### **Accuracy**

For most accurate temperature measurement results, we recommend that you wait 5 minutes after you have started the Product before measuring a temperature.

### **Disposal of electronic waste**

As with most electronic products, this equipment must be disposed of in an environmentally friendly way, and in accordance with existing regulations for electronic waste. Please contact our support team at <http://www.therm-app.com> for more details.

### **Documentation updates**

Our manuals are updated from time to time, and we also issue product-critical notifications occasionally. To access the latest manuals and notifications, go to <http://www.therm-app.com>.

## **18. PRODUCT SAFETY INFORMATION**

### **WARNING**

Applicability: Class B Digital Product

This Product has been tested and found to comply with the limits for a Class B digital Product, pursuant to Part 15 of the FCC Rules of the USA. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This Product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the Product does cause

harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the Product and receiver

Connect the Product into an outlet on a circuit different from that to which the receiver is connected.

Consult the authorized reseller or an experienced radio/TV technician for help.

#### **WARNING**

Do not drop the Product or apply pressure on the IR lens as it may break. If the IR lens breaks, do not touch the broken pieces, the pieces can cause injury.

#### **WARNING**

Be careful when you touch the Product. Some parts of the Product can be sharp and could cause injury.

#### **WARNING**

Do not point the infrared detector (with or without the lens and lens cover) at intensive energy sources, for example products that emit laser radiation, or the sun. This can have unwanted effect on the performance of the Product. It can also cause damage to the detector.

#### **WARNING**

Do not use the Product in a temperature environment higher than +50 degrees Celsius (+122 degrees Fahrenheit), unless specified otherwise in user documentation or technical data. High temperatures can cause damage to the detector.

#### **WARNING**

The Product is not sealed. Avoid exposure of the Product to water, rain or dust.

#### **WARNING**

Do not apply solvents or similar liquids to the detector or lens, as this can cause damage.

**WARNING**

Be careful when you clean the infrared lens, the lens has a delicate anti-reflective coating. Do not clean the lens too vigorously; this can damage the anti-reflective coating.

**WARNING**

The Product allows for field replacement of the lens. Exchanging the lens should be done with great caution as after the removal of the lens the IR detector is exposed until the new lens is installed. While exposed, avoid any contact with the detector. Touching, cleaning or blowing the detector could cause permanent damage. Replacement of lens should be done in a dry area, using clean hands with maximum care.

**WARNING**

Do not use pressurized air from pneumatic air circuits in a workshop to remove dust from the detector. This air contains oil mist intended to lubricate pneumatic tools and is too high of a pressure, this can damage the detector and lens.

**WARNING**

The device is designed to use 5V DC power supply only, fed thru its micro USB connector. Using any other type of power source is dangerous and may lead to damage.

**WARNING**

The Product is provided with appropriate USB-OTG cables. Use only the supplied USB OTG cables. Using any other types of cables might not work at all, may fail, and even damage the equipment.



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# Therm-App<sup>®</sup> MD



For more information contact:

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