# PLEN
# PC Controller
# Operating Procedures
# **Temporary File**

Operation of PLEN Controller

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I. Introduction

## 1. Overview of PLEN Controller

This PLEN controller is a software that connects the robot to a PC with Bluetooth to manipulate it. You can manipulate the PLEN just by pressing a key on the keyboard of the PC or clicking a button of the mouse.

## 2. Operating Environment

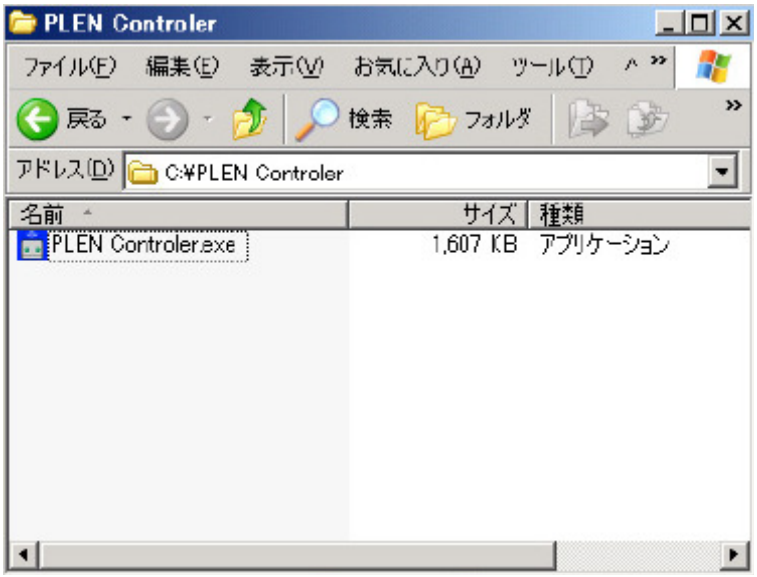
OS …… Windows XP

PC with Bluetooth function, or PC to which a USB Bluetooth adapter can be connected

## 3. Installing the PLEN Controller

How to install the PLEN controller is very simple.

(1) Copy the "PLEN Controller" folder from the supplied CD-ROM to the C drive.




Only this procedure is required to prepare to use.

## II. Connecting PLEN Controller with Robot

### 1. Connecting a Bluetooth USB Adapter to the PC

(1) Connect a commercially available Bluetooth USB adapter to the PC.

* If the Bluetooth function has been integrated into the PC, you do not have to connect another Bluetooth USB adapter.

(2) Power on the PLEN main body and press the Bluetooth reset button.

* The Bluetooth reset button is located on the head of the PLEN.
* When pushing the reset button, use a slim tool such as a precision screwdriver and a toothpick. Take care to insert the tool straightforwardly into the reset button hole. Otherwise, the button cannot be pressed properly.

(3) Configure the connection with the Bluetooth configuration utility.

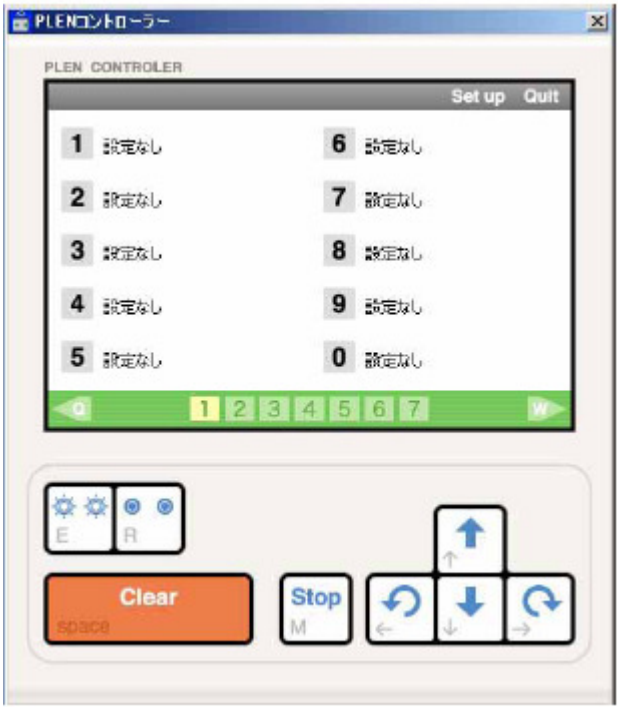
* PIN code: enter "9999" (single-byte numerals).
* Set one of the unoccupied COM ports of numbers 1-50.
* Configuration procedure varies depending on the type of the Bluetooth adapter.

## 2. Checking the Connection between PLEN Controller and the Robot

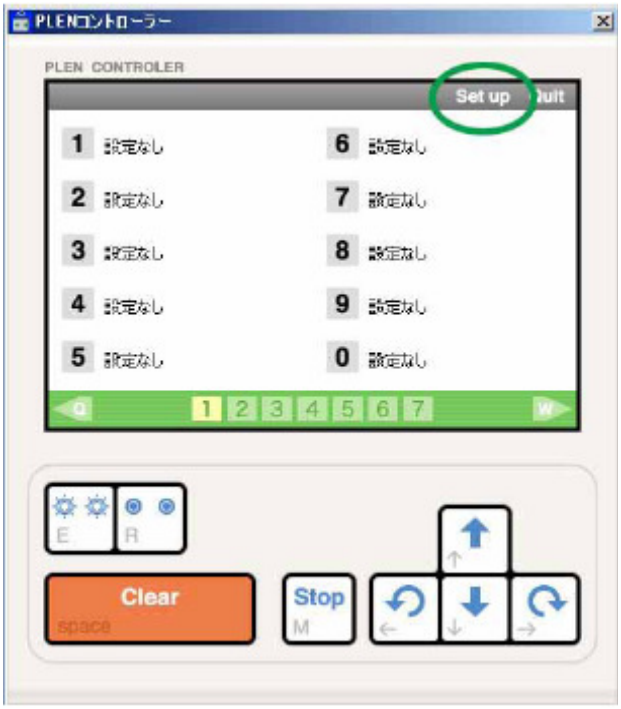
(1) Double-click the icon of the PLEN Controller installed into the C drive to launch the software.

(2) When launching the software first time, an error message might appear. At that time, press the OK button to proceed.

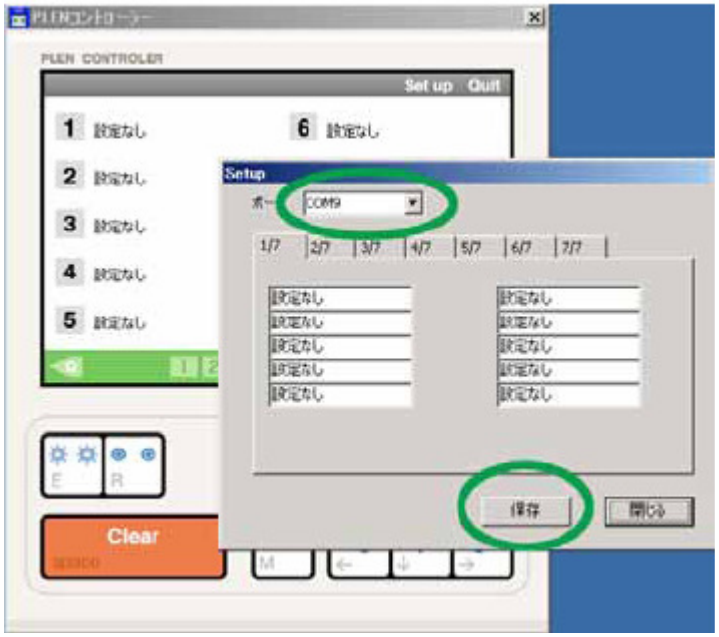
(3) The main window opens.



(4) Click the Set up button on the upper right of the main window.




(5) From the list appeared, select the Bluetooth COM port number you set and then click the Save button.




This completes the connection between the PLEN controller and the Robot.

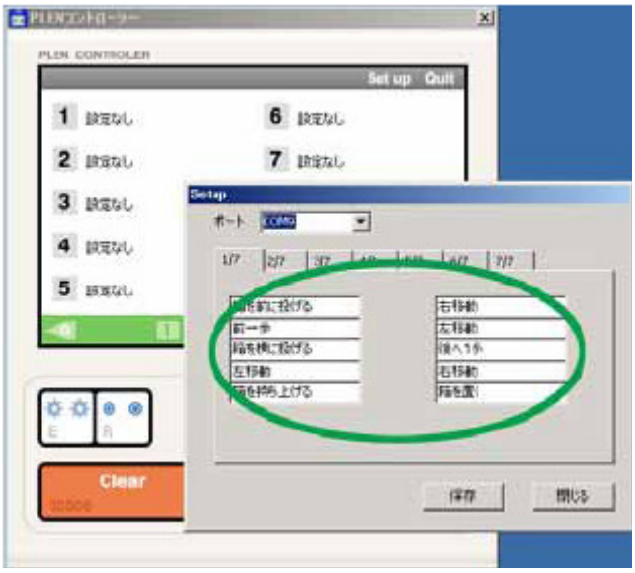
If an error message will appear when the software is launched again, the Bluetooth connection might not be established correctly.

Check the Bluetooth COM port setting and set the correct COM port number.

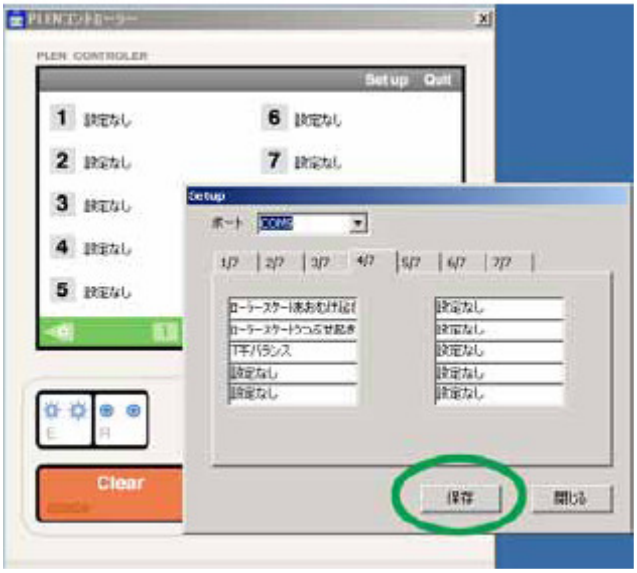
### III. Setting PLEN Controller

1. Open the Setup Window to Enter Names for each Motion

(1) Enter names for each motion referring to the motion list of the motion editor.




(2) Click the Save button after completing to enter the names for all of the motions.



(3) The motion name appears on the window.

* At that time, turn off Japanese IME.

* Otherwise, it might behave incorrectly.

## IV. Manipulating PLEN Controller

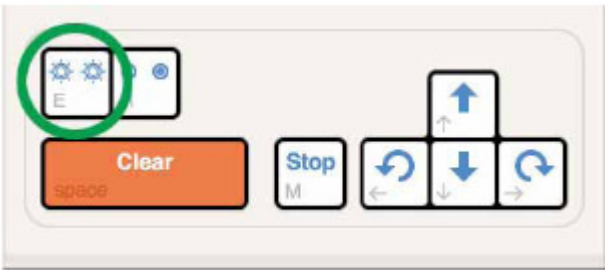
### 1. Replay the Registered Motion

(1) Each registered motion can be replayed by pressing a numeric key on the keyboard.

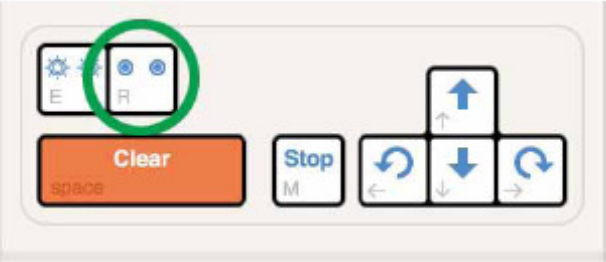
(2) To scroll the page, press the "Q" or "W" key on the keyboard. Or, click the arrow in the window.

### 2. Turn On/Off Eye Lamps

(1) To turn on the eye lamps of the PLEN, press the "E" key on the keyboard. Or, click the “E” button in the window.



(2) To turn off the eye lamps of the PLEN, press the "R" key on the keyboard.  Or, click the “R” button in the window.

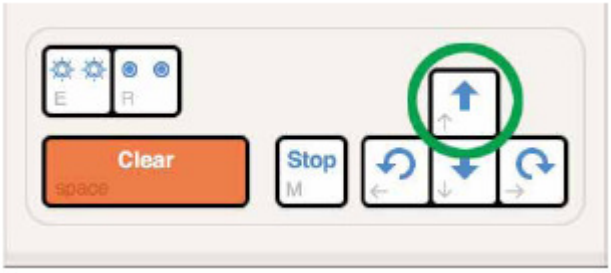


### 3. Walk forward/backward/leftward/rightward

* To make this operation enabled, the walking motion data for the cursor must be registered in the items 75-86 of the motion list.

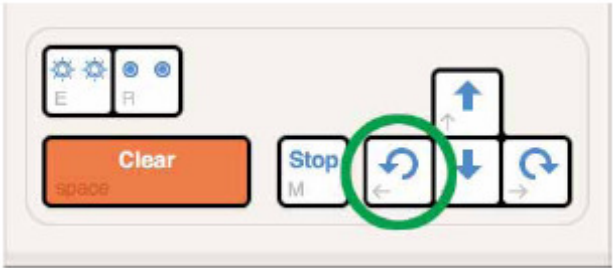
* Refer to the operation instruction of the MotionEditor.

(1) To have PLEN walk forward, press the "↑" key on the keyboard. Or, click the correspondent button in the window.

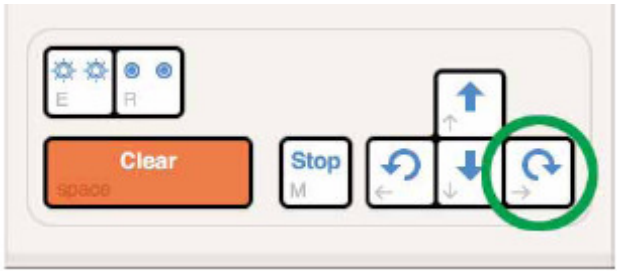



(2) To have PLEN walk backward, press the "↓" key on the keyboard. Or, click the correspondent button in the window.

(3) To have PLEN turn to the left, press the "←" key on the keyboard. Or, click the correspondent button in the window.

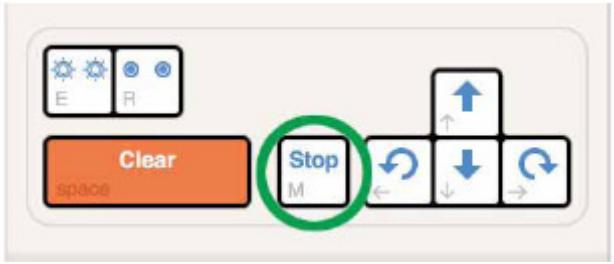


(4) To have PLEN turn to the right, press the "→" key on the keyboard. Or, click the correspondent button in the window.



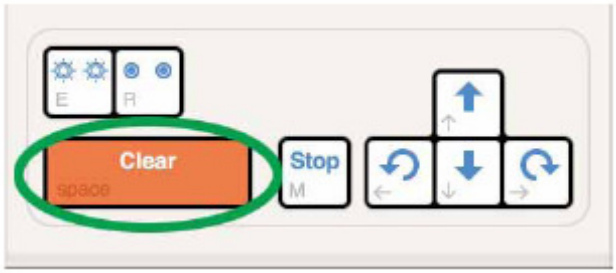

**4. <u>Stop the Motion</u>**

(1) To stop the PLEN's motion while reproducing the motion, press the "M" key on the keyboard. Or, click the correspondent button in the window.




**5. <u>Return the PLEN to the Original Posture (the Origin)</u>**

(1) To return the PLEN to the original posture (the origin), press the space bar on the keyboard. Or, click the Clear button on the window



Japan Contact
Systec Akazawa Co.
2-47, Noda 6-chome, Fukushima-ku, Osaka City, Osaka 553-0005, Japan
http://www.plen.jp/

USA Contact
KumoTek, LLC
1208 Executive West
Richardson, TX 75081
http://www.kumotek.com

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