FLUKE®

TiS55 PRO/TiS65 PRO/TiS75 PRO

Thermal Imager

Users Manual

BC

10/2025 (English)

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Introduction

The Fluke TiS55 PRO/TiS65 PRO/TiS75 PRO Thermal Imagers (the Product or Imager) are handheld, infrared imaging cameras for use in many applications. These applications include equipment troubleshooting, preventive and predictive maintenance, building diagnostics, and research and development.

The Imager displays thermal images on a high-visibility, industrial-quality LCD touch screen. The Imager can save images to a removable memory card. Saved images and data stored on the memory card can be transferred to a PC through a direct USB connection to the PC or by wireless transfer to a PC or mobile device.

A rugged, rechargeable lithium-ion smart battery provides power to the Imager. Direct AC power is accessible with the included ac power adapter.

Contact Fluke Corporation

Fluke Corporation operates worldwide. For local contact information, go to our website: https://www.fluke.com

To register your product, view, print, or download the latest manual or manual supplement, go to our website.

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Safety Information

General Safety Information is in the printed Safety Information document that ships with the Product and at https://www.fluke.com. More specific safety information is listed where applicable.

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Product Familiarization

The manual explains features for multiple models. Because models have different features, not all of the information in the manual may apply to your Imager. Use Table 1 to identify the features of your Imager.

Features

Table 1 is a list of the features of the Imager.

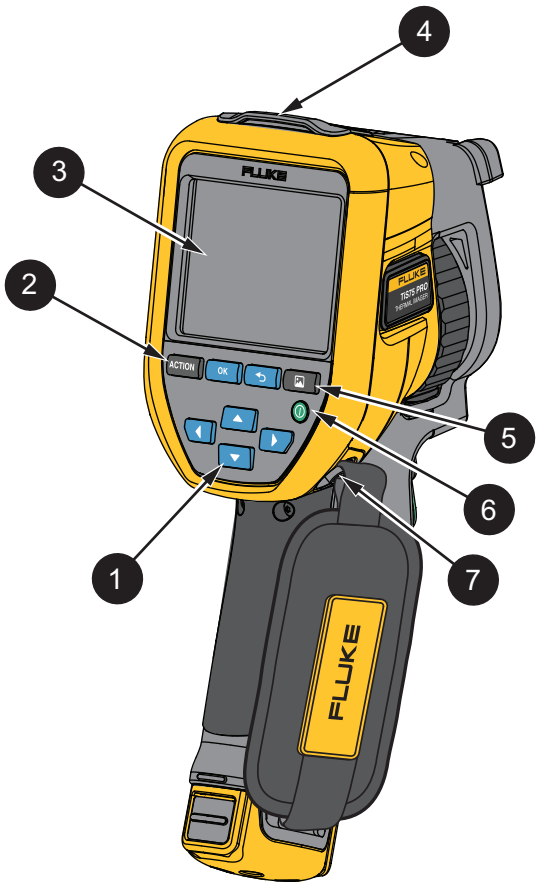
Table 1. Features

Feature	TiS55 PRO	TiS65 PRO	TiS75 PRO
IR resolution	288x216	320x240	384x288
SuperResolution	576x432	640x480	768x576
Digital camera, 13 MPixel	●	●	●
Field of View	42° x 32°	42° x 32° or 25° x 19°	42° x 32° or 25° x 19°
Manual Focus	●	●	●
Route inspection	●	●	●
Max Measurement Temp (°C)	550	600	650
NETD, 40 mK	●	●	●
Type C power charging	●	●	●
Image format	JPEG with radiometric data	JPEG with radiometric data	JPEG with radiometric data
Video format	MP4	MP4	MP4, IS5 full radiometric video
Dew Point Calculation			●

The Product

Table 2 shows the front view of the Product.

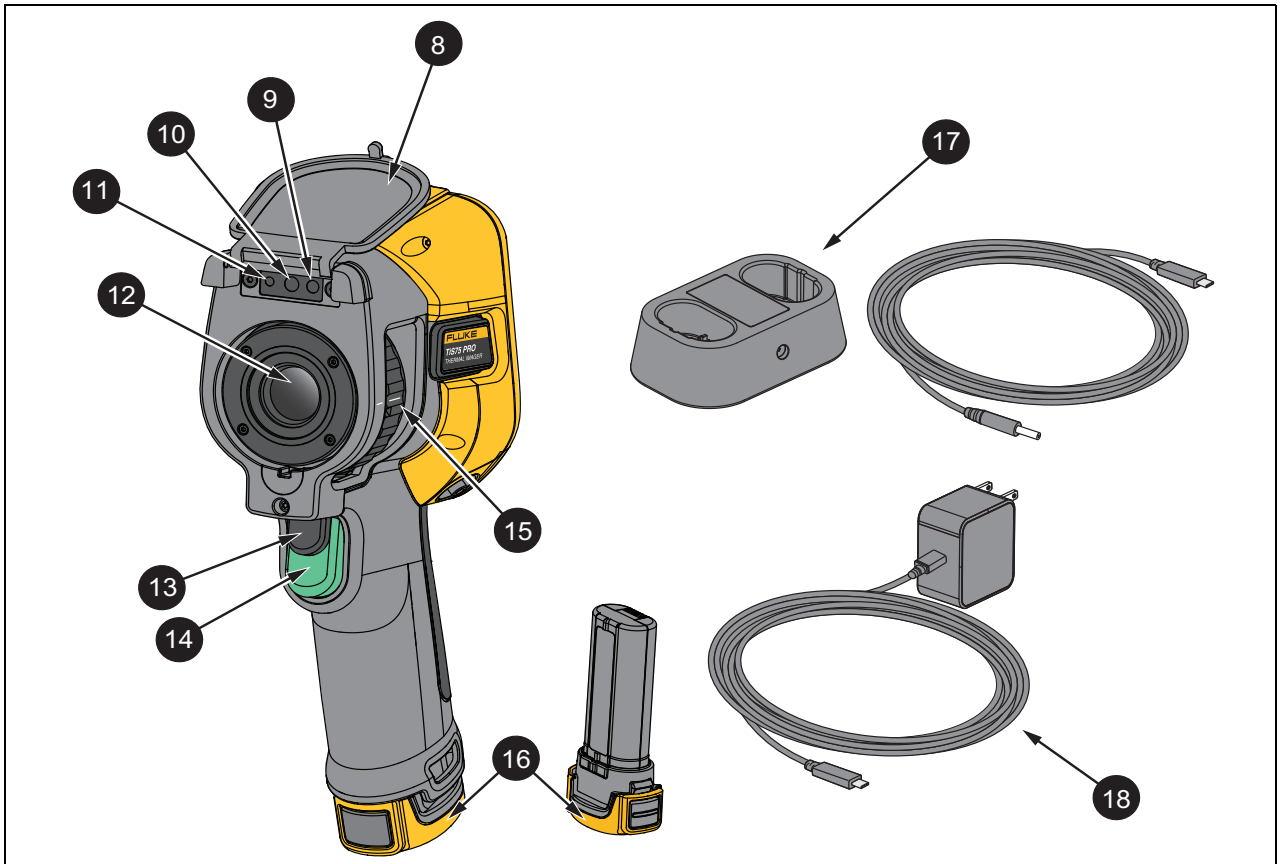
Table 2. Front View



Item	Description	Item	Description
1	Control Panel Navigation buttons	5	Gallery button
2	Action Button	6	Power Button
3	Touch screen	7	Handstrap anchor
4	Type C Interface and SD Card		

Table 3 shows the back view of the Product.

Table 3. Back View



Item	Description	Item	Description
8	Lens Cover	14	Primary Trigger
9	Laser Pointer	15	Manual Focus Control
10	Visual Light Camera Lens	16	Lithium-ion Smart Battery
11	Flashlight	17	2-Bay Battery Charge Base and cable
12	Infrared Camera Lens	18	Power adapter and cable
13	Secondary Trigger		

Primary and Secondary Triggers

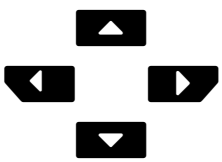
The two-part trigger is located in the standard trigger position for a pistol-grip device. The larger, green trigger is the primary trigger. The smaller, black trigger is the secondary trigger.

Use the primary trigger to capture an image to save or edit. The default function of the secondary trigger is the laser pointer. From any menu, use the primary or secondary trigger to return to camera mode. You can assign a specific function to the secondary trigger, see *Settings Menu*.

Control Panel

The control panel is used to change parameters or select functions and options. Table 4 lists the functions of the buttons on the Control Panel.

Table 4. Control Panel

Button	Description
	Long press the power button to turn on or turn off the Product. Short press to perform calibration.
	Push to open the main menu. Within a submenu: Push to save the change. Or Push to perform the function listed on the submenu key.
	In the camera mode, push and hold for 2 seconds to toggle between Manual/Auto Temp Scale. With Temp Scale set to Manual, push to rescale the temperature values on the display at that time. See *Level/Span*. Within a submenu: Push to either cancel the change and go back to the previous menu. Or Push and hold for 2 seconds to exit out of all menus.
	Push to enter *Action menu*.
	Push to review, edit, and delete captured images. See *Gallery Menu*.
	Push to move the cursor and highlight an option. With Temp Scale set to Manual, push to adjust the Level and Span. See *Level/Span*. With Temp Scale set to Auto, push left and right arrow button to adjust the IR-Fusion level with 25% step.

Note

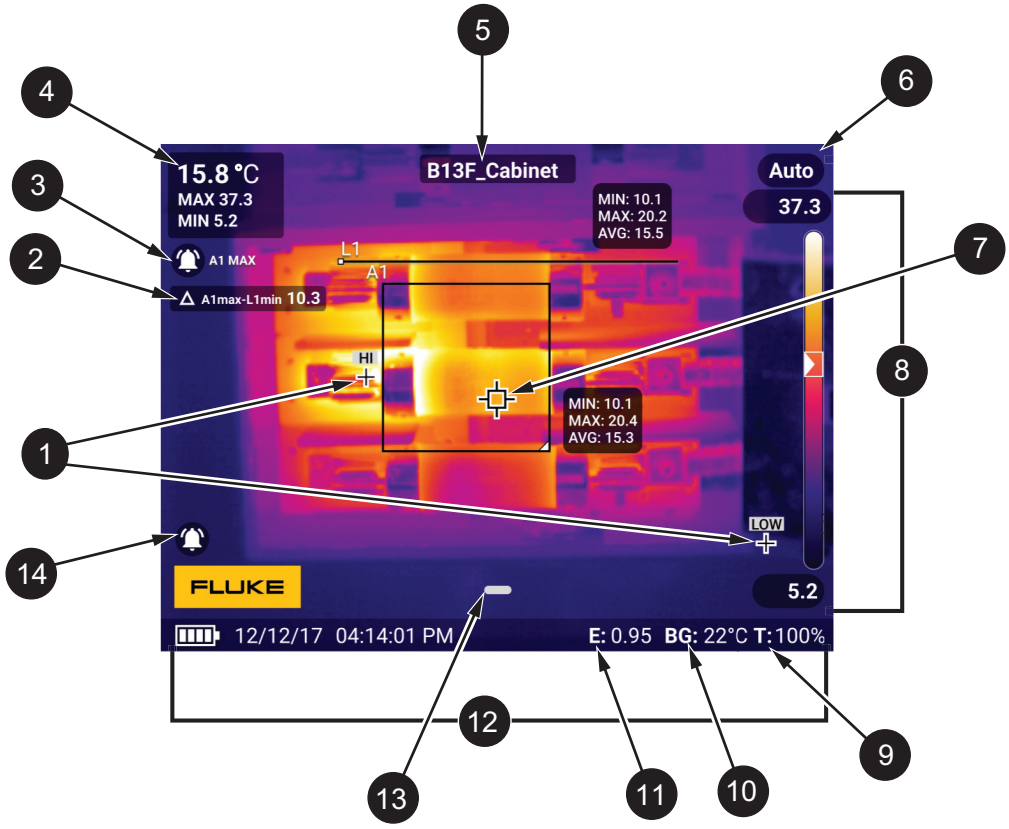
The OK and arrow buttons' function is different when route inspection is activated. in Route Mode. For more information, see Table 14.

Touch Screen (Display)

The touch screen is the primary user interface of the Product. The touch screen has a backlight for work in dimly lit spaces.

Table 5 shows the available information on the screen of the Product.

Table 5. Display



Item	Description	Item	Description
❶	High and Low temperature marker	❽	Scale
❷	Delta-T	❾	Transmissivity
❸	Marker Temp Alarm	❿	Background temperature
❹	Center point and High, Low Marker temperature	⓫	Emissivity
❺	Asset ID	⓬	Status bar
❻	Auto Temp Scale status	⓭	Tap to enter Main Menu
❼	Center Point marker	⓮	Color alarm enabled

Menu Controls

To use the menus to change and view settings:

1. Press OK or tap to open the main menu interface.
2. Tap an icon on the main menu to open a sub-menu. See Table 7.

   The background of the selected icon changes to yellow.
3. Tap a menu control to set and change options. See Table 6.
4. To close a sub-menu and return to live camera mode, press the primary or secondary trigger, or hold for 2 seconds.

Table 6 is a list of the menu controls.

Table 6. Menu Controls

Control	Function
	Adjusts a value. Touch and slide the bar to the left to decrease the value or to the right to increase the value.
	Turns on or off a feature.
	Selects one item from a list.
	Opens a menu to show other menu options.
	Opens an option menu to adjust a setting.
	Decreases a numerical value.
	Increases a numerical value.
	Returns to the previous menu.
	Closes menu and returns to camera mode. Or, Exits out of an Asset ID. See *Asset Identification (Asset ID)*.
	Delete an image or a profile.
	View, add, or edit a note. See *Text Notes*.
	With at least one note attached to an image, add another note to the image. See *Text Notes*.
	Add or remove an asset ID tag. See *Asset Identification (Asset ID)*.
	Add or remove a flag. See *Flag an Image*.

Basic Operation

Turn On and Off the Product

Before you use the Product for the first time, charge the battery. See *Charge Batteries*.

To turn on the Product, push and hold the power button for 3 seconds. To turn off the Product, push and hold the power button for 3 seconds.

Note

All thermal Imagers need sufficient warm-up time for accurate temperature measurements and best image quality. Warm-up time can vary by Product and environmental conditions. Although most Imagers are fully warmed up in 3 minutes to 5 minutes, wait a minimum of 20 minutes if the most accurate temperature measurement is important to your application. When you move an Imager between environments with large differences in ambient temperature, allow for additional adjustment time.

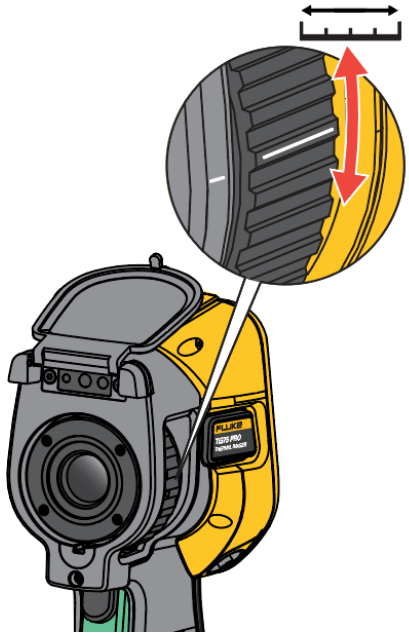
Focus

Correct focus makes sure that the infrared energy is correctly directed onto the pixels of the detector. Without correct focus, the thermal image can be blurry and the radiometric data may be inaccurate. Out-of-focus infrared images are frequently unusable or of little value.

To focus with the advanced manual focus system, rotate the Manual Focus Control until the inspection object is in proper focus.

To simulate fixed focus at 1.2 m for the Imager with 42°x32° lens, or 1.6 m for the Imager with 25°x19° lens, align the marked bar on the focus control with the marker on the case. See Figure 1.

Figure 1. Fixed Focus



Laser Pointer

The Imager has a laser pointer. The laser pointer is a sighting aid and is offset from the infrared camera. As a result, it may not always represent the exact center of the infrared or visible image.

The laser dot does not appear on an infrared-only image, but does on visible-only or AutoBlend images. The laser dot cannot be seen in the visible channel of the IR-Fusion image if obscured by the center point marker graphic.

Push the secondary trigger to turn on laser pointer, release the secondary trigger to turn off the laser pointer.

Capture Image

In normal operation (video is off), use the primary (green) trigger to capture a thermal image. The captured image goes into a memory buffer. You can view and annotate the image in the memory buffer before you store the image. When video is on, the primary trigger is the start/stop for video recording.

To capture an image:

1. Focus on a target.
2. Push and release the **Primary Trigger** to capture and freeze the image.

   The image is in the memory buffer for you to save or edit the image.

   The Imager shows the captured image and a menu bar. The menu bar shows the available options. You can add text or audio notes, create an IR-PhotoNote, or flag the image. To edit an image, see *Image Annotation*.

3. To assign an asset ID tag to the image, tap **Scan Asset ID**, or tap **Remove Asset ID** to remove an asset ID tag from the image. See *Asset Identification (Asset ID)*.
4. Tap **Save**.

Save Image

To save an image as a data file:

1. Capture an image.

   The image is in the memory buffer for you to save or edit the image.

2. Press OK to save the image as a file and go back to the live view. Alternatively, push the primary (green) trigger to save the image and go back to the live view.

Save Images to PC

To save images to a PC with the USB Type-C cable:

1. Turn on the Product.
2. Connect one end of the Type-C cable into the Type-C port on the Product and the other end into a Type-C port on a PC.

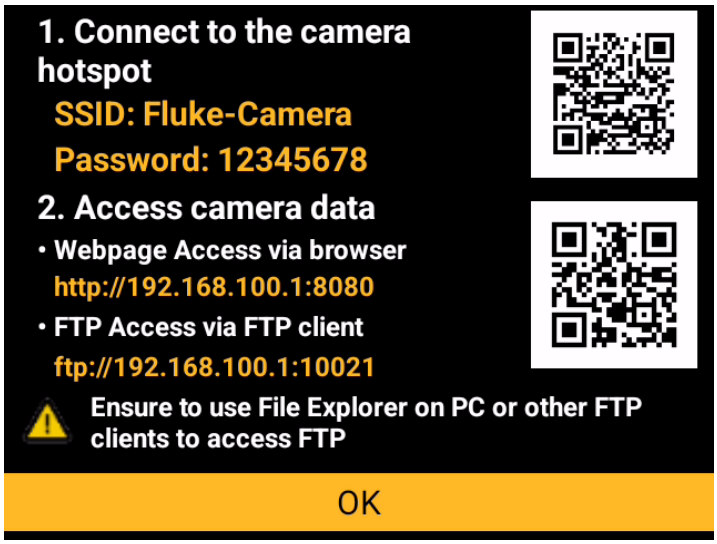
   The PC recognizes the Product as an external memory storage device.

3. On the PC:
   a. Browse to the Storage folder on the Product.
   b. Copy and paste or drag the images to a directory on the PC.
4. Remove the Type-C from the PC and the Product.

To save images to a PC using Product hotspot:

1. Turn on the Product.
2. Activate the camera hotspot. For more information, see *Camera Hotspot*.

   A page appears with details.



3. On your PC:
   a. Connect to the Product's hotspot using the displayed SSID and password.
   b. Open file explorer and type the displayed Product FTP address.
   c. Navigate to the Storage folder on the Product.
   d. Copy and paste the images to a directory on your PC.

To save images to a PC from the memory card:

1. Remove the memory card from the Product, see Table 2.
2. Insert the memory card into the memory card port on a PC.

   The PC recognizes the card as a storage device.
3. On the PC:
   a. Browse to the Storage folder on the memory card.
   b. Copy and paste or drag the images to a directory on the PC.
4. When you are finished, return the memory card to the Product.

Main Menu

Table 7 is a list of the secondary menus available in the Main Menu. From any menu, push the primary or secondary trigger button to return to Camera mode.

Table 7. Main Menu



Secondary Menu	Icon	Function
Measurement		Set the infrared settings. See *Measurement Menu*.
Image and Palette		Adjust how the image appears, and select palette to use for the image. See *Image and Palette Menu*.
Display		Set the features to show on the display. See *Display Menu*.
Route		Select the route template and execute route inspection.
WIFI		Set hotspot to share images.
Device Settings		Set user preferences and view information about the Product. See *Settings Menu*.

Measurement Menu

Table 8 is a list of the options available in the Measurement menu.

Table 8. Measurement Menu

Option Menu	Option	Description
Range	**Full Automatic Range**	Set the range to Fully Automatic.
	Range 1 (-20°C~150°C)	Set the range to Range 1.
	Range 2 (0°C~650°C)	Set the range to Range 2. *Note* *The max temperature range is 550°C for TiS55 PRO, 600°C for TiS65 PRO and 650°C for TiS75 PRO*
Auto Temp Scale	**On/Off**	With Auto Temp Scale set to **Off**, changes the Level/Span. See *Level/Span*.

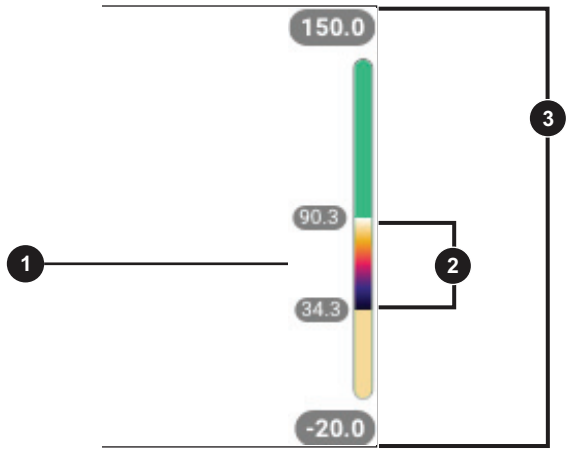
Table 8. Measurement Menu (cont.)

Option Menu	Option	Description
Emissivity	**Custom Value**	Set a custom emissivity value when a value from the standard emissivity table is not appropriate for the measurement. See *Emissivity*.
	<options>	Select an emissivity value from a list of common materials. Use the scroll bar to see all of the options. See *Emissivity*.
Background Temp.	<options>	Change the background temperature to compensate for reflected background temperature. Very hot objects or very cold objects can affect the apparent temperature and measurement accuracy of the target, especially when surface emissivity is low. Adjust the reflected background temperature to improve the accuracy of the measurement.
Transmissivity	<options>	Change the values used to calculate the temperature based on the transmission percentage of the infrared-transparent window (IR window). See *Transmissivity*.
Distance	<options>	Set the Distance.

Level/Span

Level and Span are values within the total range of temperature. Level is the temperature level to view within the total range of temperatures. Span is the span of temperatures to view within the total range of temperatures. See Table 9.

Table 9. Level and Span Settings



Item	Description
1	Level
2	Span
3	Total range

With Auto Temp Scale set to **On**, the Imager sets **Level/Span** based on the total temperature range.

With Auto Temp Scale set to **Off**, the level setting moves the thermal span up or down within the total temperature range.

To change Level/Span:

1. Select > **Auto Temp Scale** > **Off**, or push in the Camera mode for 2 seconds.
2. In the Camera mode, push:
   - to decrease the temperature span.
   - to increase the temperature span.
   - or use the roller on the right side of the screen to move the span to a higher temperature level.
   - or use the roller on the right side of the screen to move the span to a lower temperature level.

To fix the temperature value, tap the maximum or minimum value of the temperature span. The background turns black, and the value no longer changes with the roller.

To use the temperature scale high and low values on the display for future measurements:

1. Set **Auto Temp Scale** to **Off**.
2. Push  to rescale the display and save the temperature values on the display at that time.

   To use a different temperature scale, use the arrow keys to change the Level/Span, or push  again to rescale.

   Note

   The Imager always powers up in the same Temp Scale mode, Auto or Manual, as when the Imager was powered down.

Emissivity

All objects radiate infrared energy. The actual surface temperature and emissivity of the target affects the quantity of energy radiated. The Imager senses the infrared energy from the surface of the target and uses the data to calculate an estimated temperature value. Many common materials such as wood, water, skin, cloth, and painted surfaces, including metal, radiate energy well and have a high emissivity factor of ≥90 % (or 0.90). The Imager measures temperatures accurately on targets with a high emissivity.

Shiny surfaces or unpainted metals do not radiate energy well and have a low emissivity factor of <0.60. For the Imager to calculate a more accurate estimate of the actual temperature of targets with a low emissivity, adjust the emissivity setting.

⚠ Warning

To prevent personal injury, see emissivity information for actual temperatures. Reflective objects result in lower than actual temperature measurements. These objects pose a burn hazard.

Set emissivity as a direct value or from a list of emissivity values for some common materials. If the emissivity value is <0.60, a caution shows on the display.

Note

Surfaces with an emissivity of <0.60 make it difficult to determine reliable and consistent actual temperatures. The lower the emissivity, the greater the potential of error when the Imager calculates the temperature measurement because more of the energy reaching the camera is specified as background temperature. This is also true even when adjustments to the emissivity and reflected background adjustments are performed properly.

Transmissivity

When you do infrared inspections through IR windows, not all of the infrared energy emitted from the target is transmitted through the optical material in the window. If you know the transmission percentage of the window, adjust the transmission percentage in the Imager or in Fluke Connect Express software to improve the accuracy of the measurement.

When you do not do infrared inspections through an IR window, set Transmissivity to 100 % to disable the correction percentage.

Image and Palette Menu

Table 10 is a list of the options available in the Image menu.

Table 10. Image Menu

Option Menu	Option	Description
Palette	**Gray** **Ironbow** **High Contrast** **Amber** **Hot Metal** **Blue Red** **Amber Inverted** **Gray Inverted** **Rainbow** **Steps**	Shows palette thumbnails. See *Select a Palette*.
Picture in Picture	**On/Off**	Shows the infrared image imposed on the visible light image to improve the picture context. Use with IR-Fusion to further improve the image.
IR-Fusion	**0 % to 100 %**	The Imager automatically captures a visible image with every infrared image to show where a potential problem might be. See *IR-Fusion™ Technology*.

Table 10. Image Menu (cont.)

Option Menu	Option	Description
Color Alarm	**Off**	Turn off color alarms
	Above	Turn on the high-temperature color alarm. The high-temperature color alarm shows a full visible image and only shows infrared information on objects or areas that are above the set apparent temperature level. Use the arrows to adjust the temperature threshold.
	Below	Turn on the low-temperature color alarm. The low-temperature color alarm shows a full visible image and only shows infrared information on objects or areas that are below the set apparent temperature level. Use the arrows to adjust the temperature threshold.
	Inside Range	Turn on the inside range alarm. The inside range color alarm shows a full visible image and only shows color isotherms, or infrared information on objects or areas that are within the high and low temperature settings. Use the arrows to adjust the temperature high and low limits.
	Outside Range	Turn on the outside range alarm. The outside range color alarm shows a full visible image and only shows color isotherms, or infrared information on objects or areas that are outside the high and low temperature settings. Use the arrows to adjust the temperature high and low limits.
	Dew Point	**(TiS75 PRO only)** Show a full visible image and only show infrared information on objects or areas that are below the calculated dew point. Use the arrows to adjust the ambient temperature and the relative humidity.

Table 10. Image Menu (cont.)

Option Menu	Option	Description
Color Alarm	**Isotherm**	This setting is available when Color Alarm is set to a position other than Off. **Isotherm Off** The original alarm display mode remains unchanged. Areas that do not meet the alarm condition are displayed in visible light. Areas that meet the alarm condition are displayed as infrared images. **Isotherm On** Areas that do not meet the alarm condition are displayed as infrared images. Areas that meet the alarm condition are highlighted as follows: ● Red: Temperature above the set value ● Blue: Temperature below the set value ● Yellow: Temperature within the alarm range
SuperResolution	**On/Off**	Turns SuperResolution On or Off. SuperResolution uses a software-based process to increase the infrared pixel count of a single thermal image by up to four times, revealing finer thermal details for analysis. SuperResolution enhanced images can be opened and viewed using Fluke Connect Express PC software.
Digital Zoom	**On/Off**	Adjust the digital zoom of the displayed image in camera mode from 1× to 4×.
Saturation Colors	**Standard** **Off**	This setting only applies when the Auto Temp Scale is set to On. **Standard** If the measured temperature goes beyond the current range's upper or lower limit, the infrared image shows saturation colors. These colors change based on the current palette. **Off** If the measured temperature goes beyond the current range's limits, the infrared image shows the color of the upper or lower limit.

Table 10. Image Menu (cont.)

Option Menu	Option	Description
Image Enhancement	**On/Off**	This setting only applies when the Auto Temp Scale is set to On. **On** The infrared image dynamically adjusts the color palette distribution based on temperature distribution, showing more details. **Off** The infrared image divides the color palette evenly according to the current temperature scale.

Note

On the TiS55 PRO and TiS65 PRO, you can use the low-temperature color alarm function as a dew point color alarm. Determine and input the surface dew point temperature as the Low Alarm. The colors presented can help identify areas of concern with possible dew point condensation.

IR-Fusion™ Technology

IR-Fusion™ technology makes it easier to understand, analyze, and communicate infrared images through the use of an aligned visible image and infrared image. The Imager automatically captures a visible image with every infrared image to show you precisely where a potential problem might be, and then allows you to more effectively communicate it to others.

The IR-Fusion slider bar sets the Product to take images from full visible light mode to full IR-Fusion mode. Use a blend between visible light mode and IR-Fusion to view an object with temperature overlays.

To adjust the IR-Fusion level:

1. Tap .
2. Use the slider bar to set the IR-Fusion level.

   Alternatively, you can adjust the IR-Fusion level in camera mode:

   With Auto Temp Scale set to **On**, push or to change the IR-Fusion level.

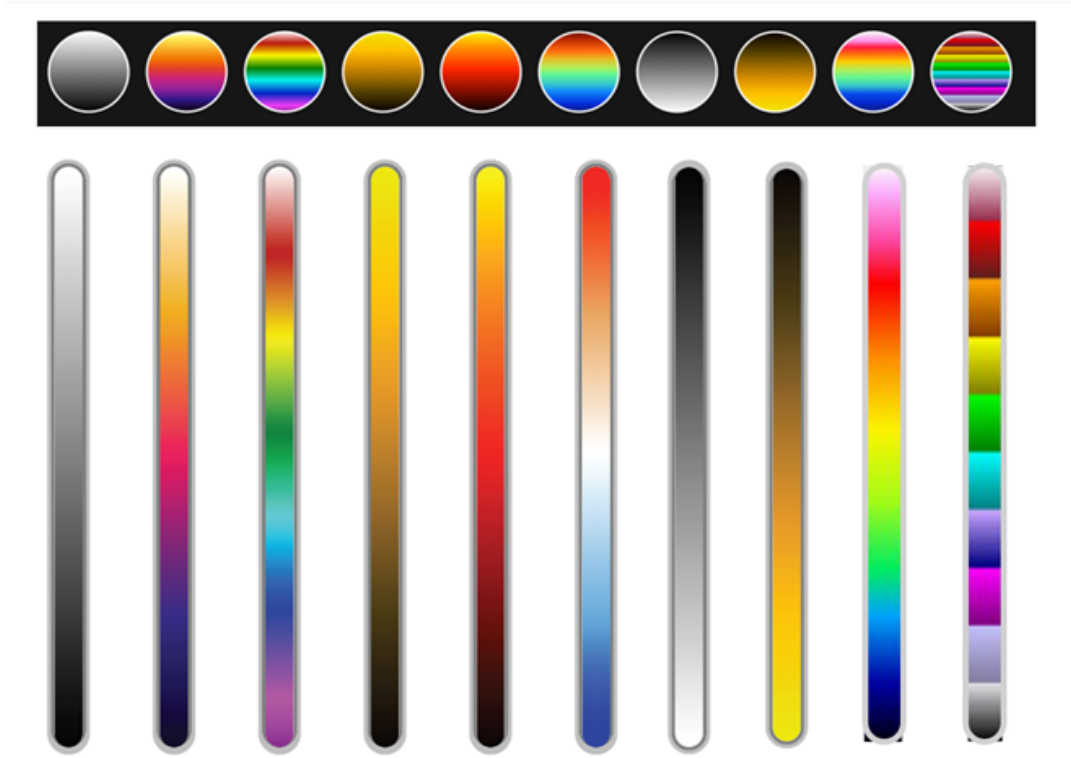
Select a Palette

To change the palette of an image:

1. Tap on a palette thumbnail.
2. A check mark shows on the selected palette.

The color and temperature range bar on the display changes according to the selected palette. See Figure 2.

Figure 2. Palette and Range Bar Selection



Digital Zoom

Use the digital zoom function to adjust the display screen from 1x to 4x.

1. Set Digital Zoom to On.

   In Camera mode, see an icon in the bottom left corner that shows the current zoom level.

2. Touch the screen with two fingers at the same time to zoom in or out. The zoom level and displayed image update in real time.

Display Menu

Use the Display menu to set which features show on the display. To show the Fluke logo on the display, see *Settings Menu*. Table 11 lists the options in the Display menu.

Table 11. Display Menu

Option	Description
Spot Temp (MIN/MAX/Center)	Turn on or turn off the minimum, maximum or center temperature indicators on the display. The MAX and MIN Temperatures are floating HI and LO temperature indicators that move on the display as the temperature measurements of the image fluctuate.
3-Phase Delta T	Turn on or turn off the display of three distinct areas on the thermal image. Each area shows its maximum temperature. For these three maximum temperatures, the largest temperature difference of the three is calculated and displayed on the left side of the screen.
Points	Set the number of fixed-temperature spot markers. See *Points, Areas and Lines*.
Areas	Set the number of temperature measurement zones (areas) centering on a target.
Lines	Set the number of temperature measurement lines centering on a target.
Delta-T	Turn on or turn off the display of up to 3 target and reference temperatures for calculating temperature differences.
Line/Area Display	Further configure the **Lines** and **Areas** display to show maximum, minimum, and average temperatures for lines and areas
Marker Temp Alarm	Set an alarm for specific temperature points. A beeper can be enabled to ring after a specified temperature threshold.
Scale Display	Turn on or turn off the Scale.
Status Bar	Turn on or turn off the Status bar.

Points, Areas and Lines

Use a fixed-temperature spot marker to show the temperature at the point before you save an image.

To set a point:

1. Select ⌖ > **Points**.
2. Select the number of points.

   The point symbol (+) shows on the display with a name (P1 by default).

Set a temperature measurement zone to center on the target and adjust the size or position of the area. The area expands or contracts to different levels within the infrared image. The area displays the maximum (MAX), average (AVG), and minimum (MIN) temperature measurements in that zone.

To set an area:

1. Select ⌖ > **Areas**.
2. Select the number of areas.

   The area shows on the display with a name (A1 by default).

Set a straight line segment to test temperature changes over a specific section. Adjust the length and position of the line using its two endpoints. The line displays the maximum (MAX), average (AVG), and minimum (MIN) temperatures.

To set a line:

1. Select ⌖ > **Lines**.
2. Select the number of lines.

   The line shows on the display with a name (L1 by default).

On-display Editing

Use the touch controls to move, resize, or delete the added Points, Lines, and Areas on the display in Camera mode.

Move

Tap the point, line or area and drag it on the screen.

Resize

To resize a line or an area:

1. Tap the line or area to edit them.

   Small blocks appear at the two ends of the line, or a triangle in the lower right corner of an area.

2. Drag the block or triangle to adjust the position of the end of the line, or the size of the area.

Delete

To delete a point, line or area:

1. Tap and hold the point, line or area for 1 second.

   Delete label appears in the upper left corner of the point, line or area.

   Tap **Delete** to delete the point, line or area.

Delta-T

The Delta-T feature helps identify faulty components through a temperature comparison test. It compares the target temperature with the ambient temperature or the maximum temperature of two switches within the same image.

Use Delta-T to set the temperature difference between the target temperature and the reference temperature. You can select MAX, MIN, Center, Point, Line, or Area as the target or reference temperature. You can also set a custom value as the reference temperature.

Up to 3 Delta-T can be set.

The display of Delta-T can be enabled or disabled.

To set a temperature reference point:

1. Select > **Delta-T**.
2. Select the marker to use as target temperature.
3. Choose the marker or custom value to use as the reference.
4. Tap **Display** to turn it **On**.

Marker Temp Alarm

The Marker Temp alarm helps quickly identify abnormalities in an object on-site. For example, set the alarm to trigger if the maximum temperature goes over 60°C, 3-phase Delta T exceeds 15°C or Delta-T between the maximum temperature of two switches exceeds 10°C. When the detected temperature exceeds this limit, the alarm icon flashes, and the beeper sounds to alert the user.

To set the Marker Temp Alarm:

1. Go to > **Marker Temp Alarm**.
2. Choose **Alarm Marker** and select the marker to use as the alarm point.
3. Choose **Alarm Setting** to define the alarm condition.
4. Turn on **Enable Alarm**.
5. Turn on **Beeper**.

Route

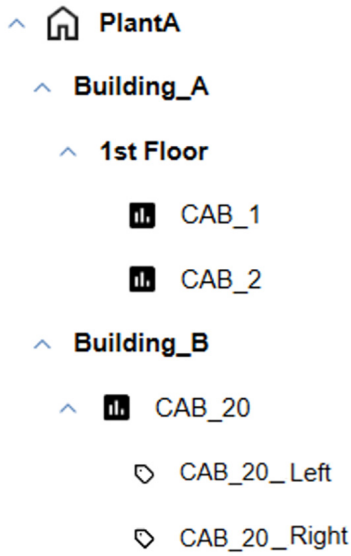
The route function allows you to predefine a route for inspections on the thermal imager. By setting the order of test points, it helps prevent missed inspections and standardizes the process. For each test point, you can preset parameters such as emissivity, temperature range, and alarm conditions. This ensures even less experienced personnel can perform inspections with the correct settings. During the inspection, the thermal imager guides you in a predetermined order. The captured images automatically associate with the corresponding inspection points and can be compared with historical data through automatic trend analysis in the PC software. Once completed, the software organizes images and quickly generates structured reports, improving data management and reporting efficiency.

The workflow consists of three parts:

1. Create a route file and import it to the Product using Fluke Connect Express.
2. Start, execute, and manage the route on the Product.
3. Upload completed route files from the Product to Fluke Connect Express for archiving, historical data analysis, and automated report generation.

Create and Import Route

Use the Fluke Connect Express PC software to create a route file. The route can include up to 200 test points, arranged in a hierarchical structure. For example:



- Assets named CAB_1 and CAB_2 at Building_A > 1st Floor
- An asset named CAB_20 and test points CAB_20_Left and CAB_20_Right affiliated to this asset at Building_B.

For each test point, including assets and affiliated test points, set the following parameters individually.

Table 12. Test Point Parameters

Parameter	Description
Asset ID	Each Asset ID must be unique in the route file. During inspection, scan the Asset ID to quickly switch to that test point. Captured images automatically use the Asset ID as their name. After uploading results to the PC software, images archive automatically by Asset ID for easy historical trend analysis.
Profile	Set a profile for each test point, which includes settings like emissivity, customized markers, and alarm conditions. The profile loads automatically when you switch to the point to ensure measurement consistency.
Comment	Add text descriptions to highlight precautions or specific observations. Limit the information to 40 characters.
Reference Image	Use a JPEG image as a reference. During inspection, adjust the reference image transparency and overlay it on the live view to ensure consistent composition with new images.

Export the route as a *.route file using the Fluke Connect Express software and copy it to the Routes folder on the Product.

Start, Execute, and Manage Routes

Access the Route tab in the Main menu.

Table 13. Route Menu

Option Menu	Option	Description
Start New Route	NA	Select a route file (*.route) to start a new route.
Auto Switch to Next Point	**On/Off**	Set to OFF: In route mode, after capturing an image at the current test point, the Product remains at the current test point. Set to ON: In route mode, after capturing an image at the current test point, the Product automatically switches to the next test point.

Table 13. Route Menu (cont.)

Option Menu	Option	Description
Route with In Progress Status	NA	• Resume Route: Restart the route. • Complete Route: Finish the route and set its status to Done. • Review Route: Enter the review interface to check or edit the images of each test point according to their hierarchical structure. • Delete Route: Remove the route from the list.
Route with Done Status	NA	• Review Route: Enter the review interface to check or edit the images of each test point according to their hierarchical structure. • Delete Route: Remove the route from the list.

Start New Route

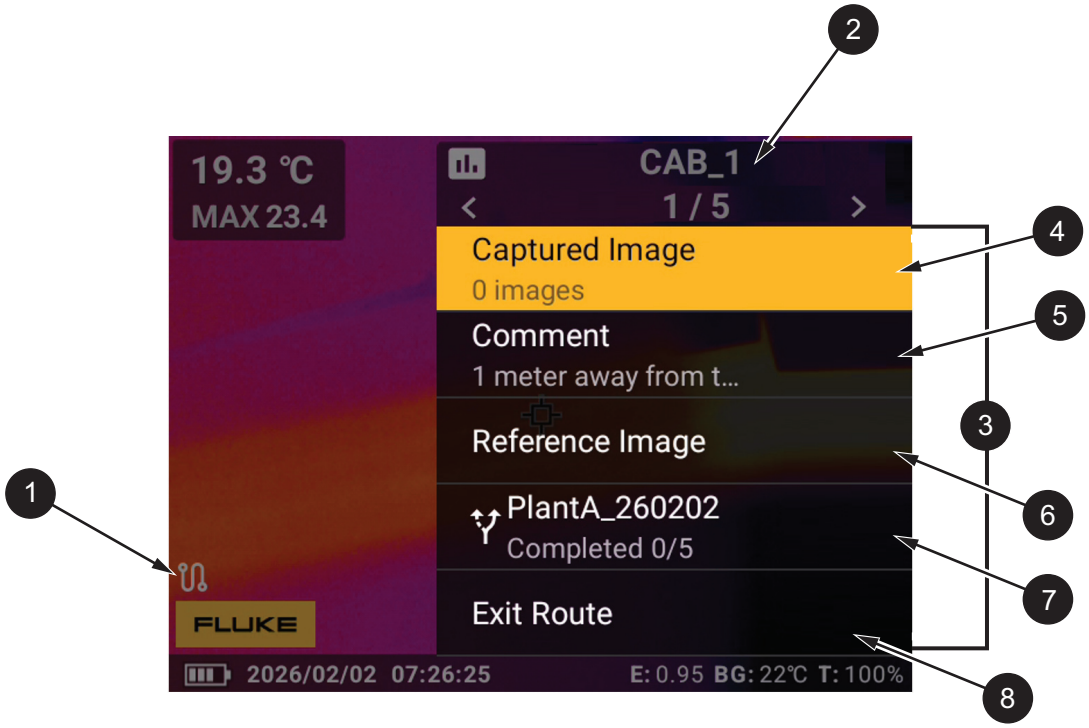
To start a new route:

1. Tap **Start New Route**.
2. Select a route from the list.
3. Press OK to start the new route.

   The Product enters route mode with the first test point loaded automatically.

The new route is named using the selected route name plus the current date. For example, if the selected route is “Plant_A” and the date is January 30, 2026, the new route is named “Plant_A_260130”. A folder with this new route name is created in the Product's Storage>Route_Images folder, and all images captured during this route are saved in this folder.

Table 14. Execute Route



Item	Description
1	Route Icon. Shows when in route mode.
2	Asset ID and Sequence Number. Displays total test points and current position. For example, "1/5" means 5 test points total, and you are at the first. A green dot appears next to the sequence number after capturing an image at the current test point. Use ◀ or ▶, or tap the left or right arrow, to switch to the previous or next test point.
3	Test Point Menu. Press OK or tap the Asset ID to open the menu.
4	Check Captured Images. View images from the current test point.
5	Check Comment. View the comment for the current test point.
6	Open Reference Image. Display the reference image full screen and adjust its transparency to overlay on the camera view.
7	Current Route. Add a test point, switch to a specific test point, or complete the route with Done status. "Completed 0/5" means 5 test points total, and 0 have images captured.
8	Exit Route. Exit and set the route to "In Progress" status.

Set Parameters

To ensure consistent measurement parameters for each test and prevent errors, you cannot access the Main Menu to modify parameters in route mode. You can configure test point parameters in two ways:

- Set a profile for each test point using the PC software Fluke Connect Express. When you switch to the test point in route mode on the Product, it automatically loads the associated profile.
- Configure parameters on the Product and save the settings as a profile before entering route mode. During testing, recall the saved profile using the **Action** menu to apply the settings.
- Use the Action Menu to perform operations like setting the flashlight, scanning the Asset ID, and adding markers. For more information, see *Action menu*.

Switch Test Point

To switch to previous or next test point:

Press ◀ or ▶, or tap left/right arrow icons on the Asset ID to move to the previous or next test point.

To switch to a specific test point:

- Press OK to open the test point menu. Select Current Route > Review Route, navigate to the test point, and press OK to switch.
- Active **Scan Asset ID**. Scan the test point QR code or enter its Asset ID manually to switch.

Note

If the scanned Asset ID is not in the route, you can add it as a new test point.

Add a new Test Point

To add a new test point:

1. Press OK to open the test point menu.
2. Select Current Route > Add Test Point, and enter the new test point Asset ID.

   The new test point is placed after the current one, and the Product automatically switches to it.

Note

If the new test point Asset ID already exists in the route, you can choose to switch to that test point.

Capture Image

In route mode, capture images the same way as in normal mode, but you cannot edit the Asset ID. You can capture up to 5 images for each test point.

Check Route Completion Status and Uncaptured Test Points

Check Route Completion Status and Uncaptured Test Points:

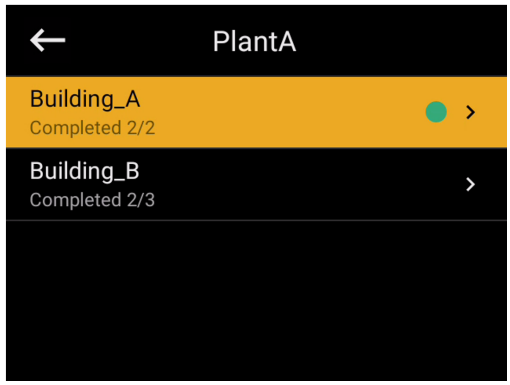
1. Press OK to open the test point menu.

   The subtitle of the current route shows the total number of test points and the number of completed test points.

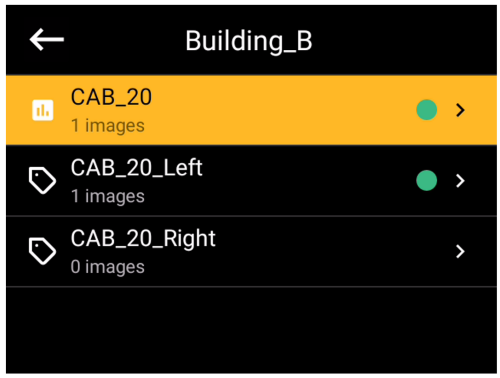
2. Select Current Route and choose Review Route.

   A green dot indicates that images for all test points at that location are captured.

For example, under Building_A, both test point images are captured. Under Building_B, only 2 out of 3 test point images are captured.



Select Building_B to see that the test point with Asset ID CAB_20_Right has no image yet.



Exit Route

Exit the route in three ways:

- When all test points are captured, the Product prompts you to complete the route. Choose Complete, and the route is set to Done status before exiting.
- Press OK to open the test point menu, then select Exit Route to exit. The route is set to In Progress status and can be resumed later.

- Press OK to open the test point menu, select Current Route, then tap Complete Route to exit. The route is set to Done status.

After exiting the route, the device settings restore to the state before entering route mode.

Manage Route

Access the Route tab in the Main menu. Executed routes show as In Progress or Done. Select a route to manage it.

Table 15. Route Management

Parameter	Description
Resume Route	Applicable to routes in In Progress status. Resume the route by selecting and tapping.
Complete Route	Applicable to routes in In Progress status. Set the route to DONE status by selecting it. *Note* *The Product supports up to 10 routes with In Progress status. If there are already 10, set one to Done status via "Complete Route" before starting a new route.*
Review Route	View route completion status by hierarchical location. Tap a test point to edit or delete its image.
Delete Route	Remove the route from the list. Images captured in this route are not deleted.

Data Archiving and Report Generation

After creating a new route, all captured images, are stores in a folder named with the route name (for example, Plant_A_260130) in the Product's Storage > Route_Images folder. Upload route files to the PC software Fluke Connect Express for image archiving, historical data analysis, and report generation.

Note

Only routes in Done status can be batch exported by route name in the PC software. When a route is set to Done, the Imager automatically generates a .routex file in the same folder as the captured images for automatic recognition by the PC software.

WiFi Menu

Table 16 lists the options in the WiFi menu.

Table 16. WiFi Menu

Option Menu	Option	Description
Scan Asset ID	NA	Assign images to an asset. Scan a QR code or barcode attached to an asset or manually enter an asset identification. See *Asset Identification (Asset ID)*.
Camera Hotspot	**Enable Camera Hotspot**	Turn on or off the Camera Hotspot.
	Camera Hotspot Settings	**Name (SSID)** Set the name of the Camera Hotspot.
		Password Set the password for the Camera Hotspot.

Asset Identification (Asset ID)

Use Asset ID to save and organize images by asset like a motor or electrical panel. Use a barcode, QR code, or other unique identification as a tag to attach to images. When in camera mode, the asset ID shows on the display and looks like 

. Make Asset IDs unique to each asset.

Assign Asset ID Tag with a QR Code or Barcode

To save images to an asset with a QR code or barcode:

1. Select  > **Scan Asset ID**.
2. Focus a QR code or barcode in the visible light camera box on the display.
3. When the Product detects and scans a barcode, tap **Use Barcode** or **Use QR Code**. If the Product cannot detect a barcode or QR code, manually enter a unique asset ID. See *Assign Asset ID Tag Manually*.

   The display returns to camera mode, and the barcode or QR code number shows on the display.
4. Capture an image.

After scanning the Asset ID, saved images are named with Asset ID information directly, so that the images can be associated with assets automatically.

For example, the scanned Asset ID information is 3F_Cabinet, and this Asset ID is displayed on the display in Camera mode. When the image is saved, the file name is automatically named 3F_Cabinet_Date_Time.jpg.

Assign Asset ID Tag Manually

To manually enter a unique asset ID:

1. Select > **Scan Asset ID**.
2. Tap **Manual Entry**.

   A keyboard opens on the display.
3. Enter a unique asset identification.
4. Tap **Save**.

   The display returns to camera mode, and the asset ID shows on the display.

Delete an Asset ID Tag

To exit out of an asset ID and save images without an asset ID:

1. In Camera mode, tap the asset ID that looks like xxxxxxxx on the display.
2. Tap **Delete Asset ID xxxxx** (where xxxxx is the name of the asset ID).

   The display returns to camera mode, and the asset ID does not show on the display.

Assign a Different Asset ID Tag

To exit out of an asset ID and save images with a different asset ID:

3. Tap the asset ID that looks like xxxxxxxx on the display.
4. Tap **Scan New Asset ID**.
5. Assign a new asset ID. See *Asset Identification (Asset ID)*.

Camera Hotspot

Use the Product to create a wireless Hotspot. You can use the Hotspot to download saved pictures or videos from the Product to a mobile device or a computer.

To enable the Camera Hotspot:

1. Go to > **Camera Hotspot**.
2. Turn on **Enable Camera Hotspot**.

   The display shows .

To change the hotspot settings:

Select > **Camera Hotspot** > **Camera Hotspot Settings**.

1. Select an option:
   - **Name (SSID)** to change the SSID
   - **Password** to change the password
2. Use the keyboard to enter the information for the option.

Tap **Save** to confirm the settings.

Settings Menu

Table 17 is a list of the options in the Settings menu.

Table 17. Settings Menu

Option Menu	Option	Description
Capture Settings	**Video Capture**	See *Capture Settings*.
	Auto Capture	See *Auto Capture*.
	Bluetooth Headset	See *Bluetooth Headset*.
	Visible Image Resolution	Set the resolution of the visible image.
Measurement Profile	**Save Current Profile**	Save current settings as a named profile.
	Load Profile	Load a saved profile from a list.
Flashlight	NA	Turn the flashlight on or off.
Language	<options>	Set the language to use on the display.
Units	<options>	Sets the units to Metric (Celsius, meter) or Imperial (Fahrenheit, foot). This option is not available in all countries.
Date	<options>	Set the date format and the date. See *Date*.
Time	<options>	Set the time format and the time. See *Time*.
Auto Off	**LCD Time Out**	Set the time before the display automatically turns off.
	Power Off	Set the time before the Imager automatically turns off.
Decimal Separator	<options>	Set the decimal separator to comma or decimal point.
Power On Profile	**Load Profile at Startup**	Turn loading a startup profile on or off. Choose a saved profile from a list.
Filename Prefix	NA	Change the default filename that starts with IR_ to a different prefix with the touch screen keyboard.

Table 17. Settings Menu (cont.)

Option Menu	Option	Description
Secondary Trigger	**Laser**	Set the function of the secondary (black) trigger to the laser function. The laser is active only while pushing the trigger.
	Scan Asset ID	Set the function of the secondary (black) trigger to the QR code reader function. Use the QR code reader for Asset Tagging.
	Flashlight	Set the function of the secondary (black) trigger to the flashlight function.
Backlight	NA	Adjust the backlight intensity with a slider.
Logo	NA	Show or hide the Fluke logo on the display.
Restore Factory Defaults	NA	Erase all user-set preferences and restores the factory default settings. This does not erase images in memory.
Certificates/ Licenses/ Version	**Certificates**	Show information about the certifications of the Product.
	Licenses	View information about the version, certificates, and Open Source Software Licenses of the Imager.
	Version	Show model number, serial number, and firmware version of the camera.

Capture Settings

Video Capture

You can record video with and without audio. See Table 18.

Table 18. Video

Option	Description
Record Video Only	Start a video recording when the primary trigger is pressed. See *Record Video*.
Record Video/Audio	Requires a Bluetooth headset. Starts a video recording with audio. See *Record Video*.

Table 18. Video (cont.)

Option		Description
Video File Fomat	**IS5**	Save videos as an .is5 file with radiometric video capture. Maximum recording time for .is5 format is 5 minutes. Choose the .is5 video format when video modification and analysis is needed. To edit the .is5 video file, use the Fluke Connect Express software.
	MP4	Save videos as an .mp4 file. Maximum recording time for .mp4 format is 60 minutes. Choose the .mp4 video format when video modification is not required.

Record Video

To quickly record a video, push and hold the primary trigger for 2 seconds in camera mode. Release the button once the recording starts.

To record:

1. Select **Capture Settings** > **Record Video only** OR **Record Video/Audio**.
2. Push the primary trigger.
3. The Imager starts the recording.
4. To stop the recording, push the primary trigger.

   The video is saved automatically.

View Video

To play a video:

1. Push .
2. Select a file to play. All video files show as a thumbnail.
3. Tap the play button.
4. To pause or restart tap the screen.
5. To delete, tap  and then tap **Delete** to confirm.

Auto Capture

Use Auto Capture to set parameters so the camera will automatically take images.

To configure **Auto Capture**:

Select **Capture Settings** > **Auto Capture**. For more information, see Table 19.

Table 19. Auto Capture

Option	Description
Interval	Capture images at a specified interval. Use arrow buttons to set the interval time.
Image Count > **Number of Images**	Capture a set number of images. Use arrow buttons to select the number of images.
Image Count > **Maximum Memory**	Capture images until the memory is full.
Temp Trigger	Capture images automatically when the temperature reaches a certain point. Choose if the trigger is Above or Below this temperature. Use arrows to set the desired temperature. Select the reference point for monitoring the temperature.
Manual Trigger	Start the Auto Capture manually.

Start Auto Capture with Manual Trigger:

1. Select **Capture Settings** > **Start Capture**.

   appears on the display.

2. Push the primary trigger.
3. The Imager will take images as configured.

Start Auto Capture with Temp Trigger:

1. Position the camera and set the markers and spot boxes as required.
2. Select **Capture Settings** > **Start Capture**.

   appears on the display.

   The Imager takes images when the reference point reaches the trigger condition.

Bluetooth Headset

Connect a Bluetooth Headset to support audio features.

To connect a Bluetooth Headset:

1. Put the Bluetooth Headset into pairing mode.
2. On the Imager, select **Bluetooth Headset** > **On**.

   The Imager starts to scan and presents a list with of available devices. You can expect a short delay before the scan is complete.

3. Tap the headset to select it.

   The headset connects and shows on the My Devices list. A headset icon displays in camera mode.

Measurement Profile

You can save the product's measurement parameters, including the number and position of markers, as a Profile file for easy recall. This improves work efficiency and prevents errors from incorrect settings. Table 20 shows parameter settings for the Default Profile.

Table 20. Default Profile Settings

Option	Value
Temperature Range	Full Automatic Range
Temperature Scale	Auto Temp Scale
Emissivity	0.95
Background Temp	22 °C
Transmissivity	100%
Distance	1.0 m
Palette	Ironbow
Picture in Picture	OFF
IR-Fusion	100%
Color Alarm	OFF
Super-resolution	OFF
Spot Temp	MAX, Center
3 Phase Delta-T	OFF
Points/Lines/Areas	OFF
Delta-T	OFF
Line/Area Display	MAX
Marker Temp Alarm	OFF
Scale Display	ON

Save Current Profile

To save the current profile:

1. Tap Save Current Profile and enter the Profile name.
2. Tap Save to finish.

Note

*The saved Profile creates a *.profile file stored in the Product's "Profiles" folder. You can copy this file to the "Profiles" folder of another product for direct use. You can also create Profiles using the PC software Fluke Connect Express.*

Load Profile

To load a profile:

1. Tap Load Profile.
2. Select a Profile to load.
3. Tap the back icon to exit, and the selected profile applies.

Date

The date shows as: **YYYY/MM/DD**, **MM/DD/YYYY** or **DD/MM/YYYY.**

Time

Time shows as: **24 hour** or **12 hour**.

Image Annotation

You can annotate images with text and audio. See Table 21.

Table 21. Annotations

Option	Description
Text Note	Add text notes. See *Text Notes*.
Audio Note	Add audio notes. See *Audio Notes*.
IR-PhotoNotes	Add photo images from the visible light camera. See *IR-PhotoNotes*.
Flag Image	Mark an image for review. See *Flag an Image*.

Text Notes

Notes are stored with the image so you do not need to collate multiple files later. To add, edit, and delete notes, use the keyboard that opens on the display. Up to 5 text notes can be added to one image.

Images that have text notes show with the note icon ( ).

Notes with Single Image

Choose a method to add, edit, or delete a note for an image:

- For an image in the memory buffer: Select **Edit > Text Note**.
- For a saved image: Open the image in full screen mode.

1. Tap ••• > .

   If no notes are saved with the image, a keyboard opens on the display.
2. Use the keyboard to enter a message.
3. Tap **Save**.

If a note is saved with the image, a list of notes opens on the display.

4. To add another note to the image, tap ⊕, use the keyboard to add the new note, and tap **Save**.
5. To edit a note, tap on a note, use the keyboard to edit it, and tap **Save**. If needed, scroll down to see all the notes.
6. To delete a note, tap 🗑, and confirm.

Add a Note to Multiple Images

To add a note to multiple images at the same time:

1. Press 🖼.
2. Select ••• > **Add a Note to Multiple Images**.

   The display returns to the gallery.
3. Tap an image to select it.

   The border color changes to yellow.
4. Tap an image again to clear the selection.
5. Repeat for each additional image.
6. Tap **Add Note**.

   A keyboard opens on the display.
7. Use the keyboard to enter a message.
8. Tap **Save**.

Audio Notes

Audio notes require a Bluetooth headset. Images with audio notes display an audio icon. 🔊

Record Audio Notes

Choose a method to add, edit, or delete a note for an image:

- For an image in the memory buffer: Select **Edit > Audio Note**.
- For a saved image: Select image > **...** > **Audio Note**.

To record an Audio Note:

1. Tap **Record** and begin recording.

   You can record up to 60 seconds of audio.
   - To cancel, tap **Cancel**.
   - To pause, tap **Pause**.
   - You can save or playback while the recording is paused. To playback, tap **Play**.

2. To save the recording tap **Pause** and then tap **Save**.

   The Audio note is saved. The menu shows the number of seconds of the Audio note.

Review Audio Notes

You can review the recorded audio note.

- To listen to the recording, tap **Play**.
- To record replacement audio, tap **Record**.
- To delete the audio note, tap **Delete**.

IR-PhotoNotes

Use the IR-PhotoNotes photo annotation system to capture visible images of various objects, text, or other information that is related to the analysis and reporting of an infrared image. A visible image is a clear digital photo and does not use infrared technology. Examples of possible annotations include motor name plates, printed information or warning signs, larger views of the environment or room, and related equipment or objects. IR-PhotoNotes images are stored in the file so you do not need to collate multiple files at a later time.

Images that have IR-PhotoNotes show with the icon ( ).

Make IR-PhotoNotes

Choose a method to add, edit, or delete a note for an image:

- For an image in the memory buffer: Select **Edit** > **IR-PhotoNotes**.
- For a saved image: Select > Image > **...** > **IR-PhotoNotes**.

The Imager opens the Visible Light Camera so you can take an image.

1. For each image to save, push the primary trigger to take an image.
2. To stop taking images and return to the menu, tap **Done**.

   The images are saved and the menu shows the number of images.

Review IR-PhotoNotes

For an image in the memory buffer:

1. Select **Edit** > **IRPhotoNotes**.

   The Imager opens the images.

2. Tap an image to select the image.
3. To delete an image, tap the trash icon, and then tap **Delete**.

Flag an Image

Flag an image to review later. There are 4 different flags to indicate severity levels.

For an image in the memory buffer:

- Select **Flag Image.**

For a saved image:

- Open the image in full screen mode.

Tap the flag icon to choose the proper one from the flag list.

Gallery Menu

Use the Gallery menu to view, edit, or delete images. Images are organized by the date they were captured with the newest images at the top.

When additional information has been saved, an icon shows with the preview file. Table 22 shows the icons.

Table 22. Image Icons

Icon	Description
	Asset ID
	Text Note
	Audio Note
	IR-PhotoNote
	Asset flag

View Image

To open an image in fullscreen mode:

1. Push .
2. If needed, touch the display and slide up or down to view all the images.
3. Tap on a thumbnail or preview image to view the image full-screen.

   A toolbar briefly opens on the top of the display. Tap on the image to open or close the toolbar.

Manage Images

You can delete images from Gallery or during review.

Delete an Image

To delete only one image:

1. Open an image in full-screen mode.
2. Tap .
3. Tap **Delete Image**.

Delete Multiple Files

To delete multiple images at the same time in Gallery menu:

1. Select ••• > **Delete Multiple Files**.

   The display returns to the gallery.

2. Tap an image or a video to select it.

   The border color changes to yellow.

3. Repeat for each additional image.

4. Tap **Delete**.

Delete All Files

To delete all of the images at the same time in the Gallery menu:

1. Select ••• > **Delete All Files**.

   Tap **Delete**.

Asset ID

Use the image toolbar to add or remove an asset ID from an image that is saved in memory. See *Asset Identification (Asset ID)*.

To add an asset ID to an image:

1. Open an image in fullscreen mode.
2. Tap .
3. Assign an asset ID. See *Asset Identification (Asset ID)*.

To delete an asset ID from an image:

1. Open an image in fullscreen mode.
2. Tap the asset ID that looks like xxxxxxxx on the display.
3. Tap **Delete**.

   The display returns to the image in fullscreen mode, and the asset ID does not show on the display.

Action menu

Users can add up to 6 shortcuts for commonly used functions into the Action Menu, which can be quickly and directly recalled when needed.

To enter the Action menu, press the **Action** button.

Using Shortcuts

To use a shortcut:

1. Push ACTION to enter the Action menu.
2. Tap a shortcut window.

   The assigned function is performed.

Configuring Shortcuts

To configure shortcuts:

1. Tap **Action Setting** to enter the Action settings interface
2. Tap the shortcut you want to change.

   Select Action page is loaded.
3. Select a function in the **Select Action** page to replace the function of the selected shortcut.

   The selected shortcut is replaced.

Table 23. Action Selection List

Option	Description
Add Point	Add one new point to the display in Camera mode.
Add Line	Add one new line to the display in Camera mode.
Add Area	Add one new area to the display in Camera mode.
Set 3 Phase Delta-T	Turn 3 Phase Delta-T on or off. For more information, see *Delta-T*.
Remove All Markers	Clear all markers on the display in Camera mode.
Set Emissivity	Load emissivity setting menu to set emissivity. For more information, see *Emissivity*.
Set Auto/Manual Scale	Toggle Auto/Manual scale. For more information, see *Level/Span*.
Start Video	Start Video recording.
Share Image via Camera Hotspot	Turn on/off camera hotspot to share image. *Camera Hotspot*.
Start New Route	Select a route file to start a new route.
Load Profile	Select a profile to be loaded. The selected Profile name is displayed in the shortcut.
Save Current Setting as Profile	Save the current settings to be a new profile.

Table 23. Action Selection List

Option	Description
Open Profile List	Open the list of all available profile in the camera.
Flashlight On/Off	Toggle Flashlight On/Off.
Scan Asset ID	Load Scan Asset ID menu. For more information, see *Assign Asset ID Tag with a QR Code or Barcode*.

Accessories

See https://www.fluke.com for a list of accessories available for the Product.

Maintenance

The Product requires minimum maintenance.

Clean the Case

Clean the case with a damp cloth and a weak soap solution. Do not use abrasives, isopropyl alcohol, or solvents to clean the case.

Lens Care

⚠ Caution

To prevent damage to the infrared lens:

- **Carefully clean the infrared lens. The lens has a delicate anti-reflective coating.**
- **Do not clean the lens too vigorously because this can damage the anti-reflective coating.**

To clean the lens:

1. Use a pressurized can of air or a dry nitrogen-ion gun, if available, to blow off the particulates from the lens surface.
2. Soak a lint-free cloth in a commercial lens cleaning liquid that contains alcohol, ethyl alcohol, or isopropyl alcohol.
3. Squeeze the cloth to remove excess liquid.
4. Wipe the lens surface in one circular motion and discard the cloth.
5. If needed, repeat with a new lint-free cloth.

Battery Care

To get the best performance from the lithium-ion battery:

- Do not charge the Product for more than 24 hours as reduced battery life may result.
- Charge the Product for at least 2.5 hours every six-months for maximum battery life. Without use, the battery will self-discharge in approximately six months.

Charge Batteries

⚠ Caution

To prevent damage to the Imager:

- **Do not store the batteries in extreme cold environments.**
- **Do not attempt to charge the batteries in extreme cold environments.**

⚠ Caution

Do not incinerate the Product and/or battery.

Before you use the Imager for the first time, charge the battery for at least 2.5 hours. The battery status shows on the five charge LEDs on the battery.

Note

New batteries are not fully charged. Two to ten charge/discharge cycles are necessary before the battery charges to its maximum capacity.

To charge the battery, use one of the options that follow.

Two-Bay Battery Charger Base

To charge the battery in the charger base:

1. Connect the ac power supply to the ac wall outlet and connect the dc output to the charger base.
2. Put one or two smart batteries into bays of charger base.
3. Charge batteries until charge LEDs on charger base are a solid green.
4. Remove smart batteries and disconnect the power supply when batteries are fully charged.

Type-C connector

Note

Make sure that the Imager is near room temperature before you connect it to the charger. See the charging temperature specification on the safety information sheet. Do not charge in hot or cold areas. When you charge in extreme temperatures, battery capacity may be decreased. When you charge in extreme temperatures, the battery may not charge.

To charge the battery with the ac power socket on the Imager:

1. Connect the ac power adapter into an ac wall outlet and connect the other end to the Type-C connector on the Imager.
2. Charge until the charge indicator on the display does not flash.

   If you remove the Imager from the charger before a full charge shows, it can have a reduced run-time.

3. Disconnect the ac power adapter when the smart battery is fully charged.

Radio Frequency Data

See Table 17 for instructions on how to access digital copies of the Certificate IDs on the Imager.

To view the Radio Frequency Data Class A Instruction Sheet, visit https://www.fluke.com/en-us/support/manuals and search for *Radio frequency*.

Specifications

Complete specifications are at https://www.fluke.com. See the *TiS55 PRO/TiS65 PRO/TiS75 PRO Product Specifications*.