

# INSPIRE - 100

An Emergency Ventilator Device



## ***Web Applications Manual***





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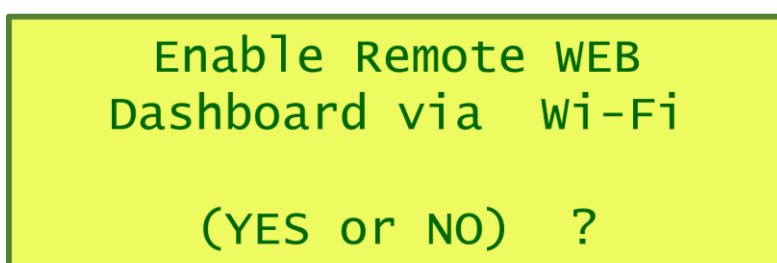
## Introduction

In addition to the front panel, INSPIRE-100 provides the ability to remotely monitor all ventilation sessions via a WEB dashboard. Doctors and technicians can use the dashboard to connect to any INSPIRE-100 system using a unique system ID embedded in each system. This feature is useful to enable a remote specialist to observe the key system and patient parameters during a session and suggest a course of action for the local practitioners.

A brief overview of the process is as follows.

1. There must be a Wi-Fi network at the site where the INSPIRE-100 system is deployed. If required, use a 4G/5G dongle to establish a Wi-Fi network. One dongle can serve multiple systems at the same site at the same time.
2. There must be Wi-Fi or wired internet at the monitoring site.
3. Enable WEB dashboard monitoring on the INSPIRE-100 system.
4. Allow the INSPIRE-100 system to log on to the Wi-Fi network.
5. Visit the provided URL at the monitoring site.
6. Pair the WEB dashboard at the monitoring site with the INSPIRE-100 at the deployment site using the INSPIRE-100 System Unique ID.
7. WEB Applications allows monitoring only. Remote control of the system is not permitted.

During the start-up sequence, the system gives an option to enable or disable remote monitoring for the system. Once enabled, the system guides the user to set up the remote WEB Apps.



*Figure 1: Enable/Disable Wi-Fi login*

## Setting up Wi-Fi credentials

INSPIRE-100 system remembers the history of prior Wi-Fi networks that have been used by the system. The user is provided with an option to either auto-connect to a previously known Wi-Fi network or to configure a new one. If desired, the recorded Wi-Fi history can be erased at this time.

Auto-connect to  
already known Wi-Fi  
<Wi-Fi Name>  
(YES or NO) ?

Figure 2: Wi-Fi Autoconnect

If Auto-connect is not enabled or if Auto-connect fails, the next option is to use a configuration portal to setup a new Wi-Fi network for the system to log in to. To enable login through a configuration portal, the system sets up a local, temporary Wi-Fi network named “INSPIRE-100 Wi-Fi”. The user can use either a wifi-enabled laptop or a smartphone to log on to this network.

Connect Laptop / Phone  
to Wi-Fi Network  
INSPIRE-100 Wi-Fi  
.. 1 ..

Figure 3: Connect to INSPIRE-100 Wi-Fi network

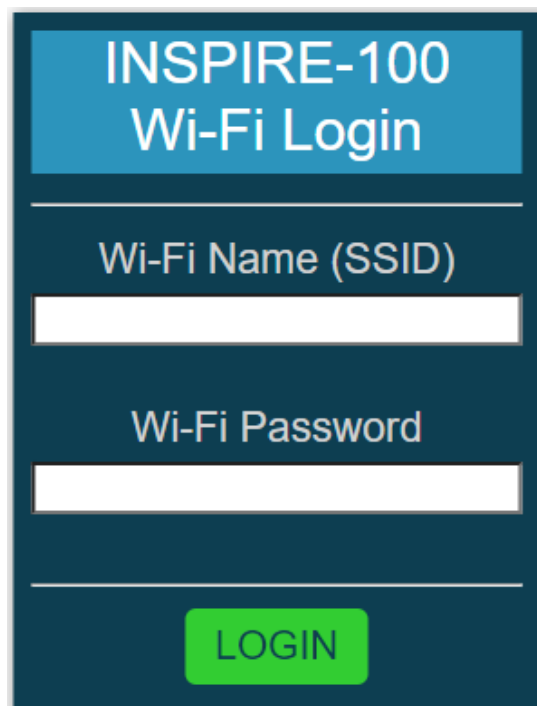
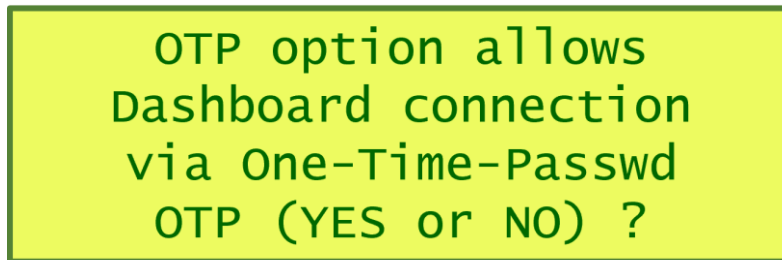
The image shows a vertical configuration portal for the INSPIRE-100 Wi-Fi network. At the top, a blue header contains the text "INSPIRE-100 Wi-Fi Login" in white. Below this, the text "Wi-Fi Name (SSID)" is displayed above a white input field. Further down, the text "Wi-Fi Password" is displayed above another white input field. At the bottom of the form, there is a green button with the word "LOGIN" in white capital letters.

Figure 4: Wi-Fi Configuration Portal

Upon login to this “INSPIRE-100 Wi-Fi” network, a portal screen is automatically presented on the laptop or the smartphone which guides the user step-by-step to enabling system to login to a desired Wi-Fi network. The portal time out in 2 minutes if unable to log on for whatever reason. If the system times out, the user can retry as many times as desired.

In case the portal does not automatically open, open a browser and navigate to 192.168.1.4 (URL) after connecting to the “INSPIRE-100 Wi-Fi” network.

WiFi login has two options as below.



*Figure 5: Login OTP Selection*

1. Anonymous

No message is sent to the Web Apps portals to announce the login. Only those browsers with prior knowledge of the particular system can connect to it. The “My Systems” page, described later, is the key for a browser to remember a particular INSPIRE-100 system.

*(See section on My Systems Table)*

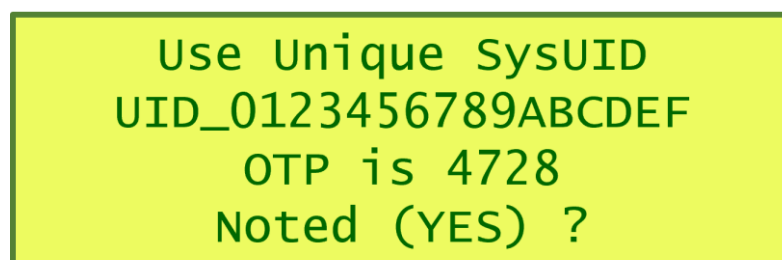
2. Broadcast

A message is sent to all currently active Web Apps portals to announce the login. An OTP will be generated and displayed on the INSPIRE-100 system’s Front-panel. Only those browsers with knowledge of the OTP (One Time Password) system can connect to it.

*(See section on My Systems Table)*

If the Wi-Fi login was unsuccessful, the user can still continue without enabling a WEB dashboard.

Upon a successful Wi-Fi login, the system is now ready to be connected to the WEB Apps using the unique system id (SYSUID). The SYSUID is a 20 character string starting with the prefix “UID\_” followed by 16 hexadecimal digits. Another option is to connect using the OTP displayed as below. Further details can be found in the next section.



*Figure 6: Wi-Fi Login Successful*

## Launching the WEB Apps

<https://www.tekmedika.com/inspire-100>

The screenshot below on the left is the main portal menu while the screenshot on the right above is the My Systems Table.

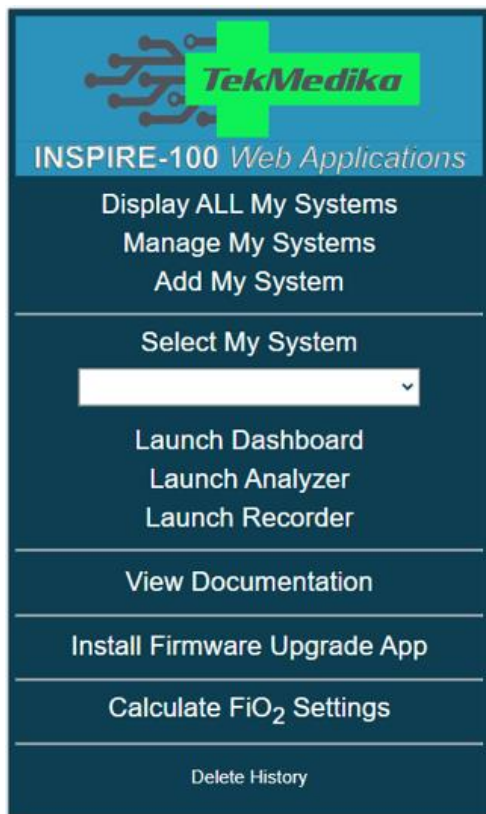
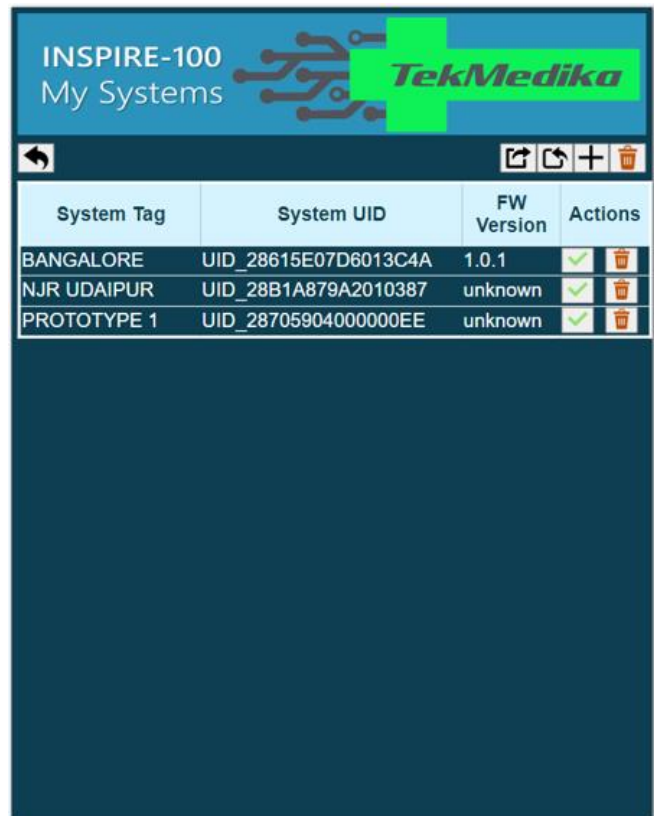


Figure 7: Web Apps Main Menu









System Tag	System UID	FW Version	Actions
BANGALORE	UID_28615E07D6013C4A	1.0.1	 
NJR UDAIPUR	UID_28B1A879A2010387	unknown	 
PROTOTYPE 1	UID_28705904000000EE	unknown	 

Figure 8: INSPIRE-100 Systems Table

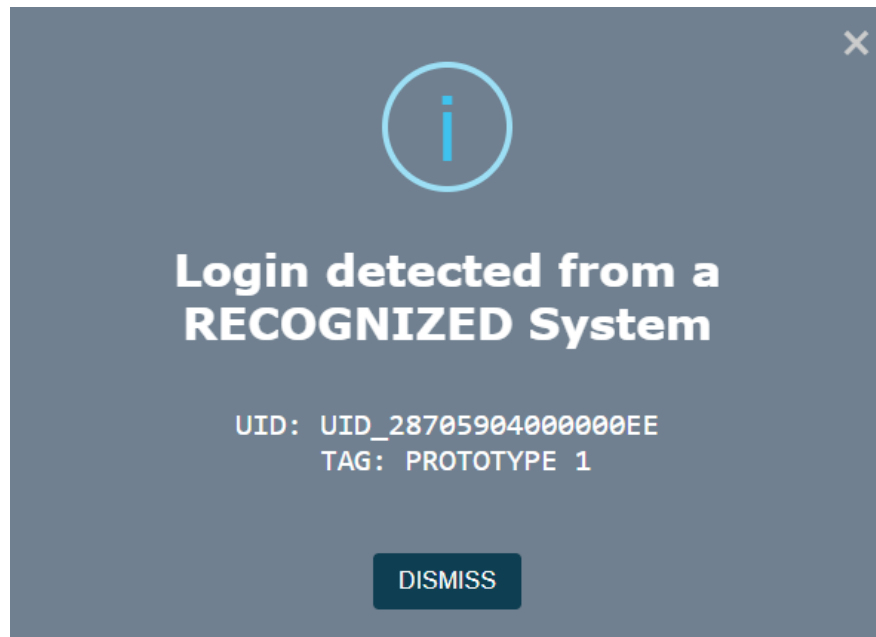
### IMPORTANT

Use CTRL key and +/- keys to zoom in/out  
or hold down the CTRL key and use the mouse wheel to zoom in/out  
till the content fits well in the browser screen.

All the Web Apps communicate with a particular INSPIRE-100 system via a Unique System ID (UID). Each INSPIRE-100 system has a built-in UID which is 20 characters long (e.g. UID\_AAAABBBBCCCCDDDD). This UID is displayed on the system's front panel upon a Wi-Fi login. It can also be accessed via the STANDBY menu on the system.



Each time a system logs in, the main portal page displays a popup message as below.



*Figure 9: Login Message Popup*

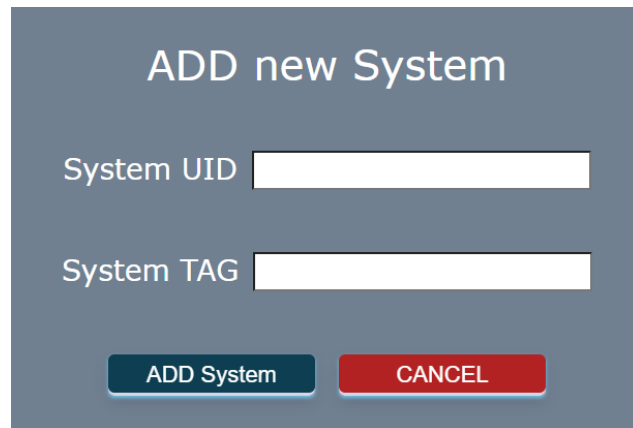
The main Inspire-100.com portal holds a table of the INSPIRE-100 systems it recognizes. Initially this table is empty. Once populated, it is accessible for all times after that. The table is accessed via the “Manage My Systems” button.

Each unique system id (SYSUID) of the INSPIRE-100 systems can be associated with an easy to remember name tag. The browser remembers the history of all the SYSUIDs that have been used and presents them in the dropdown list in the main menu box above.

The table of name tags and associated SYSUID (Systems Table) is accessed through the “Manage My Systems” button. The + menu button on the Systems Table adds a system. To select a system to communicate with either double click on the appropriate row or use the checkmark button against the row. A system can be removed from the table using the trash menu button in the appropriate row. The trash button on the top right removes all system information. The systems table can also be exported as a JSON file and can be imported from a JSON file by clicking the appropriate icons on the table banner. Finally, the back arrow menu button on the top left can be used to navigate back to the main menu.

There are two ways to populate the systems table.

1. If you know the UID of your system(s), simply add the information using the “Add New System” button. Each system can be assigned a tag name so that it is easy to remember and access. The popup for “Add New System” is shown below.



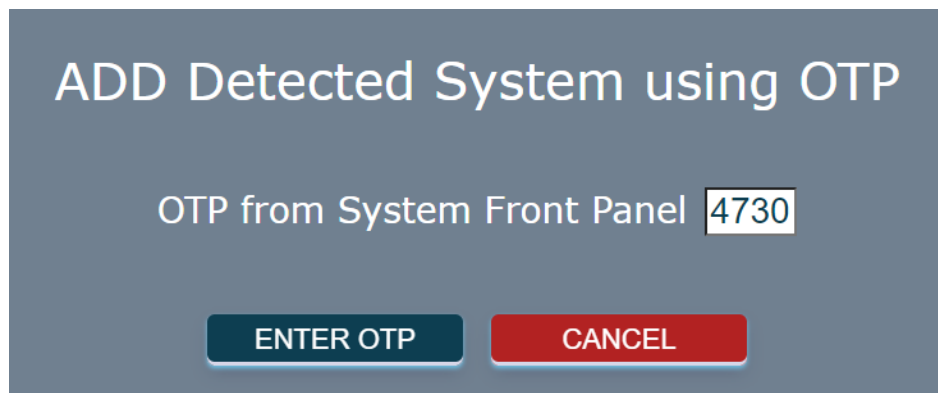
ADD new System

System UID

System TAG

*Figure 10: Add a new system to Systems Table*

2. Every time a recognized or unrecognized system logs in, there is a message displayed on the portal web page. In case of an unrecognized system, the portal popup message provides an option to add the unrecognized system to the systems table using an OTP displayed on the system's front panel.



ADD Detected System using OTP

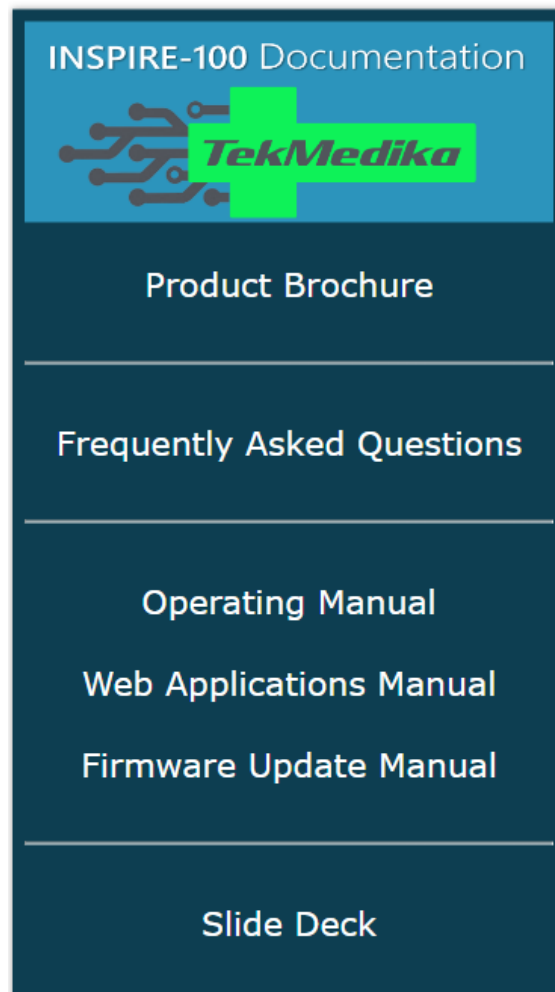
OTP from System Front Panel

*Figure 11: Add a new System using OTP*

The following WebApps are available via the links on the main menu.

- **Show ALL My Systems** – This shows a tiled view of all systems that are entered in the “My Systems” table.
- **Launch Dashboard** - Monitor a session remotely. It requires a SysUID to be selected to determine the INSPIRE-100 system to connect to.
- **Launch Analyzer** - Analyse a previously recorded session. It requires a SysUID to be selected to determine the INSPIRE-100 system to connect to.
- **Launch Recorder** – Though a recording can be enabled through the Dashboard App, the Recorder App is a lightweight app to record a session without all the features of a dashboard. It uses less memory. It requires a SysUID to be selected to determine the INSPIRE-100 system to connect to.

- **View Documentation** – All the pdf documents are accessible through this link. It does not require a SysUID. If a “PDF Viewer” extension is loaded in your browser the documents can be read online or else, they can be downloaded. Figure below is a screenshot of the document viewer web page.



*Figure 12: INSPIRE-100 Documentation*

- **Install Firmware Upgrade App** – Download and install a WINDOWS or MACOS app on the user’s laptop to enable firmware upgrades for the INSPIRE-100 system.
- **Calculate FiO2 Settings** – Calculate required Oxygen inflow rate. It does not require a SysUID. This app is merely an exploratory option.

## Display ALL My Systems

This button presents a bird's eye view of all systems that are entered into the "My Systems" table. The view is composed of live tiles, each showing the current state of the system. The user can then navigate to the individual Dashboard tab to view detailed information for a particular system. Also, Audio alarms can be turned ON or OFF. Figures below show sample screenshots of this view.

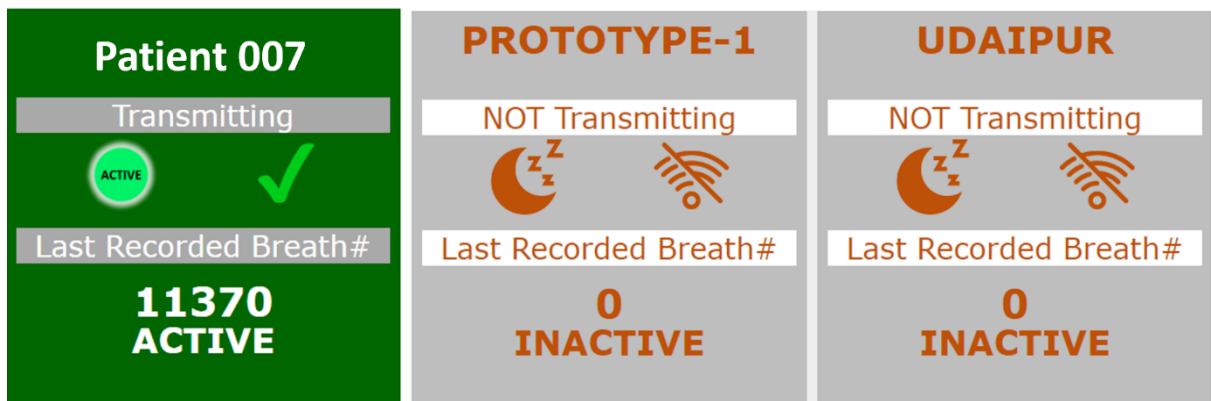


Figure 14: One System Active, Two Inactive

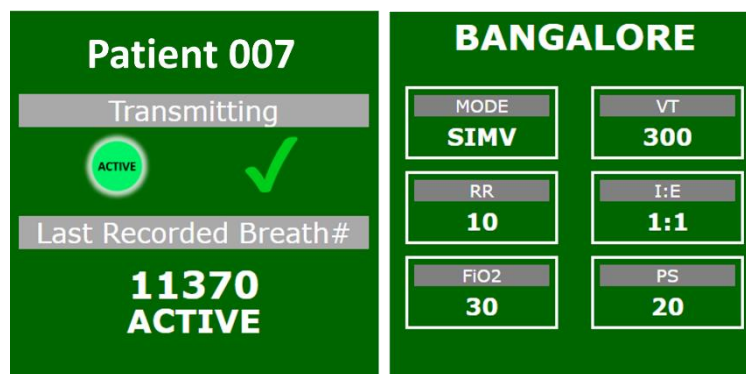


Figure 13: Alternating views of an active System

## WEB Dashboard

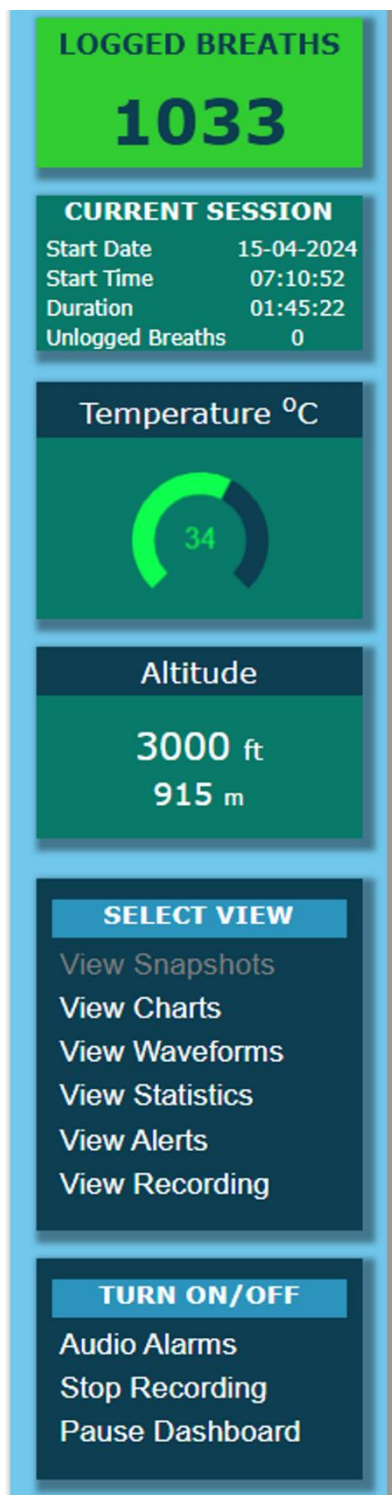


Figure 16: Dashboard Menu

The live WEB dashboard, when connected, offers a choice of six different views. The user can switch between these views at any time. Figure on the left shows the sidebar for the dashboard.

On the top is a display of the number of breaths that the current dashboard session has logged. In case the dashboard was launched after the system had been active for some time, it also shows the number of breaths that happened prior to the launch of the dashboard as unlogged breaths.

The next box shows some relevant summary data for the current session. It includes the start time for the Dashboard and the duration for which it has been active.

The next box allows for selecting the type of view to display. Available views are as below.

1. Snapshots view
2. Charts view
3. Statistics view
4. Alerts view
5. Breath Shapes View
6. Recording View

The next box shows the current operating temperature that the system is at. The following box is the system's deployment altitude.

The next box allows for turning on/off audio alarms, session recording and dashboard updates. Pausing dashboard updates only stops the display from updating, fresh data continues to get collected and will get displayed once the 'Pause Dashboard' is turned OFF.

The Figure below shows a Slider that can be used to select the range of breath numbers to display the required data for.

The breath number range can be selected by grabbing the slider handles and sliding them to the required breath numbers. Or by grabbing the range connector and dragging the entire range to a different position. The ROLLING button on the extreme left discards the selected range and enables a fresh display update on each new breath. The EDIT button allows for typing in the range accurately. The double arrow button selects the entire range and freezes the display to that range.

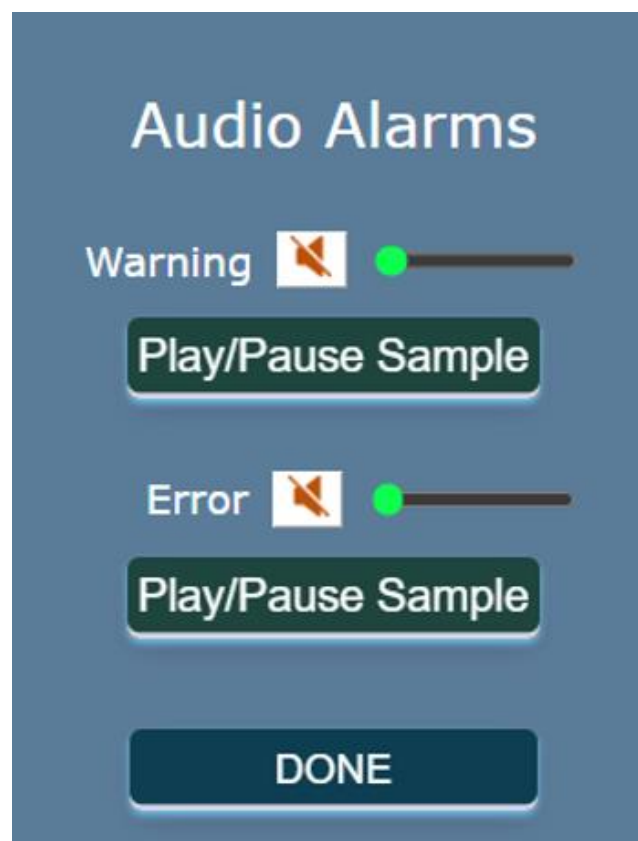
Figure 15: Breath Range Selector



## Dashboard Audible Alarms

By default, all audible alarms are turned ON. The audio alarms can be selectively turned ON/OFF using the “Control Audio Alarms” button.

Below is a screenshot of the Audio alarm settings.



*Figure 17: Setting Audio Alarms*

## Dashboard Snapshots View

Below is a screenshot of the WEB Dashboard “Snapshots View”. All the INSPIRE-100 parameters, both input and output, are presented on the dashboard for easy viewing as a cohesive whole.

Note that for safety reasons, the Dashboard only allows monitoring of a remote system. The dashboard cannot be used to control the remote system. That must be done using the front panel of the physical INSPIRE-100 system.

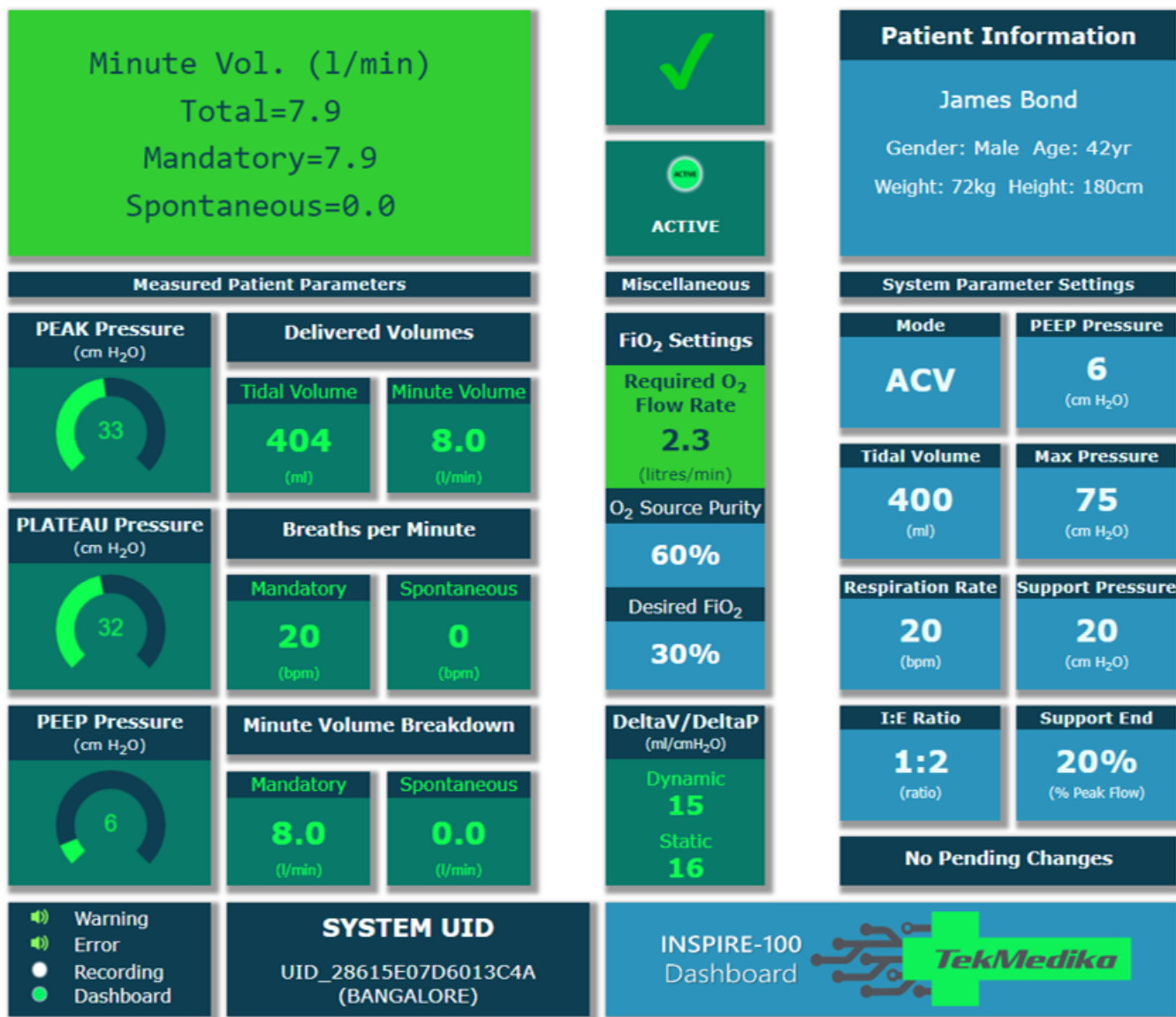


Figure 18: Dashboard Snapshots View

## Dashboard Charts View

The Dashboard also provides an option for a “Charts View”. A screenshot of the charts view is shown below. This screenshot shows three chart boxes. A chart box can be added at any time using the + menu button on the top left of the chart box. Use the trash menu button on the top right to delete a chart box.

The parameters to chart can be selected using the checkboxes on the edit menu. The edit menu button is also on the top right of each chart box. The charts are updated after every breath. The X-axis can be selected as breath number or as elapsed time between breaths.

By default, the system charts the selected parameters for the past 60 breaths on a rolling basis, the charts are updated after each breath.

There is a Range Slider above the chart boxes to pan or zoom to any desired range of breath numbers.

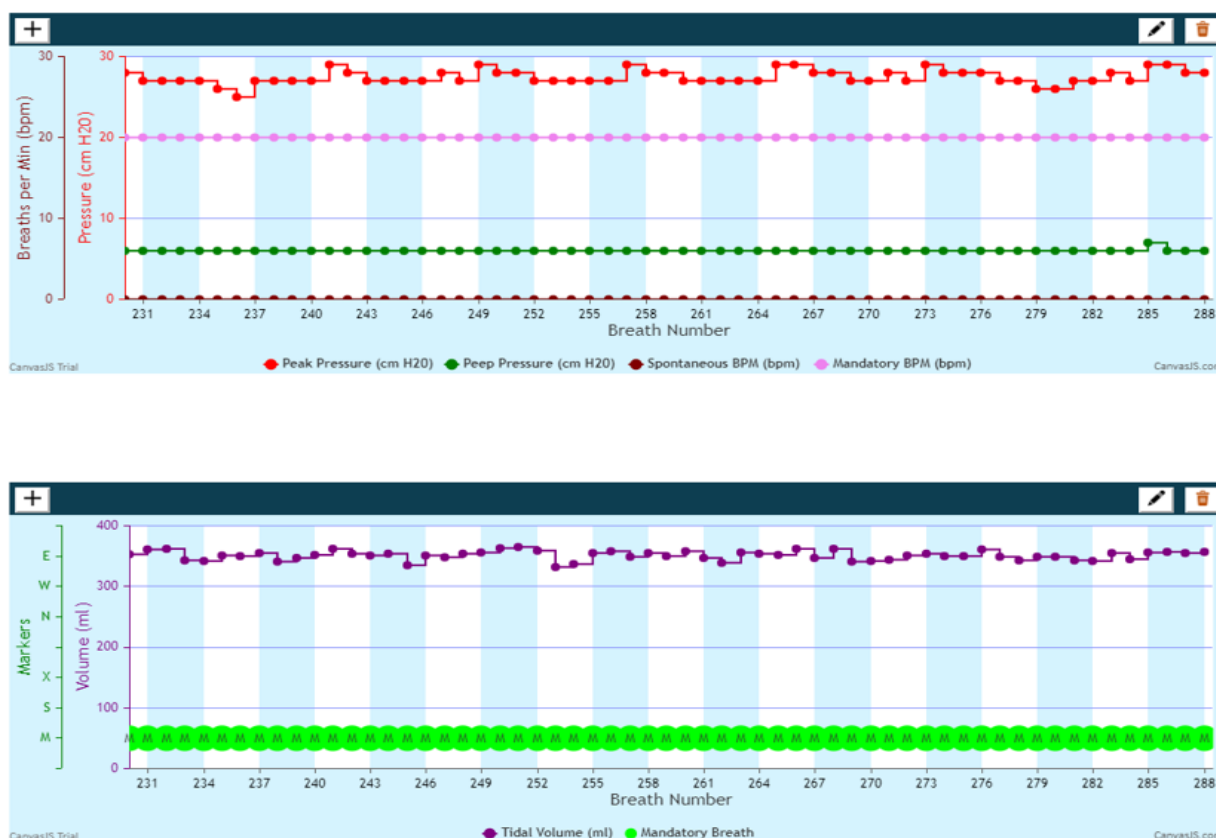


Figure 19: Dashboard Charts View

Use the handles on the Slider to select a particular range. If a particular range is selected, further chart updates are disabled till the range is reset using the ROLLING button on the range slider, the new parameter values are still stored for later display.

The chart box edit menu is shown below. Any collection of the shown parameters can be displayed in any chart box or in multiple chart boxes.



X

Title

Y-axis Parameters

☐ Pressures
 

☐ Peak Pressure
 ☐ Plateau Pressure
 ☐ PEEP Pressure

☐ Volumes
 

☐ Tidal Volume
 ☐ Total Minute Volume
 ☐ Mandatory Minute Volume
 ☐ Spontaneous Minute Volume

☐ Breaths Information
 

☐ Mandatory BPM
 ☐ Spontaneous BPM

☐ Breath Type
 

☐ Mandatory Breath
 ☐ Spontaneous Breath
 ☐ Maintenance Breath

☐ Instant Lung DeltaV/DeltaP
 

☐ Dynamic Lung DeltaV/DeltaP
 ☐ Static Lung DeltaV/DeltaP

☐ Oxygen Related
 

☐ FiO2
 ☐ Incoming O2 Flow Required
 ☐ Incoming O2 Purity

☐ Miscellaneous
 

☐ System Errors
 ☐ System Warnings
 ☐ System Notifications
 ☐ System Temperature

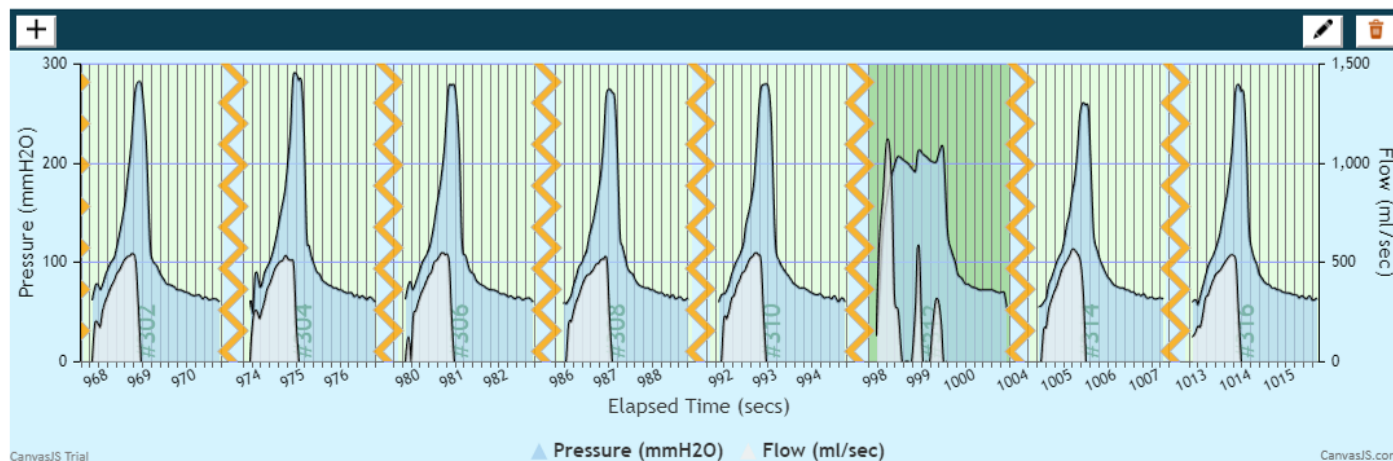
X-axis Units

☒ Breath Number
 ☐ Breath Times

Figure 20: Charts Edit Menu

## Dashboard Waveforms View

The Dashboard also provides an option to view the detailed pressure and flow waveforms for selected breaths. Figure below shows a sample of such a view.



Broken lines indicate few missing datapoints  
Red label indicates too many missing datapoints

Figure 21: Breath Detailed Pressure and Flow Graphs

The EDIT icon on each box allows the selection of the kinds of breaths to display. The graphs are color coded as per the legend at the bottom of the page. The breath selection menu is shown in the Figure on the left.

✕

Title

Y-axis Parameters

☐ All
 

☐ Mandatory Breaths
 

☐ Volume Controlled

☐ Spontaneous Breaths
 

☐ Volume Controlled
 

☐ Pressure Supported

☐ Include Maintenance Breaths
 ☐ Include Error Breaths
 ☐ Include Abnormal Breaths

Figure 22: Breath Type Menu

## Dashboard Statistics View

The Dashboard also provides an option for a “Statistics View”. A screenshot of the statistics view is shown below.

The statistics are collected for the selected range and updated after every breath by default. The range slider can be used to gather statistics for any range of breath numbers. The ROLLING menu button on the range slider causes the updates and display to go back to their default mode.

Breath Range Selector										
Parameters Measured					Static Information					
Parameter	Units	Min	Max	Avg	Patient Name: Rajnikanth Bond Gender: Male Age: 69yr Weight: 74kg Height: 181cm  System Location: Namma Bengaluru Location Altitude: 3000 ft (915 mtrs) Location Atmospheric Oxygen: 19%					
Peak Pressure	cmH2O	27.0	30.0	28.6						
Plateau Pressure	cmH2O	17.0	29.0	27.1						
PEEP Pressure	cmH2O	5.0	5.0	5.0						
Tidal Volume Delivered	ml	384.0	412.0	399.8						
Total Minute Volume	litres/min	8.0	8.1	8.0						
Mandatory Minute Volume	litres/min	8.0	8.1	8.0						
Spontaneous Minute Volume	litres/min	----	----	----						
Mandatory BPM	bpm	20.0	20.0	20.0						
Spontaneous BPM	bpm	----	----	----						
FIO2	%	21.0	21.0	21.0						
Static DeltaV/DeltaP	ml/cmH2O	17.0	32.0	18.3						
Dynamic DeltaV/DeltaP	ml/cmH2O	16.0	18.0	17.0						
System Temperature	degC	27.0	27.0	27.0						
Miscellaneous Information						Parameter Settings Used				
Information	Value					Parameter	Units	Values		
Number of Breaths	73					Ventilation Mode	mode	ACV		
Number of Mandatory Breaths	73					Tidal Volume	ml	400		
Number of Spontaneous Breaths	0					Minute Volume	l/min	10		
Number of Maintenance Breaths	0					Respiration Rate	bpm	20		
Number of CMV-mode Spontaneous Breaths	0					I:E Ratio	ratio	1:2		
Number of Missing Intervals (Packet loss)	0					PEEP Pressure	cmH2O	5		
Number of WiFi or Server Disconnects	0					Maximum Pressure	cmH2O	50		
Number of Notifications	0					Support Pressure	cmH2O	20		
Number of Warnings	0					Support Pressure Termination	%flow,secs	20%		
Number of Errors	0					FIO2	%	21		
Sequence of Parameter Combinations										
MODE	VT/MV	RR	I:E	PEEP	PMAX	PS	TPS	FIO2	# of BREATHS	Before BREATH#
?	?	?	?	?	?	?	?	?	1	0
ACV	400	20	1:2	5	50	20	20%	?	2	2
ACV	400	20	1:2	5	50	20	20%	21	70	4

Figure 23: Dashboard Statistics View

## Dashboard Alerts View

The Dashboard also provides an option for a “Alerts View”. A screenshot of the alerts view is shown below.

By default, it displays the complete history of errors and warnings encountered within the selected range of breaths. The range slider on top can be used to see the alerts for any range of breath numbers. The ROLLING menu button causes the updates to go back to their default mode.

Breath Range Selector		
Session Errors	Session Warnings	Session Information
<div>ERROR #1 Breath#6 [13-02-2024]10:45:36</div> <div>Some Pressure Leak</div> <div>Check PEEP valve</div> <div>Check Patient Mask</div> <div>Check Breathing tube</div> <div>ERROR #2 Breath#7 [13-02-2024]10:45:39</div> <div>Some Pressure Leak</div> <div>Check PEEP valve</div> <div>Check Patient Mask</div> <div>Check Breathing tube</div> <div>ERROR #3 Breath#8 [13-02-2024]10:45:42</div> <div>Some Pressure Leak</div> <div>Check PEEP valve</div> <div>Check Patient Mask</div> <div>Check Breathing tube</div>		

Figure 24: Dashboard Alerts View

## Dashboard Recording

The Dashboard also provides an option to record any part of the current session using the “Start Recording” menu button on the sidebar menu. The recording can be paused at any time causing that paused window to not be recorded. The Recording at the bottom left of the Snapshots view indicates whether the recording is currently active.

The recording is stored in a JSON database on the disk of the laptop or the desktop that the browser is running on. This recording can be analysed at any future time using the Analyzer WebApp. A screenshot of the recording view is shown below.

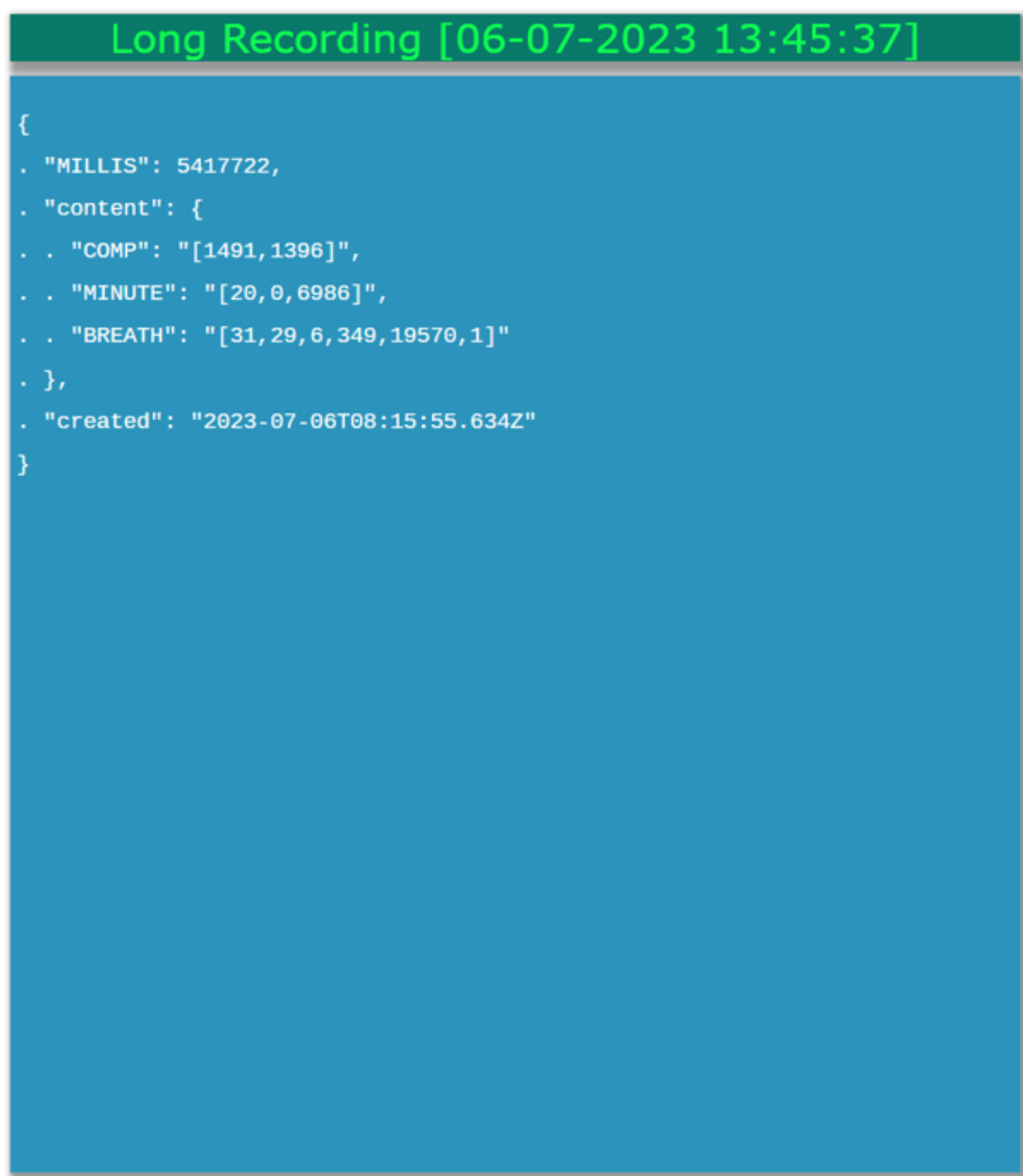
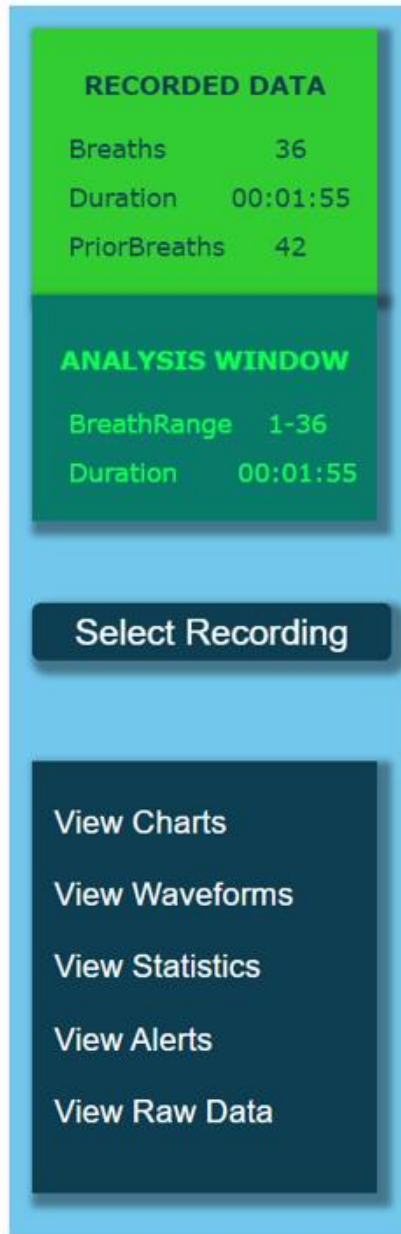


Figure 25: Dashboard Recording View

## WEB Analyzer

The Analyzer enables the analysis of a previously recorded session with a patient. The process starts with selecting a session recording to analyse.



### Analyzer Sidebar Menu

The main menu for the Analyzer is presented as a sidebar menu as shown in the Figure on the left.

The box on the top provides a summary of the currently selected recording for analysis.

The next box is a button to select a particular recording for analysis.

The last box holds all the buttons to do the various types of analysis. The vies are similar to the ones on the Dashboard.

Figure 26: Analyzer Sidebar Menu

## Analyzer Recording Selector

Each previously recorded session is presented in a Selector table. Select a recording for analysis either by double-clicking on a row or using the appropriate checkmark menu button.

After a database is selected, a summary of the recording data is displayed in the top box of the sidebar and the selected table row is highlighted.

INSPIRE-100 Recordings			
Recording Name	Created	Actions	
James Bond	11-02-2024 15:45:06		
New Recording	06-02-2024 18:20:35		
New Recording	06-02-2024 18:18:46		
test	28-01-2024 18:07:11		

Figure 27: Analyzer Selector Table

## Analyzer Range Slider

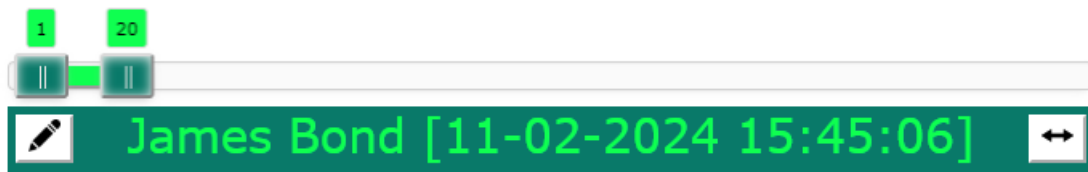


Figure 28: Analyzer Breath Range Selector

By default, the analysis window is the entire recording. To select a particular breath number range to analyse, use the handles of the Range Slider shown below to zero in on the interval of interest. All Analysis actions use the currently selected analysis range. The range selector works in the same fashion as described earlier in the Dashboard section.

## Analyzer Recording Import Export

The EXPORT menu button on each row enables the user to export the database to a text file that can be sent to others for analysis. The IMPORT button on the top left allows the user to import a previously exported text file as a new session available for analysis. Below is a screenshot of the Import screen.

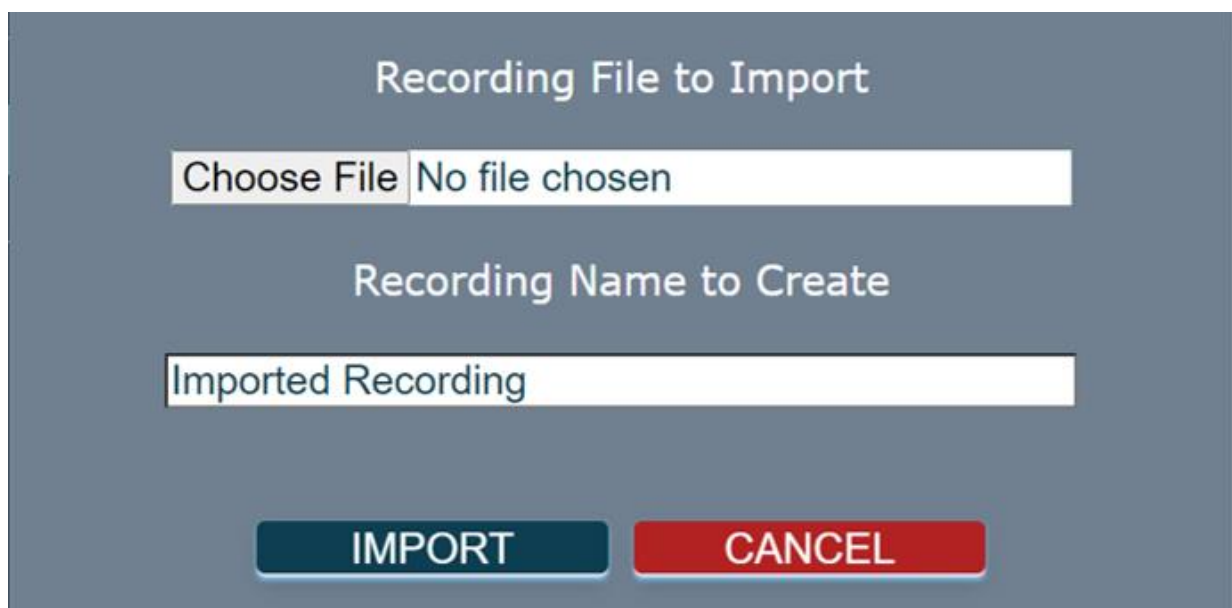


Figure 29: Analyzer Import View



## Analyzer Charts, Statistics, Breath Waveforms and Alerts Views

Finally, the Charts, Statistics, Breath Shapes and Alerts views work in the same fashion as described in the Dashboard section above.

## Install Firmware Upgrade App

Occasionally the system may need to be upgraded in the field for new features or bugs. The new firmware releases are made available on the web for downloading and installing.

A local App must be installed on the user's laptop to enable installation of new firmware for the INSPIRE-100 system. Clicking on this button downloads the appropriate app depending on the operating system of the laptop (WINDOWS or MACOS).

For further details refer to the "Firmware Upgrade Manual".

## FiO<sub>2</sub> Calculator

FiO<sub>2</sub> is controlled externally by setting an appropriate Oxygen input flow rate from the external Oxygen source.

This stand-alone calculator enables calculating the required Oxygen flow rate given the following parameters.

- Deployment Altitude
- Desired FiO<sub>2</sub>
- Purity of the Oxygen Source
- Tidal Volume
- Respiration Rate

Simply position the mouse over any gauge and turn the scroll wheel to change its value. Else, the required value can be typed in the center of each gauge.

This calculator is merely for exploratory purposes and is not required for the operation of the INSIRE-100 system. The appropriate calculator is already built in the INSIPRE-100 system firmware.

The image shows a digital interface for the 'INSPIRE-100 FiO<sub>2</sub> Calculator' by TekMedika. The interface has a dark blue background with white and green text and elements. At the top, the title 'INSPIRE-100 FiO<sub>2</sub> Calculator' is displayed in white, with the TekMedika logo (a green cross with circuit lines) to its left. Below the title, a white box contains the text 'Required Incoming O<sub>2</sub> Flow' and '0.0 (litres/min)'. Underneath this, there is an 'Altitude:' label followed by a text input field containing '0' and a dropdown menu set to 'feet'. The main area of the calculator features four circular gauges arranged in a 2x2 grid. Each gauge has a green arc and a green number in the center. The top-left gauge is labeled 'Desired VT (ml)' and shows '400'. The top-right gauge is labeled 'Desired RR (bpm)' and shows '15'. The bottom-left gauge is labeled 'O<sub>2</sub> Purity (%)' and shows '21'. The bottom-right gauge is labeled 'Desired FiO<sub>2</sub> (%)' and shows '21'.

Parameter	Value
Required Incoming O <sub>2</sub> Flow	0.0 (litres/min)
Altitude	0 feet
Desired VT (ml)	400
Desired RR (bpm)	15
O <sub>2</sub> Purity (%)	21
Desired FiO <sub>2</sub> (%)	21

Figure 25: FiO<sub>2</sub> Calculator