Keyboard and Mouse Recorder Player

User manual

The main GUI:



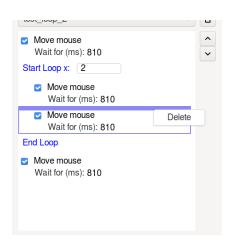
We can see three section: Top section



Elements in this section:

- drop-down button to select recording mode
- Start Recording button: after selecting the recording mode and start recording
- two checkbox to enable or disable input commands from the command list (middle section)
- Open Loop/Close Loop button: open and close a block in the command list. Commands inside this block will be repeated in a loop.
- Drop-down button to select command file previously save
- file manager button. Clicking it will open the list of saved files. One can rename or delete files.

Middle section



- The main area is the list of commands, this can be loaded from a command file or been added as they are recorded. New commands can be added at any time.
- Up/Down buttons to reposition commands in the list. Select a particular command by left click on the top edge of a particular command, once it has been selected, it can be moved up/down the list using the arrow buttons on the left.
- Right click on the blue area of the selected command, will popup a context menu with the only option to Delete that command.

Bottom section

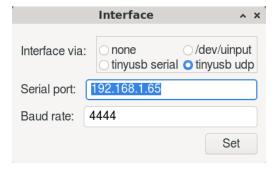


- Settings button
- Save to file button
- Clear command list
- · Play commands in list
- Stop button
- Aux keyboard
- Play as demo (ignore loops)
- Shutdown button.
- Status bar

Interface Setting up

Before starting to record any input command for first time, you need to set up the interface for KeyboardAndMouseRecorderPlayer.

- Open settings
- Click Set Interface button this will display the following pop up



Please read **Interface Methods** for explanation of specifics.

Recording Modes



Quiet: will save the input commands as they are set.

- *After Me*: will apply the command after it is added to the command list
- Repeat Last: apply the last command and take a screenshot of the screen after the command was execute. For example, if you do a right click that display a context menu, it would be impossible to record a command that select any item in the menu because the menu will disappear as the context menu lost focus. For this as soon reason KeyboardAndMouseRecorderPlayer will take a screenshot with the context menu and in this way the user can set any command on the image that contains the context menu.
- *Repeat All:* in this recording mode, KeyboardAndMouseRecorderPlayer will repeat all the commands on the list and take a screenshot of the state of the screen after the last command was execute, so the user can set the new command on the image. Repeating all the commands is done every time a new command is added to the list.

You can change recording mode at any time accordingly to the particular situation.

Recording Input Commands

After pressing the *Start Recording* button this will happen:

- 1. the main GUI will minimise
- 2. a translucence pop up will cover the full screen. Right click will display the *recording context menu*

Input on a window
Open Loop
Close Loop
Move Here
Left Click Here
Right Click Here
Take Screenshot
Select Rectangle
Start Dragging
Text and Keyboard Input
Recording Mode
Close

Recording Context Menu

Elements in the context menu

- *Input on a window:* see full details in the Input in a Window section.
- *Open Loop/Close Loop:* same functionality than the button with the same name in the top section of the main GUI.
- *Move Here:* it will set a mouse command to move the mouse to the point where the right button was clicked (when Recording Context Menu was open)
- *Left Click Here/Right Click Here*: it will set a mouse input of left/right click mouse button at the same position of the cursor when open the context menu.
- *Take Screenshot:* will set a control command with the image of a particular window or full screen. More on *Control Command* section
- *Select Rectangle:* this item will let you to select a rectangle/area. After clicking on it, the menu is close and left click and drag (with button pressed) to select the desired area/rectangle. This will pop up a selection from which you can set if the selected area is: Select or Watch ROI (Control Command). If you selected Select, you will need to input the respective input commands to manipulate that area, like clicking on top and do a copy/paste/dragging.
- *Start Dragging:* after selecting this item, the context menu is closed, then you can do a left-click and drag the mouse and release it to the desire final position.

- *Text and Keyboard Input:* this option will display the *Aux Keyboard*. See the respective section.
- *Recording Mode:* Same functionality of the drop-down in the top selection of the main GUI.
- *Close*: close the context menu and return the control to the main GUI.

Command Edition

On the command list, each item has a checkbox and two text line. The checkbox enable or disable the respective command to be execute. The first line is the description of the command. You can open it for editing doing a right click on it following by a left click, a blue border will be display on the input field, to save the change just do a right click on it again and the blue border will disappear.



Each command has a *Waiting for (ms)* section. It can be edited in the same way the description is edited. The values are in milliseconds and it means for how long to wait after the command was execute and before the next command is executed.

For Control Commands, this time is in seconds and represent how many seconds to wait before giving up. During this time, a Control Command will be checking for any changes in the area relevant for the command. Also it has a Edit button for tuning settings.

Left click just above of each command on the list will select the respective command. Once selected, it can be move up/down the list with the arrow buttons on the side of the list. Left click again will unselect the item.

To delete a command, select the specific command and do a right click with the pointer on top of the blue area, this will display a context menu with the only option "Delete".



Input in a Window

Input in a Window menu item will pop up a text input where the user will fill it with the name of any window currently open. On success it will display a small image of that window for the user to confirm. On failure it will display a warning. After confirmation the translucence pop up will draw a rectangle around the selected window. In the following image we had selected "SimpleScreenRecorder" as the target window:

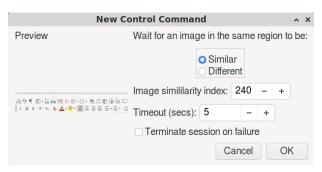


Now all the input commands will be on the context of the specific window selected. And those commands are independent of the position of the window. The *Recording Context Menu* will be only available over the specific window. Most of the functionality of the main *Recording Context Menu* are available on the local context of a specific window.

Control Command

The most important feature of *KeyboardAndMouseRecorderPlayer* is *Control Comman*. In essence it is a screenshot of an area of the full screen or of a specific opened window. The command will be testing the same region for changes on it. It can be set to compare as similar or different.

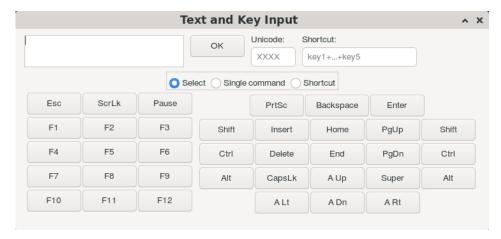
To set a *Control Command* from the Recording Context Menu we select Select Rectangle, after selecting an area, we select Watch ROI then we are presented with a dialogue to set some properties



- *Preview:* the preview of the saved image.
- *Wait for an image...:* select Similar if the command should wait for the selected area to be similar to the saved image. Select Different otherwise.
- *Image similarity index*:one should think of it as how different or similarity the selected region should match the saved image. The range goes from 0 (identical) to 441(whatever). However, the size of the selected area have an impact on it. So this value should be consider as the smaller the region smaller the Image Similarity Index for similar images. For example similarity of areas like 20x20 will need something like in the order of 120. Default is 240 which seen fair for similar image. This would be a good value to start.
- *Timeout:* for how log the command should wait before giving up.
- *Terminate session on failure:* check this box if you want to stop *KeyboardAndMouseRecorderPlayer* playing any command after it.

Text and Key Input Pop up

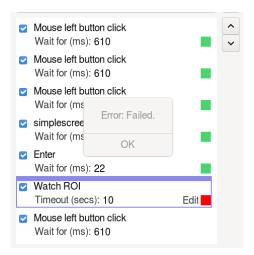
To input text commands, shortcuts, unicode we need to use the Aux Keyboard pop up



- top left corner: text input area, to set the command click *OK* button
- Unicode field: in *code point* format WITHOUT the leading *U*. For example the unicode for reversed pilcrow sign) is U+204B, we ONLY input 204B and press ENTER in the physical keyboard to submit the command.
- Shortcut field: select *Shortcut* from the options below and use the buttons in the pop up for any of the respective physical keys and physical keyboard keys for any other alpha-numeric character, anything not matching this is ignore.
- Single key commands: select *Single command* from the options and then press the corresponding button in the Pop up.
- Note about Tab: for the moment Tab can be set via the text field.

Reporting

After playing the commands we can see which commands were applied successfully and those that failed



on failure the command will display a red squared, left-click on it will show a message.

More on Recording Mode

Settings