ConnectIR® Standard

Instruction Manual

Part# GC011009_EN

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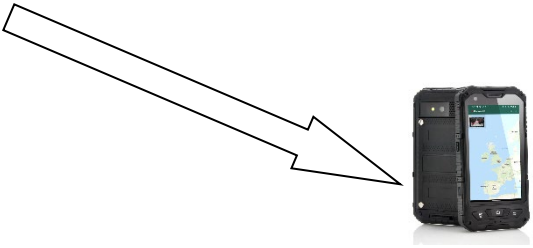
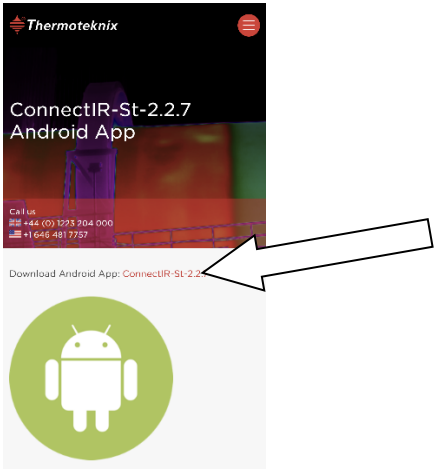
1 Installation

1.1

https://www.thermoteknix.com/products/defence-security/connectir/connectir-st-2.2.7-app





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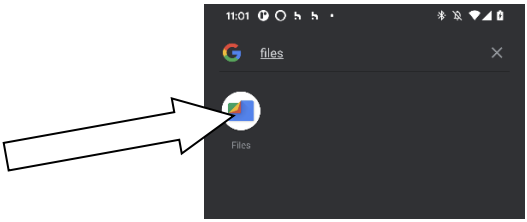
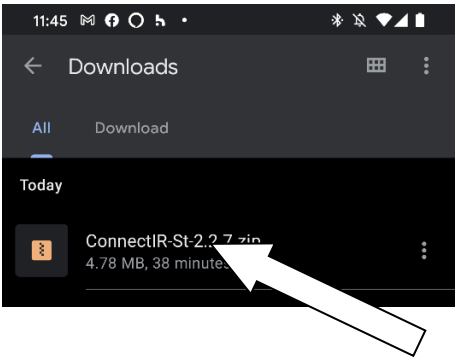
1.2

1.3



1.4



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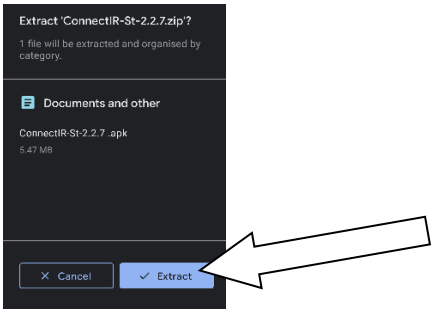
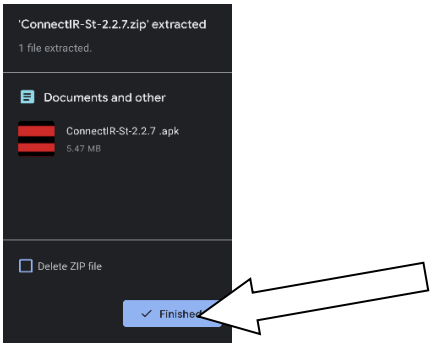
1.5



1.6



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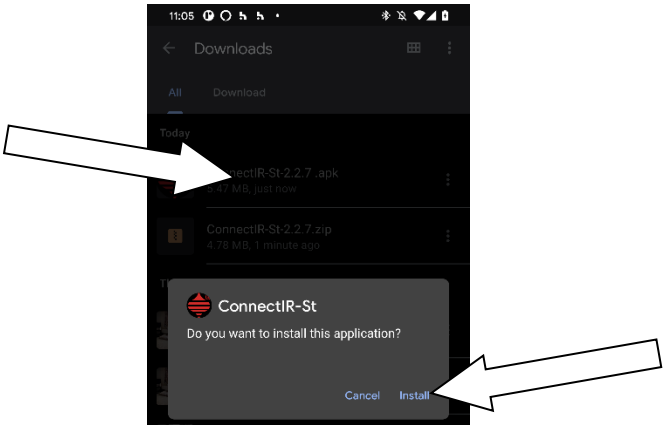
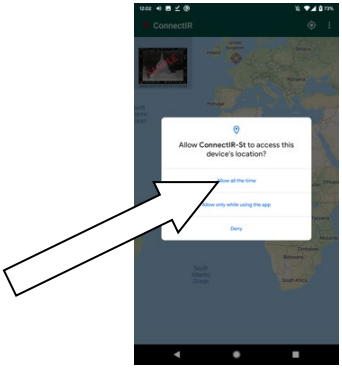
1.7



1.8



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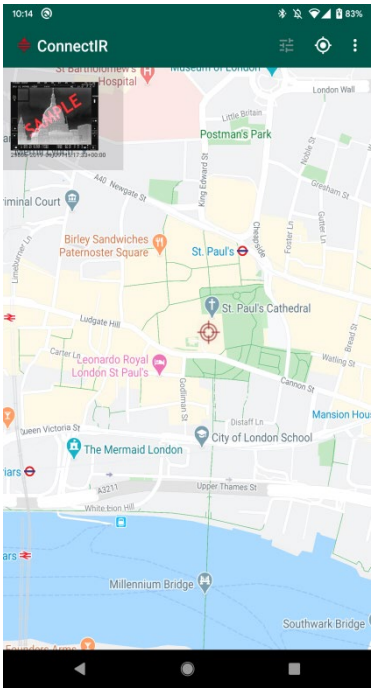
2 Initial Startup

On starting ConnectIR you are presented with your current location, if not tap the “My Location” button located at the top right-hand side of the application. You will also be presented with a sample image that will allow you to explore the operation of the ConnectIR application.



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3 Controlling the map

3.1 Map gestures

3.1.1 Scroll (pan) gestures

A user can scroll (pan) around the map by dragging the map with their finger.

3.1.2 Zoom gestures

The map responds to a variety of gestures that can change the zoom level of the camera:

- Double-tap to increase the zoom level by 1 (zoom in).
- Two-finger tap to decrease the zoom level by 1 (zoom out).
- Two-finger pinch/stretch
- One finger zooming by double-tapping but not releasing on the second tap, and then sliding the finger up to zoom out, or down to zoom in.

3.1.3 Tilt gestures

A user can tilt the map by placing two fingers on the map and moving them down or up together to increase or decrease the tilt angle respectively.

3.1.4 Rotate gestures

A user can rotate the map by placing two fingers on the map and applying a rotate motion.

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4 Basic Map Types

Tap the drop-down menu icon ☰ at the top right on the screen; two menu items are presented:

Map Type

Version

Tap Map Type and then select the map type to be used in the ConnectIR app. The available types are:

4.1 Normal View

The default map type which shows the urban map, roads and city names.

4.2 Satellite view

Shows the image as seen from Google's satellites.

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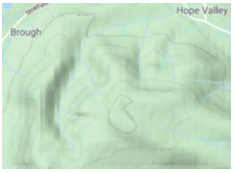
4.3 Terrain View

Shows a physical relief map image, displaying terrain and vegetation



4.4 Hybrid View

Combines road and satellite view into one image

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5 Connecting Your Camera

5.1 Connection

To connect your camera to ConnectIR via USB, plug the USB cable into the Android device using the OTG (on-the-go) cable and the USB connector on your camera as shown in the following diagrams. Note that cameras can differ in their connectors. These are keyed so cables can only mate with the correct socket. If a cable does not click in easily, check cable and socket for damage.

5.2 Cables

The Android device used will determine which OTG cable/adapter is used; the two most common types of OTG cables/adapters are shown below.

USB Micro B OTG Cable

USB C OTG Adapter

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Connection configuration

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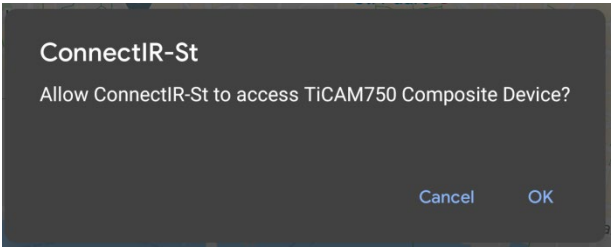
5.2.1 TiCAM 1000C USB Interface

TiCAM 1000C USB connector (right)

When the camera has been connected to the Android device with the ConnectIR app in the foreground a message will appear requesting permission to allow the camera and Android device to establish a connection.



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6 Range Finder and Target Acquisition

The TiCAM has a laser rangefinder (LRF). It is activated using the right thumb button. See the TiCAM User Manual for full details.

When the LRF is enabled, you can take a range measurement using the right thumb button. Pressing the button enters the target acquisition mode. A small solid crosshair will appear. The solid lines distinguish it from the dotted crosshair used in normal viewing. Press the button again, and the cross-hair becomes enlarged. This remains enlarged as long as you hold down the button so that you can point the TiCAM precisely at the target. When you release the button, the TiCAM takes a still image of the scene and records the position, range and direction of the target. This information is displayed below the image and remains there until you use the rangefinder again when it is pushed down to the line below. The cursor will remain enlarged during the process, which is brief but not instantaneous.

After this process has finished and ConnectIR will have been correctly connected and there will be an envelope icon appear at the bottom left on the TiCAMs screen, as shown below.

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Before pressing the transmit left thumb button, the current or last image can be selected for transmission by using the + and - button on the top right of the camera.

After pressing the left thumb button the image will be transmitted to the Android device over the USB cable.

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7 View, Share and Delete Image / Image Data

Once the image has been downloaded to the ConnectIR App, a thumbnail of the image will be displayed on the left side of the screen, together with a number of options along the top of the app

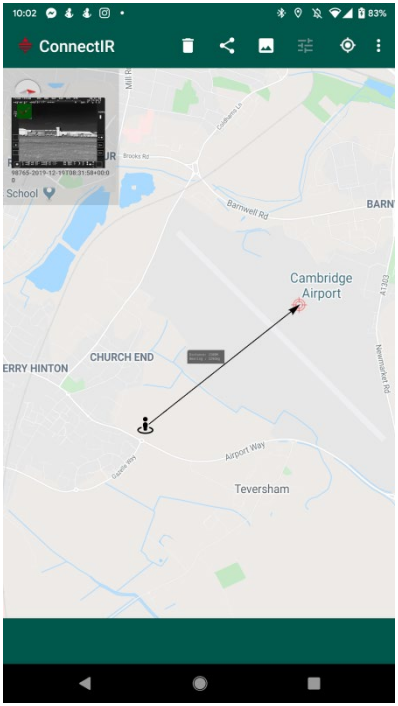

Image capture with an LRF in the camera

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7.1 Icons

7.1.1 Filter on Image and Image Data

The professional version of ConnectIR supports more than one image and from multiple cameras. This option allows the user to filter the images to easily find a specific image.

7.1.2 View Image and Image Data

Displays a larger version of the image along with the image data, such as GPS location, altitude, bearing etc.

7.1.3 Share Image and Image Data

Enables the user to share the image and image data with applications on the Android device, such as email and WhatsApp.

7.1.4 Delete Image and Image Data

Removes the image from the device.

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7.2 View Image and image data

Displays a larger version of the image along with the image data, such as GPS location, altitude, bearing etc.

Within this screen, we can enlarge the image, share the image and image data, delete the image and data or return to the main screen <-

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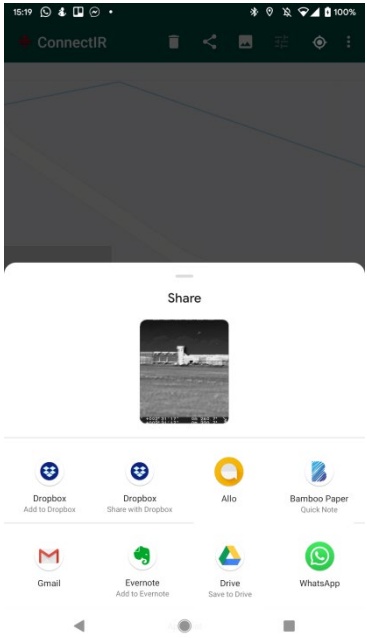
7.3 Share Image and Image Data

After selecting the share image icon, a list of available applications that allow sharing is displayed. Select the appropriate application to share the image and image data.



Note: If sharing with WhatsApp the user receiving the message should have the sender's details in their contacts list, in order to click the map link.

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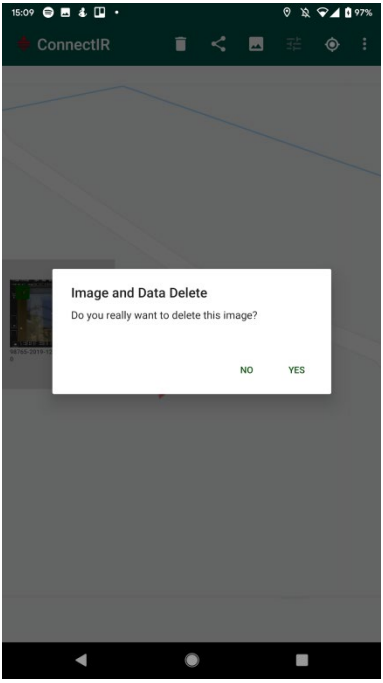
7.4 Delete Image and Image Data

After the image has been selected, clicking on the delete icon , will prompt the following message.



Selecting YES will remove the image and data from the device.

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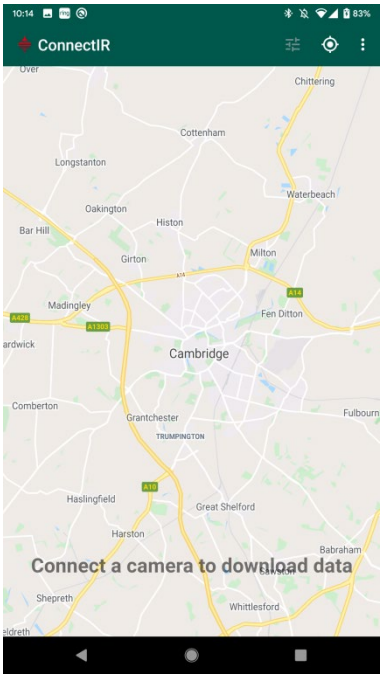
After the image has been deleted then a message will be displayed to connect the camera to download further data.



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