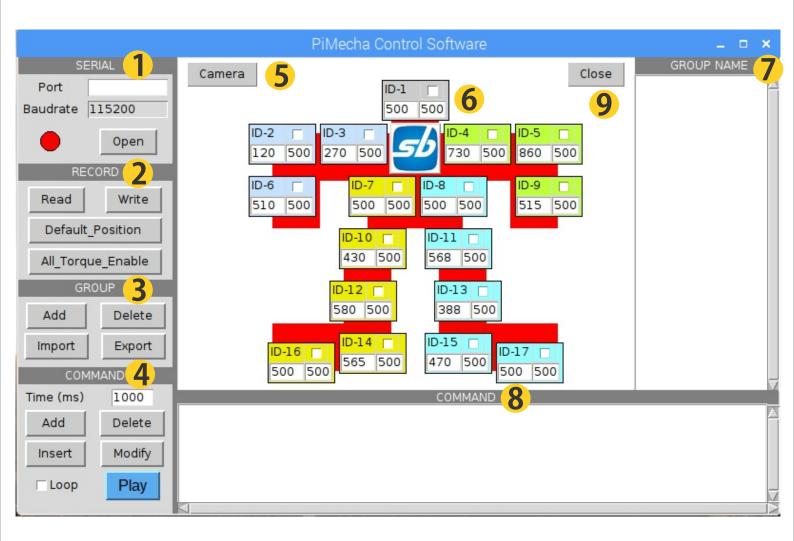
PiMecha Software Instruction Manual

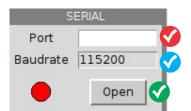


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PiMecha Controlling Software Instruction Manual







- Enter your port no. in this section.
 If connected through GPIO, enter "ttySO"
 Else if connected through USB, enter "ttyUSBO"
- **♂ Baud Rate** shall remain constant as 115200 bps
- Open or Close Port





- Read the values of the current position of the motors and update them to the servo section (Refer to point no. 6)
- Write button will enable you to write the servo section (Refer to point no. 6) values to the servo.
- Default position button will allow you to set the default standing position of the PiMecha. You can change the default position values through the code.
- All torque enable button is used to jam the movement of all the motors. Although you can select the individual servo also from the servo section (Refer to point no. 6) to enable or disable the torque.

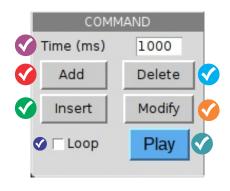




To move or play with PiMecha, you must create groups. The groups is a collection of various commands or movements that will let you give actions to the motors.

- Add button will let you create a group. The created group name will be displayed in the Group name section (Refer to point no. 7)
- **♥ Delete button** will delete the selected group.
- Import button will allow you to import your group
- **Export button** allows you to export a created group and share them with your peer.





Any group created by you, will need some commands in it. The command section has 4 buttons to let you control various actions to start playing with PiMecha.

- ▼Time field is the time lapse in milliseconds between the 2 lines of command.
- Add button allows you to add the commands to the selected groups, and is displayed in the command section (Refer to point no. 8). You must select a group and then press read button from Record section to read the current servo position and then press add button.

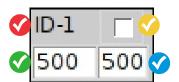
 This will add the latest read values of the servo.
- ✓ **Delete button** helps you to delete any selected line of the command entered in the command section.
- ✓ Insert button will let you insert a new command above the selected command line.
- Modify button would allow you to modify any selected command line.
- ✓ Loop checkbox holds the functionality to let you play the commands in a loop for infinite no.of times.
- ✓ Play button will play the set of commands entered in the command section (Refer to point no. 8) of the selected group. You can stop the action any time using the same button ('Stop' will be displayed)





▼The camera module of PiMecha will be initialised when you click on this button. A new frame will pop up giving you 2 options. You can take pictures and record videos. In case you do not have the camera mounted, error will be thrown.

6 Servo Section



This section consists of 17 servo motor boxes. Each box holds 4 different values.

- Servo ID
- ✓ Enable/Disable torque check
- **✓** Position value
- **✓** Time value





The created groups are listed in this section.you can select any group to add commands to it.



The commands that are added after the selection of the group are listed in this section.



Close

This will close your entire software. This feature here is provided if you wish to close the software running on your 4" touch screen