Ezi-IO® Plus-E

User Manual

User Program(GUI) Function

（ **Rev.01** ）

FASTECH

Table of Contents

This manual describes how to operate User Program(GUI).

For more information, refer to related Manuals as following.

(1) User Manual-Text

(2) User Manual-Communication Function

1 . Installation and connection of the Program

This chapter describes the user program(GUI) used for drive installation and commissioning.

1 - 1 . Installable PC environment

Type : Compatible PC/AT

Ethernet 10/100base-T/TX Lan Card

Hard dis more than   10MB

Screen   SVGA(1024×768 이상)

CPU Pentium4 2.0GHz or more

OS :   Windows2000/XP/VISTA/ 7/ 8.1/ 10(32/64Bit) allows normal installation into PC

1 - 2 . User Program(GUI) installation Method

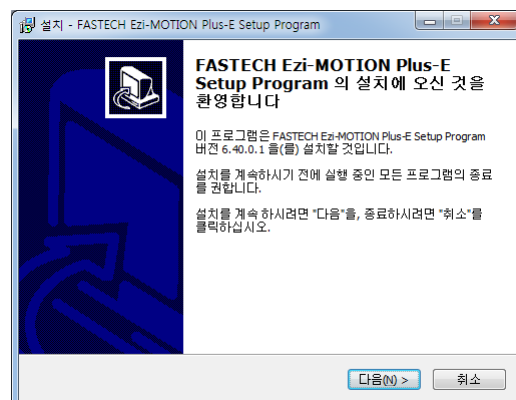Download [Ezi-MOTION_Plus-E_SETUP] program on FASTECH
website(http://fastech.co.kr/bbs/bbs/board.php?bo_table=eng_board5) and install as
shown below.
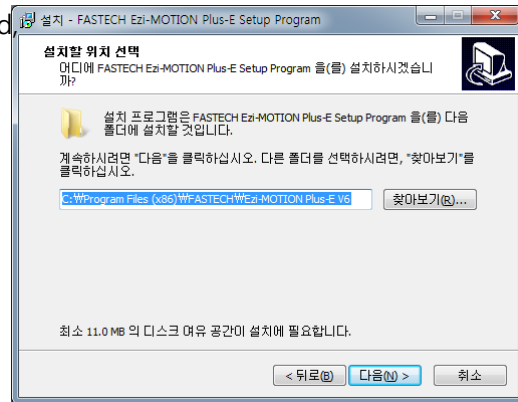
Select a language and click 'OK'

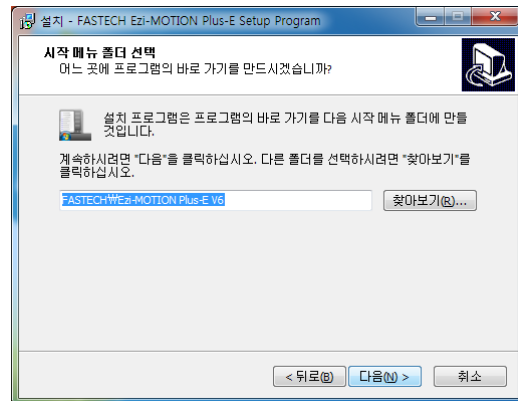Installation Start window.

Click 'Next'

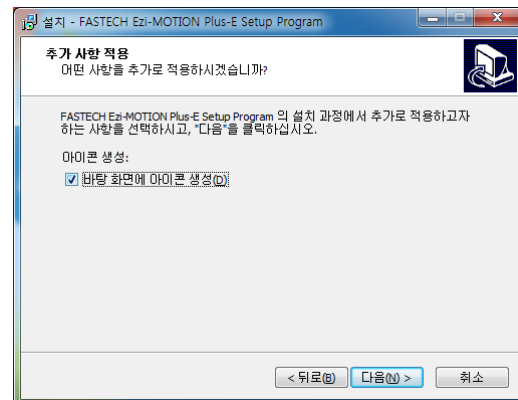www.fastech.co.kr

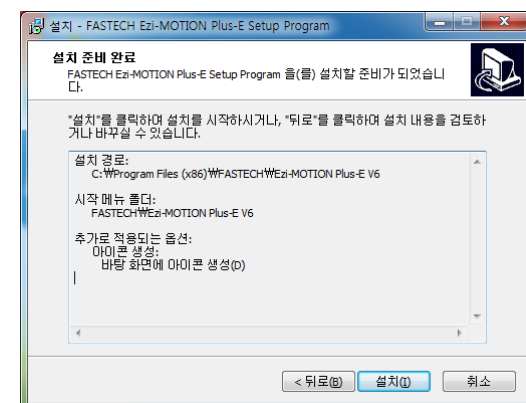Select a folder where the program is installed, And click 'Next'

Select a Start menu folder and click 'Next'

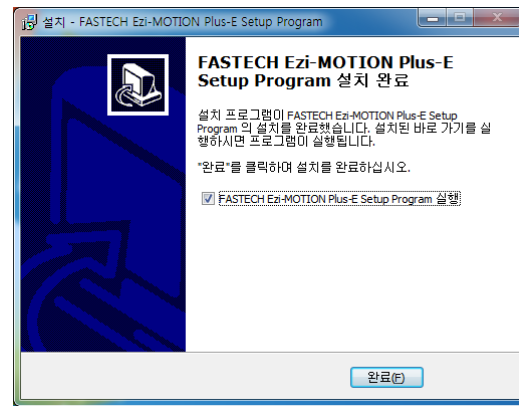Select '바탕화면에 아이콘을 생성여부' and click Next.

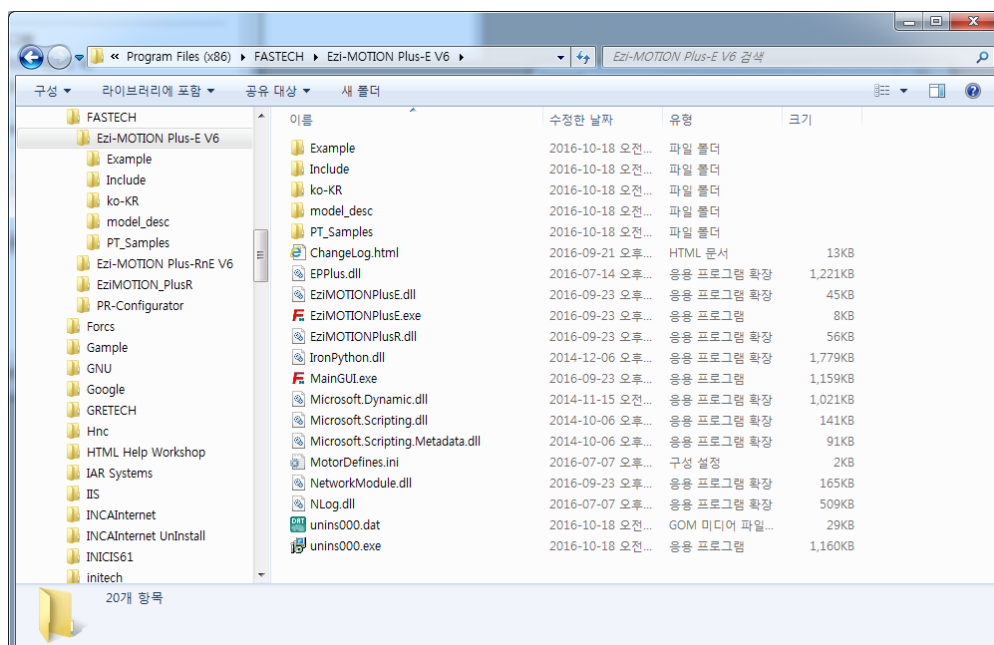Check '설치 환경' and click 'install'

Installation is completed.

When installation is completed, you can find the below files in the selected folder.

1) Include folder : *.dll, *.lib, *.h files (32bit)

    X64 subfolder of include folder:*.dll, *.lib (64bit)

2) Example folder : Source code for sample

3) PT_Samples folder : Sample data files for position table

1 - 3 . Connecting PC with DriveModule

(1) To communicate with controller module, the user should prepare Ethernet cable and connect it with the PC. For more information, please refer to 「User Manual-Text」.

Execute User program(GUI), Ezi-MOTION Plus-E V6and click 'Connect'. Then the following window will be displayed

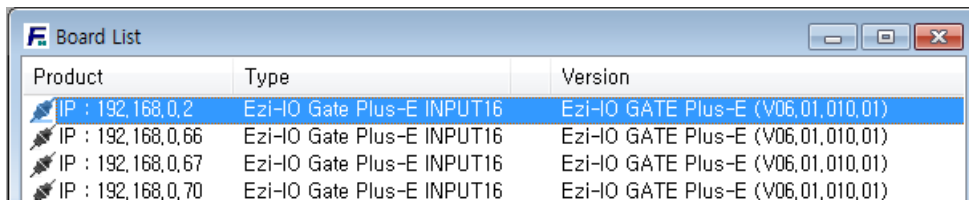| 버튼	설명
ADD	Enter IP Address and click 'Add' If the item does not exist with added IP Address, List will not be added.
Broadcast Search	Search every item that can be connected and add it to the List.
Refresh Status	Check the connection status of listed item.
Connect	Connect the listed item and execute GUI.

● After setting each IP Address and clicking 'Broadcast Search', every item will be displayed on the list. Click 'Connect' then every item will be connected with GUI.

⚠ 주의	1. Please assign different IP Addresses of connected drives to a single network (segment). 2. If the connection fails, please check IP conflict and IP Address of PC.

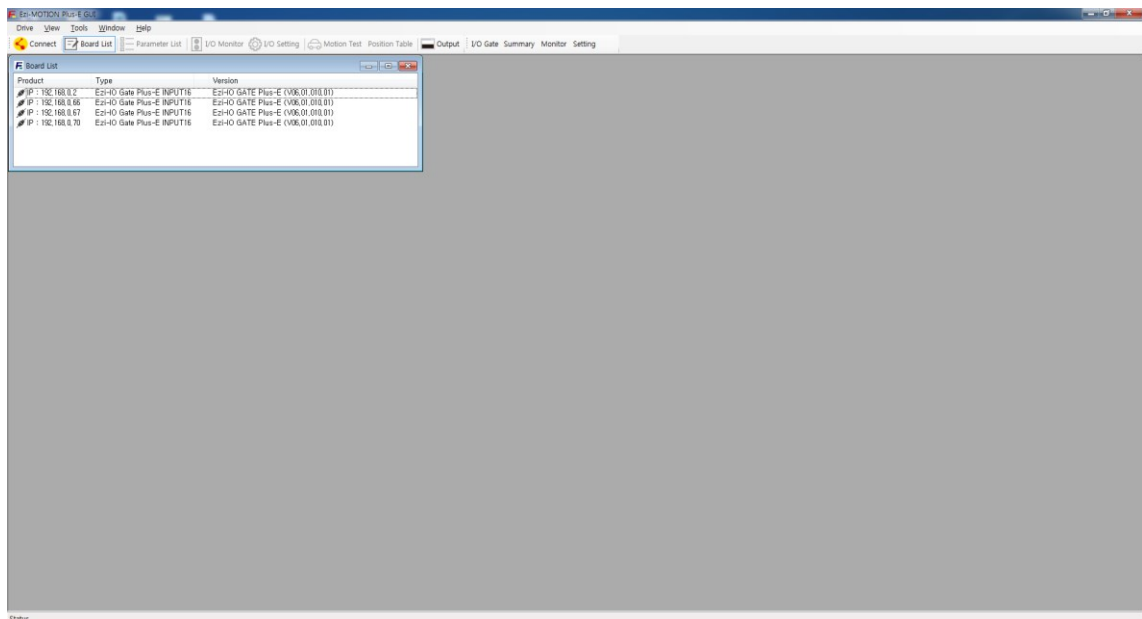(2) When the connection is completed, the window will appear as show below.
   1) IP Address of Connected drives
   2) Type of all connected motors and drives

3) Firmware Version

2 . Main Window

This is basic window to operate the program. Each window is displayed in this window.

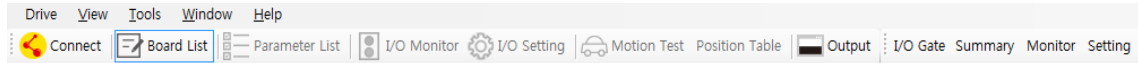The user can open each window with a toolbar.

Depending on the type of connected board, the icon of toolbar is Enable or Disable.

2 - 1 . Menu

There is 'View' menu that shows other screens and a 'Drive' menu that allows you te select the communication connection and disconnection functions.
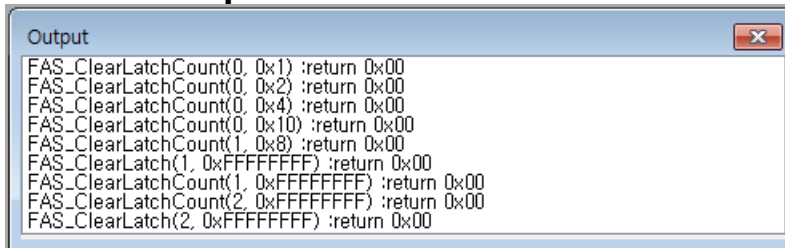
2－2．Toolbar

Depending on the type of connected board, the icon of toolbar is Enable or Disable.

For the Ezi-IO Plus-E product, Connect, Board List, Output, Output Summary, Monitor, Setting icons are Enable.

Click each button, and the following functions will be executed.

Button	Description
Connect	To connect or disconnect with the drive
Board List	To display connected module information and communication status
Parameter list	To set parameter values related to operation control like a position command
I/O Monitor	To monitor digital I/O signals of CN1 connector
I/O Setting	To set digital I/O signals of CN1 connector
Motion Test	To execute motion commands such as Jog operation, Position operation, Origin return operation
Position Table	To input and execute position table data
Output	To display DLL function corresponding to the command being executed
Summary	To check the entire digital input / output of the connected Ezi-IO.
Monitor	To confirm digital input / output and other function for Ezi-IO
Setting	To set, save, load the digital input / output level of Ezi-IO

2－3．Output

Click 'Output' at the Toolbar or check [Menu] － [View] － [Output], and the above window will be displayed.
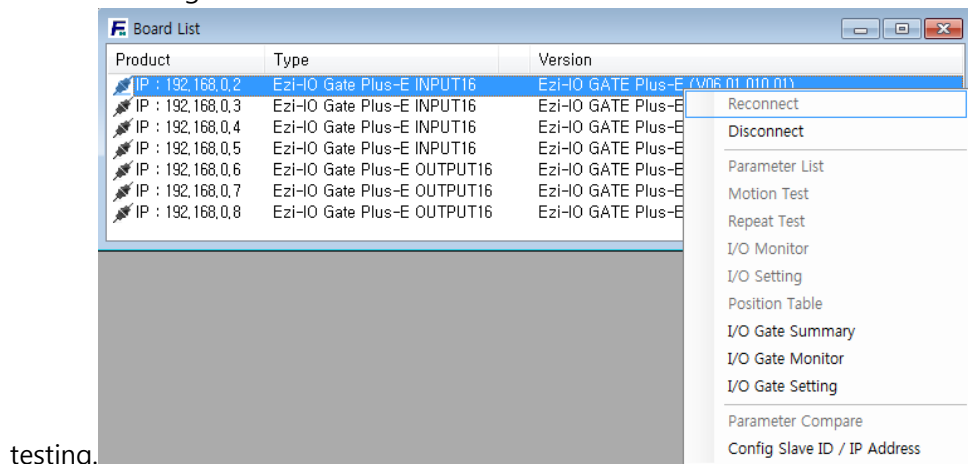
This window includes commands used for the controller. The user can check that which function is used, how parameter values are inputted, and how they are normally processed.

The above window displays functions which the user inputs or functions used when the user clicks each button. For more information of commands, please refer to 「User Manual-Communication Function」

2 - 4 . Board List

This window displayed drive list connected.

Select the connected drive and Right-click. Then there are buttons to go to windows for function setting or

testing.

1) Board IP address and type.

2) Firmware Version number of borad.

● **Disconnect / Reconnect**

Disconnect : Disconnect the communication

Reconnect : Reconnect the communication

● **I/O Gate Monitor**

Input(I16x type board) : To monitor information such as input / latch. and to control related to latch.

Output(O16 type board) : To monitor and control the output.
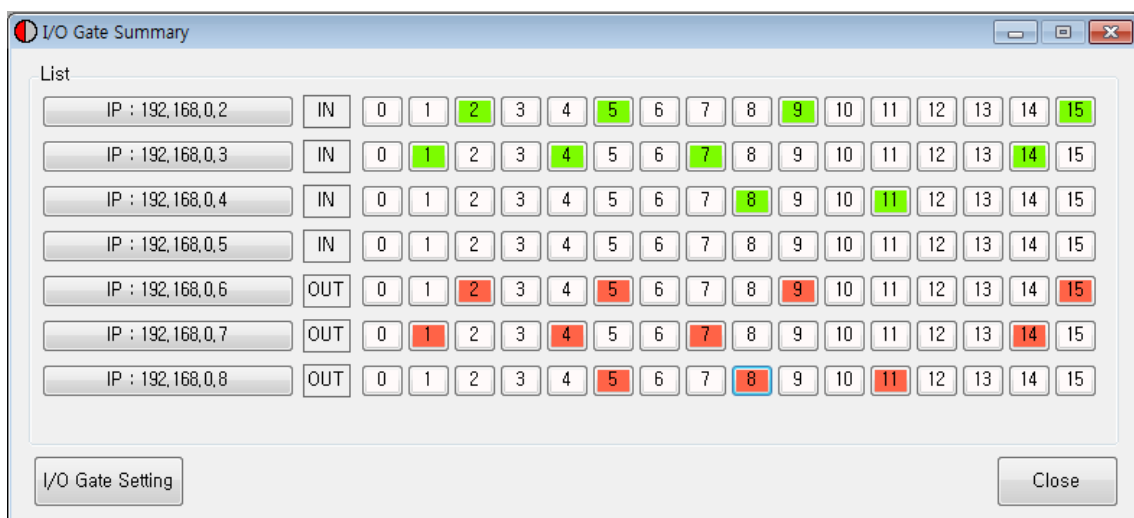
● **I/O Gate Setting**

Input(I16x type board) : The input Active Level setting / load / save

Output(O16 type board) : The output Active Level setting / load / save
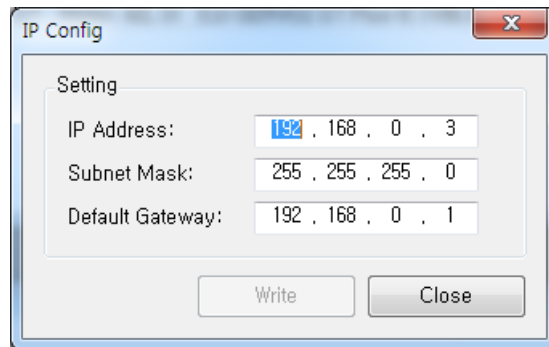
● **I/O Gate Summary**

The input / output status of the connected input / output board can be monitored at once.

Ez-IO-O16 type board can be controlled and monitored.

● Config Slave ID / IP Address
To configure IP Address / Subnet Mask / Gateway.

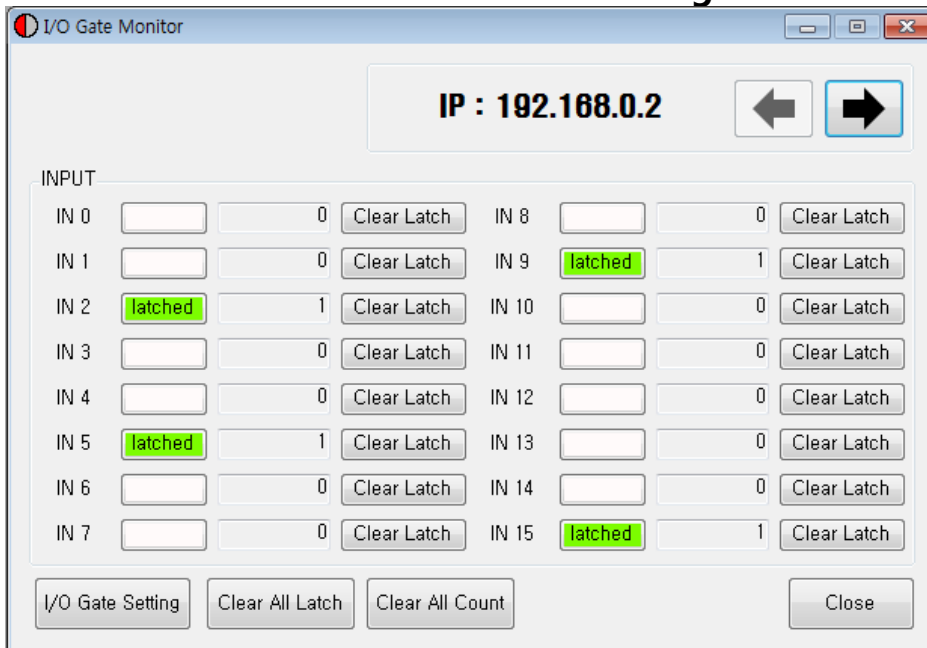After clicking "Write" and Power reset, Configuration is applied.
Final number of IP Address does not change.
Final number can be set via Switch.
Ex) If changing IP Address : 192.168.0.3 → 192.169.10.100, then it's changed to 192.168.10.3

3 . I/O Monitoring and I/O Logic Setting

3 - 1 . Ez-IO-PE-I16 series Monitoring

1) Input signal :

Displays current input status Input signal [ON] : Green

Input signal [OFF] : White

Displays current Latch status

Latch [ON] : latched display

Latch [OFF] : latched do not display

Click on the Clear latch to clear latched..

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2)Latch count :

Count the number of times the input is turned on.

If also counts when input is changed(Off->On) in latched state.
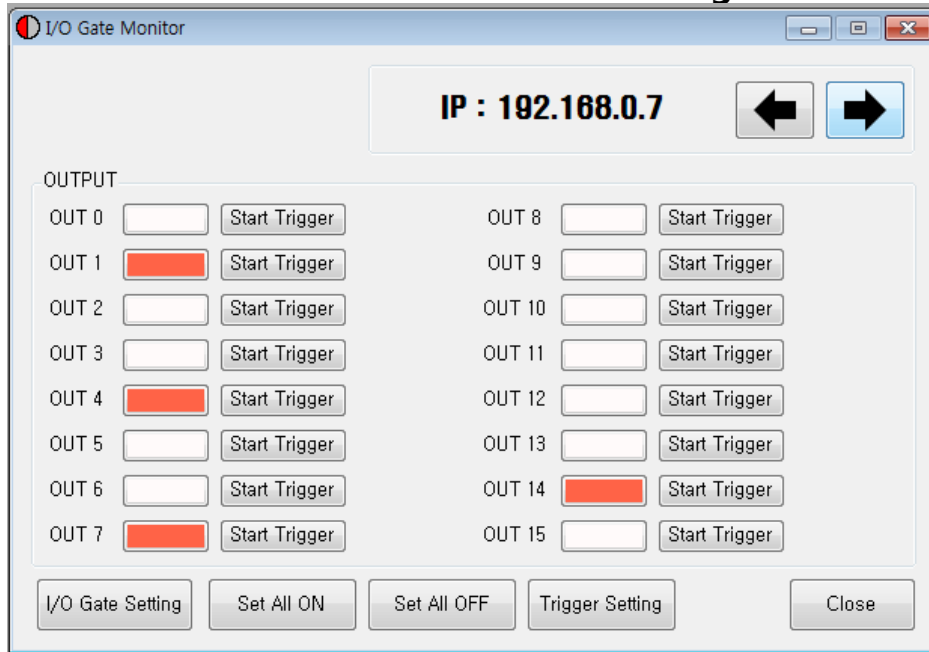
3)Clear All Latch :

Latch clear all No. 0~15.

4)Clear All Count :

The latch count is initialized (0) all No. 0~15

3 - 2 . Ez-IO-PE-O16 series Monitoring

1) Output signal :

   If you click the white button corresponding to 'OUT0' ~ 'OUT15', the corresponding pin signal will change to [ON] / [OFF].Output signal [ON] : Red
   Output signal [OFF] : White

2) Strat Trigger   :

   Execute Trigger that is set by Trigger Setting

3) Trigger Setting :

   Enables a window to enter information about the trigger output. And enter the information.
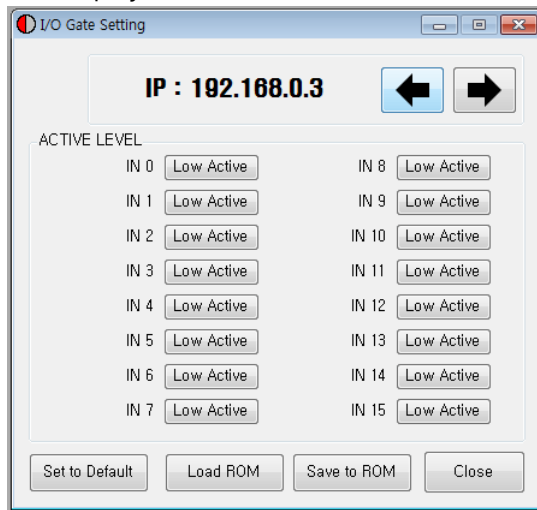
4) Set All ON :

   All the outputs of No. 0~15 [ON]
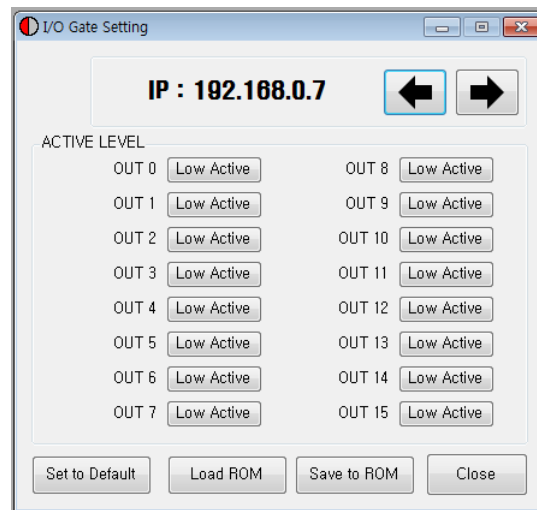
4) Set All OFF:

   All the outputs of No. 0~15[OFF]

3 - 3 . I/O Logic Setting

Click 'I/O Logic Setting' icon at the I/O Monittor window, and the following window will be displayed..

Ez-IO-PE-I16 series

Ez-IO-PE-O16 series

1) Signal Level Assignment :

These buttons provide the user with functions that he can select the active level of signal for the signal to be recognized to [ON]. He can click the button to the right of the signal name and set the signal.

* Low Active :   when the signal is set[ON] to 0 volt
* High Active : when the signal is set[ON] to 24 volt

2) Save to Rom :

By default, all changes are temporarily stored in RAM, and you must click the 'Save to ROM' button to save them to ROM.

3) Load Rom :

Load the settings stored in ROM to RAM.

4) Set to Default :

Change the entire level to [Low Active].

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FASTECH Co., Ltd.

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