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### Seek Thermal CompactXR (LT-AAA)

# Seek Thermal CompactXR iOS Thermal Imaging Camera User Manual

Model: CompactXR (LT-AAA)

## 1. INTRODUCTION

The Seek Thermal CompactXR is an advanced outdoor thermal imaging camera designed to transform your iOS smartphone or tablet into a powerful thermal detection device. This compact and durable accessory allows you to visualize heat signatures, making it ideal for a variety of applications including tracking wildlife, spotting predators, identifying intruders, and conducting home energy audits. It operates by detecting infrared light and translating it into a visible thermal image on your device's screen.

The CompactXR features a 206 x 156 thermal sensor and a narrow 20-degree field of view, providing an extended detection range of up to 1800 feet. It can detect temperatures ranging from -40°F to 626°F (-40°C to 330°C). The device is battery-free, drawing power directly from your smartphone, and comes with a pocket-sized, waterproof carrying case for protection and portability.



Figure 1: Seek Thermal CompactXR attached to an iOS device, showing a thermal view.



## iPhone® Compatibility

### COMPATIBLE



### NOT COMPATIBLE

- iPhone 6
- iPhone 6+
- iPhone 5
- iPhone 5s
- iPhone 5c
- iPod Touch 5
- iPad 4
- iPad Air
- iPad Mini (all versions)

- iPhone 4s or lower
- iPad 3 or lower
- iPod Touch 4 or lower

Figure 2: The compact size of the Seek Thermal CompactXR camera.

## 2. DEVICE COMPATIBILITY

The Seek Thermal CompactXR is specifically designed for iOS devices. Ensure your device is compatible before use.

### Compatible iOS Devices:

- iPhone XS Max
- iPhone XS
- iPhone XR
- iPhone X
- iPhone 8 Plus
- iPhone 8
- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5



Figure 3: Compatibility chart for Seek Thermal devices with iOS products.

## 3. SETUP

To begin using your Seek Thermal CompactXR, follow these simple steps:

1. **Download the Seek Thermal App:** Search for "Seek Thermal" in the Apple App Store on your iOS device and download the official application.
2. **Connect the Camera:** Plug the Seek Thermal CompactXR directly into the Lightning port of your iOS device. The

camera is designed to be reversible, allowing for flexible orientation.

3. **Launch the App:** The Seek Thermal app should automatically launch or prompt you to open it once the camera is connected. If not, manually open the app.
4. **Grant Permissions:** The app may request certain permissions (e.g., camera access, storage). Grant the necessary permissions for full functionality. Note that some basic thermal viewing may be possible even if certain permissions are denied, but saving images/videos or using location features will require appropriate access.
5. **Adjust Focus:** The CompactXR features a focusable lens. Rotate the ring around the lens to achieve a clear thermal image. This is crucial for optimal image quality, especially at varying distances.

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Video 1: Demonstrates how to adjust the focus ring on a Seek Thermal CompactPRO camera, a similar process for the CompactXR model.

## 4. OPERATING THE CAMERA

Once connected and the app is running, you can begin capturing thermal images and videos. The Seek Thermal app provides various features to enhance your thermal viewing experience.

### Key Features:

- **Capture Photos & Videos:** Use the on-screen controls within the app to take still thermal images or record thermal video footage.
- **Color Palettes:** The app offers 9 different color palettes (e.g., White Hot, Black Hot, Iron, Cool, Amber, Indigo, Tyrian, Glory, Envy). Experiment with different palettes to find the best visualization for your specific application and environment.
- **Temperature Modes:** Utilize various temperature display modes:
  - **Spot Temperature:** Displays the temperature of the central point on the screen.
  - **High-Low Temperature:** Highlights the hottest and coldest points within the frame.
  - **Threshold Mode:** Allows you to set specific temperature ranges to highlight, useful for identifying objects within a certain thermal signature.
- **Digital Zoom:** The app supports digital zoom to get a closer look at thermal details.
- **Thermal+ Mode:** This mode overlays a visible light image with the thermal image, providing context and making it easier to identify objects. You can often slide between the two views for comparison.



Figure 4: Thermal image of an animal, demonstrating the camera's ability to detect heat signatures.



Figure 5: Thermal image of a fire, illustrating how the camera visualizes heat.

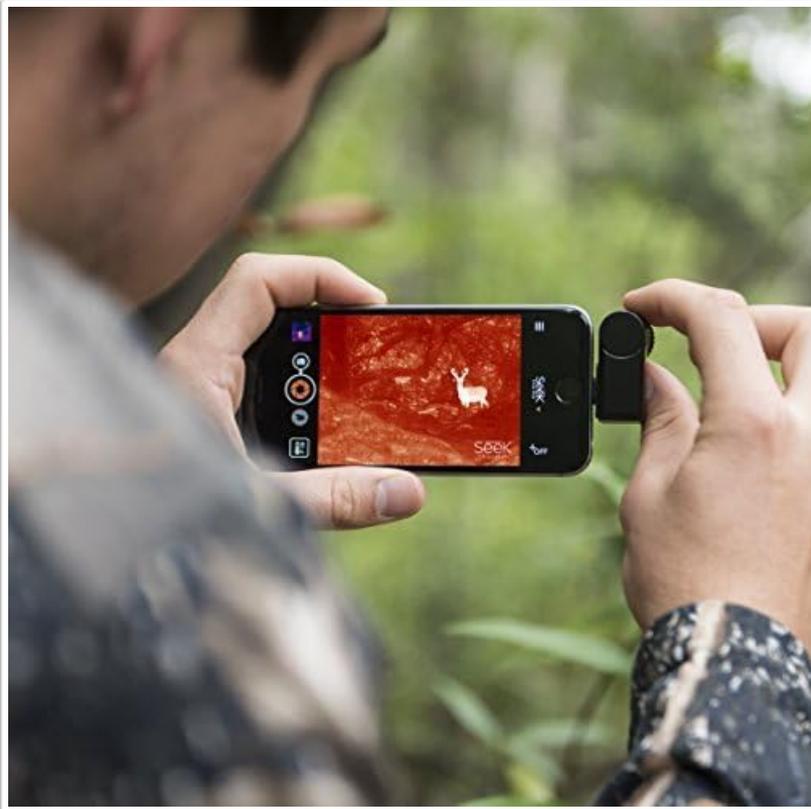


Figure 6: User operating the Seek Thermal CompactXR in an outdoor setting.

## 5. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your Seek Thermal CompactXR.

- **Cleaning:** Use a soft, lint-free cloth to gently clean the lens and the camera body. Avoid abrasive materials or harsh chemicals that could damage the lens coating or housing.
- **Storage:** When not in use, store the camera in its provided pocket-sized, waterproof carrying case to protect it from dust, moisture, and physical damage.
- **Environmental Conditions:** While the camera is designed for outdoor use and comes with a waterproof case, avoid prolonged exposure to extreme temperatures or direct sunlight when not in use.

## 6. TROUBLESHOOTING

If you encounter issues with your Seek Thermal CompactXR, try the following troubleshooting steps:

- **Camera Not Detected:** Ensure the camera is securely plugged into your iOS device's Lightning port. Try unplugging and re-plugging the device. Restarting your phone may also resolve connection issues.
- **App Not Launching/Crashing:** Ensure you have the latest version of the Seek Thermal app installed. Check your device's operating system for available updates. Clear the app's cache or reinstall the app if problems persist.
- **Poor Image Quality/Blurry Image:** Adjust the focus ring on the camera lens. The image quality is dependent on the thermal contrast in the environment; ensure there are sufficient temperature differences for a clear image.
- **Battery Drain:** Thermal cameras draw power from the host device. Expect increased battery consumption on your iOS device during extended use. Close the app and disconnect the camera when not in use to conserve battery.
- **Temperature Readings Seem Inaccurate:** Ensure the camera lens is clean. Verify that the correct emissivity settings are applied in the app for the surface you are measuring (if adjustable).

## 7. SPECIFICATIONS

Feature	Specification
Manufacturer	Seek Thermal
Part Number	LT-AAA
Item Weight	8.3 ounces
Product Dimensions	1.6 x 0.8 x 0.6 inches
Item Model Number	LT-AAA
Size	CompactXR
Color	Black
Style	iOS
Material	Plastic
Pattern	Camera
Power Source	AC/DC (powered by host device)
Wattage	5 watts
Item Package Quantity	1
Type of Bulb	Infrared
Mounting Type	Wall Mount (Not applicable for this product, likely generic spec)
Special Features	Portable
Usage	Surveillance
Included Components	206 x 156 Thermal Sensor, Focusable Lens, Waterproof Case Included
Batteries Included?	No
Batteries Required?	No
Battery Cell Type	Lithium Ion (Not applicable, powered by host device)
Exposure Control Type	Automatic
Video Capture Resolution	720p
Media Type	ProductImage, EnhancedContent
Zoom Type	Optical Zoom (Ring)

## 8. WARRANTY

The Seek Thermal CompactXR comes with a **1 Year Warranty for Manufacturer Defects**. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Seek Thermal website or contact customer support.

## 9. SUPPORT

For additional assistance, technical support, or to explore other Seek Thermal products, please utilize the following resources:

- **Official Website:** Visit the [Seek Thermal Store on Amazon](#) for product information and potentially support links.
- **Mobile App:** The free Seek Thermal mobile app is regularly updated and may contain in-app help or tutorials.
- **Customer Service:** Refer to the contact information provided on the official Seek Thermal website for direct customer support.