

iXs Research Corp.




Cool Robotics

iMCs03 Visualizer
Instruction Manual Ver.1.1.2.0

IXS Research Corp.




Instruction for caution terms and marks

This instruction manual lists some caution terms and marks in order to avoid accidents under incorrect use.




 Attention	This term and mark shows that the user or other persons may have heavy injuries when operating in ignoring this.
 Warning	This term and mark shows that the user or other persons may die or have heavy injuries when operating in ignoring this.
 Danger	This term and mark shows that the user or other persons may suffer or die from heavy injury when operating in ignoring this.

Attention to your safety

Usage and handling

 Danger Keep this board and software out of reach of children D	 Danger Don't use water close to the product and do not throw water on it. It may induce electrical short, fire or electric shock.	 Danger Don't use metal materials close to the product. It may induce electric short, fire and electric shock.
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Electrical parts

 Danger It is important to plug the device correctly. If not, it may induce electrical short, fire or electrical shock. Do not use defected electrical outlet or cables.	 Danger Do not touch the electrical parts with wet hands. It may induce an electrical shock.	 Danger Switch off, when you touch the electrical parts. If you hurt yourself suddenly, you should not turn off the power of the board by taking out the plug.
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Assurance and After services

Please read carefully

1. System matching and Responsibility

1.1. When you attach this board and install the software to other system such as a personal computer, the manufacturer doesn't have the responsibility for matching.

1.2. If you want the matching between this board and your system, we can support it with charge.

2. Range of warranty

2.1. Items which are not indicated on a product specification are out of assurance.

2.2. The update, revision and bug fix will be executed without any preliminary announcements.

2.3. Accidents resulted from the customer's modifications and any other changes are out of manufacturer responsibility.

3. Warranty period

3.1. Besides special contracts, the warranty period is one week after delivery.

3.2. The defected part should be sent back by shipping, the customer will owe the charges.

3.3. Following cases are out of the warranty even if it is in the warranty period.

3.3.1. Accidents and injuries due to incorrect use.

3.3.2. Accidents and injuries due to any other software that the customer has installed.

3.3.3. Fire, disaster, catastrophic, gases and high voltage.

3.3.4. The modifications and any other changes by customers except for the one from the manufacturer's advice.

4. Compensation for secondary damage

The defect of the product caused by any secondary failure can be replaced free of charge or by a compensation of the damages.

5. Precaution

This product is not for everyday use. Hence, the customer has to take measures in order to prevent break-downs or failures caused by accidents.

6. Repair

6.1. Customers should owe the repair fee except during warranty period.

6.2. Manufacturer does not lend substitute product during repair.

6.3. When customers send a product back to the manufacturer for repair, customers should back up their data by themselves. The manufacturer may reset the whole data during repair without any back up.

6.4. The manufacturer will decline products which are polluted by radial rays, disease germ or any other pollution.

6.5. The repair is basically send back method without any other contract. The customers should owe the shipping charge.

7. Interruption of repairs

7.1 According to business policy, the manufacturer may decide to stop the production of some parts. In this case, We, Ixs Research, will disclose to the customer the date of the interruption of production.

8. Copyright

8.1. Copyright of products and software which are used in this instruction manual belongs to each registered trademark.

8.2. This instruction manual's copyrights belong to iXs Research Corporation.

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1. Introduction

This is an application which shows the input value of the control feed back of IMCs03. It is necessary to execute IMCs03 in an operable environment. Please refer to each manual for the operable environment.

2. Operation procedure

The basic process will be explained below.

<0> Connect correctly IMCs03 and start IMCs03 Visualizer. (It is necessary to add uusb.dll on the path folder of the executable file and on the same folder).

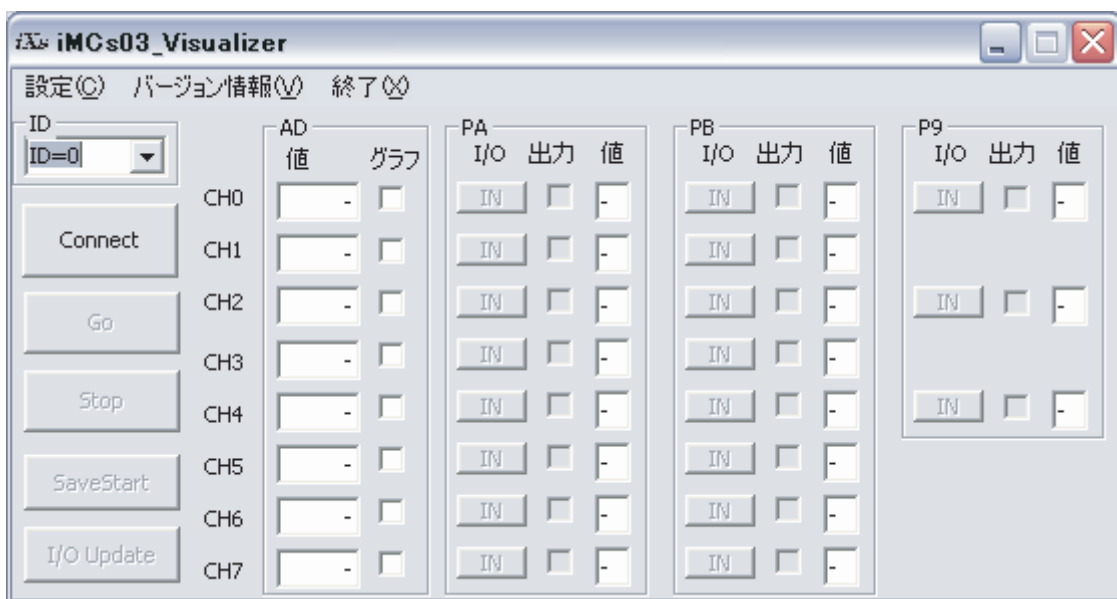


Fig.1 Start window

<1> Setting of the ID device for controlling

On the combo box that sets the ID, set the ID of the IMCs03 that you wish to control.

<2> Click on the Connect button

If you have correctly connected the device, the device will open. At the same time, the current value will be showed and read.

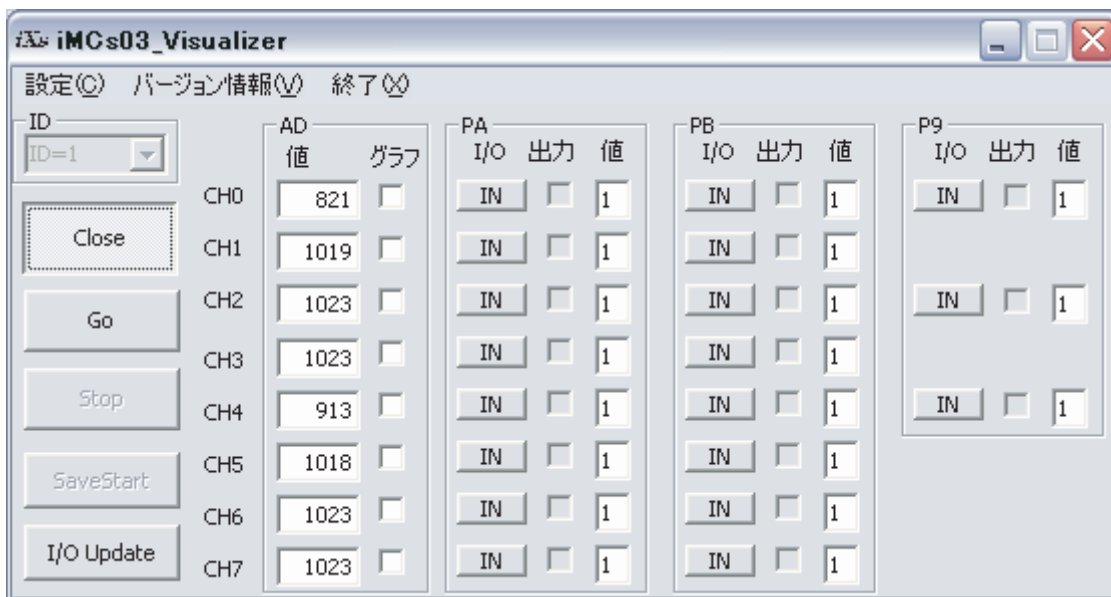


Fig.2 Connect

<3> Setting of DDR, DR

When you began to connect, all the ports will be inputted but by clicking on I/O line check buttons, you can set the output (modification of DDL). Each CH has a specified group (Analog, PA or PB). If you check the box of the line, DR will become 1, if you take out the check it will become 0. When you have finished the setting, click on the I/O update button, the setting will be reflected on the device.

<4> Determination of the analog input of the pin shown on the graph

If you check the box inside the group AD, you will be able to set the CH current value displayed on the graph.

<5> "Go" button

The form and time of the input value of the channel (CH) , will be displayed on the graph dialogue (fig. 3)

Choose a color for each channel, 0. red, 1. orange, 2. yellow, 3. green, 4. light blue, 5. blue, 6. purple, 7. pink.

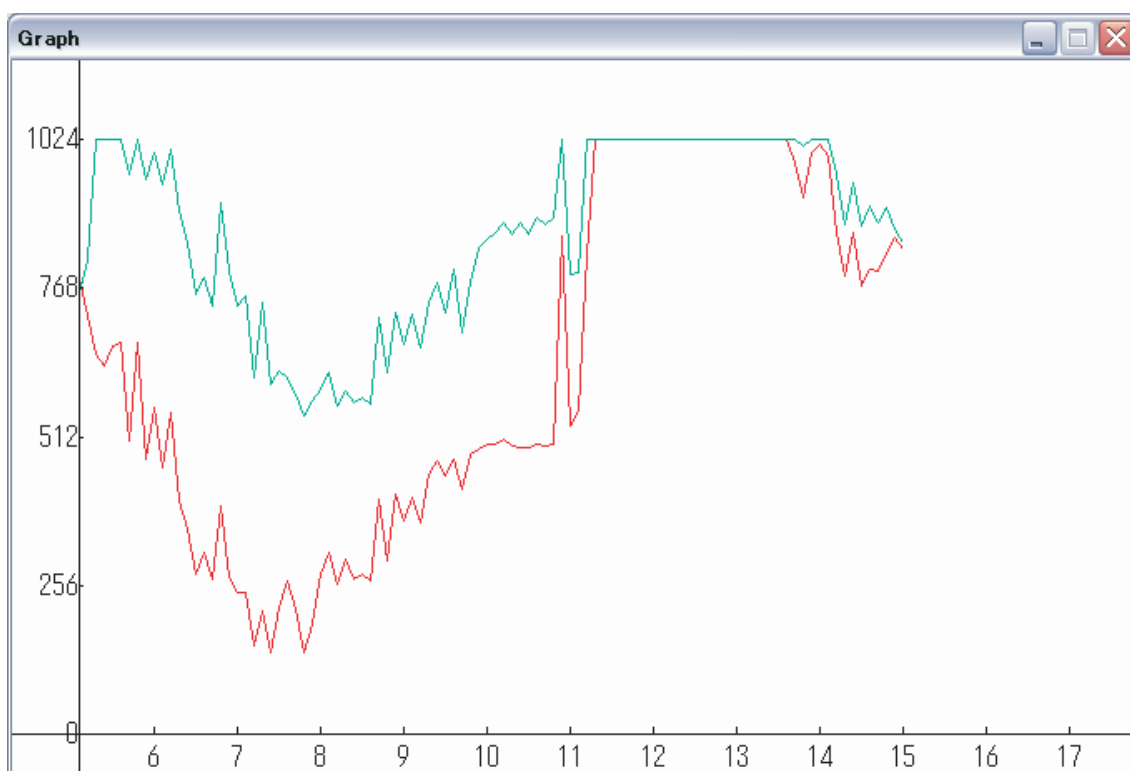


Fig.3 Graph

<6> Save Start button

Save the current value of each channel of the analog input pin. The form is "time of starting saving (msec) and the CH0 value, CH1 value, ...CH7 value". The file name is "_year,_month,_day.csv".

<7> Stop button

It stops the renewal of the graph data. The time axis of the graph will be interrupted.

<8> Close button

It will end the control of the device. When you want to change the control of the device, close once, set the CH once more, then open again.

<9> Setting of interval

If you click on setting from the menu, you can change the interval of the written data or the updated one. (Fig.4)
The value that has been entered from the input it will be reflected next time you will start. The interval of the updated data is the interval of the value that has been changed from the input pin which is connected. The interval of the written data is the interval that has been obtained from the saved interval.

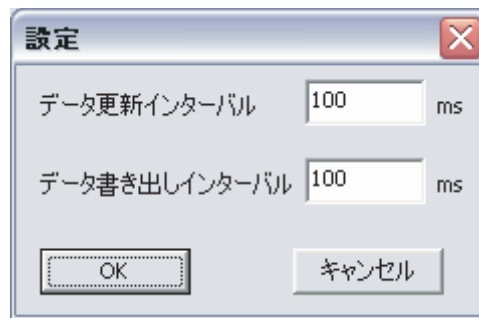


Fig.4 Window of the interval setting

3. Caution

Please pay attention if you make the new interval of the data you have set too little or too big, there is some possibilities that it becomes unstable. (The default has been set at 100ms)



ERROR: undefined
OFFENDING COMMAND: W

STACK:

/StdV
-dictionary-
/Private
-dictionary-
-dictionary-
false