

Work Flow

- [Introduction](#)
- [Getting Started](#)
- [Report](#)
- [Settings](#)

Introduction

Cilika is a professional digital microscopy application developed exclusively for iPad to support organizational and laboratory workflows requiring rigorous specimen documentation and analysis. The application integrates image capture, annotation, dimensional measurement, calibration, and report generation into a single platform suitable for pathology laboratories, clinical environments, research facilities, and educational institutions.

Quick-start steps

- Set up: install Cilika on iPad, connect microscope camera, check system requirements.
- Calibrate: run the calibration routine once per objective or setup to ensure measurement accuracy.
- Capture image: open Capture, choose objective and illumination, focus, then tap Capture.
- Annotate: open image, use drawing/text tools to mark features and add notes.
- Measure: select measurement tool (line, area, scale-linked), measure features; verify units.
- Save & organize: tag images, add metadata (sample ID, date, operator), and save to project.
- Export & report: generate a PDF or image package with embedded measurements and annotations; share via secure export or institutional storage.
- Troubleshoot: refer to the FAQ for common issues (connection, focus, calibration).

Getting Started

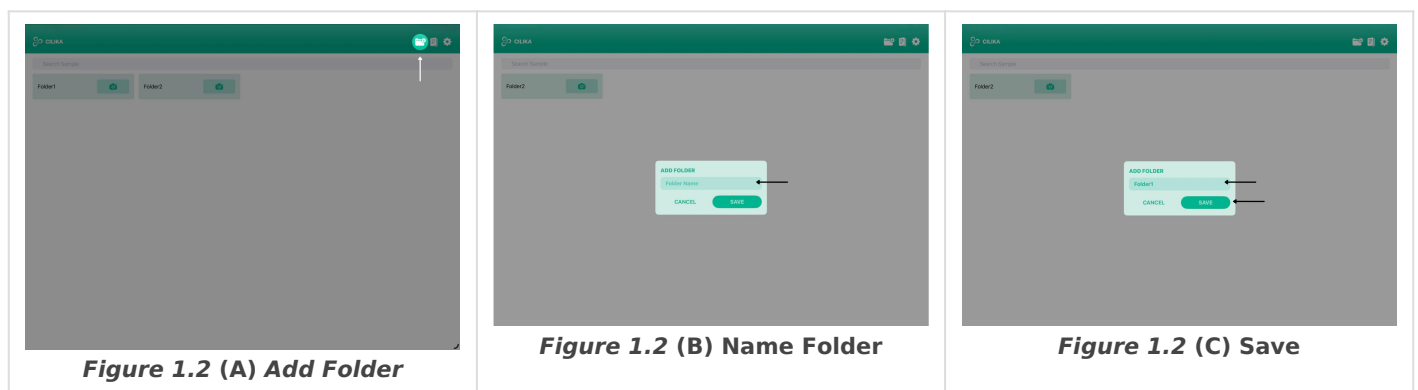
The Cilika application is located on the home screen of your IOS. Locate the Cilika iOS application icon (green icon) in the dock at the bottom of the screen and tap on it to launch the Cilika application.

The dashboard has three icons at the top right corner:

- Add Folder
- Generate Report
- Settings

Add Folder

1. Tap on the **Add folder** icon in the top-right (folder with a + sign)
2. An **Add Folder** dialog appears.
3. Type in a clear, unique name (for example the case number or patient identifier) is to be added in the text box.
4. Tap **Save**, for the new folder to appear on the Dashboard.



Rename and Delete Folder

Long press the folder to get the following two options:

- **Delete**
- **Rename**

1. Once you tap on the **Rename** option, **Rename Folder** popup appears on the screen.
2. Enter a valid folder name with *no space* in between.
3. Tap on **Save** to save the new name or **Cancel** to get the previously saved name.
4. Tapping on the delete option deletes the whole folder, which includes any or all the files inside the folder.

Add File

1. Tap the **Camera** icon located on the folder beside the folder name.
2. A camera opens up, this is the **Live Microscopic View**.
3. Make sure the iPad is horizontally positioned for it to work.
4. If the microscopic image is not visible on screen, restart the application.
5. If you are facing any more issues go through the troubleshooting guide.

2. Navigating Live Microscopic View

1.4 Understanding the Camera

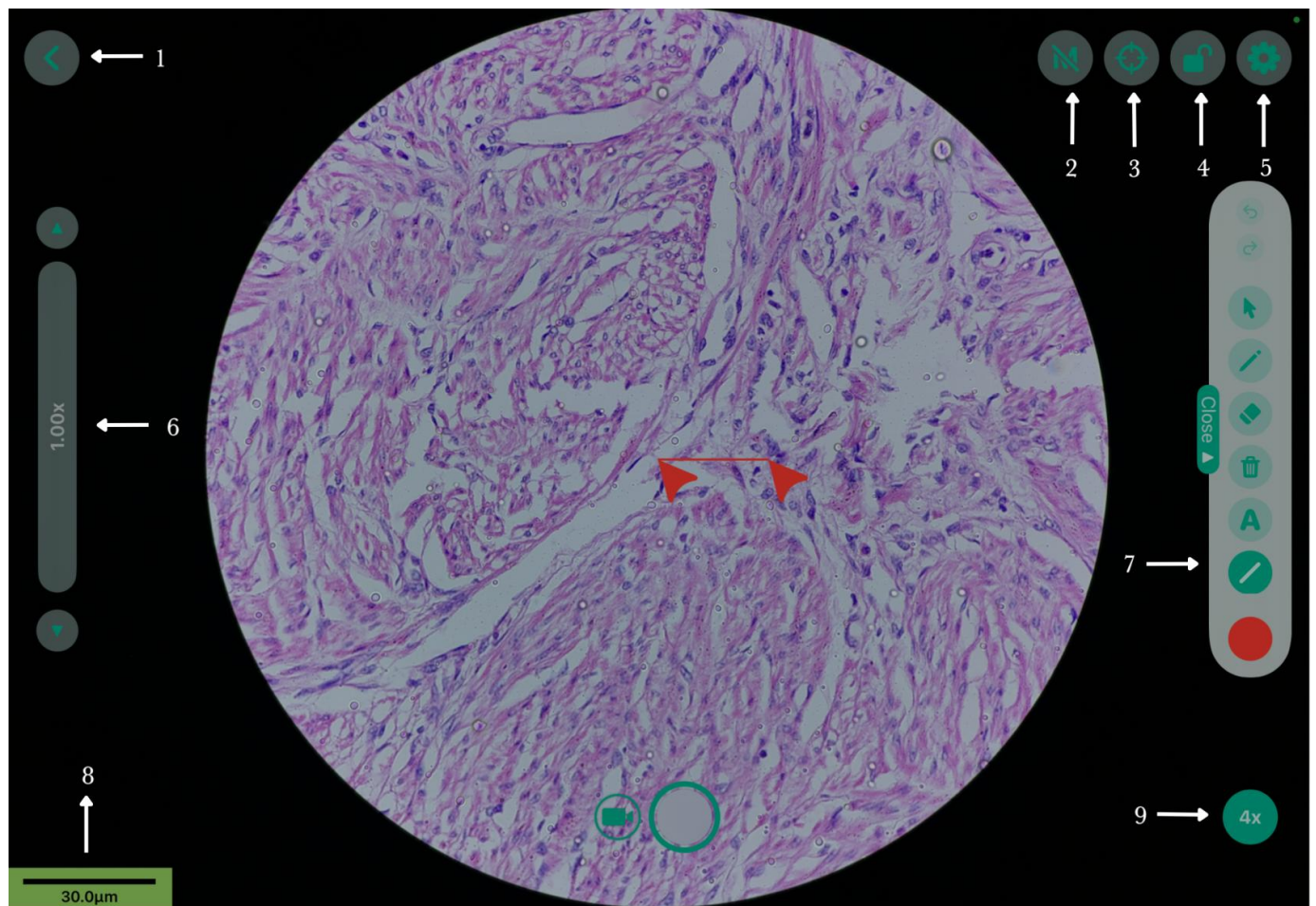


Figure 1.4 Screen Layout

Live View — Screen Layout:		
	<i>Tools</i>	
1	Back (◀)	Tapping on the Back (◀) Chevron brings you back to the dashboard.
2		
3	Crosshair / Reticle	This tool shows/hides the center target on your live view screen
4	Lock	locks the screen against accidental touches.
5	Settings (gear)	Opens Camera Settings.
6	Zoom Slider	Use ▲ / ▼ arrows to zoom in and out of the live Microscopic View fine adjustment.
7	Open Drawer	Opens a drop-down of annotation tools.
8	Scale Bar	
9	Objective Lens	Helps

Zoom Slider

Location : Left Side

1. Locate the **Zoom slider** on the left side of the screen.
2. Find two arrows on either sides of the zoom bar.
3. Use the ▲ / ▼ arrows to zoom in or out of the microscopic image.
4. *Drag up* to zoom in on the microscopic image and *Drag down* to zoom out. The range of the zoom is between **1.00x to 5.00x**.

Scale bar

Location : Bottom Left

how an why

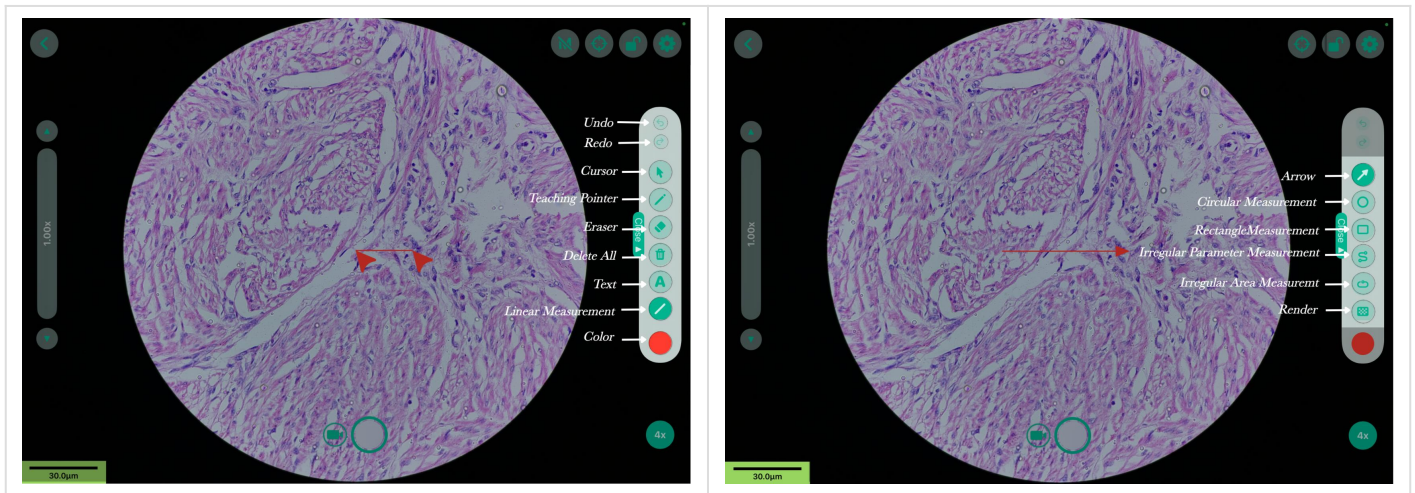
Recording

Location : Bottom Center

1. Find a Capture and Recording button.

2. Tap on the **Circle Button** located at the bottom center of the screen.
3. To switch to video, you can tap on the **Video Button** to the left.
4. Tap on the mic button to enable or disable the background sound.

3. Annotation and Measurement



Open Tab - Undo/Redo

Location : Center Right

1. You will find an element labeled **Open** on your right.
2. **Tap the Open** drawer
3. A drop-down appears.
4. The Drop-down contains all the tools for markings, annotations and shapes.
5. Any annotations or measurements drawn can be **undone**, **redone** and **deleted** here as well.

Activation Cursor

The activation cursor is the first icon in the drawer. This tool activates and deactivates the the annotation tools on the live view screen.

Teaching Pointer

1. A **Teaching Pointer** is a digital cursor on the screen.
2. Can be used to highlight specific cells or areas during live demonstrations or training.
3. By default, only 1 **Teaching Pointer** appears on the screen.
4. Up to 4 **Teaching Pointers** can be used together at any given point.

Freehand

1. This tool helps create a freehand annotation like drawings or text.

2. **Long-press or double tap** the tool to open the **Line Width**, adjust line width.
3. If you wish to change the colour of the annotation
4. Tap on the **red dot (●)** in the drop down and change it to your desired color.

Line/Arrow

1. The line / arrow tool helps mark areas with distance is a circular shape.
2. Tap on the  icon to create a circle. 1.2.
3. The size of the circle can be adjusted by dragging out the cursors. 1.3.
4. Tap on the icon again to adjust the line width, lock the shape or set the radius.
5. Tap Set to?? 1.4.
6. Once the shape is locked, pointer size can be adjusted accordingly.

Text-

Circle

1. The circle annotation helps mark areas with distance in a circular shape.
2. Tapping on the  icon creates a circular shape on the live view microscopic screen.
3. The size of the circle can be adjusted by dragging out the cursors.
4. Tapping on the icon again brings out a popup where you can adjust the line width, set the radius manually and lock the shape.
5. You can adjust the line width by sliding the on the line width slider.
6. Once the shape is locked, pointer size can be adjusted accordingly.

Box

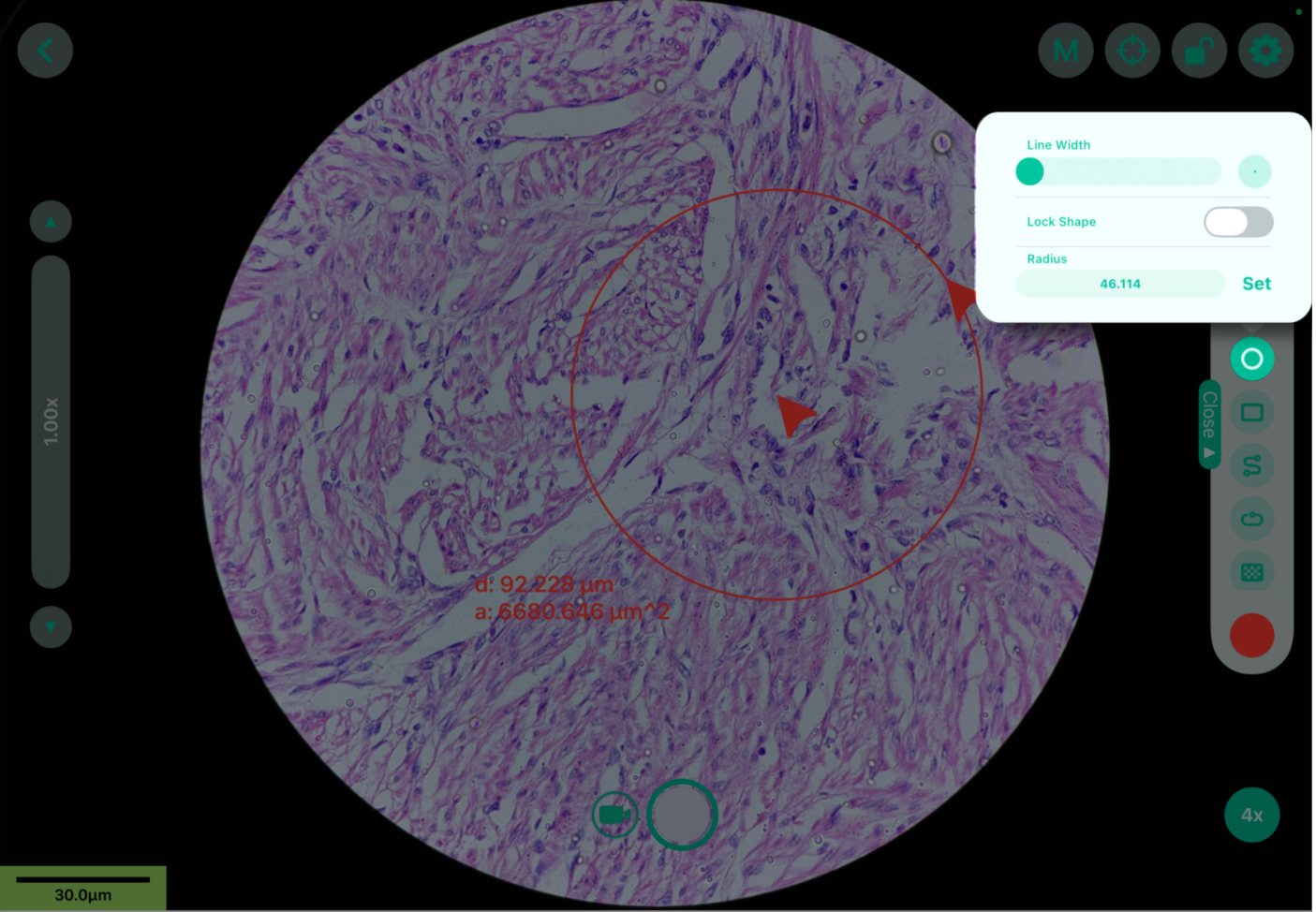
1. Tap on the  icon in the **Open drawer** to create a box.
2. You can adjust the size of the box by moving the two cursors placed on either of the ends.
3. Another way to set height and width is by tapping on the icon again.
4. The height and width can be set by typing in the measurements according to your preference.
5. Tap **Set** to here you can adjust the line width as well as lock the shape.

Dotted Marker

1. Tap on the  icon to get a dotted marker, this tool helps draw a dotted annotation/space.
2. Tapping on it again lets you adjust the line width.

Enclosed Shape

By tapping on the icon below the S icon, the tool will automatically connect your endpoint to your starting point with a straight line.



Error Recovery Tools		
Tools	Symbols	Features
Undo	?	This reverses your last performed action or a series of action and is located at the very top of the open drawer.
Redo	?	Locate below the Undo option, it reverses the Undo command, reapplying the changes you just removed.

Erase		Scroll down and locate the erase Icon in the tools drawer. This tool Erases only unwanted annotations. Tapping on it again, lets you adjust the wide of the eraser. Adjust it depending on how much area you want to erase.
Delete All		Instantly clears all current annotations, markings, and measurements from the live view or image.

Report

10. Report

Following are the steps to "**Create a Report**" -

Once you tap on the the report icon at the top right corner,

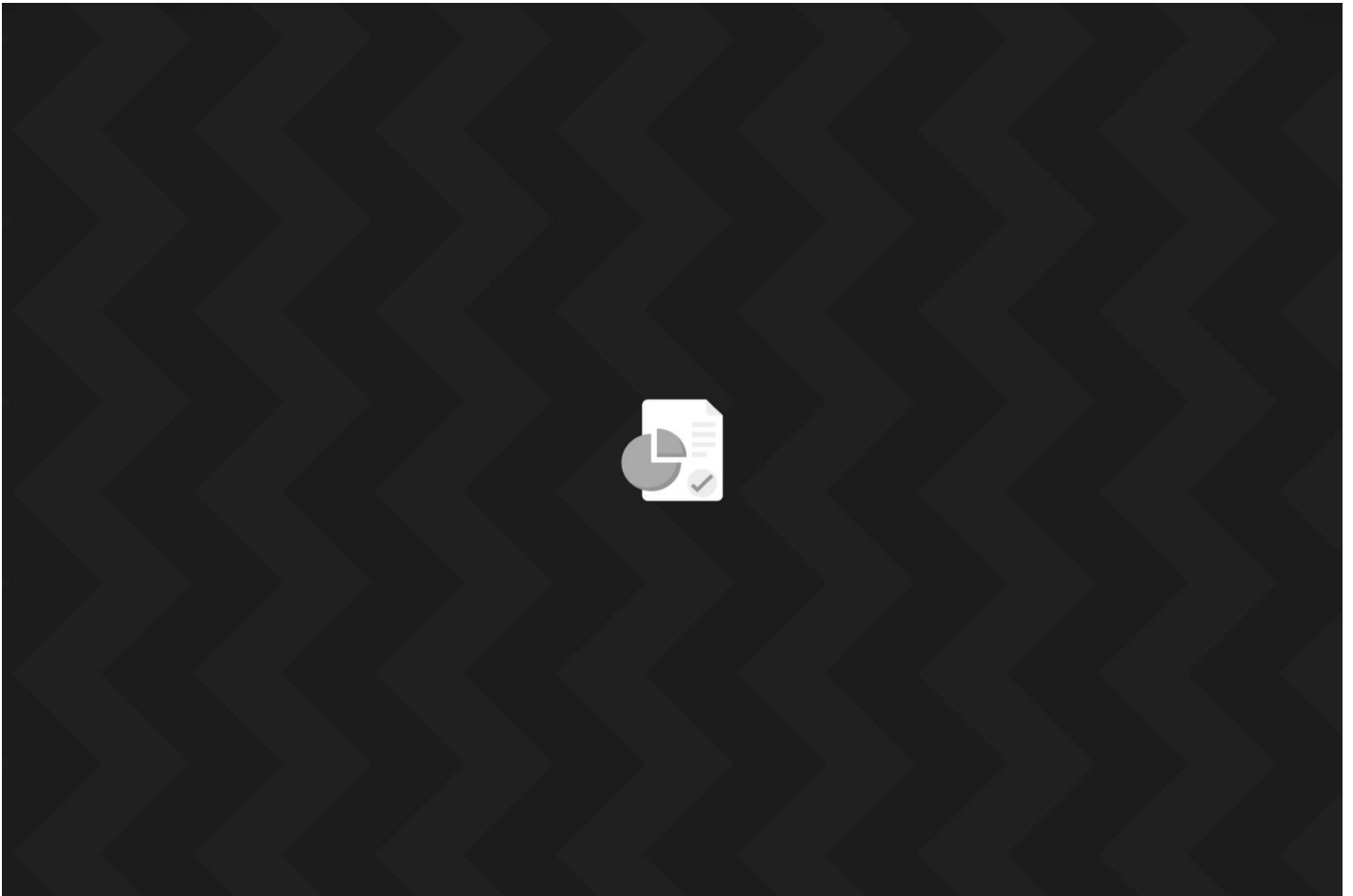


Figure 10

1. Tap the **Create Folder** icon in the top-right (folder with a + sign).
2. An **Add Case** dialog appears. Tap on the the dropdown button.
3. The dropdown gives a list of all the folders saved or created on the dashboard. Select the folder you wanna add and tap **Save** (*Figure 2.4*). The selected folder appears on the screen.
4. If the folder does not appear, **swipe down** on the grid to refresh.

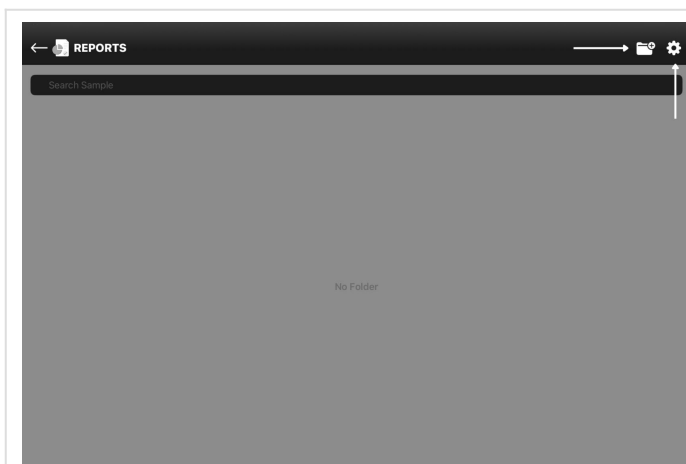


Figure 10.1

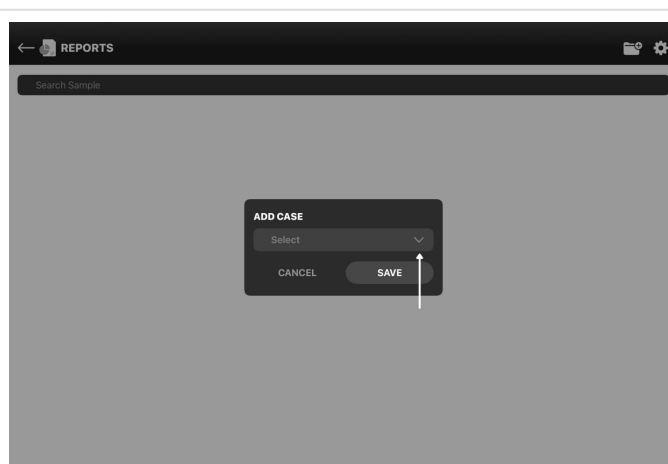


Figure 10.2

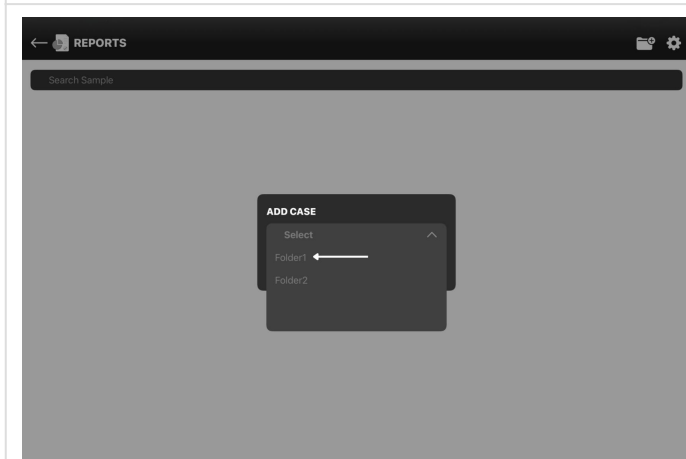


Figure 10.3

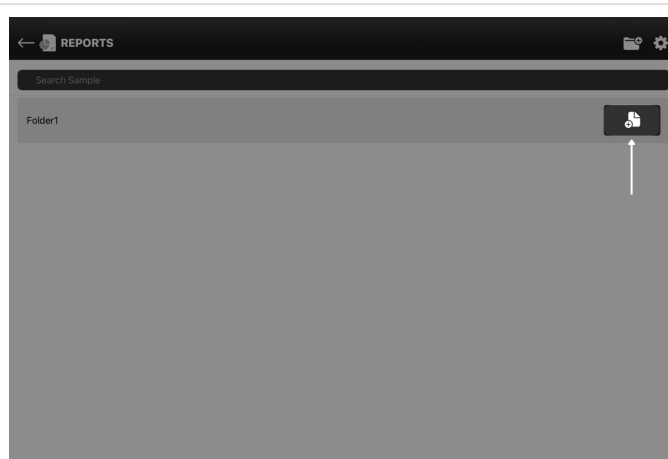


Figure 10.4

Generate Report

1. The new folder appears on the Report Page. Tap on the icon located at the extreme right
2. (folder with a + sign) to add in details to generate your report (**Figure 1.5**).
3. At the top center is located the "Report Name" titled as "Untitled". Tap on the same to change the name of your Report.
4. Once the details and slides are added in tap on **"Generate"**, on the top right corner to generate the report. (**Figure 1.8**)

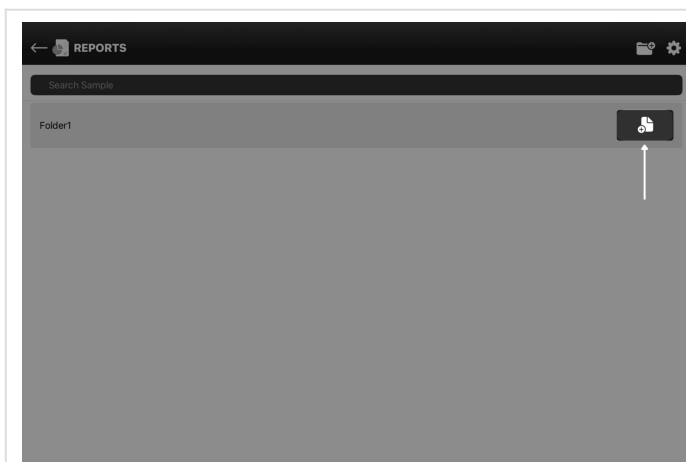


Figure 10.5

< Back Report Generate

PATIENT INFO

Name
Enter Name

Age/Sex
Enter Age/Sex

HID No:
Enter HID No:

Path No:
Enter Path No:

Department:
Enter Department:

Date of Receipt:
Enter Date of Receipt:

Date of Report:
Enter Date of Report:

Figure 10.5

< Back Untitled Generate

REPORT TITLE

Report Title
Enter Report Title

SLIDES

Slide 1
Click to Upload Image

Slide 2
Click to Upload Image

Slide 3
Click to Upload Image

PATIENT REPORT

Specimen
Enter Specimen

Clinical Details
Enter Clinical Details

Gross Description
Enter Gross Description

Figure 10.5

< Back Untitled Generate

Slide 1
Click to Upload Image

Slide 2
Click to Upload Image

Slide 3
Click to Upload Image

PATIENT REPORT

Specimen
Enter Specimen

Clinical Details
Enter Clinical Details

Gross Description
Enter Gross Description

Microscopic Description
Enter Microscopic Description

Diagnosis
Enter Diagnosis

Figure 10.5

Report Settings

1. The settings option has two features, the **Header** and the **Footer** for the report.
2. Tap on the right of the heading subsection (e.g. **Name**) to add in the designated details.
3. The details typed in the subsection will be shown at the top in the **Preview** column.
4. These details will be added in the final report as **Header** and **Footer**.
5. Once the **Header** and **Footer** details are added in tap on **Save** to save the details.

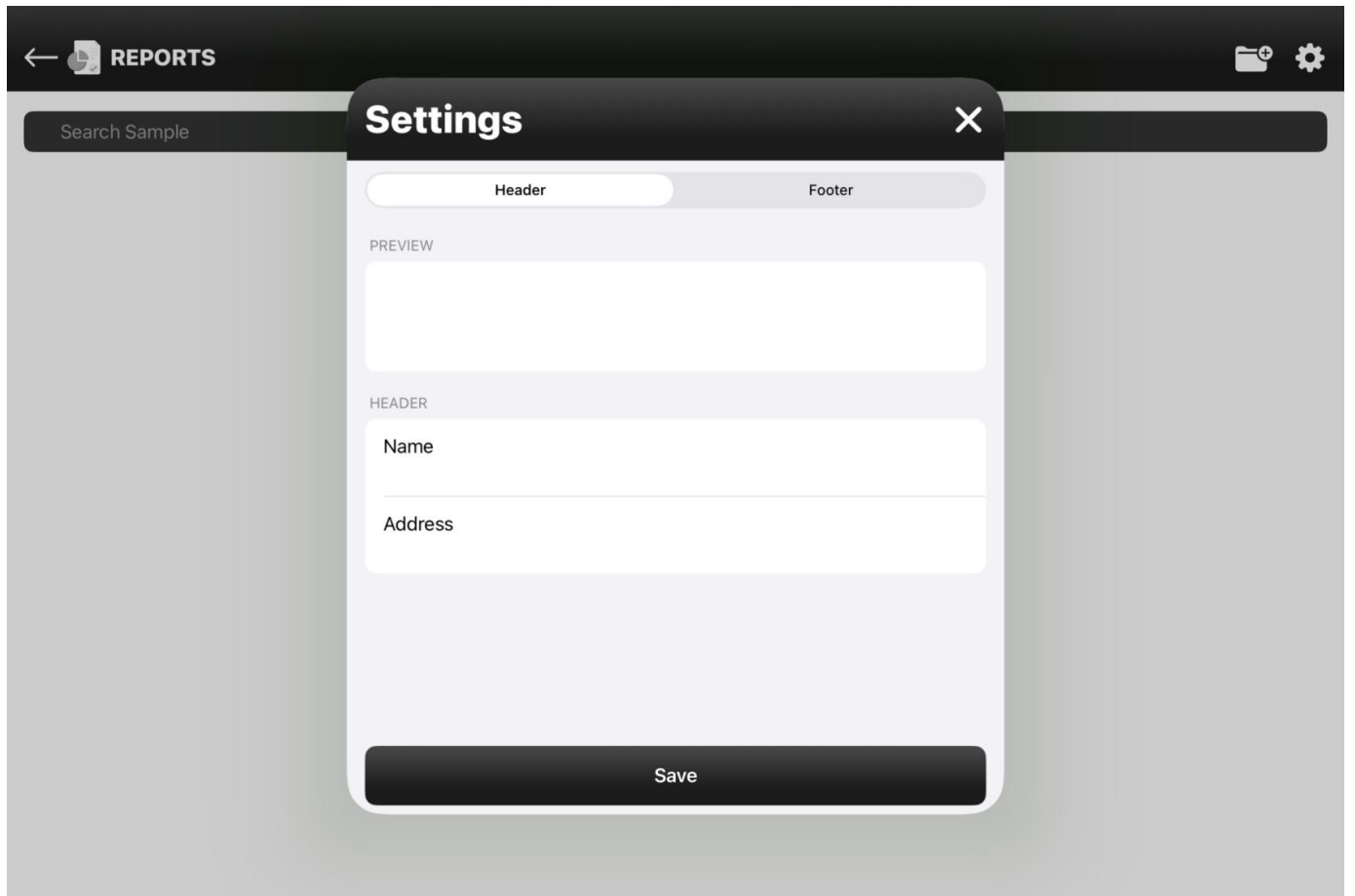


Figure 10.6 Header

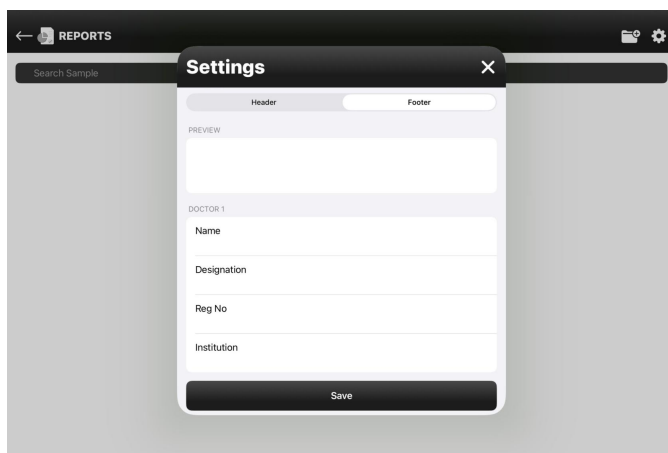


Figure 10.7 Footer

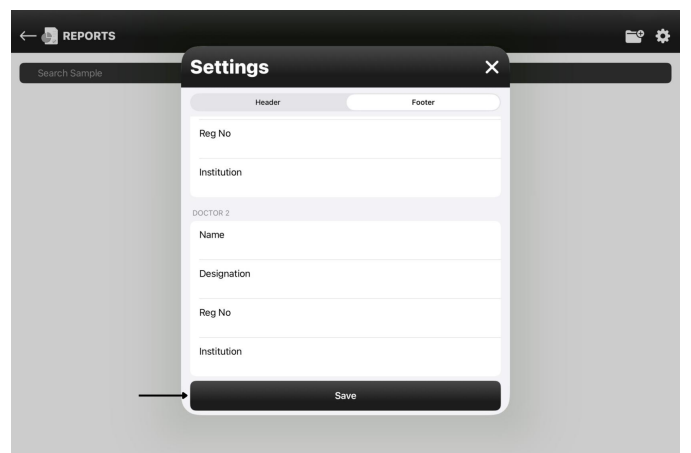


Figure 10.8 Footer

Settings

Live View Settings	App Settings

Exposure & ISO:

Use Exposure Duration (shutter speed) and ISO together to control image brightness and motion. Short/fast exposures (e.g., 1/1000 s) freeze motion and darken the image; long/slow exposures (e.g., 2 s) brighten it but may cause blur. Raise ISO to brighten low-light shots at the cost of more noise; lower ISO for cleaner images in good light.

Focus & Zoom:

Enable Focus to manually refine magnification and achieve precise sharpness on live view. Use Hide Zoom Slider to remove the on-screen zoom control when you want a cleaner interface or to prevent accidental zoom changes.