FLUKE®

ii1030/ii1050/ii1050C

Acoustic Imager

Users Manual

October 2026
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Fluke Corporation	Fluke Europe B.V.
6920 Seaway Blvd.	PO Box 1186
Everett, WA 98203	5602 BD Eindhoven
U.S.A.	The Netherlands

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Introduction

The Fluke ii1030/ii1050/ii1050C is an Acoustic Imager (the Product or Imager) that detects and locates an acoustic signature. These signatures can indicate leaks in compressed air, compressed gas, and vacuum systems.

In addition to leaks, the ii1050/ii1050C detects electrical discharges and potential mechanical issues.

Examples of these electrical discharges include partial discharge such as corona, floating and surface. Examples of mechanical issues include bearing deterioration.

The Imager has an acoustic sensor-array that aligns a sound-source heatmap with the image. The visible-light camera provides a live-view image of the inspection area. In this state, the microphone and camera are enabled and active; sensors may collect image and audio data during operation; please use only in authorized scenarios and observe privacy protection. Capture and save still image files and video files from the inspection for documentation and reports.

A rechargeable battery powers the Imager. The Imager includes a USB-C Charger with detachable country specific plugs.

The Imager has a USB-C port that connects to a PC for file download and firmware updates.

The port can also be used to insert a compatible Fluke iSee plug-in thermal camera to capture and analyze both thermal and acoustic images simultaneously in a combined dual-display mode.

Contact Fluke

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.

+1-425-446-5500

fluke-info@fluke.com

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.

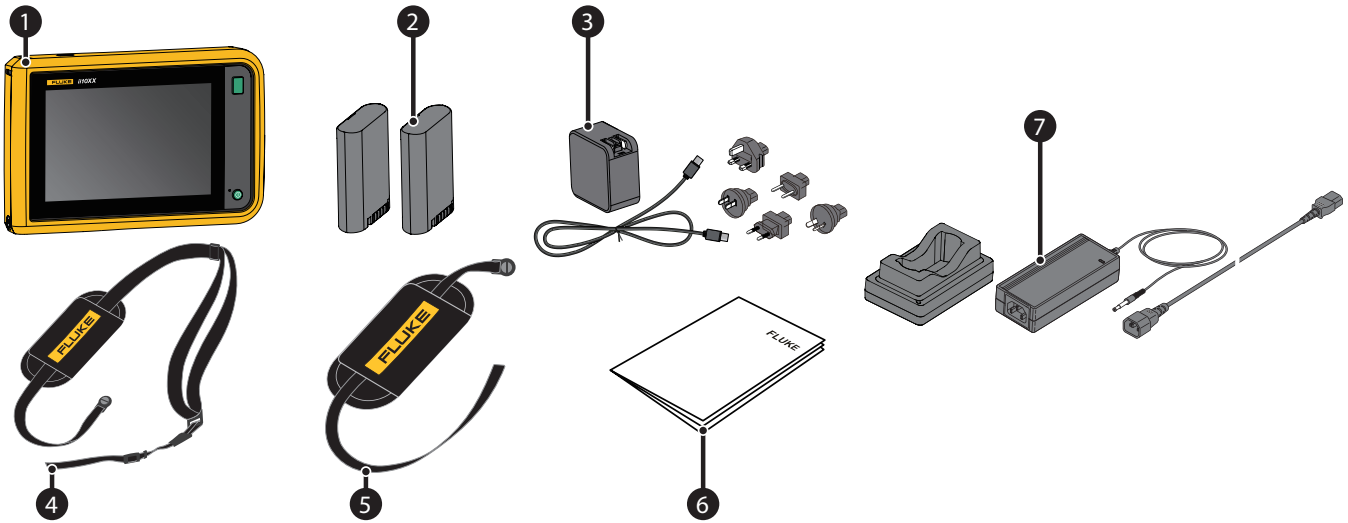
Specifications

Complete specifications are at https://www.fluke.com/. See the ii1030/ii1050/ii1050C Product Specifications.

Before You Start

Table 1 is a list of items included with the Imager. Use the part numbers to order additional accessories.

Table 1. Standard Equipment



Item	Description	Part Number
1	Acoustic Imager	-
2	Rechargeable Lithium-ion Battery (2x)	6126579
3	USB-C Charger with country specific connectors and USB-C Cable	6049843
4	Neck Strap	6049858
5	Hand Strap	6173658
6	Included documentation	-
7	External Battery Charger/Adapter and Power Cord (Optional)	5385738

Terms to Know

Use this section to familiarize yourself with these terms that are unique to this Imager and sound pressure measurements.

Decibel (dB) Sound Pressure Level (SPL). The unit of measurement for changes in sound pressure. Decibel indicates the level of the sound (against the reference level of sound in air) and is expressed in terms of dB SPL.

Distance to target. The distance between the leak source and the acoustic sensor is critical. The decibel level that the Imager can measure decreases with the square of this distance.

Sound Frequency / Acoustic Frequency / Frequency Band. The frequency corresponds to the number of sound vibrations/second and is expressed as Hertz (Hz) or thousands of Hertz (kHz).

Frequency Range

Audible (up to 20 kHz). The range that human ear can perceive sounds.

Ultrasonic (above 20 kHz). Certain issues (leaks, electrical discharges, mechanical failures) generate sound signatures in ultrasonic ranges. The human ear cannot perceive the ultrasonic range that the Imager can detect.

Frequency Selection / Frequency Filtering / Selected Frequency Band. Select a frequency band for measurement and visualization of sound. When a frequency band is selected, any sound outside of that range is filtered and not shown or considered.

Background Noise. The noise that exists in the surroundings that the microphone sensors detect along with the sound sources of possible leaks. Generally, background noise is higher in lower frequencies. In noisy environments, select higher frequencies to help discriminate the leak sounds.

Frequency / Spectrum Graph. A graphic chart on the display shows the level of sound detected in all frequency ranges.

Frequency Spike. Spike in the frequency / spectrum graph that indicates a significant source of sound in this specific frequency. If this spike is within the frequency selection, the Imager visualizes the source on the display.

Field-of-View (FOV). What is detected by the Imager at a particular position and orientation in space.

Sound Reflections. Sound signals reflect, particularly on smooth and flat surfaces. In certain conditions, the Imager shows on the display a hot spot from the source of noise and one or more hot spots from reflections.

LeakQ™. LeakQ is a capture mode that estimates the size of a leak. LeakQ Scale is a scale from 0 to 10 that is an indication of the leak size. The Imager calculates a value based on the measured dB SPL level and the distance value. The distance value is automatically determined or you input a value with the display keyboard.

PDQ Mode™. PDQ Mode is a capture mode that detects and locates potential partial discharges. The PDQ Mode indicates a possible type of Partial Discharge (Corona, Floating, Surface or Other), Pulse count indication/minute (optional), and Phase-resolved Partial Discharge Plot (PRPD plot).

Partial Discharge (PD). PD is a localized dielectric breakdown that does not completely bridge the electrical insulation between two conductors under high voltage.

PD types are classified into three main types:

Corona discharge (External), is the ionization of a fluid, gas, or air surrounding a conductor that is electrically charged at high voltage.

Floating discharge occurs when electrical charge builds up over time on a conductor that is not connected to anything else.

Surface discharge (Tracking) tracks across the surface of different insulation materials.

MecQ™. MecQ is a capture mode that detects and locates potential anomalies in mechanical components as an early identification of possible mechanical deterioration that requires further inspection.

Beacon Mode

Beacon Mode is a capture mode in a specialized setting that fixes the camera's frequency filter to 40 kHz, optimized for detecting the ultrasound signal from the Fluke SB140 Sound Beacon™.

Power On/Off

To turn on the Imager, push and hold ⏻ >2 s.

To turn off the Imager, push ⏻. Tap OK to continue.

Power and Charging Indication

- The power led lights up green to show the Imager is starting.
- The power led identifies the state of the battery: red is low power, amber is charging, and green is charged.

Battery

⚠ Caution

To prevent damage to the battery:

- **Do not expose battery to heat sources or high-temperature environments such as an unattended vehicle in the sun.**
- **Do not store the battery on the charger for more than 24 hours as reduced battery life may result.**
- **Charge the battery for a two-hour minimum at six-month intervals for maximum battery life. Without use, the battery will self-discharge in approximately six months.**
- **Always operate in the specified temperature range.**
- **Do not incinerate the Product and/or battery.**

The battery has an indicator with four LEDs (25 %, 50 %, 75 %, and 100 % charge) and a test button. To check the battery charge, push (TEST). The LEDs light to show the battery charge level. If all four LEDs are on, the battery charge is at 100 % of available capacity.

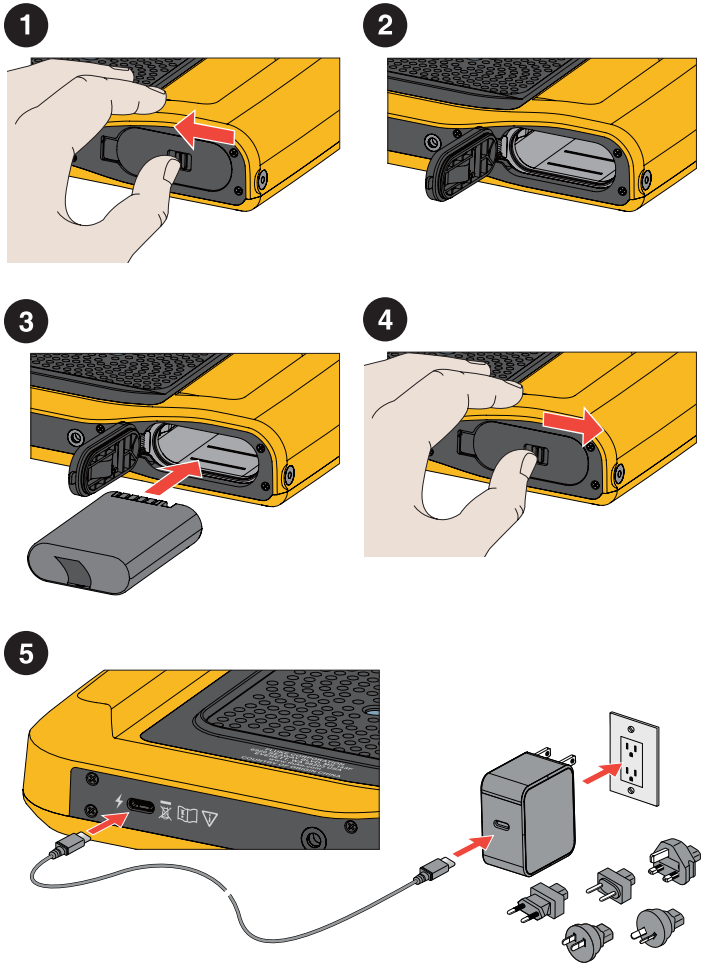
To install the battery:

1. Open the battery door. See *Figure 1*.
2. Insert the battery with the contact side first.
3. Replace the battery door. Make sure that the battery tab does not interfere with the lock and the door is firmly closed.

To charge the battery:

Connect the USB-C Charger to the AC wall outlet and connect the USB-C cable to the USB-C charging connector next to the battery compartment.

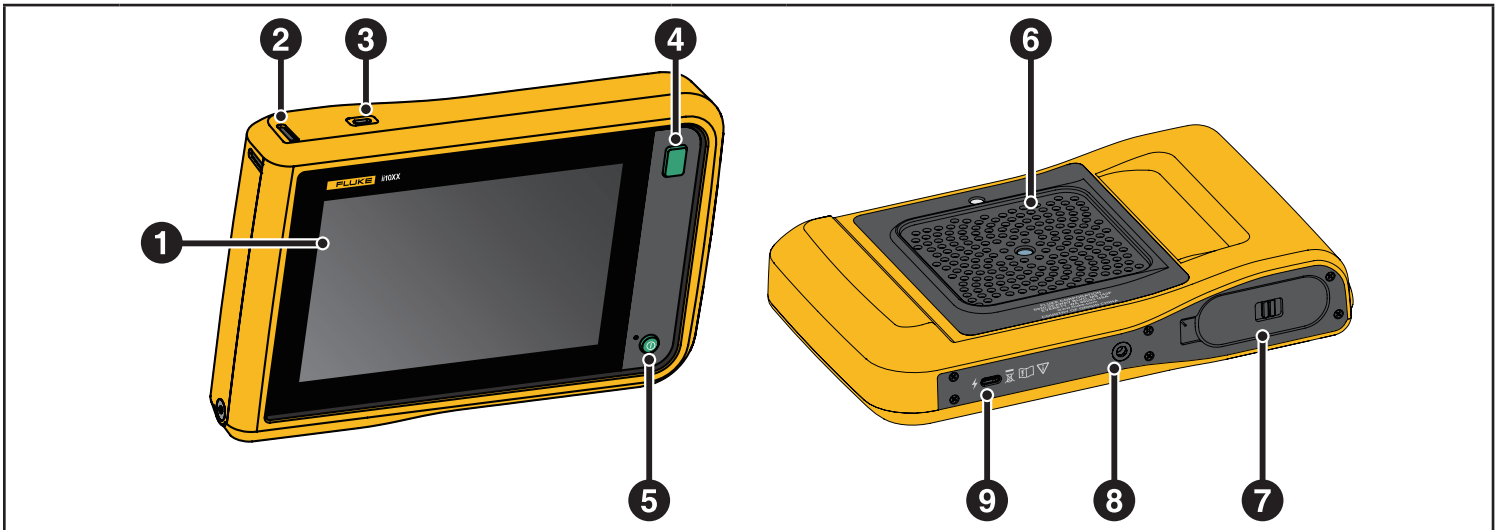
Figure 1. Battery



Features/Buttons

Table 2 is a list of the Imager features.

Table 2. Feature/Control Descriptions



Button	Function	Button	Function
1	Touchscreen Display	6	Acoustic Sensor
2	Hand/Neck Strap Anchor	7	Battery Compartment
3	USB-C Connector (For Data or Fluke iSee thermal camera.)	8	Tripod Mount
4	Capture Button	9	USB-C Connector (For Charging)
5	Power On/Off		

Hand Strap/Neck Strap

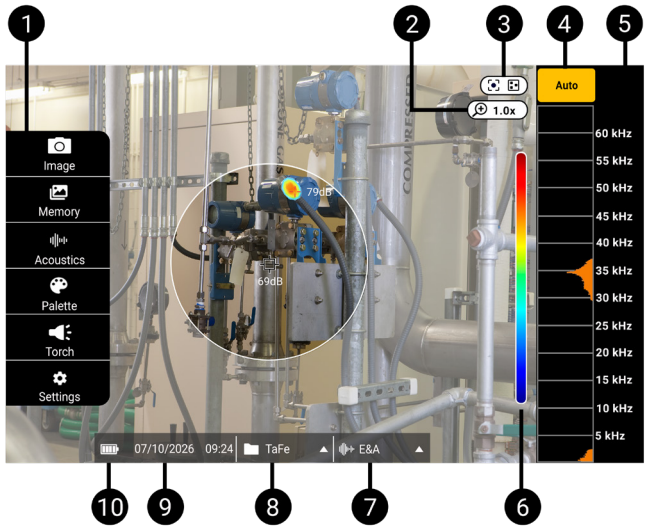
The Imager includes a hand strap and a neck strap that makes it easy to hold and operate as you take measurements.

Display

The color display is a touchscreen that shows the test area as a visual image combined with a sound image. See *Table 3*.

With the touchscreen you are able to set up and adjust all the test parameters. For more information, see *Basic Operation*.

Table 3. Touchscreen



Item	Description
1	Tool Menu
2	Zoom
3	Capture Mode
4	Auto/Manual Mode
5	Frequency Range of Spectrum
6	Palette of dB SPL Scale
7	Profile Selection (when enabled)
8	Folder Selection
9	Time/Date Stamp
10	Battery Status

Menus

To view the tool menu, tap your finger on the display. This action reveals the menu for parameter settings. Tap anywhere on the display outside the menu to hide the menu.

Capture Mode

When you push the **Capture** button, you save an image of the scene in the selected mode.

To select the capture mode:

1. Open the tool menu.
2. Tap the Capture Mode icon to open the Capture Mode menu.
3. Tap on the option to select.
   The icon on the tool menu and the display change to show the selected mode.
4. Tap anywhere on the display outside the tool menu to hide the menu.

Image

Image mode captures a still photo of the scene with overlapping sound image and saves it in a .JPG format. The Image mode is the best method for the initial scan of the scene for any type of issue. If an issue is detected, then you have options for advanced analysis modes. See *Capture Analysis Modes*.

1. Push the Capture button to save the still photo
   After the image is saved, a small image (thumbnail) shows on the screen.
2. Tap to add notes, photo notes, or tags to the image.
   See *Memory* for more information.

Video

Video mode captures a video of the scene with overlapping sound image and saves it in an .MP4 format.

1. Push the Capture button to start recording.
   The elapsed time shows as the Imager records.
2. Push the Capture button again to stop recording and save the video.
   After the video is saved, a small image (thumbnail) shows on the screen.
3. Tap to add notes, photo notes, or tags to the image.
   See *Memory* for more information.

Capture Analysis Modes

LeakQ™ Mode. The Imager is able to capture the leak data for later use to evaluate the type of leak (quick connect, threaded coupling, hose, open end) and estimate the size of the leak.

PDQ Mode™ (ii1050/ii1050C). The Imager is able to detect, locate, and capture potential partial discharges and evaluate the type of partial discharge (corona, surface, floating or other) and Phase-resolved Partial Discharge Plot (PRPD plot).

MecQ™ Mode (ii1050/ii1050C). The Imager is able to detect, locate, and capture a picture of components that may have mechanical deterioration and require further attention.

Beacon Mode (ii1030/ii1050/ii1050C). A specialized setting that fixes the camera's frequency filter around 40 kHz, optimized for detecting the ultrasound signal from the Fluke SB140 SoundBeacon™ ultrasonic transmitter (ii1030/ii1050/ii1050C). This mode allows users to easily visualize and pinpoint leak locations in sealed, non-pressurized spaces, such as automotive doors, windows, or maritime vessels.

TI Mode (ii1030/ii1050/ii1050C). The Imager is able to capture the thermal imaging and visual light camera at the same time into one display when plug-in Fluke iSee thermal camera is connected to USB-C port. When connected in other modes the thermal image and acoustic image are shown side by side. Note that only image data and no thermal measurement data is captured when saved.

To select the capture analysis mode:

1. Open the tool menu.
2. Tap the Capture Mode icon to open the Capture Mode menu.

- Tap for the LeakQ mode.
- Tap for the Beacon mode. The icon on the tool menu and the display change to show the selected mode.

ii1050/ii1050C:

- Tap for the PDQ Mode.
- Tap for the MecQ mode.
- Tap for the TI mode.

Online tools and calculators are available to create reports with (data) captures. For more information, go to: www.fluke.com/ii-reporting.The capture analysis modes show on the display when the on-device option is turned on. When on, a portion of the analysis shows on-screen at the time of capture (see *Settings* and *Operating Conditions*).

LeakQ™ Mode

LeakQ mode estimates the LeakQ value (1-10), leak rate (l/min or CFM) and leak cost (per year) for leaks shown inside the circle on the display.

The values are based on the measured dB SPL value, operating conditions (settings menu) and the distance.

If a leak shows inside the circle on the display:

- Values for **DISTANCE** and LeakQ Scale show on the display.
- **NO TARGET FOUND** shows on the display when no leak is detected inside the circle.

If the Imager cannot automatically determine the distance, this message shows on the display:

UNABLE TO ESTIMATE DISTANCE

If the Imager is unable to determine the distance, or you want to override the estimated distance, you can input the distance manually.

To input the distance manually:

1. Tap on the message to open a numeric screen and enter the distance.
   The Imager uses the entered distance to calculate the LeakQ values.

Note

Stabilize the Imager for a few moments as it calculates the values.

2. Push the Capture button to make a more precise calculation.
3. If the measured distance requires additional adjustment, tap the Distance box to update.
4. Push Capture button or Save in the menu.
   The Imager saves the still photo of the scene with overlapping sound image and values in .JPG format. You can add notes, photo notes, or tags to the image. See *Memory* for more information.

Note

For best results:

- *Move the Imager around the leak to find the highest LeakQ value. This will best reflect the actual leak size.*
- *Obstacles within the circle can influence the calculated distance and LeakQ value.*
- *High background noise will influence the calculated distance and LeakQ value.*

PDQ Mode™ (ii1050/ii1050C)

PDQ Mode™ captures data from a Partial Discharge (PD) that enables further analysis such as type of discharge and severity. The PD must be inside the circle on the display.

When a PD is detected, the PD Count value on the display gives an indication of the pulses generated by that partial discharge.

If a Partial Discharge shows inside the circle on the display:

- Values for estimated **DISTANCE** show on the display.
- **NO TARGET FOUND** shows on the display when no PD is detected inside the circle.

If the Imager cannot automatically determine the distance, this pop-up message shows on the display:

UNABLE TO ESTIMATE DISTANCE

If the Imager is unable to determine the distance, or you want to override the estimated distance, you can input the distance manually. See *LeakQ™ Mode*.

Note

See LeakQ Mode for instructions on capture. (not releated to PD Count)

The Imager saves the still photo of the scene with overlapping sound image and values in or .JPG format. You can add notes, photo notes, or tags to the image. See *Memory* for more information.

MecQ™ Mode (ii1050/ii1050C)

MecQ™ mode detects and locates potential anomalies in mechanical components as an early identification of possible mechanical deterioration that requires further inspection.

See LeakQ™ Mode for instructions on capture and save.

Beacon Mode (ii1030/ii1050/ii1050C)

Beacon Mode is a specialized setting that fixes the camera's frequency filter to 40 kHz, optimized for detecting the ultrasound signal from the Fluke SB140. This mode allows users to easily visualize and pinpoint leak locations in sealed, non-pressurized spaces, such as automotive doors, windows, or maritime vessels.

TI Mode (ii1030/ii1050/ii1050C)

TI mode show the thermal image and visual light camera side by side into one display when the Fluke iSee thermal camera is connected to USB-C port. Note that only image data and no thermal measurement data is captured when saved.

When the Fluke iSee thermal camera is connected in other modes, the imager enables simultaneous, on-screen comparison of acoustic, thermal, and visible light images. This allows verification of both acoustic and thermal image in a single inspection pass, helping to prevent missed or false detections that can occur when relying on a single testing method.

Memory

The Memory menu shows an overview of all saved files with a thumbnail image. Each thumbnail includes an icon to indicate the file type:

Image

Video

LeakQ

PDQ Mode

MecQ

Beacon Mode

TI Mode

To view a file, tap on the thumbnail once to open the file on the display.

To delete a single image file:

1. Tap on the image once to open the file on the display.
2. Tap to delete the file.

To delete multiple image files:

1. Tap and hold an image file.
   The mode changes to multi-file selection.
2. Tap all files to delete.
3. Tap (see top right of the display) to delete multiple files.

An icon also identifies the annotation type. When the file includes an annotation, the icon changes to include a yellow dot.

Annotations

You have 2 methods to access the annotation menu:

- After a capture
- Tap on any capture in the Memory Menu

The annotation menu on the left side of the screen shows the types of notes. Each note is identified with an icon. These icons include a yellow dot when annotation data is available.

Text Note

You can add additional information to files with Text Note.

To add a text note:

1. Tap on the image thumbnail to open the file on the display.
2. Tap to edit a note.
3. Tap **X**.

To Delete a text note:

1. Tap on the image file to open the file on the display.
2. Tap to edit a note.
3. Tap to delete the note.

Photo Note

A Photo Note is an additional photo attached to the file. Examples include a photo of a label or location that adds additional information about the file.

To add a Photo Note:

1. Tap on the image file to open the file on the display.
2. Tap to open the Photo Notes menu.
3. Tap **+** to open the Camera view.
4. Push the **Capture** button to take the photo.
   The Imager adds the photo as a note.

To delete a Photo Note:

1. Tap on the image file to open the file on the display.
2. Tap to open the Photo Notes menu.
3. Tap on the Photo Note icon you want to delete.
4. Tap to delete the Photo Note.

Tag Note

A Tag Note is a set of predefined fields attached to a file. These fields store data about the file that is useful for comparison and evaluation.

To add a Tag Note:

1. Tap on the image thumbnail to open the file on the display.
2. Tap to open the Tag Note menu.
3. Tap on the tag category you want to add:
   a. General
      - Asset name: Open text field
      - Asset ID: Open text field or enter with QR Code scan (see step 4).
      - Asset Type: Pre-defined list of asset types.
      - Inspection Status: As found; As left (Default: Undetermined).
      - Action required: Yes, No (Default: Undetermined).
      - Priority: Critical, Serious, Intermediate, Normal (Default: Undetermined).
      - Action Notes: Open text field

   b. Leaks
      - Type of Leak: Based on outcome of on-device analysis. Option for end-user to modify.
      - Type of Gas: Pre-defined list of gas types.
      - Pressure of Line/Pressure unit system: Open numeric entry.

Note

Only the Type of Leak category affects the leak rate estimation. Gas and Pressure are for documentation purposes only.

c. Electrical (ii1050/ii1050C)
   - Discharge Type: pre-defined partial discharge type by on-device data analysis and highest likelihood. Option for end-user to modify.
   - Voltage / Frequency: Open numeric entry.
   - Ambient Temp: Open numeric entry.
   - Relative Humidity (%): Open numeric entry.
   - Weather Notes: Open text field.

d. Mechanical (ii1050/ii1050C)
   - Component Type: Pre-defined list of mechanical components.
   - Speed (RPM): Open numeric entry.
   - Severity: High, Medium, Low (Default: Undeterminded).

For QR code-based Asset ID recognition:

4. Tap  to use the camera to capture and read QR code. Inspection Status: Asset Inspection Status helps you to select and assign the status of inspection:
   - Action required: Yes, No (Default: Undetermined).
   - Action priority: High, Medium, Low (Default: Undetermined).
   - Action notes: Open text field.
5. Tap  to close the Tag Note menu.

Acoustics

The Acoustics menu shows all the available settings for adjustment.

Target Centerpoint:

When the Target Centerpoint is on markers show on the display to indicate the peak dB level of any detected source of sound.

Centerpoint:

When the Centerpoint Marker is On, the dB level of the Centerpoint shows on the display as value on the center of the display.

Show dB Scale: On or Off

You can choose to show or hide the dB scale. Turn off the dB scale to see a larger visual area on the display.

Max dB

The maximum decibel (dB) settings determine the sound level (intensity) that shows on the SoundMap™. Decibel level thresholds help you to visualize leaks in challenging conditions, for example, very small leaks or a lot of background noise in the same frequency range as a leak. For more information, see *Profiles*.

Auto: Automatically adjusts the Color Palette Scale to the maximum decibel value for the received sound pressure.

Manual: The Color Palette Scale is a user-defined minimum/maximum decibel value. Levels above the maximum value show on the display with the same color as the maximum value.

When Manual is selected, tap on the numeric value and enter the max dB value of the Color Palette Scale.

High Frequency (ii1050/ii1050C)

Toggle between the standard frequency range up to 64 kHz and the expanded frequency range up to 100 kHz.

Single Source/Multiple Sources

The Single Source mode shows less noise and reflection on the display. Smaller leaks or partial discharges do not show when they are close together with larger leaks or PD in the same field of view.

The Multiple Sources mode will not mask smaller leaks or partial discharges when they are in presence of larger leaks or PD.

Note

The Multiple Sources mode is not available in MecQ and Beacon mode.

Profiles

Profiles allow you to reuse the manual settings such as Frequency band, Max dB scale and Palette.

On: A preset profile is active. The icon in the center bottom of the display allows you to select a profile or save the current settings as a profile.

Off: Turn off the preset profile.

Note

When you turn on and turn off the Imager, the settings for Frequency Band, Max dB, and Palette reset to the values in the selected profile, not the current settings when the unit is turned off. If no profile is selected when the Imager is turned off, the Imager uses the factory-default profile.

MecQ Mode (ii1050/ii1050C)

MecQ offers four modes to identify potential mechanical areas of interest:

Mode 1: Auto mode. In this mode you can select a 20 kHz frequency band and a 2 kHz band with the highest sound intensitity will automatically be used for analysis.

Mode 2: 30 kHz mode (default). This mode automatically activates the 30 kHz frequency band.

Mode 3: User selection mode. In this mode you can select any frequency range between 2 kHz and 100 kHz

Mode 4: Fixed Multi mode. This mode automatically activates five predefined frequency bands.

Palette

Select the palette for the acoustic image. The color palettes offer an equal, linear presentation of colors for the best presentation of data detail. Or you can switch the live visual camera to greyscale mode.

Torch

When Torch on is selected, the Torch light above the microphone sensor array is turned on for better visualization in dark environments.

Settings

The Settings menu shows all the available settings for adjustment.

Thermal Settings

Temperature measurement parameters when Fluke iSee thermal camera is connected to a USB-C port.

- Select temperature measurement range.
- Set the Emissivity.
- Adjust the measurement distance (m).
- Set the ambient temperature.
- Show central point on/off.
- Show Max/Min on/off.
- Device information.

Date & Time

- Set timezone
- Set date and format
- Set time and format

Display
- Turn on or turn off the display logo
- Screen turn off time. Select the time the screen will be turned off when imager not used or select never to keep the screen on.
- Brightness. Select the screen brightness level.

Localization
- Select language
- Set decimal separator to point or comma
- Set units of measurement

Factory Settings
- Startup Profile, see *Profiles*
- Reset to Factory Defaults
- Clear User Data (clear all images, videos, and other user data)
- Change PIN code

Operating Conditions
- Set LeakQ Operating Conditions

1. Input the data relevant to your system and operating conditions.
2. Select the LeakQ metrics (rate/costs or LeakQ scale) to display.

- Set PDQ Mode network operating frequency (ii1050/1050C)

1. Select your network operating Frequency.

Note

The PRPD plot is only generated if 50 Hz or 60 Hz is selected.

Wi-Fi
Wi-Fi Network and Fluke Connect settings:

1. Turn Wi-Fi on or off.
2. Select Network to scan for available networks within range of the Product.
3. Select Fluke Connect to enter User Name and User Password, see Sign in to Fluke Connect Wi-Fi Network.
4. Enable or disable instant upload of captures to Fluke Connect.
5. Enable or disable deletion of captures from Imager Memory after upload to Fluke Connect.

Imager Info
- Model number
- Serial number
- Software and hardware versions
- Certificates, available here:
  Settings > Imager Info > Certificates

Microphone Test
- Verify the correct operation of the microphones

Save Diagnostic Information
- Use at request of Fluke Customer Service to save diagnostic information

Note

The diagnostic info file is saved in the Imager memory at /User Data/DiagnosticInfo/.

Basic Operation
The Imager works much like a point-and-shoot camera.

⚠ Caution

Do not place hand on or obstruct the acoustic sensor.

1. Push and hold ◐ >2 s.
2. Aim the Imager at the test area.
   Ideal distance is 1 m to 8 m (3 ft to 26 ft).
   With good line-of-sight, >8 m to ≤21 m (>26 ft to ≤70 ft).

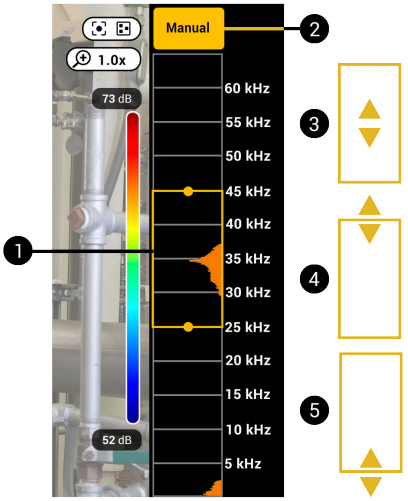
3. Select Manual or Auto Frequency Selection Mode.
   a. Auto Mode will automatically select the optimal frequency range.
   b. Manual: see 4-6:
4. Select a band on the frequency spectrum on the right side of the display. See *Table 4*.
5. Change the width of the band by sliding the edges or move by sliding the middle of the band.
6. The optimum band depends on the environment and application. As an example for finding air or gas leaks, start with a band at 35 kHz and width that spans 5 kHz.

Note

High frequency peaks within the selected band may be caused by sources other than a leak or partial discharge. In this case, move the band to another frequency range.

If a strong source of sound is off the field-of-view, the display shows a circular pattern (flower) of hot spots on the SoundMap™. In this case, scan around for the source of sound.

Table 4. Frequency Band Adjustment



Item	Description
1	Frequency Band
2	Selection: Manual / Auto Frequency Selection Mode
3	Move within the Spectrum: Touch center of box until arrows show. Slide the box up and down to move the frequency range.
4	Adjust high end: Touch upper edge of box until arrows show. Slide edge up to change high end of the frequency range.
5	Adjust low end: Touch lower edge of box until arrows show. Slide edge down to change low end of the frequency range.

Maximum Frequency Range:
ii1030.....64 kHz
ii1050/ii1050C.....100 kHz

7. When the area of interest clearly shows, push the Capture button. The Imager saves the image to memory.

Tip: Sound signals reflect, particularly on smooth and flat surfaces. In certain conditions, the Imager shows a steady spot on the source of noise and one or more steady spots from the reflections. Move the Imager around to help discriminate the sound source from the reflections. The sound source remains in the same location, while reflections will move.

Use folders to organize your files. New file captures save to the folder name that shows on the display. You have the option to review files by folder name or timestamp.

To select a folder or create a new folder name:

1. Tap on the folder name that shows at the bottom of the display.
   A list of folder names pops up with the option, **Create Folder**.
2. When you select **Create Folder**, use the keyboard to input a new file name.

For more information about how to view the images in memory, see *Memory*.

On-Device Reporting

The Fluke ii1030 and ii1050 support on-device reporting. This feature creates reports in DOCX and PDF format and saves them to the imager's storage. Reports can be generated from an individual image or from a larger selection of images in Memory.

File Transfer

To transfer saved files from the Imager to a PC:

1. Use the provided USB cable to connect the Imager to the PC.
   A USB drive is added to the list of drives on your PC.
2. Open the added USB drive to view the saved files.
3. Copy the files you want to the local PC drive.
4. When transfer is complete, remove the USB drive from your PC.The Fluke Connect Desktop application is another method you can use to download images or video files. See *Import Saved Images with Fluke Connect Desktop*.

Import Saved Images with Fluke Connect Desktop

Fluke Connect Desktop is an application installed on a local PC.

To import saved images or video files:

1. Start the Fluke Connect Destop application on your PC.
2. Turn off the Imager.
3. Connect the Imager to the PC with a USB/USB-C cable.
4. Turn on the Imager.
5. Open Fluke Connect Desktop on the PC.
   The Fluke ii-Series shows in the **TOOLS** tab.
6. Select **DOWNLOAD**.
7. Use **DOWNLOAD ALL** or **SELECT FILES** to transfer all or a selection of files to Fluke Connect Desktop.
8. Select the destination folder and select **OK**.
9. Confirm deletion of downloaded files from the Imager or select **CANCEL** to proceed and keep the files in the Imager. Downloaded files are now available in the **MEASUREMENTS** tab.

Import Saved Images using Wi-Fi and Fluke Connect Cloud

When the Product is connected to a Wi-Fi network, you can sign into your Fluke Connect account on the Imager and use Fluke Connect Instant Upload. When you use Fluke Connect Instant Upload, the images you take with the Product can be uploaded to your Fluke Connect account in the Fluke Cloud. The images saved in the Fluke Cloud are automatically synced with the Fluke Connect Desktop program and can be viewed there.

Note

The Instant Upload feature may not work on all networks or with all devices due to the security profiles on different networks.

Sign in to Fluke Connect Wi-Fi Network

Use the Wi-Fi Network setting to connect the Product to a Wi-Fi network and to sign into a Fluke Connect account on the Product.

To turn on the Wi-Fi Network feature:

1. Select **Settings** > **Wi-Fi Settings** > **Wi-Fi** > **On**.
2. Select **Network** to scan for available networks within range of the Product.
3. Tap on a network to connect to it.
4. Use the keyboard to enter a password.
5. Tap **Sign In**.
   The display returns to the Wi-Fi settings menu.

Sign in to Fluke Connect Cloud

To sign in to your Fluke Connect account:

1. Select **Fluke Connect**.
2. Use the keyboard to enter an email address as user and a password.
3. Tap **Sign In**.
   The display returns to the Wi-Fi settings menu.

Uploading images

To automatically send captured images directly to the cloud select **Instant Upload**.

Alternatively turn **Instant Upload Off** and select the image to transfer by selecting Memory in the main menu and then select **Transfer** from the **Memory** menu.

When **Delete captures after upload** is turned **On**, the images are deleted from the imager after uploading.

Firmware Update

Firmware updates are available for the Imager. Connect the Imager to Fluke Connect Desktop or go to www.fluke.com to find the most current firmware version.

To update with Fluke Connect Desktop:

1. Use the provided USB cable to connect the Imager to a PC with the current version of Fluke Connect Desktop software installed.
   Fluke Connect Desktop software detects the connected Imager, checks the firmware version, and updates the Imager if a newer firmware version is available.
   Fluke Connect Desktop requires an Internet connection to download a new firmware version.
   The Imager shows a message to confirm the update.
2. Tap **YES** to confirm and start the firmware update. The Imager shows a message to restart the Imager.
3. Tap **YES** to restart the Imager.

To update with a .upgx file:

1. Download the firmware update from the Fluke website to a PC.
2. Use the provided USB cable to connect the Imager to the PC with the new firmware update file.
   A USB drive is added to the list of drives on your PC.
3. Copy the firmware update file from the PC to the Upgrade folder (/User Data/Upgrade) of the added USB drive.
4. When the file copy is complete, safely remove the USB cable from your PC.
   The Imager shows a message to inform you that a firmware update is found.
5. Tap **YES** to confirm and start the firmware update.
   The Imager shows a message to restart the Imager.
6. Tap **YES** to restart the Imager.

Maintenance

The Imager does not require routine maintenance.

⚠ Caution

The optical surfaces of the lens are equipped with high-quality optical layers. Avoid any contact with these surfaces and protect these surfaces against dirt and damage.

How to Clean the Case

Clean the case with a clean, damp cloth. Do not use abrasives, isopropyl alcohol, or solvents to clean the case or lens/window.

Acoustic Sensor Care

⚠ Caution

The Imager has highly-sensitive acoustic sensors. Do not expose the sensors to water or fluids, dust, and other contaminates. Accumulation of these in the sensor will affect the performance.

Avoid dust, grease or liquids on the microphones. If the microphones are dirty or clogged, carefully clean with low air pressure from a compressed air duster at 25 cm to 30 cm (10 in to 12 in) distance. Avoid too much air pressure.

To check the microphones:

1. Go to Settings > Imager Info menu.
2. Select Microphone Test.

If you see a warning message for service:

1. Clean the microphones with an air duster.
2. Test the microphones again. If the message continues, contact a Fluke Service Center. See *Contact Fluke* for more information.

Environmental

: For take-back programs in your country see https://www.fluke.com/

Product Disposal

Dispose of the Product in a professional and environmentally sound manner:

- Delete personal data on the Product before disposal.
- Remove batteries that are not integrated into the electrical system before disposal and dispose of batteries separately.
- If this Product has an integral battery, put the entire Product in the electrical waste.

Service

Fluke recommends that you service the Imager at two-year intervals (depending on operating conditions) to maintain optimum performance.

Contact your equipment distributor or authorized Fluke Service Center for any equipment performance failure or to schedule regular maintenance service. See *Contact Fluke* for more information.

Fluke Premium Care

Fluke Premium Care extends beyond the typical product warranty, offering a comprehensive service agreement for a variety of Fluke products. Premium Care includes (depending on type of product and geographic availability) priority services, extended warranty coverage, calibration assistance, and access to loaner units during repairs. For further details on Fluke Premium Care and its features, please visit the Fluke website at www.fluke.com/premiumcare or contact the Fluke Customer Care Center.

Data Protection

To meet cybersecurity requirements, the Imager is protected by a PIN (Personal Identification Number). The first time you turn on the Imager, it prompts you to set a PIN. You must enter the PIN to unlock the Imager for each use.

To set a PIN:

Follow the on-screen instructions to set a 4- to 6-digit PIN

Use the PIN:

The Imager prompts for the PIN each time you start the Imager.

Change the PIN:

Go to **Settings** > **Factory Settings** > **Change PIN**.

⚠ Caution

Without the PIN, you must use Factory Reset to reset the Imager to the default settings. Factory Reset deletes all the images and the user settings stored in the Imager