

Virtual Reality Laboratory in the Munroe Meyer Institute

cometrics

v1.2.0 User Guide

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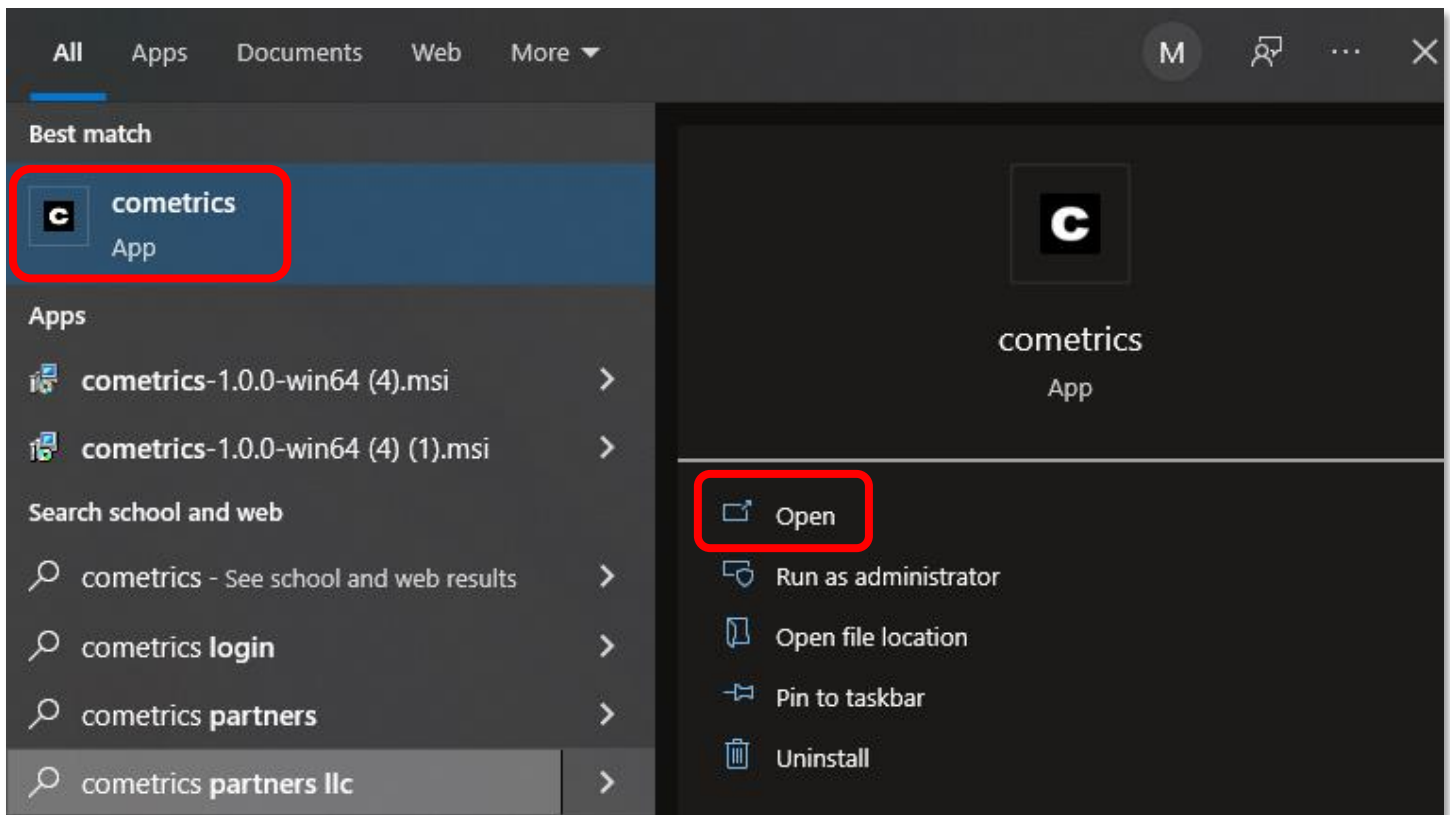
Section 1 Open Program



- Locate the **cometrics** icon on desktop

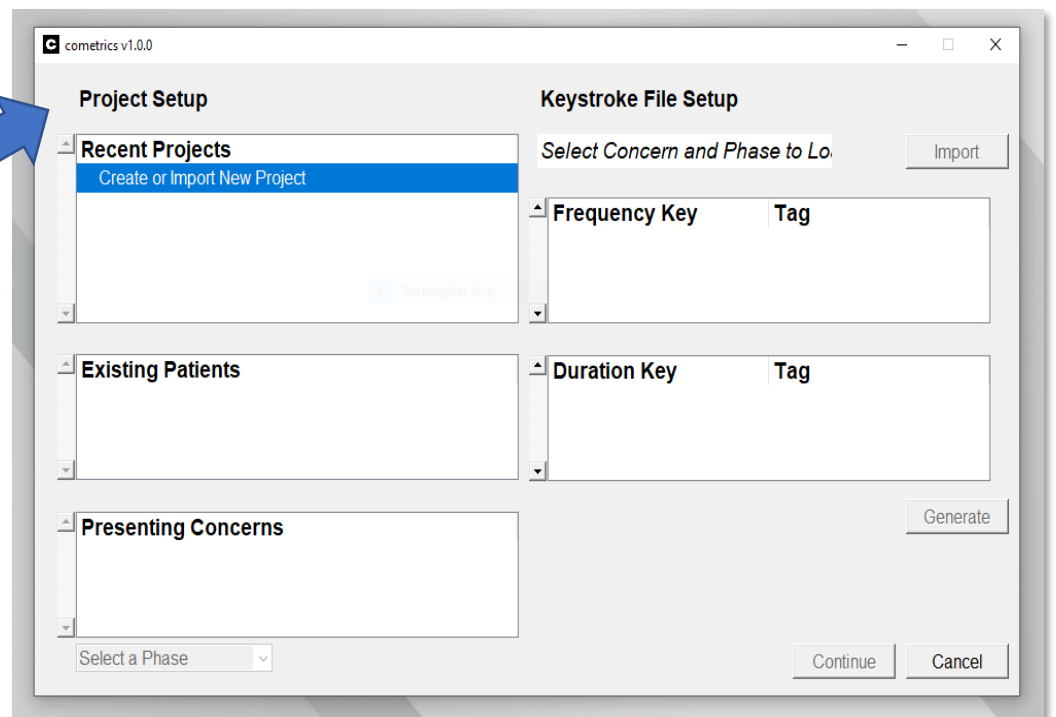
OR

- Search “**cometrics**” in the Windows search bar (bottom left of screen)



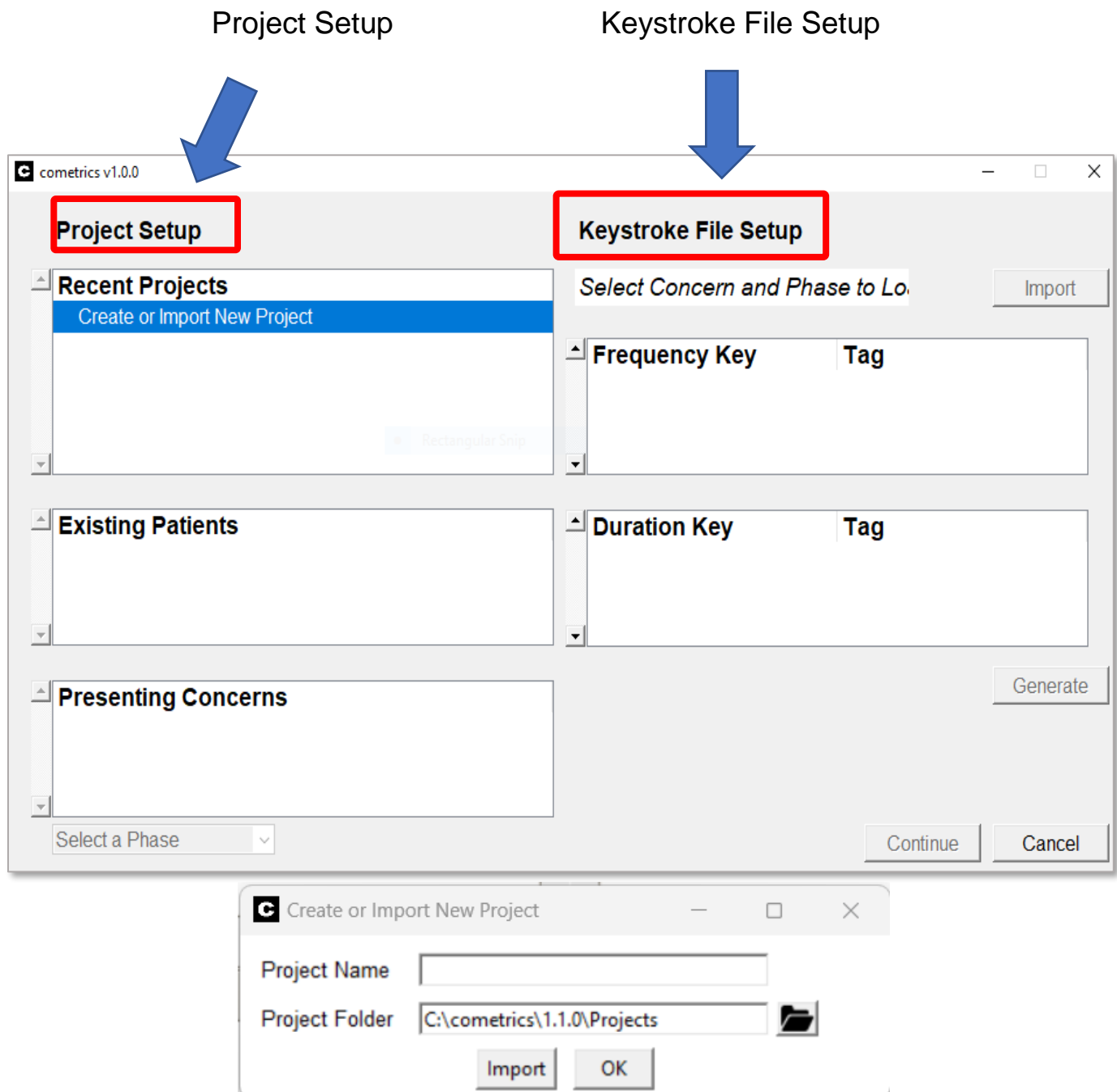
Section 1 Open Program (cont.)

- **Start Menu**
will open



Section 2 Start Menu

Two Sections of Start Menu:



Pressing **Create or Import New Project** will open the above window. The default save directory can be changed using the folder icon. Existing projects can be imported using the **Import** button

Section 3 Project Setup

Project Setup

Recent Projects

Create or Import New Project

Rectangular Snip

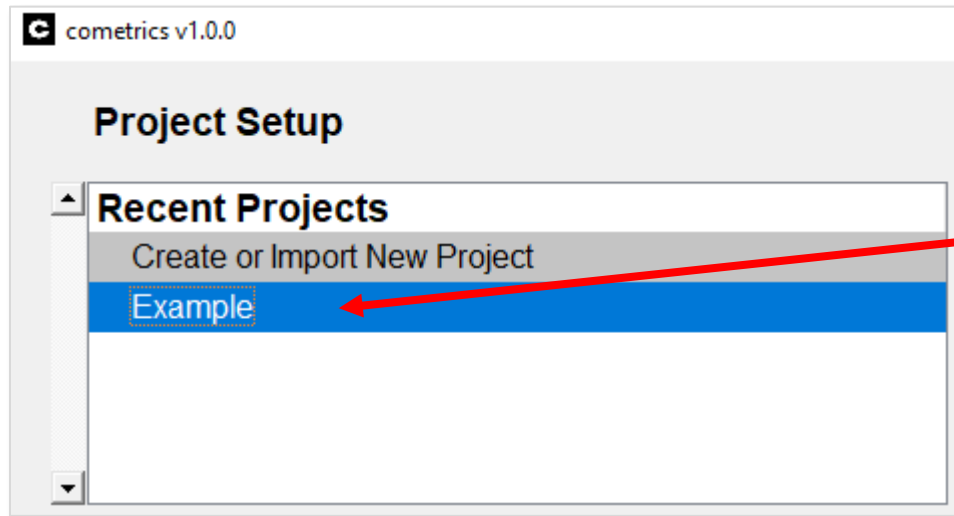
Existing Patients

Presenting Concerns

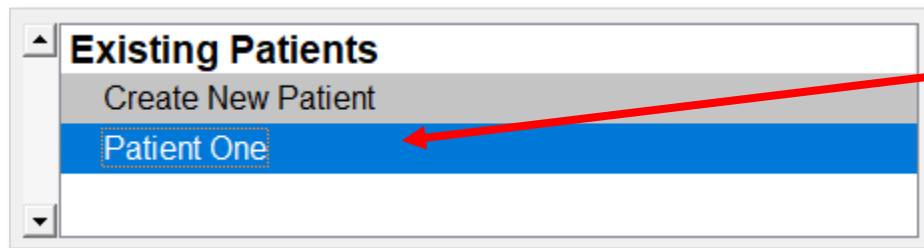
Select a Phase

- **Recent Projects** tab is used for creating and importing projects
- **Existing Patients** tab shows which patient is being studied in each session
- **Presenting Concerns** tab shows what behaviors are being recorded / analyzed in the session

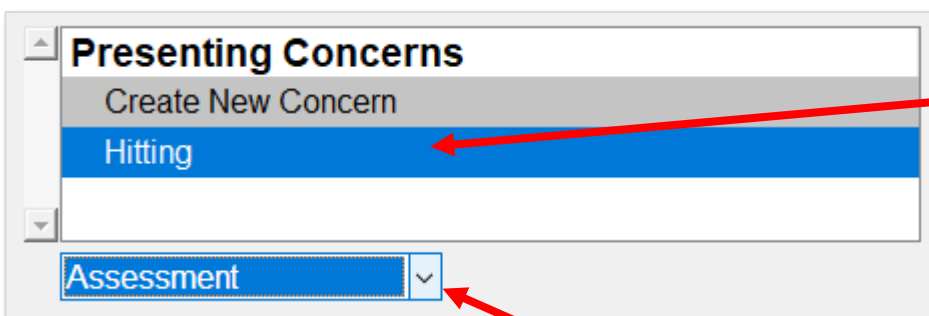
Section 3 Project Setup (cont.)



- 1) Create or import the session you wish to work on
 - a. Right clicking a project will delete the project from the list



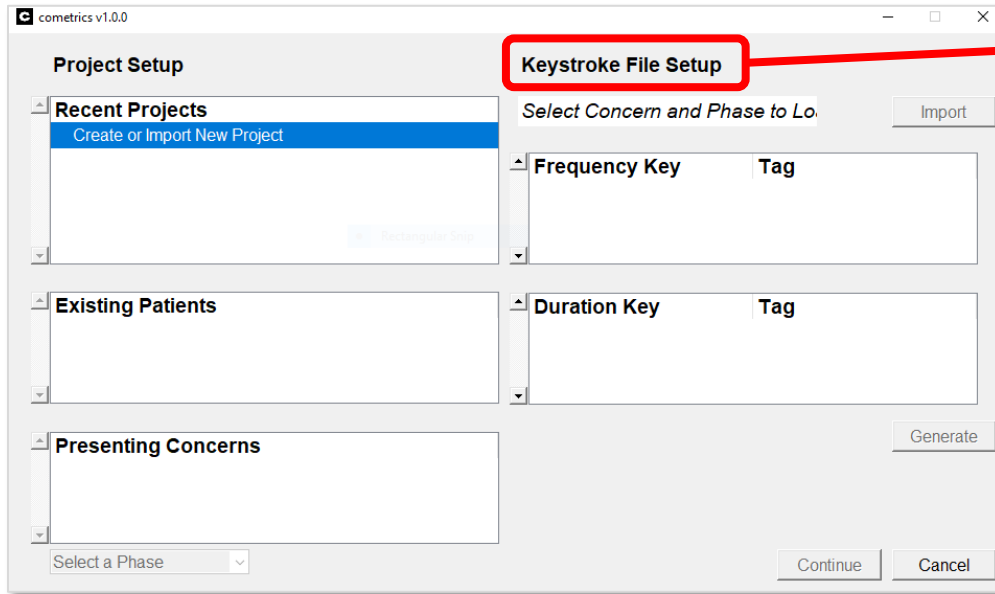
- 2) Create or select the patient being assessed



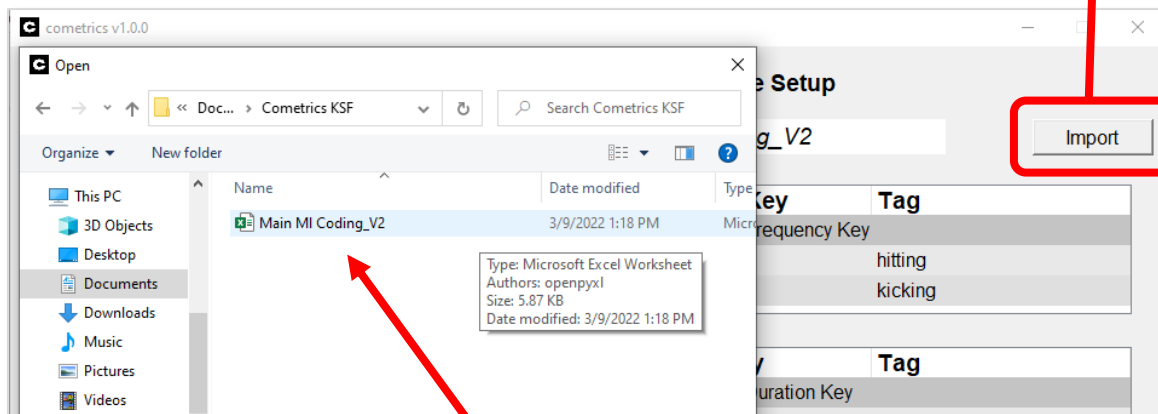
- 3) Create and add the presenting concerns in the session

- 4) Select whether this is an **Assessment** or **Treatment** phase

Section 4 Keystroke File Setup



- **Keystroke File Setup** is used to assign behaviors to keys when coding
- This is done by **importing** an Excel spreadsheet associated with these codes

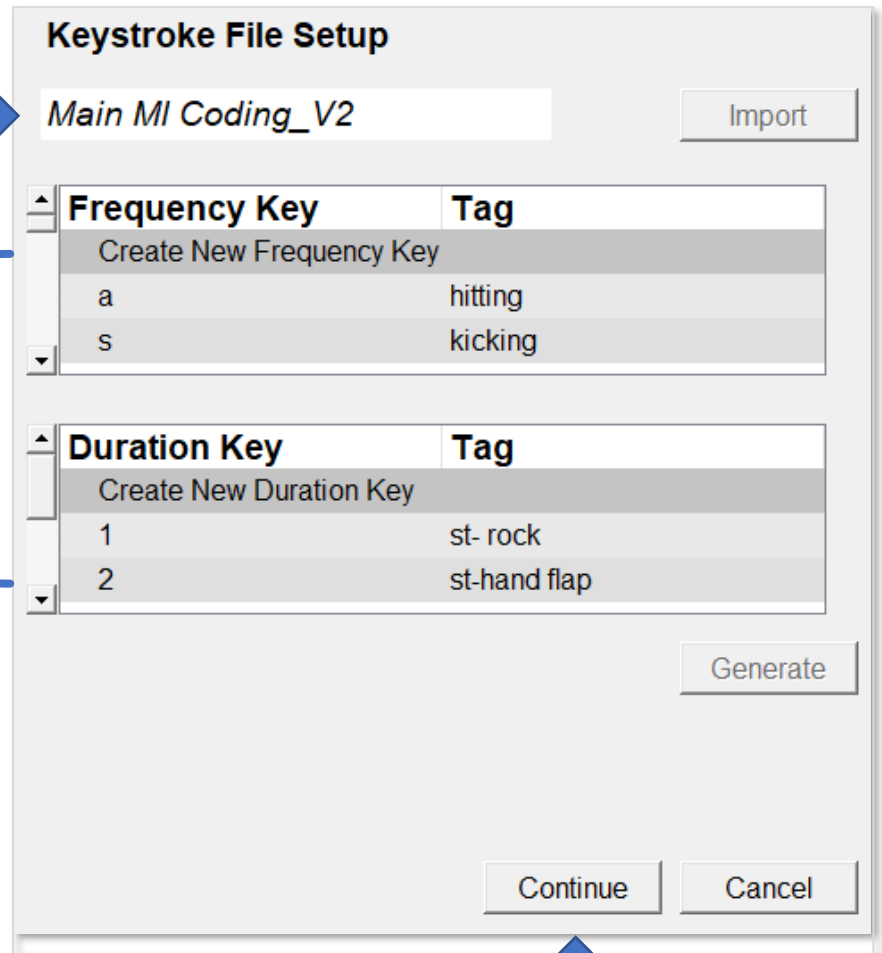


- If a file is not already uploaded, press **Import** to find and select the Excel file you wish to use for coding

Section 4

Keystroke File Setup (cont.)

- Name of the selected Excel file
- Preview of the coding keys in the Excel file



The dialog box titled "Keystroke File Setup" contains the following elements:

- A text field containing "Main MI Coding_V2" with an "Import" button to its right.
- A section titled "Frequency Key" with a "Tag" column. It includes a "Create New Frequency Key" button and a table with two rows: "a" with tag "hitting" and "s" with tag "kicking".
- A section titled "Duration Key" with a "Tag" column. It includes a "Create New Duration Key" button and a table with two rows: "1" with tag "st- rock" and "2" with tag "st-hand flap".
- A "Generate" button at the bottom right of the main area.
- "Continue" and "Cancel" buttons at the bottom right of the dialog.

Blue arrows indicate the following interactions:

- An arrow points to the text field "Main MI Coding_V2".
- A bracket points to the "Frequency Key" and "Duration Key" sections.
- An arrow points to the "Continue" button.

- Select **Continue** in the bottom right to begin coding

Section 5 Patient Information (Page 1)

NOTE: You will **not** be able to begin coding until all sections of **Patient Information** are complete (error messages will occur until the spaces are filled)

The screenshot shows a form titled "Patient Information" with the following fields and annotations:

- Name:** A text input field containing "Example Patient". A blue arrow points to it with the label "Patient name".
- Medical Record Number:** An empty text input field. A blue arrow points to it with the label "Unique identifier for patient".
- Session Location:** An empty text input field. A blue arrow points to it with the label "Where the session is happening".
- Assessment Name:** An empty text input field. A blue arrow points to it with the label "The name of the assessment".
- Condition Name:** A dropdown menu. A blue arrow points to it with the label "Induced stimulus that you are recording measures for".
- Primary Therapist:** An empty text input field. A blue arrow points to it with the label "Name of primary therapist".
- Case Manager:** An empty text input field. A blue arrow points to it with the label "Name of case manager".
- Session Therapist:** An empty text input field. A blue arrow points to it with the label "Name of session therapist".

At the bottom of the form, there are navigation controls:

- A left arrow icon in a square box.
- A red box containing the text "1/3".
- A right arrow icon in a square box.


Red lines connect the "1/3" box and the right arrow box to the explanatory text at the bottom of the page.


- There are 3 **Patient Information** tabs


- Use the arrows to navigate the **Patient Information** tabs


Section 5 Patient Information (Page 2)



Patient Information

Data Recorder
Your Name |  Name of the person coding the video

Session Number
1  Identifying number for the session

Primary or Reliability Session
☒ Primary ☐ Reliability  Select if this is a Primary session (patient video) or a Reliability session (test for coder accuracy)

Session Date: March 07, 2022
Session Start Time: 16:19:24  The date and starting time of the coding session

 2/3 

Section 5 Patient Information (Page 3)

Patient Information	
Char	Tag
a	hitting
s	kicking
d	pushing
f	grab_scratch
g	head butting
j	hair pulling
h	biting
k	choking
l	sib-head bang
q	sib-head hit
w	sib-self-hit
e	sib-biting
r	sib-eye poke
t	sib-body slam
y	sib-hair pull
u	sib-choking
i	sib-pinch_scratch
o	throwing object

Navigation controls: Left arrow, 3/3, Right arrow

Page 3 of the **Patient Information** tab lists the keyboard characters assigned to each behavior tag

This will be automatically shown when the session is started

Section 6 Session Times

The screenshot shows the 'Session Times' interface with the following elements and annotations:

- Session Time** (0:00:00): Records the amount of time spent coding.
- Break Time** (0:00:00): Records the amount of time spent paused.
- Session Stopped**: Shows if session is Started (**green**), Stopped (**red**) or Paused (**yellow**).
- ☐ **Reminder Beep (Seconds)**: Enable to play a sound on an interval for discontinuous measurement strategies.
- ☒ **Session Duration** 262: Sets the total duration of the session.
- ☐ **Double Speed Playback**: Enable to play a loaded video at double speed.
- Start Session** (Esc Key): Start / Stop the session.
- Pause Session** (Left Ctrl): Pause / Resume the session.
- Navigation Icons**:
 - Backward** (Left Arrow): Used to go **Backward** in video by one second.
 - Play / Pause** (Play/Pause Symbol): Used to **Play / Pause** video in video tab.
 - Forward** (Right Arrow): Used to go **Forward** in video by one second.

Section 7

Key Bindings

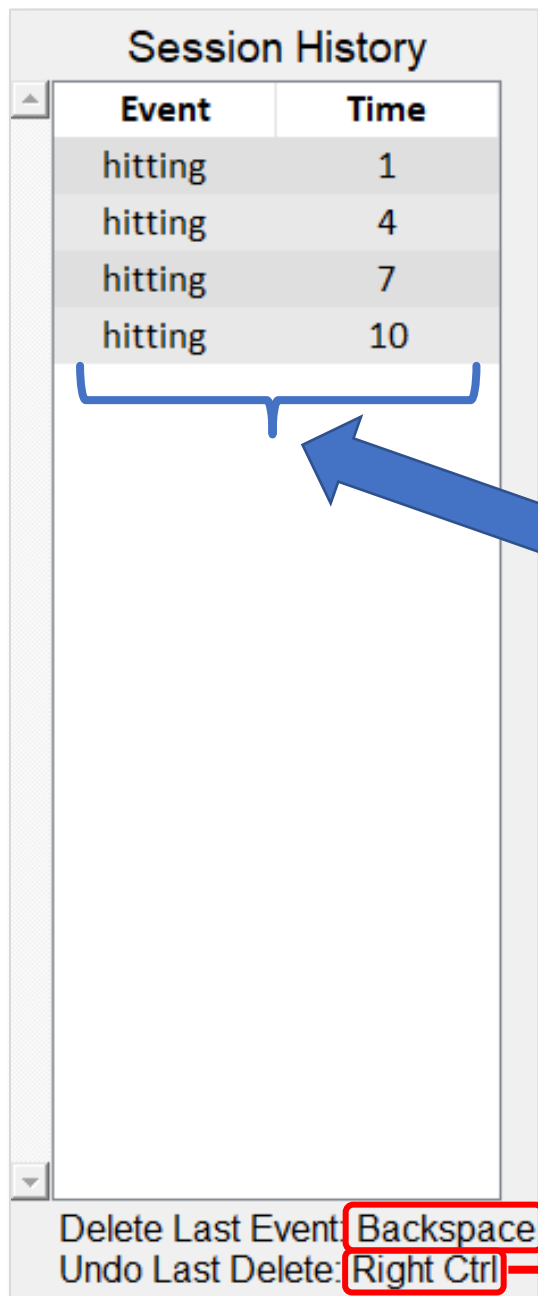
- The **Key Bindings** tab shows the **characters** tied to each behavior

Frequency Bindings			Duration Bindings			
Char	Freq	Tag	Char	Dur	Total	Tag
a	0	hitting	1	0	0	st-roc
s	0	kicking	2	0	0	st-har
d	0	pushing	3	0	0	st-tou
f	0	grab_scr	4	0	0	st-hea
g	0	head bui	5	0	0	sterec
j	0	hair pull				
h	0	biting				
k	0	choking				
l	0	sib-head				
q	0	sib-head				
w	0	sib-self-l				
e	0	sib-bitin				
r	0	sib-eye p				
t	0	sib-body				
y	0	sib-hair				
u	0	sib-chok				
i	0	sib-pincl				
o	0	throwing				

- The **Frequency** column shows the number of times a code has been used in the session
- The **Dur** and **Total** column records how long a code has been active per activation and per session, respectively

Section 7

Key Bindings (cont.)



Event	Time
hitting	1
hitting	4
hitting	7
hitting	10

Delete Last Event: Backspace

Undo Last Delete: Right Ctrl

- The **Session History** tab gives a basic view of what codes have been used and the time (in seconds) at which they occurred
- The **Event** and **Time** columns show what behaviors have been coded during the session and at what time they occurred, respectively
- Press **Backspace** to delete the last coded event
- Press the **Rightmost Control** key to undo the last deleted event

Section 7 Key Bindings (Keyboard)

Keyboard Codes

	1 Stereo Rock	2 St-Hand Flap	3 St-Touch / Tap	4 St-Head Swing	5 Stereo- vox								
	Q Sib Head-Hit	W Sib Self- Hit	E Sib Biting	R Sib Eye-Poke	T Sib Body- Slam	Y Sib Hair- Pull	U Sib Choking	I Sib Pinch / Scratch	O Throwing Object	P Kick / Hit Object			
	A Hitting	S Kicking	D Pushing	F Grab / Scratch	G Head butt	H Biting	J Hair Pulling	K Choking	L Sib Head Bang				
	Z Flip Furniture						N Flop						

Keyboard Close Up

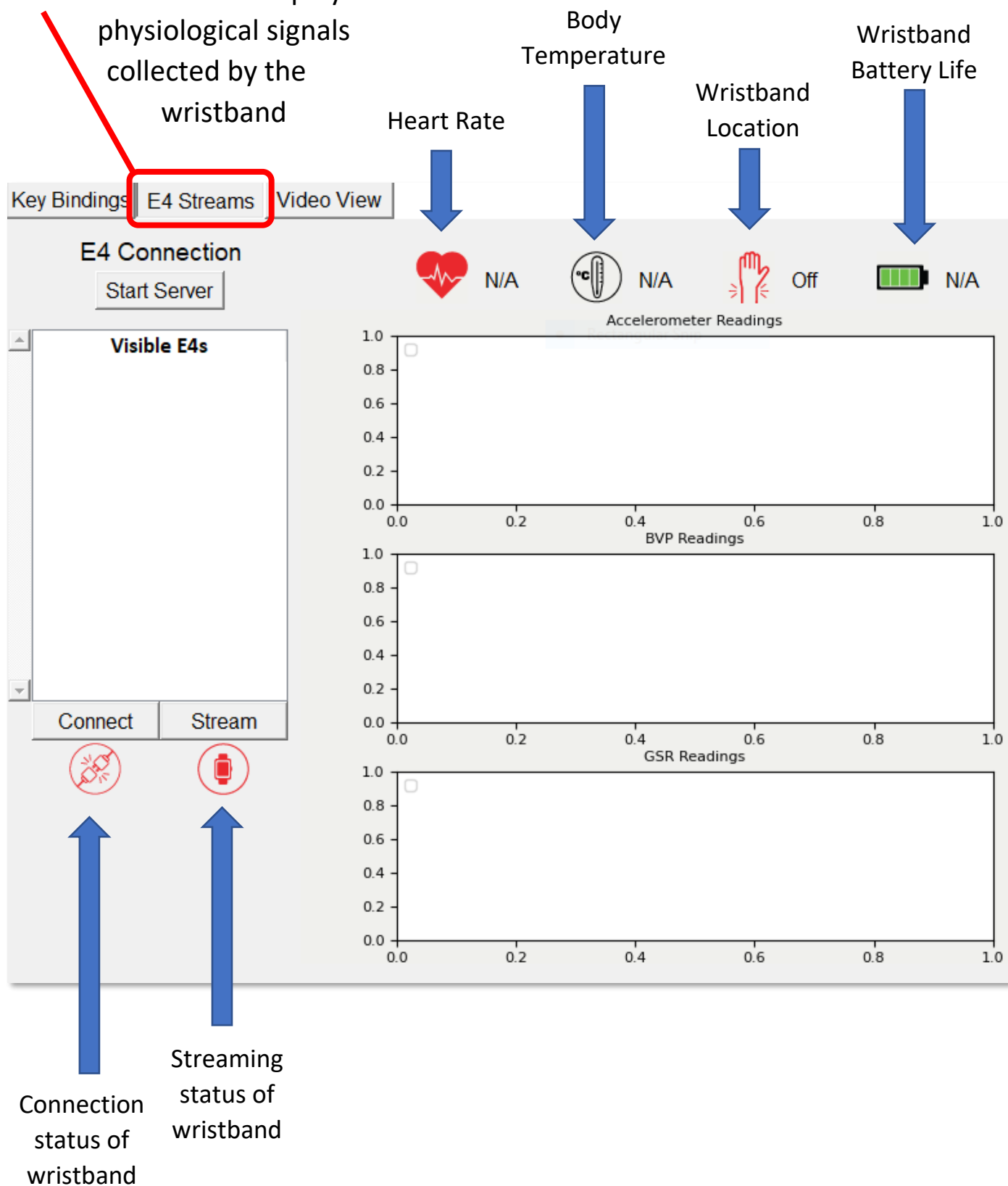
1 Stereo Rock	2 St-Hand Flap	3 St-Touch / Tap	4 St-Head Swing	5 Stereo- vox									
Q Sib Head-Hit	W Sib Self- Hit	E Sib Biting	R Sib Eye-Poke	T Sib Body- Slam	Y Sib Hair- Pull	U Sib Choking	I Sib Pinch / Scratch	O Throwing Object	P Kick / Hit Object				
A Hitting	S Kicking	D Pushing	F Grab / Scratch	G Head butt	H Biting	J Hair Pulling	K Choking	L Sib Head Bang					
Z Flip Furniture						N Flop							

****For exact descriptions of each behavior,
see **Operational Definitions** document**

****See the **Coding Cheat-Sheet** for simplified
descriptions of the behaviors and their keys**

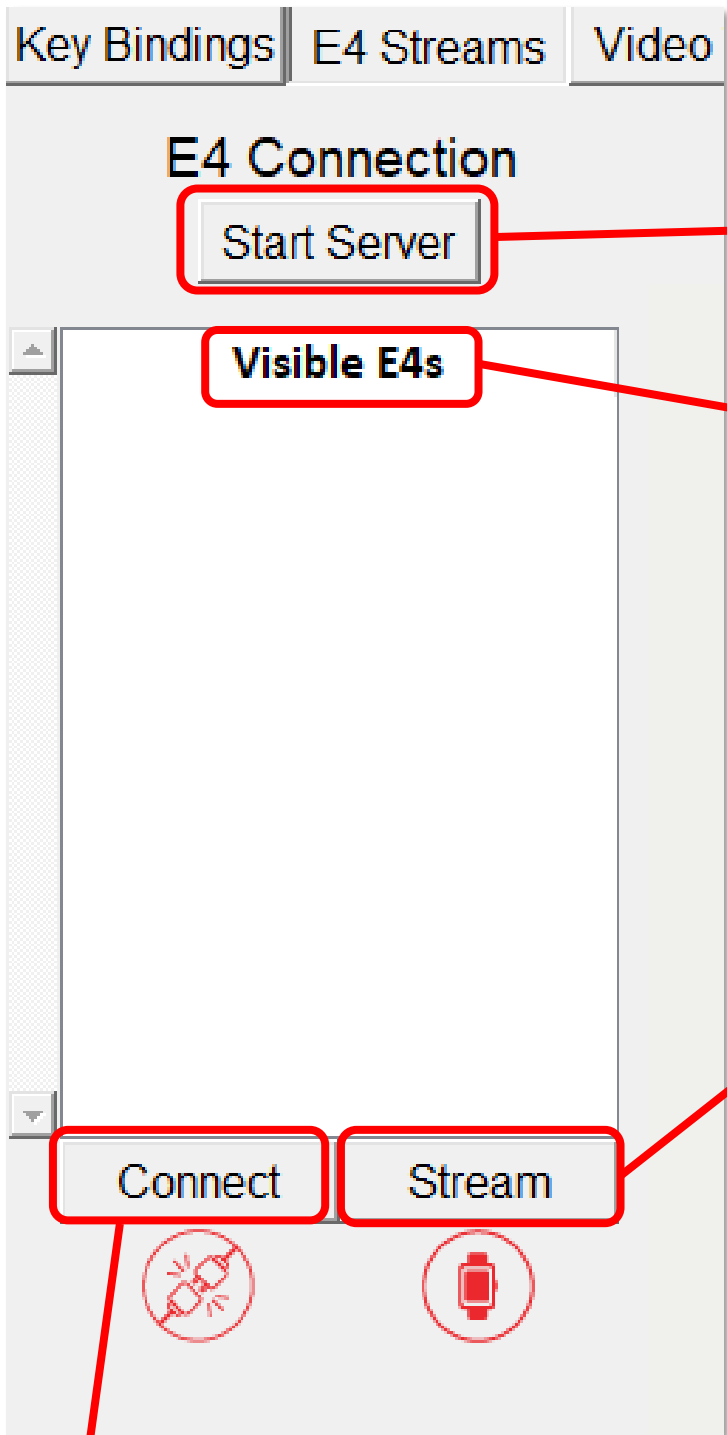
Section 8 E4 Streams

- **E4 Streams** tab displays physiological signals collected by the wristband



Section 8

E4 Streams (cont.)

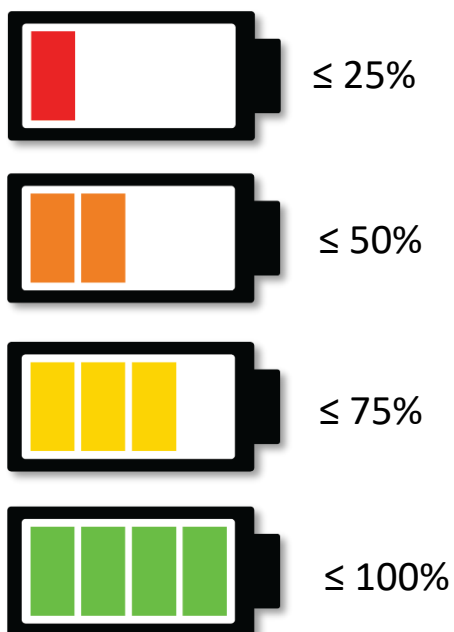


- Press **Start Server** to begin utilizing the E4 wristband
- The **Visible E4s** tab shows the available wristbands that can be used to stream data
- Select **Stream** to start streaming the data from the wristband to the cometrics program
- Select **Connect** to connect the wristwatch to the cometrics program

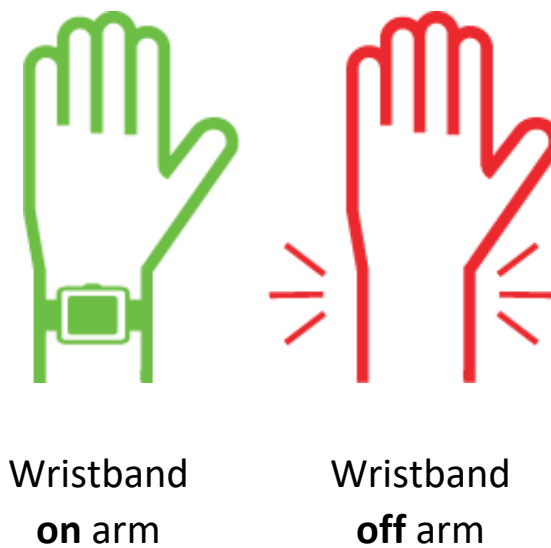
Section 8

E4 Streams (Icons)

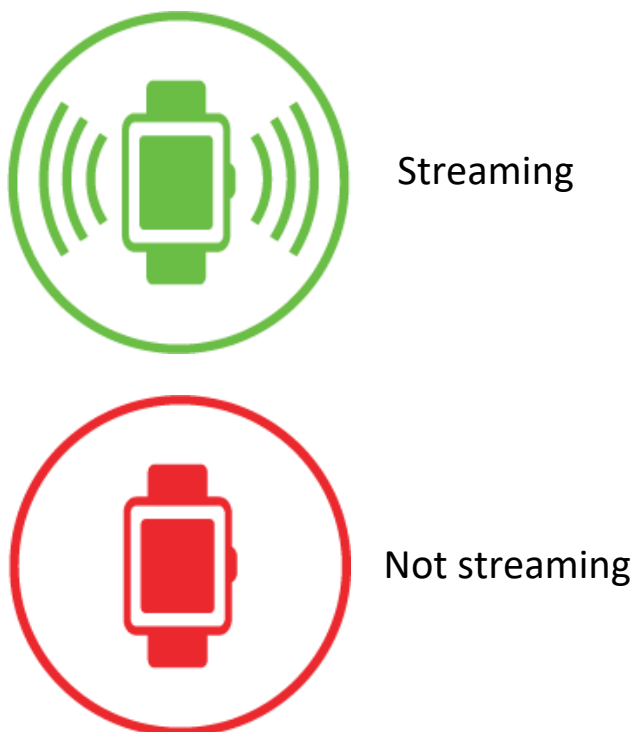
Battery Life



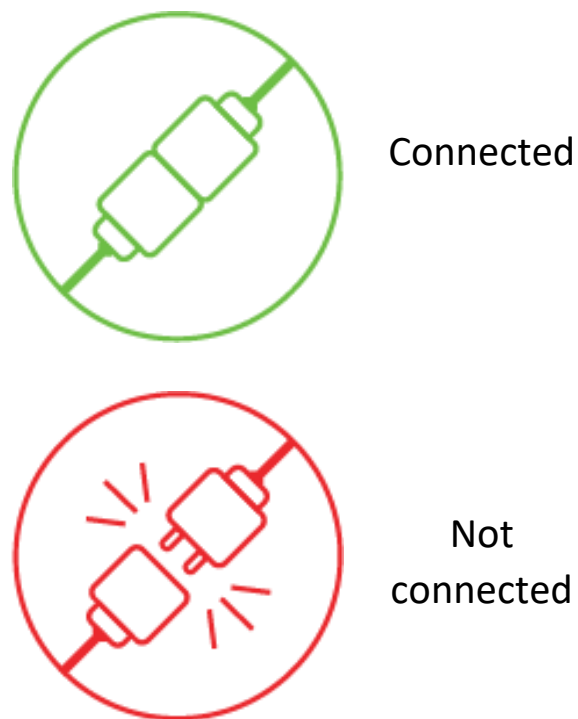
Wristband Location



Streaming Status



Connection Status

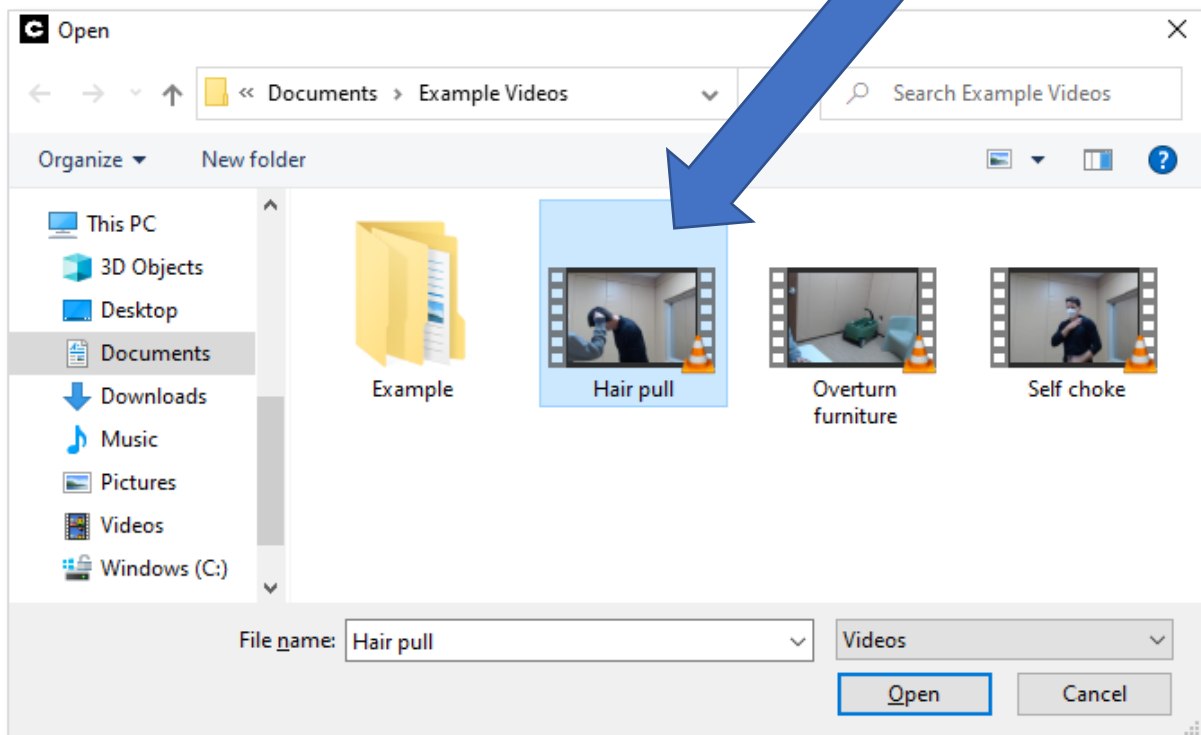


Section 9

Video View

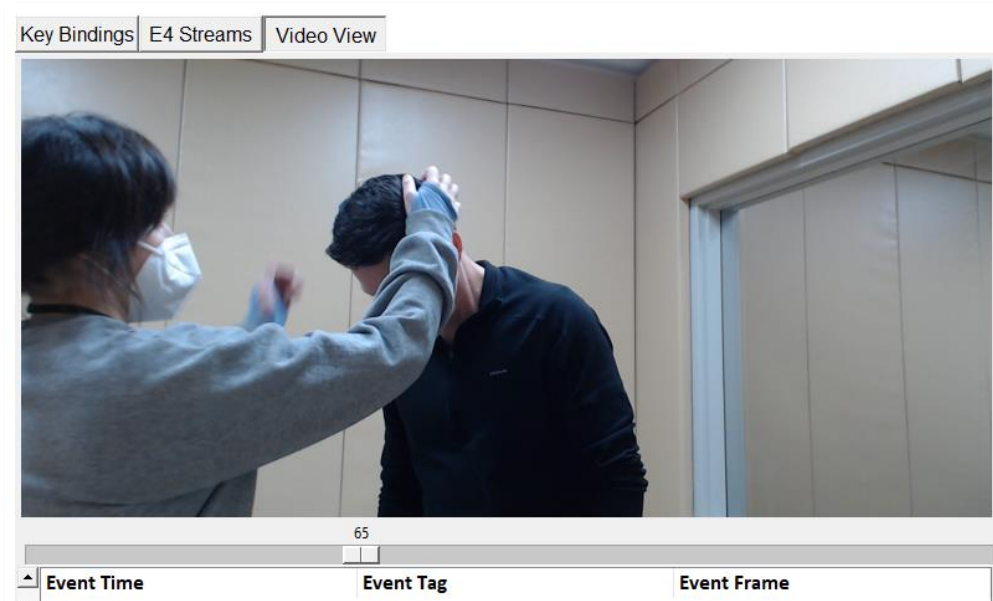


- The **Video View** window shows the video recording of the session
- To record from a connected **Webcam**, use the dropdown to select an input
- The **Load Video** button is used to select and upload the video you want to code
- After pressing **Load Video**, locate the video file you wish to upload

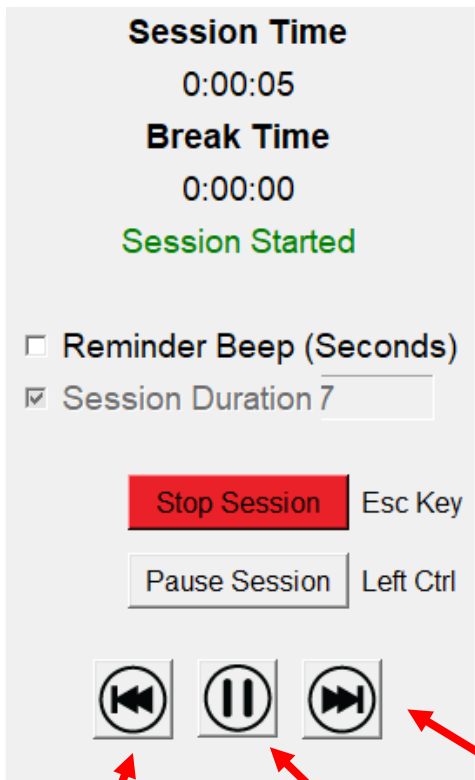


Section 9

Video View



- Selected video will upload and be viewable for coding




- Used to go **Backward** in video by one second
- Used to **Play / Pause** video
- Used to go **Forward** in video by one second

Section 9 Video View

When coding an uploaded video, the **Video View** tab will look like this. The individual codes given to the video are labeled by 3 characteristics: **Event Time**, **Event Tag**, and **Event Frame**.

Key Bindings E4 Streams Video View

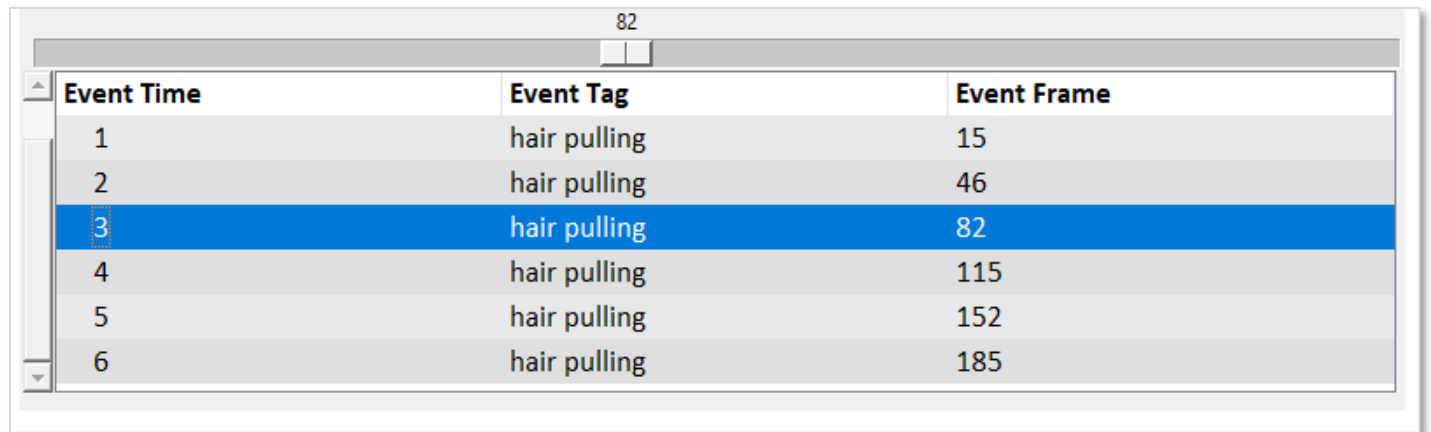


82

Event Time	Event Tag	Event Frame
1	hair pulling	15
2	hair pulling	46
3	hair pulling	82
4	hair pulling	115
5	hair pulling	152
6	hair pulling	185

Section 9 Video View

- Codes can be viewed underneath the **Video View** Tab



Event Time	Event Tag	Event Frame
1	hair pulling	15
2	hair pulling	46
3	hair pulling	82
4	hair pulling	115
5	hair pulling	152
6	hair pulling	185

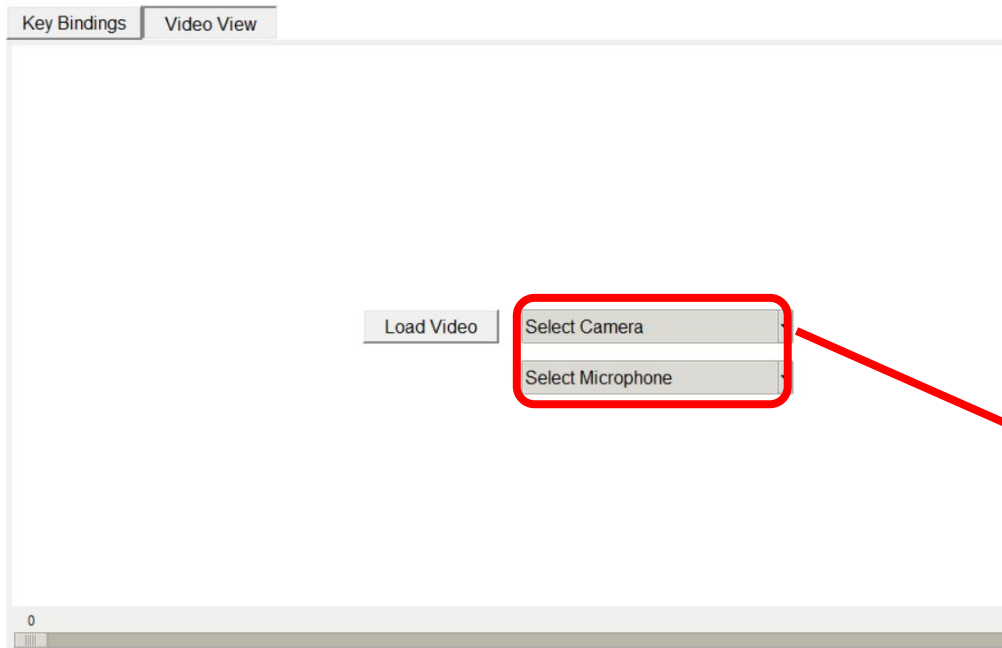
- The **Event Time** column breaks the video into more manageable sections. This makes it easier to recall the general time frame in which events occurred.
- The **Event Tag** column shows the behavior assigned to the given code
- The **Event Frame** tab shows the specific frame where the coded event begins

This example video has 189 total frames. The **Event Time** column breaks this down into 6 sections.

Events can be edited by double clicking an event. A popup window will open that allows the event to be changed using a dropdown.

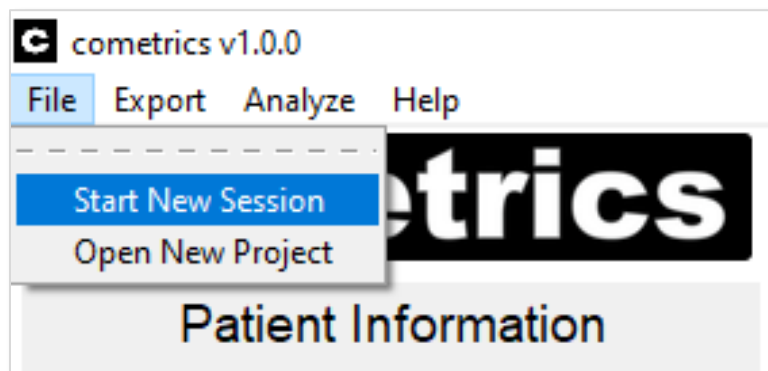
Section 9

Video View



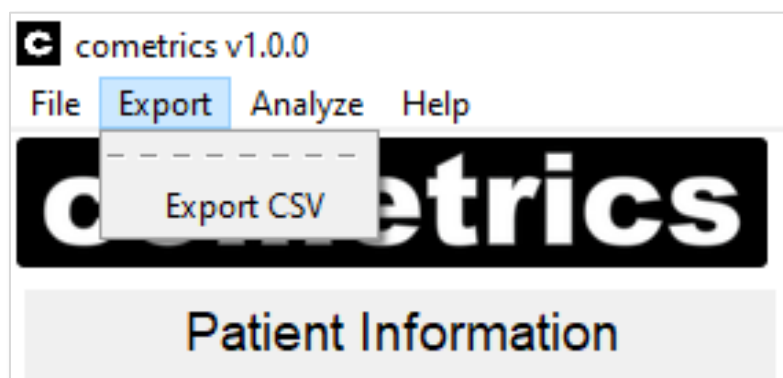
- Connected cameras can be selected for use in this tab
 - Selected cameras can be used to **view, record,** and **code** sessions **live**
 - The order of activation of connected **Webcams** is the order of the inputs on the camera dropdown menu
- To turn on the **Webcam and Mic** or other connected camera, press **Select Camera** and choose the desired input and press **Select Microphone** and choose the desired input

Section 10 Quick Access Menu

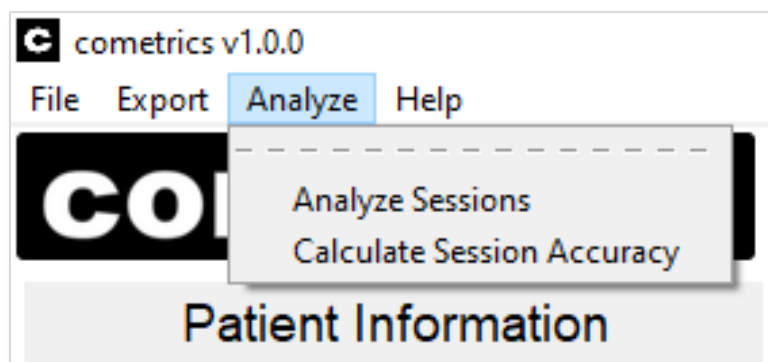


Start New Session – Reset the coding UI with the same settings

Open New Project – Close the coding UI and restart cometrics

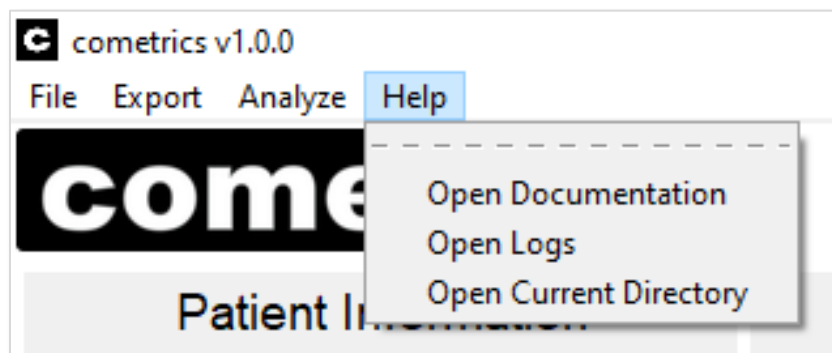


Export CSV – Used to export all existing session data for the patient into CSV files



Analyze Sessions – Plots the session history for the patient into their KSF

Calculate Session Accuracy – Calculate the interobserver metrics between two sessions



Open Documentation – Opens this guide using default PDF viewer

Open Logs – Opens the log file directory using File Explorer

Open Current Directory – Opens the working directory for the current patient

Section 11 Keystroke File Format

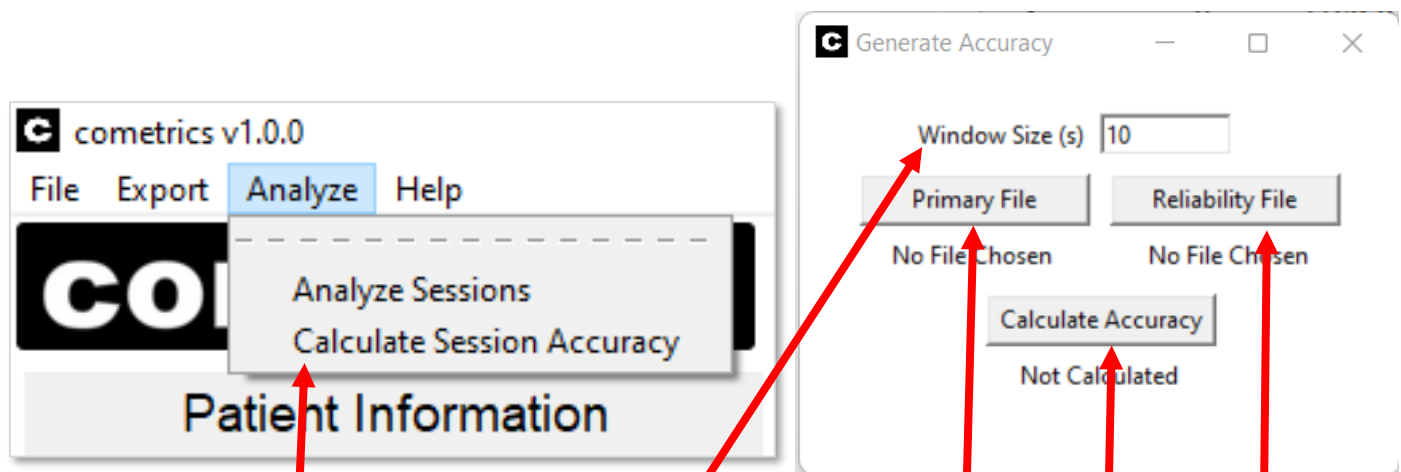
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Assessment:_____									Session Data												
2	Client:_____		Data Coll.							Frequency						Duration						
3										q	w	e	r	t	y	a	b	c	d	e	ST	PT
4	Session	Cond.	Date	Therapist	Primary	Reliability	Notes	Sess. Dur. (mins)		Freq 1	Freq 2	Freq 3	Freq 4	Freq 5	Freq 6	Dur 1	Dur 2	Dur 3	Dur 4	Dur 5	Session Time	Pause Time

The keystroke file has a format that needs to be followed, an example of a working keystroke file can be found in the *references* folder of the root directory of the cometrics installation

The fields in the example keystroke file need to be present and when a new revision is created within the cometrics user interface, any custom fields or formatting are **not preserved**

Section 12

Interobserver Agreement Coefficients



The calculation bin size can be adjusted in units of seconds, with 10 seconds as the default

Select which session will act as the primary session

When both sessions are selected the IOA coefficients can be calculated, the output file will be highlighted in the File Explorer

Select which session will act as the reliability session

The 'Analyze' tab in the menu bar will allow the user to calculate the interobserver agreement (IOA) coefficients between two sessions

Pressing this button will open the window to the right

Section 12 Interobserver Agreement Coefficients

Frequency Keys Partial Interval Agreement Percentage (PIA)

For each interval, $x = \text{smaller value} / \text{larger value}$

If both reliability and primary have zero value, then $x = 1$

Partial Interval Agreement = average all x values * 100

Frequency Keys Occurrence Interval Agreement Percentage (OIA)

Given that one observer scored 1 or more for an interval, agreement if both scored at least 1

If both observers recorded zero responses, the interval is excluded

Occurrence Interval Agreement = agreements / (agreements + disagreements) * 100

Frequency Keys NonOccurrence Interval Agreement Percentage (NIA)

Given that one scored 0 for an interval, agreement if both scored 0

If both observers recorded at least one response in the interval, then the interval is excluded

NonOccurrence Interval Agreement = agreements / (agreements + disagreements) * 100

Frequency Keys Exact Agreement Percentage (EIA)

Agreement is scored if both primary and reli have same value for an interval.

Exact Agreement Percentage = total agreements / total intervals * 100

Frequency Keys Total Agreement Percentage (TIA)

Agreement = # of intervals where both scored zero or > 1

Total agreement = number of agreements / total intervals * 100

Duration Keys Partial Interval Agreement Percentage (PIA)

For each interval, $x = \text{smaller value} / \text{larger value}$

If both reli and primary have zero value, then $x = 1$

Partial Interval Agreement = the average of all x values * 100

Duration Keys Exact Interval Agreement Percentage (EIA)

For each interval the value of the primary and reli is rounded to the nearest second

Agreement is scored if both primary and reli have same value for an interval.

Exact Agreement Percentage = total agreements / total intervals * 100

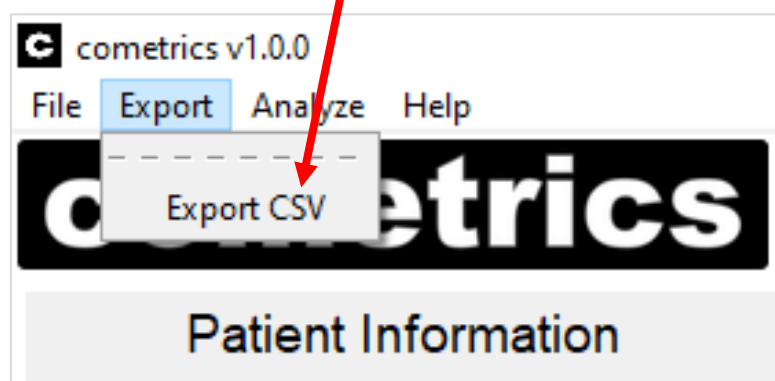
Section 13 Session Output File Format

Each session has an output file that lists all collected information during a session including the Patient Information fields, keystrokes logged with timestamps from the timer, E4 frame, and video frame, where applicable, as well as all E4 data organized into one second windows

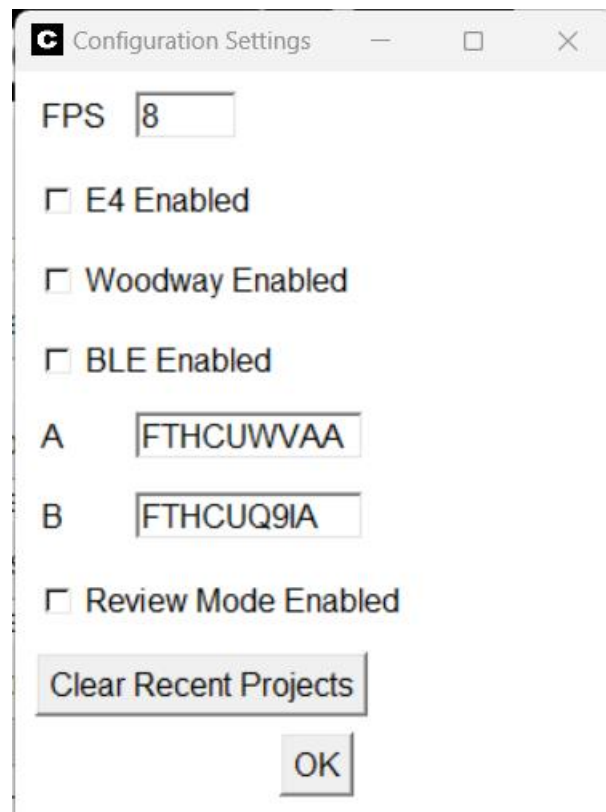
The session file is in JSON format, which is a human-readable file that is easily parsed in various programming languages

The file can be opened and read in a text file editor, such as Notepad

Additionally, sessions can be converted to comma-separated value (CSV) format using the button in the 'Export' tab



Section 14 Configuration Changes



In the root directory of the cometrics installation is a file called *config.yml*, which defines several control variables for the software

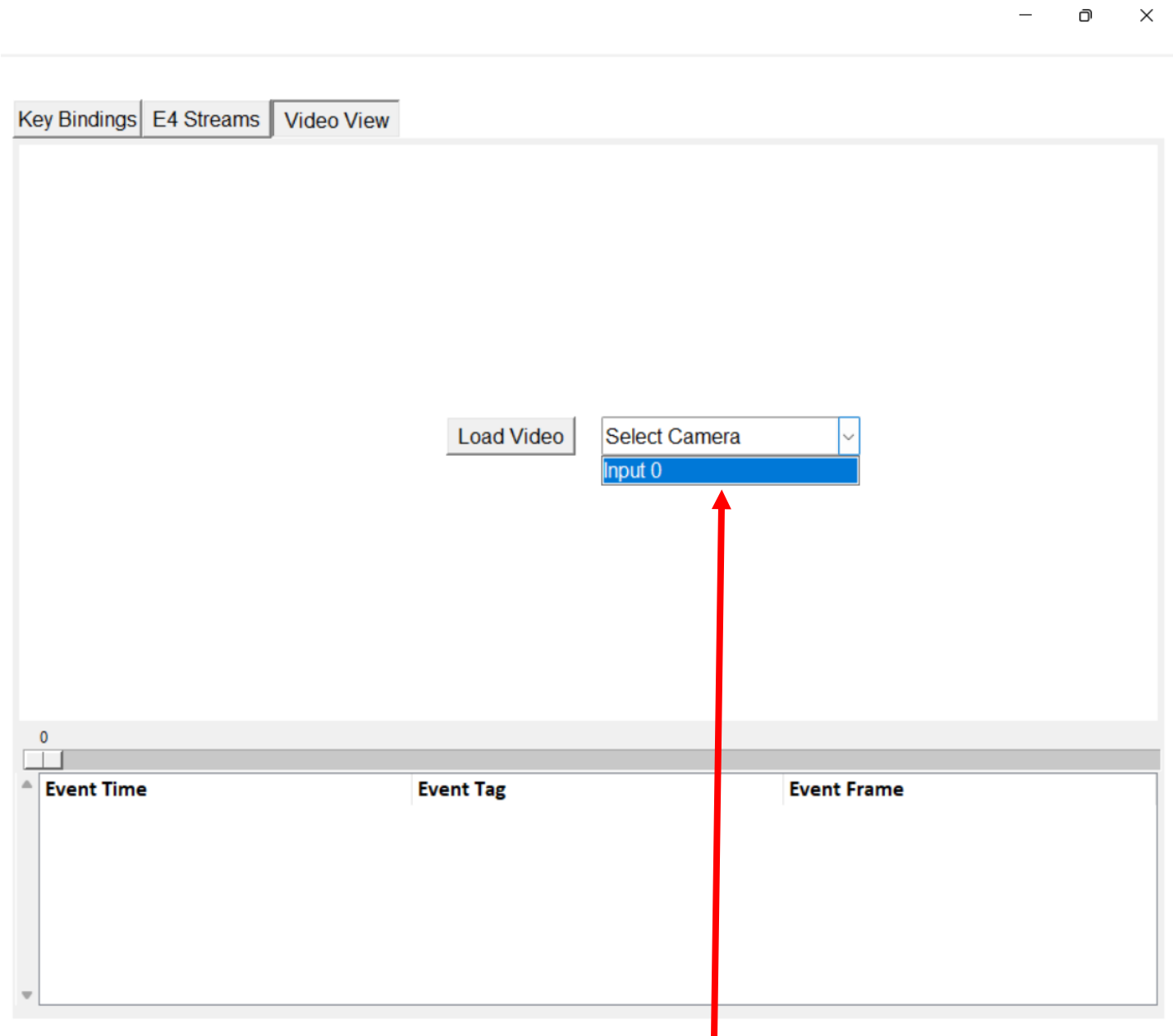
The above user interface allows the user to modify this file. The “FPS” field allows the user to change the frames per second on the webcam feed. Values up to 30 FPS have been used, but the max FPS is dependent on your camera.

The E4 checkbox enables the recording of Empatica E4 data. The Woodway checkbox enables the control of a Woodway Split Belt Treadmill. The BLE checkbox enables the control of a BLE peripheral device. The Review mode checkbox enables the Review Mode tab.

The A and B fields allow the input of the serial numbers of the Woodway Split Belt Treadmill.

The “Clear Recent Projects” will delete all of the projects that are saved and shown during Project Setup.

Section 15 Understanding Webcam Order



When cometrics starts up it will poll for all connected cameras, either integrated or connected via USB and the list indicated above will be populated in the order that cameras are found

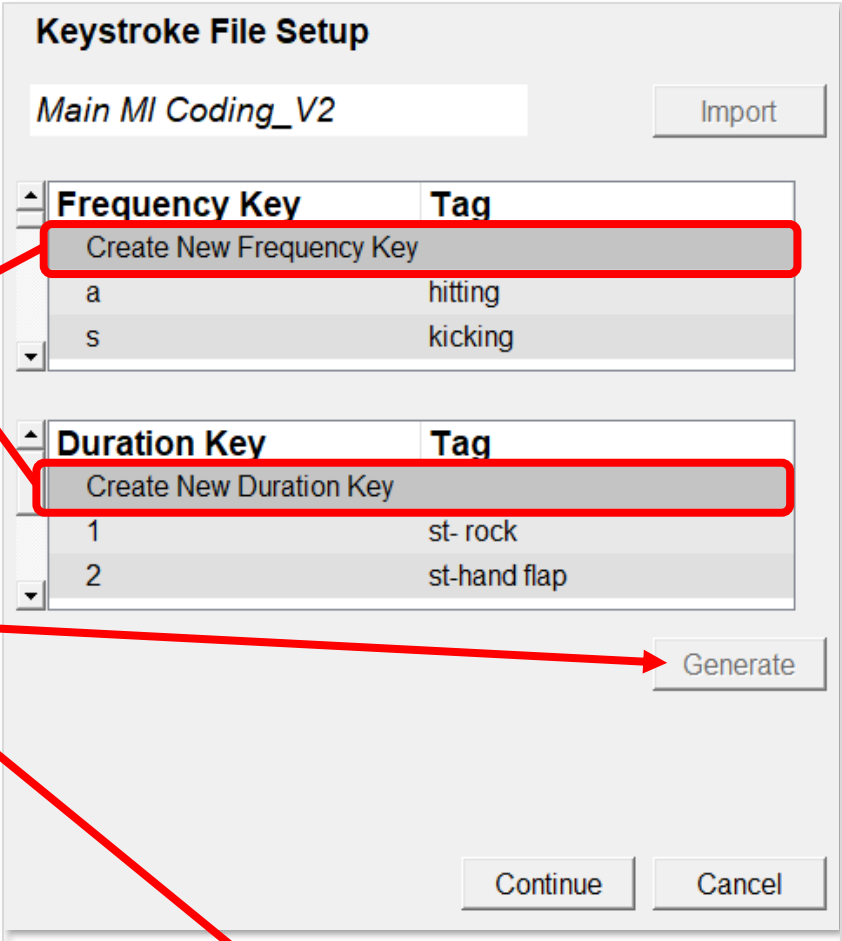
Generally, this order is the same each time given the same cameras being connected, but there is no way to differentiate between cameras

The user will have to test each input to determine which camera is which input

Section 16 Modifying Keystroke Files

Pressing either of the two highlighted buttons will create a new key within the keystroke file

When a new key is created this way, the “Generate” button will be interactable and a popup will show



The 'Keystroke File Setup' dialog box shows a file named 'Main MI Coding_V2'. It contains two tables. The first table, 'Frequency Key', has a 'Create New Frequency Key' button highlighted in red. The second table, 'Duration Key', has a 'Create New Duration Key' button highlighted in red. A red arrow points from the 'Generate' button to the 'Enter New Binding' popup.

Frequency Key	Tag
Create New Frequency Key	
a	hitting
s	kicking

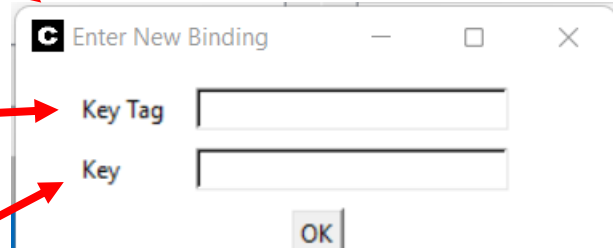
Duration Key	Tag
Create New Duration Key	
1	st- rock
2	st-hand flap

Buttons: Import, Generate, Continue, Cancel

Key Tag – The tag (behavior, label, etc.) that should be associated with hitting the specified key

Key – The key press that should trigger the recording of the specified tag

Pressing “OK” will add the key to the end of the displayed list



The 'Enter New Binding' popup dialog box has two input fields: 'Key Tag' and 'Key'. A red arrow points from the 'Key Tag' field to the 'Key Tag' label, and another red arrow points from the 'Key' field to the 'Key' label. An 'OK' button is at the bottom.

Fields: Key Tag, Key

Button: OK

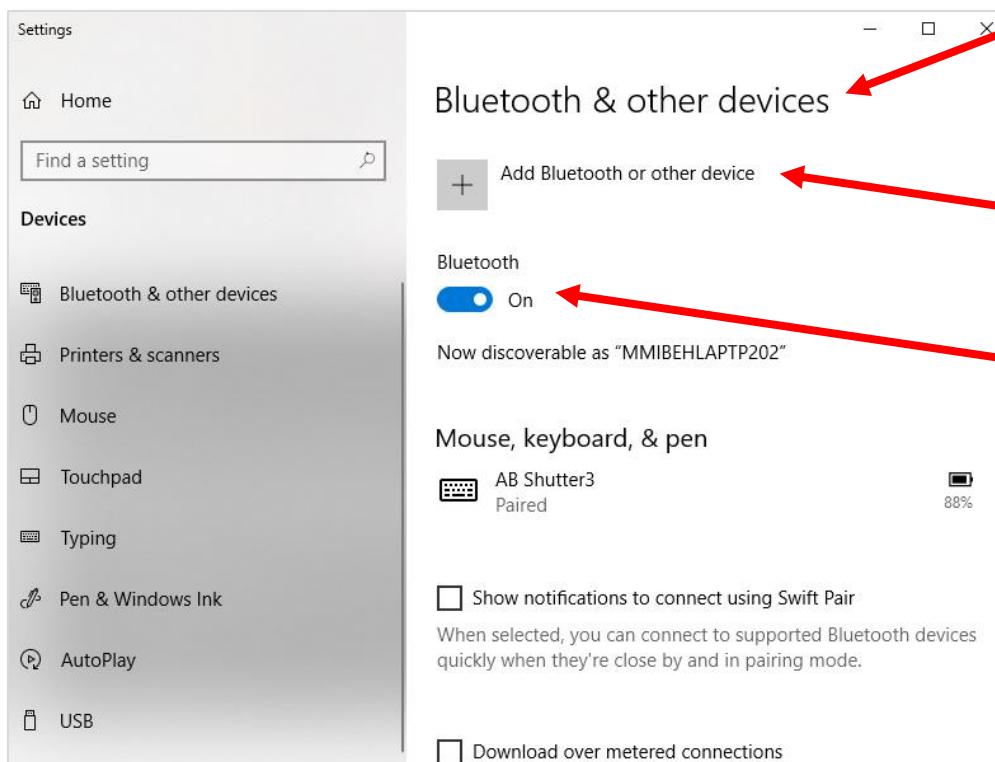
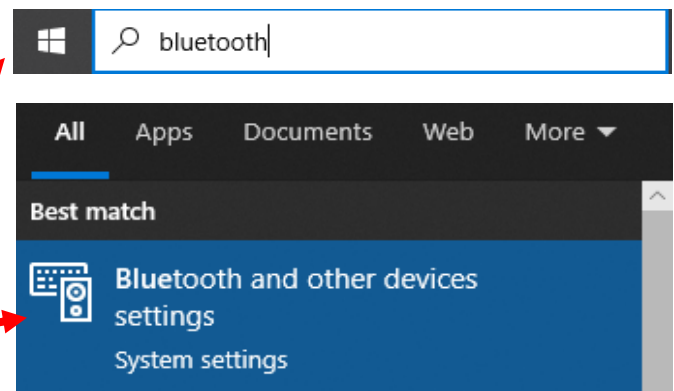
Section 17 Connecting External Input

External devices can be added via **Bluetooth** for use during coding.

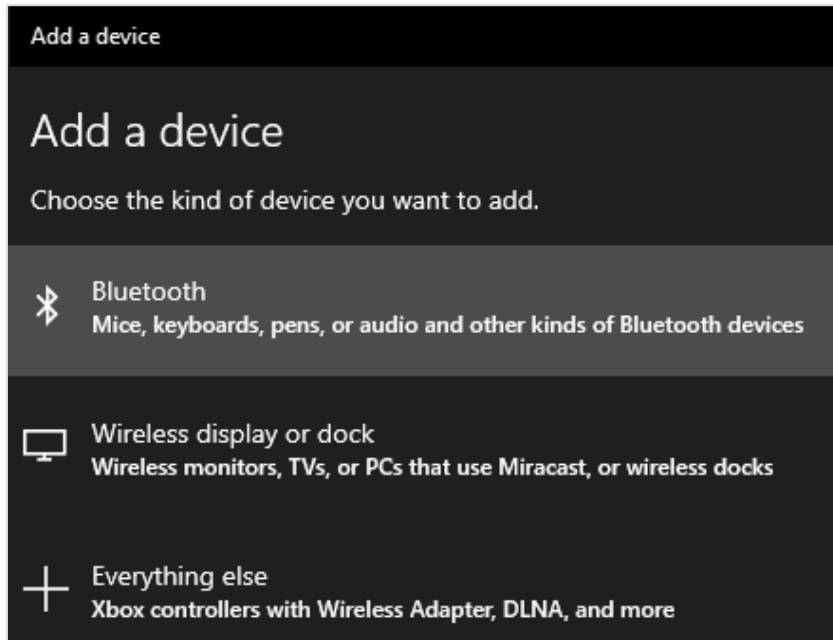
Connected devices (clicker, mouse, etc.) can be used as an **external button**

We used [this \(Amazon Link\)](#) for development, similar buttons may work but no guarantee is made.

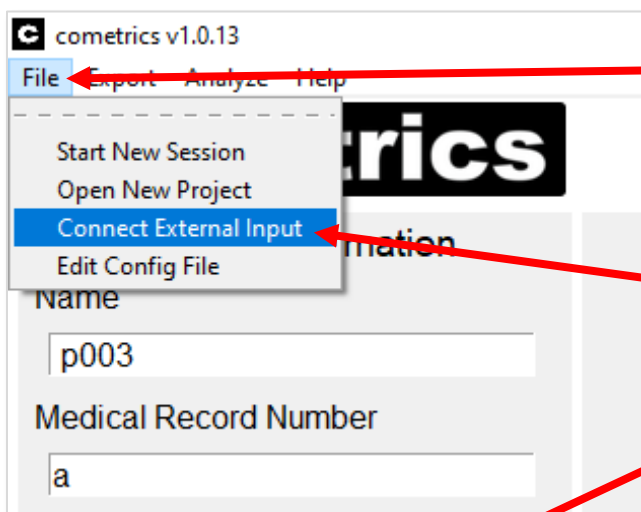
- First, the user must **connect** the desired device to their computer **via Bluetooth**
- In the Windows search bar in the bottom left, search for “**Bluetooth and other devices settings**”
- Click to open system settings



- The “Bluetooth and other devices” window will open
- Select “Add Bluetooth or other device”
- Make sure Bluetooth is turned on



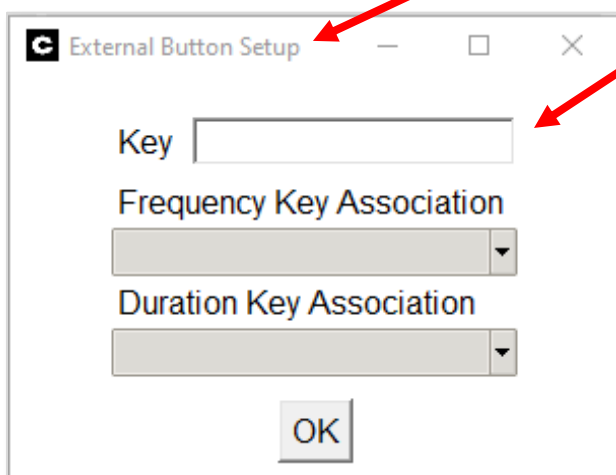
- The “Add a device” menu will open
- Select “Bluetooth” as the device type
- Find and select the desired device from the list of connectable devices
 - If the desired device is not listed, check that it is turned on / discoverable



To setup an external button in **cometrics**, select “File” in the top left-hand corner.

Select “Connect External Input”

The “External Button Setup” menu will pop-up



Use the cursor to activate the “Key” input line. Press your external device to set it as the key

Select whether this button will be used as a Frequency key or a Duration Key

- Select the specific behavior that will be assigned to the external button

Section 18 Reporting Bugs and Other Issues

Bugs and other issues found while using the cometrics program can be reported through the Munroe Meyer Institute Virtual Reality Laboratory GitHub page. The steps for reporting a bug are as follows:

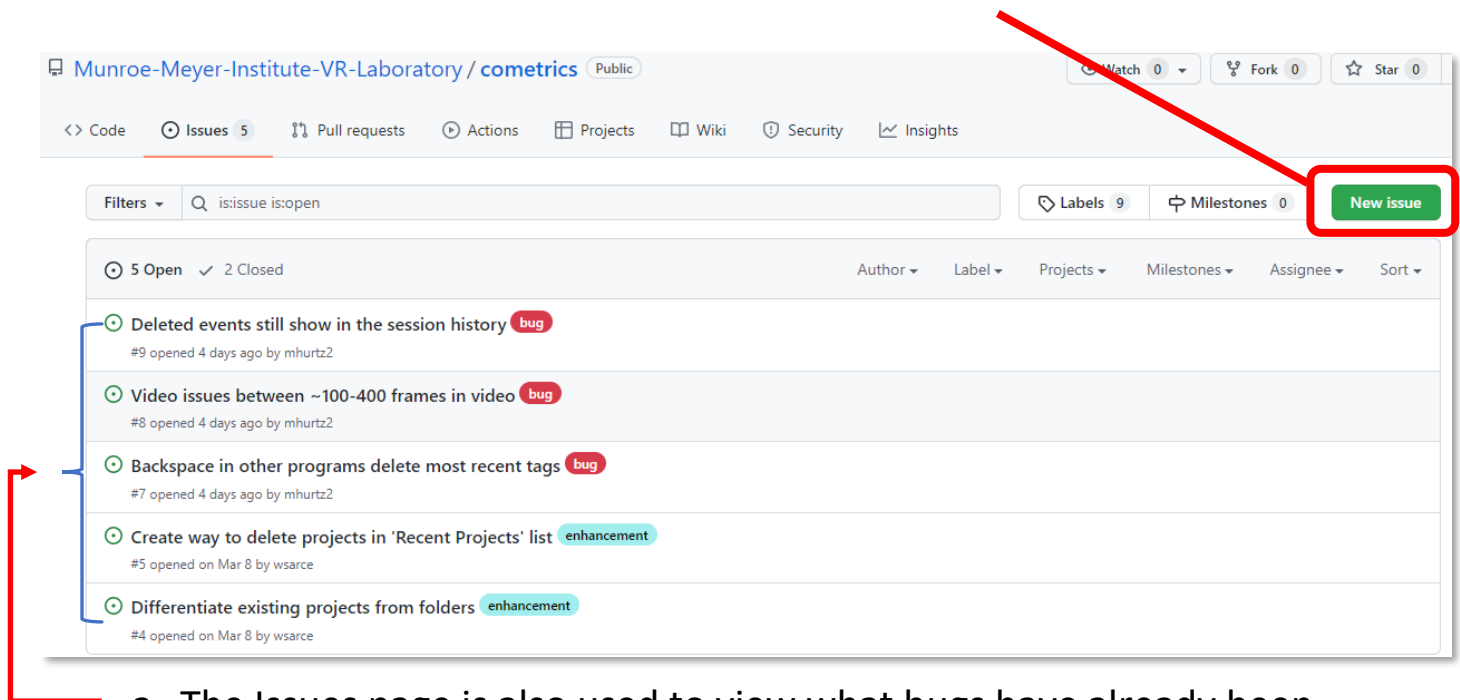
1) Create or login to a GitHub account

https://github.com/login?return_to=https%3A%2F%2Fgithub.com%2Fjoin

2) Use the following link to access the Issues section of the cometrics' GitHub

<https://github.com/Munroe-Meyer-Institute-VR-Laboratory/cometrics/issues>

3) Select the green “New Issue” button in the top right of the Issues page



a. The Issues page is also used to view what bugs have already been reported, preventing repeated reports of the same bug

4) The “Submit new Issue” page (pictured below) will open

The screenshot shows the GitHub interface for the repository 'Munroe-Meyer-Institute-VR-Laboratory / cometrics'. The 'Issues' tab is selected, showing a 'Submit new Issue' form. The form includes a 'Title' field, a 'Write' tab (selected) and a 'Preview' tab, a large text area for the issue description, and a 'Submit new issue' button. The right sidebar shows 'Assignees' (No one assigned), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), and 'Development' (Shows branches and pull requests linked to this issue). A footer note states: 'Remember, contributions to this repository should follow our GitHub Community Guidelines.'

5) In the “Title” section, provide a general description of the issue

This screenshot is an annotated version of the GitHub 'Submit new Issue' page. A red arrow points to the 'Title' field, and another red arrow points to the large text area for the issue description. A red box highlights the 'Submit new issue' button in the bottom right corner. The rest of the interface is identical to the previous screenshot.

6) In the “Leave a comment” section, write a detailed description of the issue (what happened, how it occurred, etc.)

7) Press the green “Submit new Issue” button in the bottom right to finalize bug report

Section 19

Woodway Split-Belt Treadmill Support

Key Bindings Woodway Video View

Experimental Protocol

Duration	LS	RS	Incline
10.0	5.0	-0.5	0.0
10.0	0.0	5.0	0.0

Add Delete

Load File Save To File

Connect Disconnect

Belt Speeds Left Right

Belt Incline

0 MPH 0 MPH 0°

Calibrate Woodway Threshold

Once connected to the Woodway, the belt speed and treadmill incline can be manually changed

Pressing **Calibrate Woodway Threshold** will open the window shown on next page

Add – Create a new protocol step

Delete – Remove a selected protocol step

Load File – Select a protocol file from filesystem

Save To File – Save new revision of protocol

Connect – Connect to Woodway treadmill

Disconnect – Disconnect from Woodway treadmill

Edit – Double click any protocol step to edit

Section 19

Woodway Split-Belt Treadmill Support

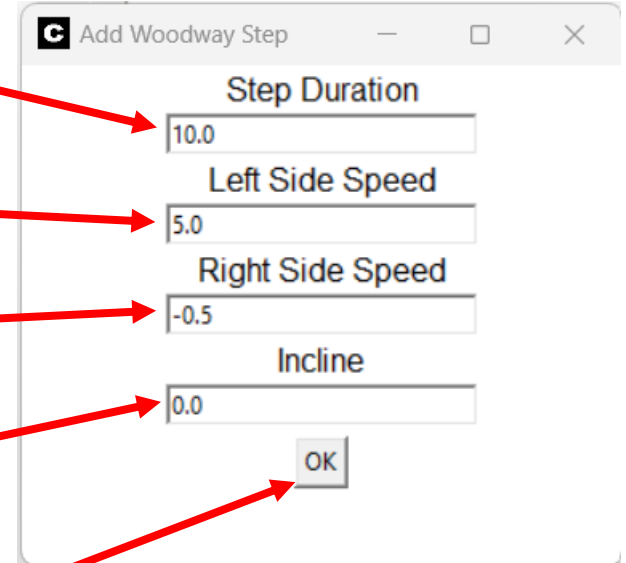
Set the duration in seconds for new protocol step

Set the change in speed for the left belt for this protocol step

Set the change in speed for the right belt for this protocol step

Set the change in incline for the treadmill for this protocol step

Add the protocol step

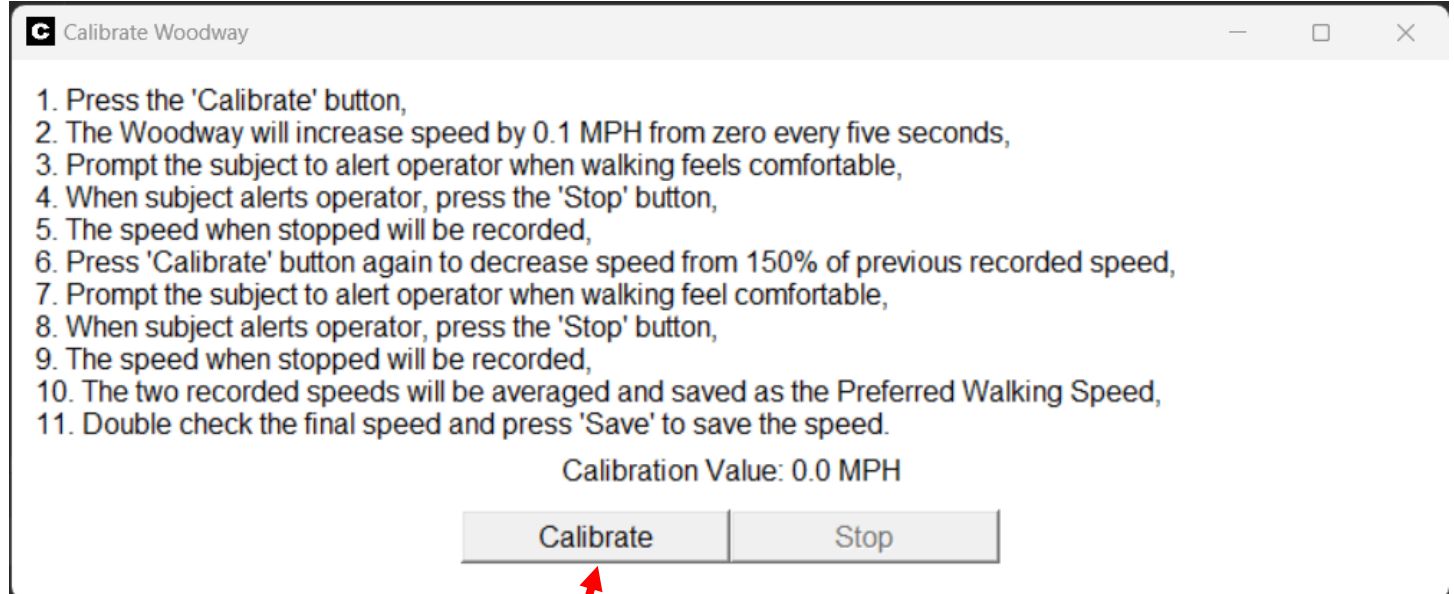


The screenshot shows a dialog box titled "Add Woodway Step" with a close button (X) in the top right corner. Inside the dialog, there are four input fields and an "OK" button. Red arrows point from the text instructions on the left to each of these elements:

- Step Duration: 10.0
- Left Side Speed: 5.0
- Right Side Speed: -0.5
- Incline: 0.0
- OK button

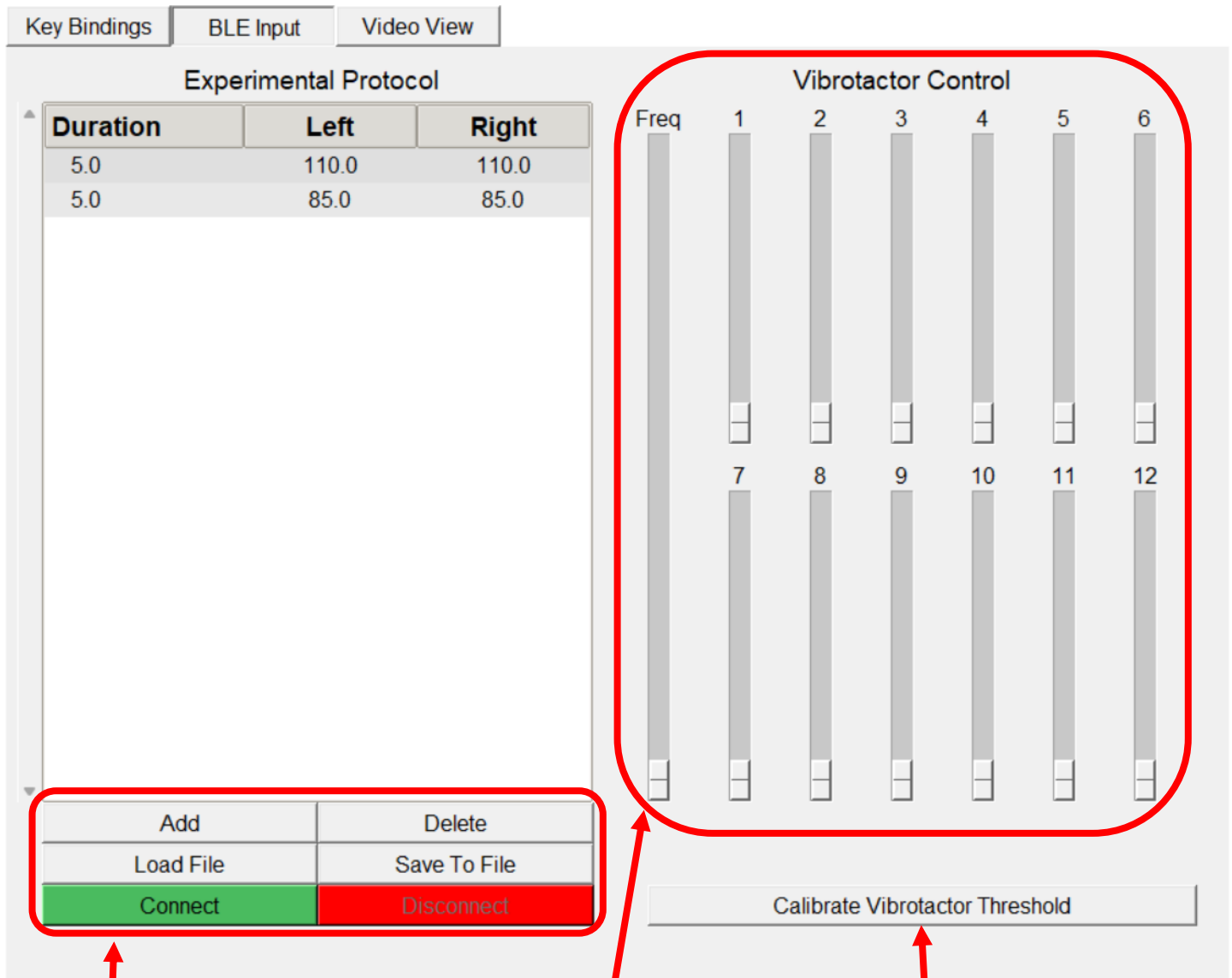
Section 19

Woodway Split-Belt Treadmill Support



Press **Calibrate** to start the calibration process and follow the directions

Section 20 BLE Peripheral Support



Once connected to vibrotactors, the motor levels and frequency can be manually altered

Pressing **Calibrate Vibrotactor Threshold** will open the window shown on next page

- Add** – Create a new protocol step
- Delete** – Remove a selected protocol step
- Load File** – Select a protocol file from filesystem
- Save To File** – Save new revision of protocol
- Connect** – Connect to vibrotactors
- Disconnect** – Disconnect from vibrotactors
- Edit** – Double click any protocol step to edit

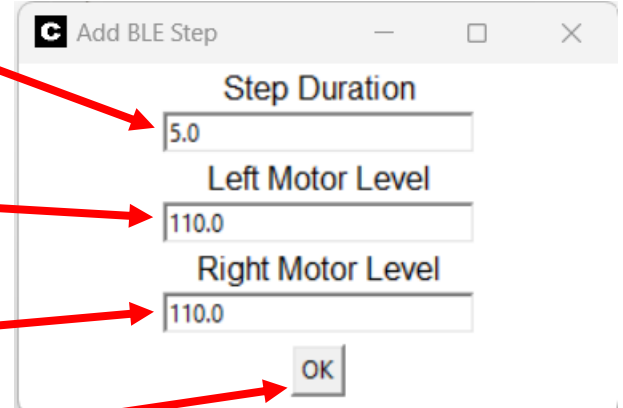
Section 20 BLE Peripheral Support

Set the duration in seconds for new protocol step

Set the motor vibration level for the left vibrotactor array as a percentage of the threshold

Set the motor vibration level for the right vibrotactor array as a percentage of the threshold

Add the protocol step



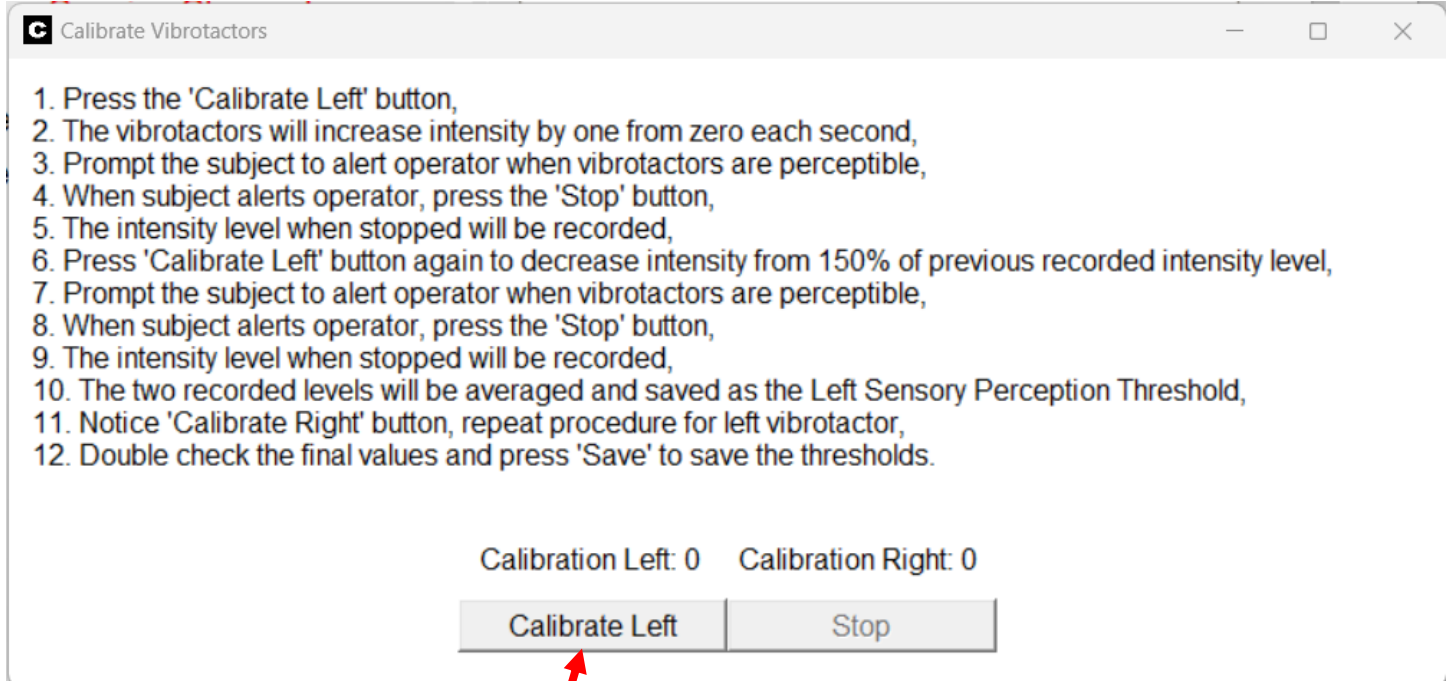
The screenshot shows a dialog box titled "Add BLE Step" with a close button (X) in the top right corner. It contains three text input fields and an "OK" button. Red arrows from the text on the left point to each of these elements: the first arrow points to the "Step Duration" field (containing "5.0"), the second arrow points to the "Left Motor Level" field (containing "110.0"), the third arrow points to the "Right Motor Level" field (containing "110.0"), and the fourth arrow points to the "OK" button.

Field Label	Value
Step Duration	5.0
Left Motor Level	110.0
Right Motor Level	110.0

OK

Section 20

BLE Peripheral Support



Press **Calibrate Left** to start the calibration process
and follow the directions

Section 21 Review Mode

The screenshot shows the 'Review' tab of a software interface. It includes a 'Reviewer Name' field with 'Walker Arce' entered. Below this are radio buttons for 'Primary' (selected) and 'Reliability'. A 'Session Review' status is shown with a red 'X' icon. Navigation arrows and 'Session 2 / 3' are present. A 'Load Session' button is below. Further down, another set of navigation arrows and 'Event 1 / 3' are shown. Two dropdown menus for 'Frequency Key Association' (showing 'q {Freq 1}') and 'Duration Key Association' (showing 'None') are present. A 'Play Clip' button is below these. Two textboxes for 'To' (showing '3269') and 'Frame' are next to it. At the bottom of the main panel are 'Accept' (green) and 'Reject' (red) buttons, and an 'Approve Session' button. A separate section at the very bottom shows 'Walker Arce' with a green checkmark and 'Session 2 / 3' with navigation arrows.

Review Mode allows for recorded sessions to be expert validated.

The reviewer will put their name into the textbox.

The data type then will be selected and, if sessions exist, each session is selectable.

The status of the session (whether it's been reviewed and by whom) is shown above the session number.

The arrows allow switching between sessions.

When the correct session is selected, press the 'Load Session' button.

All the events in that session are now selectable and load in automatically.

The keystroke associated with each event can be changed, though only one keystroke is allowed per session.

Pressing 'Play Clip' will show the video segment that has been selected as representing the selected keystroke.

The two textboxes below are the 'To' and 'Frame' entries and display the corresponding start and end frames of the video clip.

When an event is accepted or rejected, the changes made will be saved and the next event will be loaded.

Once all events have been either accepted or rejected, the session can be approved, which will mark it as 'Reviewed' and save the reviewer's name with the session.

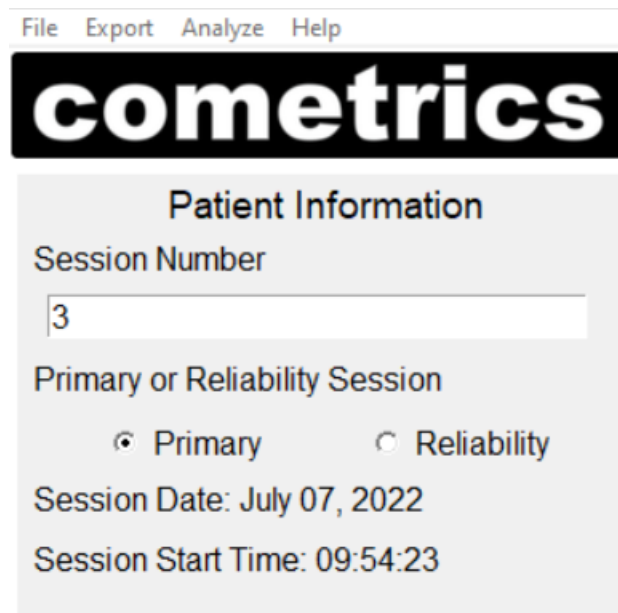
If a session is approved, the name of the reviewer will be shown along with a checkmark indicating approval.

Section 22 Loading Previous Sessions

Previous sessions can be loaded by changing the session number in the Patient Information window. The session will be automatically loaded and the video file path will be assigned to the Video View panel so that when the Load Video button is clicked then the session video will load.

Edits to the events in the Video View event viewer will automatically save to the source session file so the session doesn't need to be started to make simple changes.

Changing the session number will either load an existing session or, if a session does not exist, will clear the previous loaded session to allow standard operation.



The screenshot shows the 'cometrics' software interface. At the top is a menu bar with 'File', 'Export', 'Analyze', and 'Help'. Below the menu bar is a large black banner with the 'cometrics' logo in white. Underneath the banner is a light gray panel titled 'Patient Information'. This panel contains a 'Session Number' label followed by a text input field containing the number '3'. Below this is a 'Primary or Reliability Session' label with two radio buttons: 'Primary' (which is selected) and 'Reliability'. At the bottom of the panel, it displays 'Session Date: July 07, 2022' and 'Session Start Time: 09:54:23'.