Chapter 7
LD Recorder

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1 Home Screen

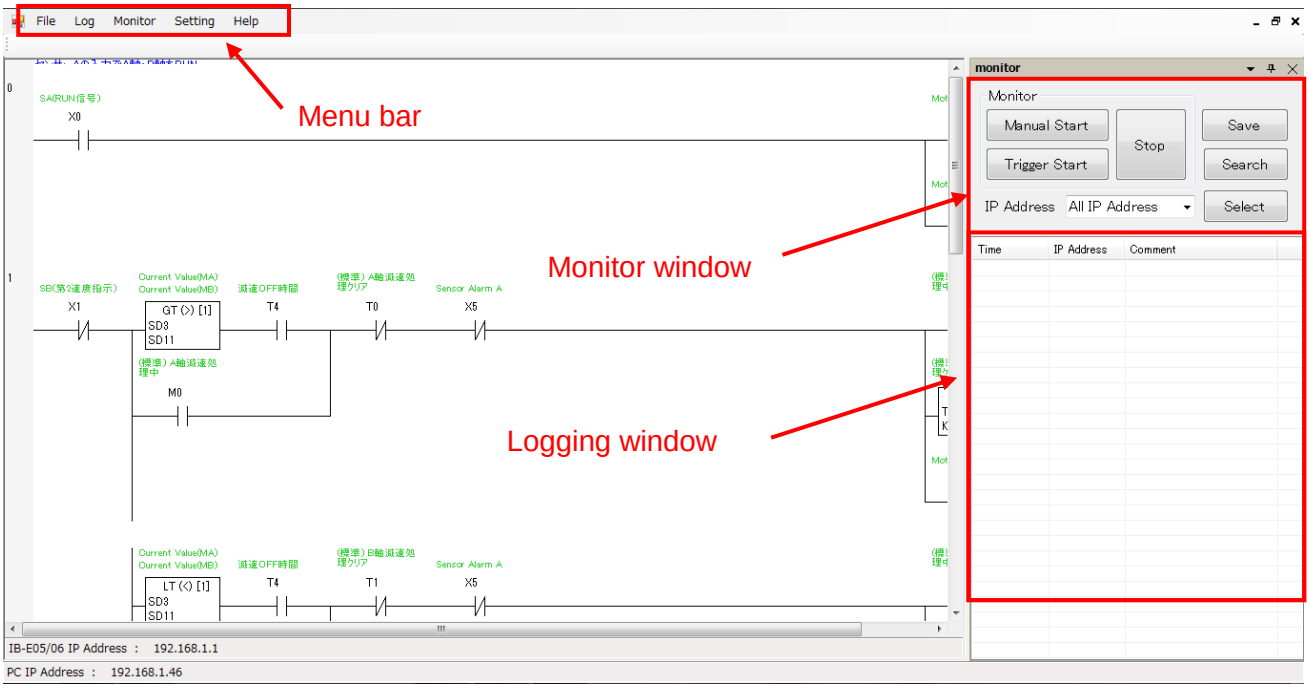
LD Recorder is used to analyze ladder logic.

Data recorded ladder by ladder scanning.

Aquire and analyze a data of 2 IB controllers in same time.

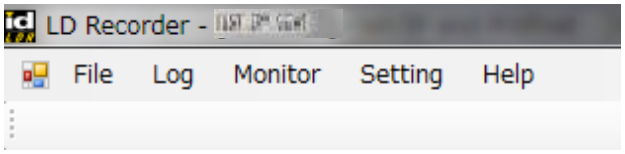
Recorded data can be saved.

Select [LD recorder] from [Online] in main menu,
then select desire IP address and “OK”.



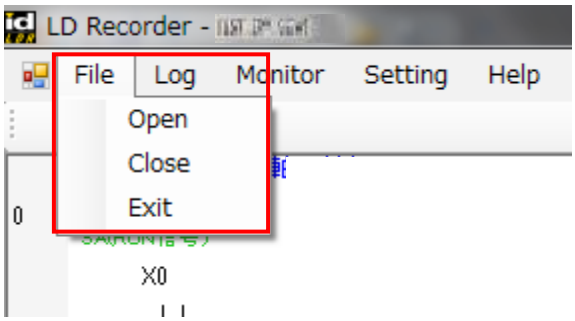
2 Menu Bar

File, Log, Monitor, Setting and Help in menu bar as seen below.



2.1 File

Select [File] from menu bar.



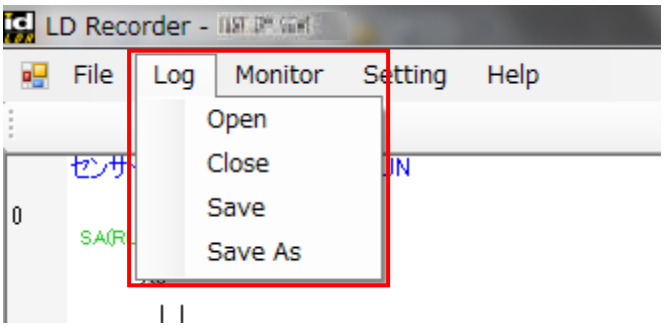
Available menu options,

- Open　　Open a ladder to be recorded.
- Close　　Close a ladder and log.
- Finish　　Close an application.

> ・Only data created by iCEP can be used.
>
> ・Open up to 2 files at the same time, then log of 2 IP address can be get.

2.2 Log

Select [Log] from menu bar.



Available menu options,

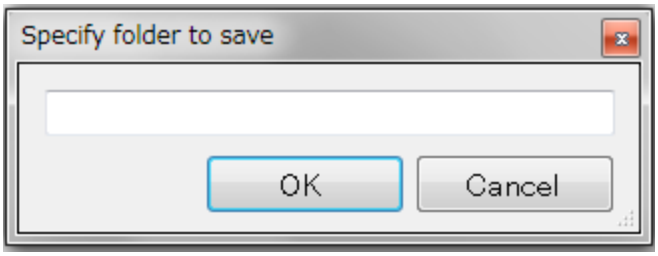
- Open　　Open the log saved by LD Recorder.
- Close　　Close the ladder and log.
- Save　　Save the log.
- Save As　　Save the log, choose file name.

> ・Each scan can be saved up to 1,000 log file.

2.2.1 Specify Folder to Save

Recorded log can be saved.

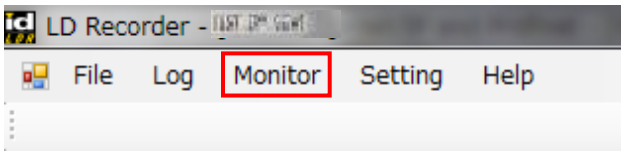
Select [Save] or [Save As] from menu bar.

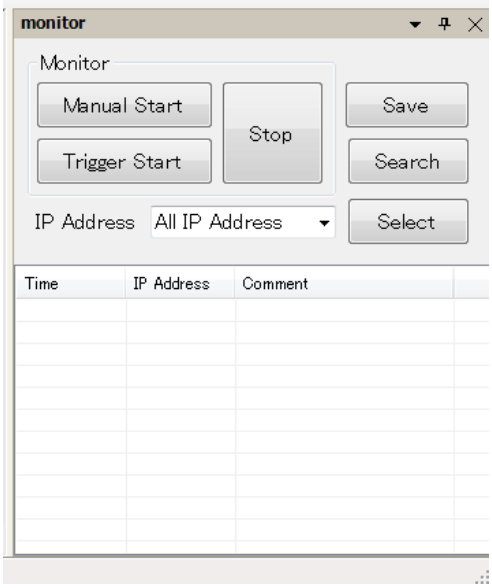


2.3 Monitor

The monitor screen of LD Recorder can be displayed.

Select [Monitor] from menu bar.
When the monitoring of ladder is not opened, the screen below is displayed.



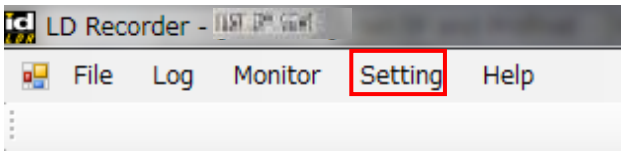


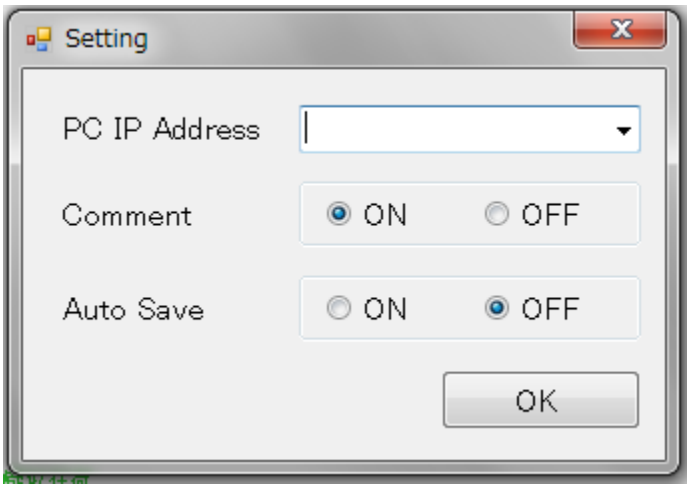
The functions are,

- Manual start　　Start recording the log.
- Trigger start　　Start recording the log from trigger point.
  Trigger can be set for start and finish of recording the log.
- Stop　　Stop recording log.
- Save　　Save the log.
- Search　　Search function within recording log.
- Select　　View recorded log by IP address.

2.4 Setting

Select [Setting] from menu bar.





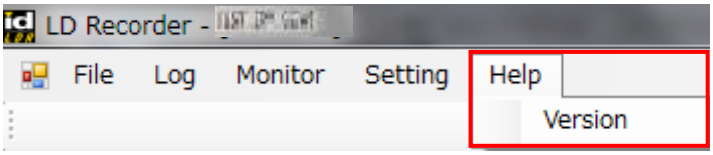
The functions are,

- PC IP Address　　Set IP address of PC.
- Comment　　Turn the display of comments in ladder ON or OFF.
- Auto Save　　Select ON or OFF the log auto save.

2.5 Help

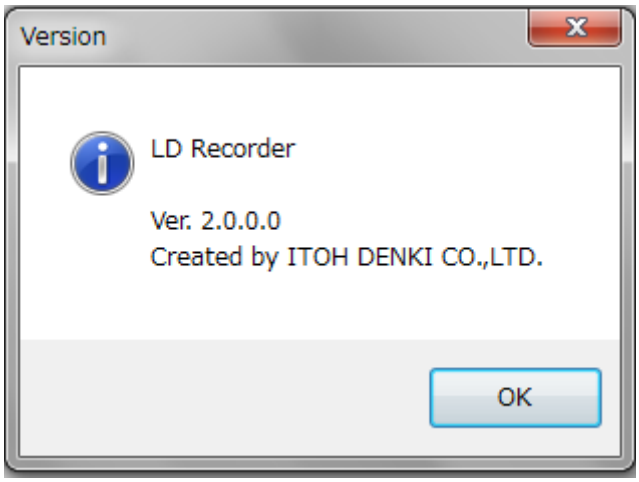
Software version information.

Select [Help] from menu bar.



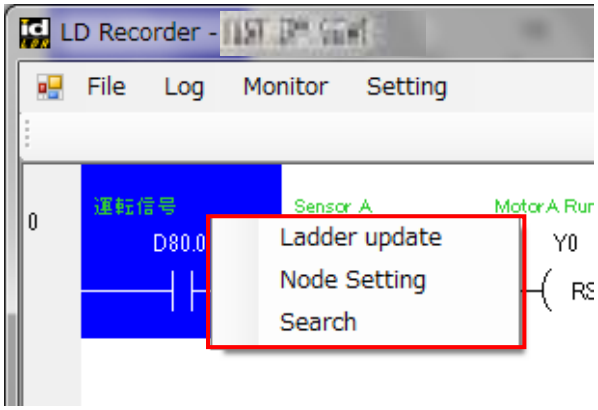
・Version　　Display Version of LD Recorder.

Select [Version] from [Help] in menu bar.



3 Right Click Menu at Logic Screen.

Right click on the logic screen.



Available menu options,

- Ladder update
- Node setting　　Change IP address of controller on display.
- Search　　Search within log displayed.

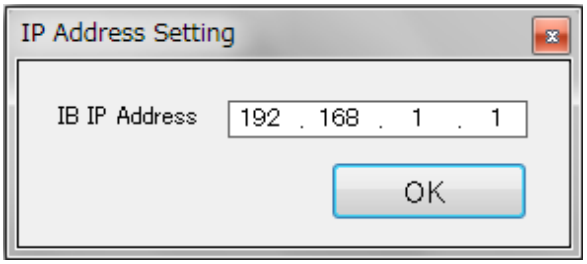
3.1 Ladder Update

LD recorder display can be updated.

3.2 Node Setting (IP Address Setting)

Change node (IP address) of controller on display.

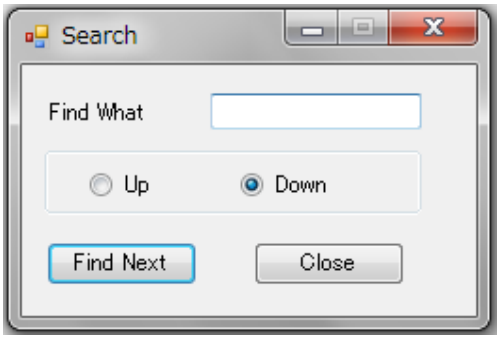
Right click on logic screen and select [Node setting].



3.3 Search

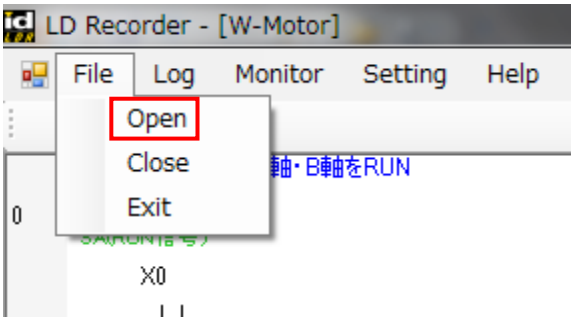
Search for the command on ladder logic.

Right click on the logic screen and select [Search].

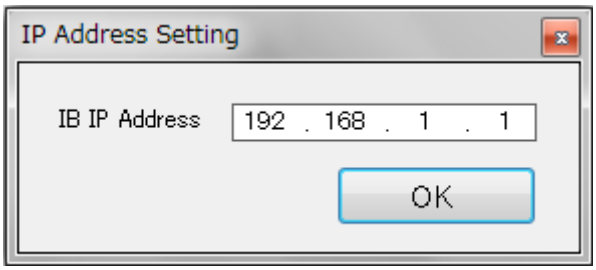


4 How to Record the Log

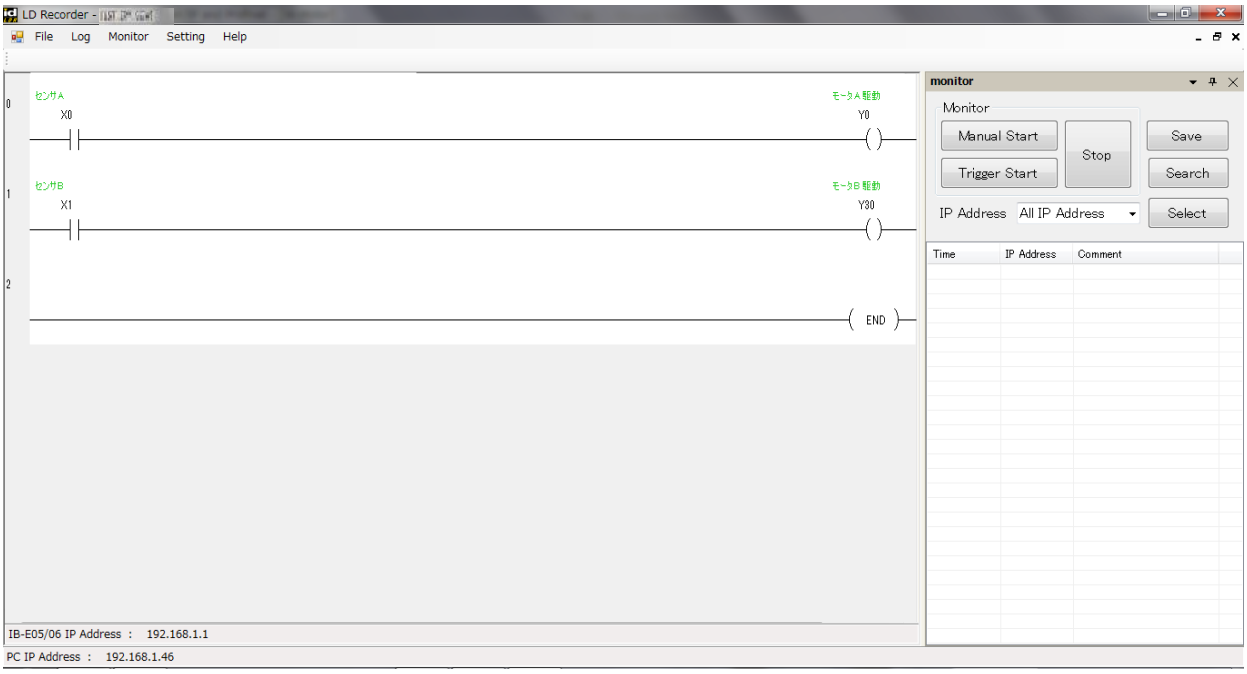
1. Select [Open] from [File] in menu bar.
   * Only files created by iCEP can be opened.



2. Select the project, the screen below opens to choose IP address, and set IP address to record.



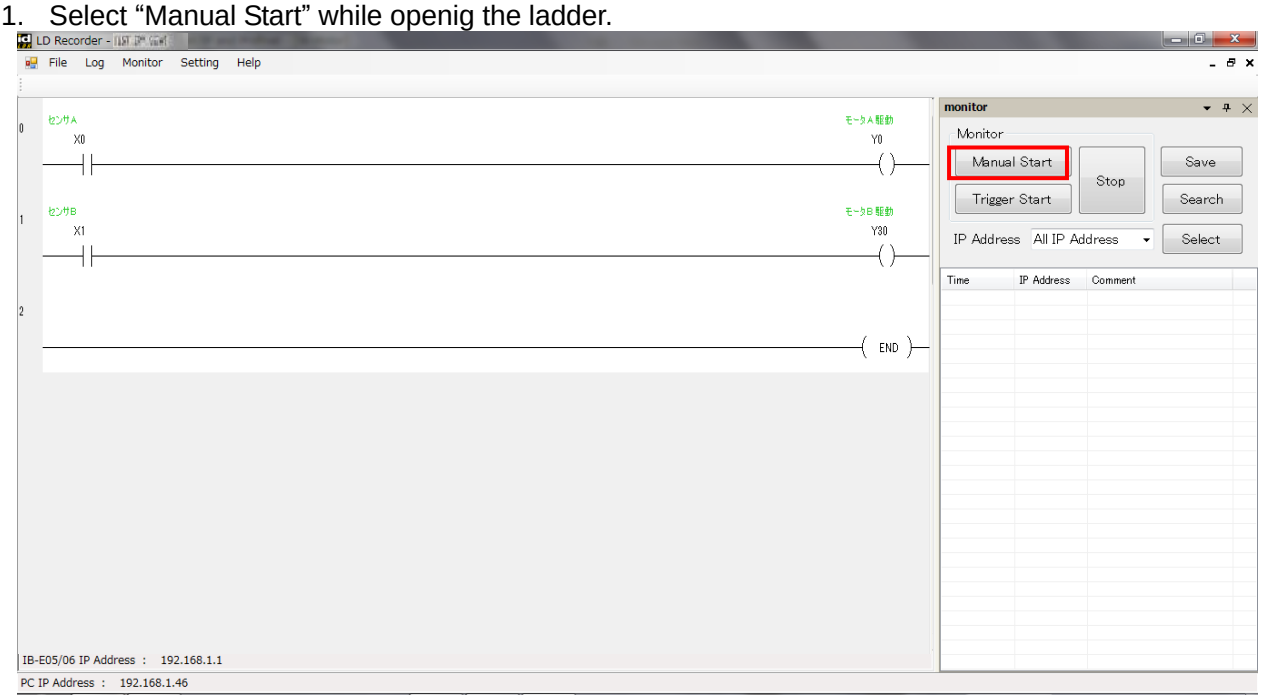
3. The ladder is displayed as shown below.



> ・If recording another log, repeat steps 1 to 3 to open another log.
> Up to 2 ladder logics can be opened.

4.1 Logging (Manual)

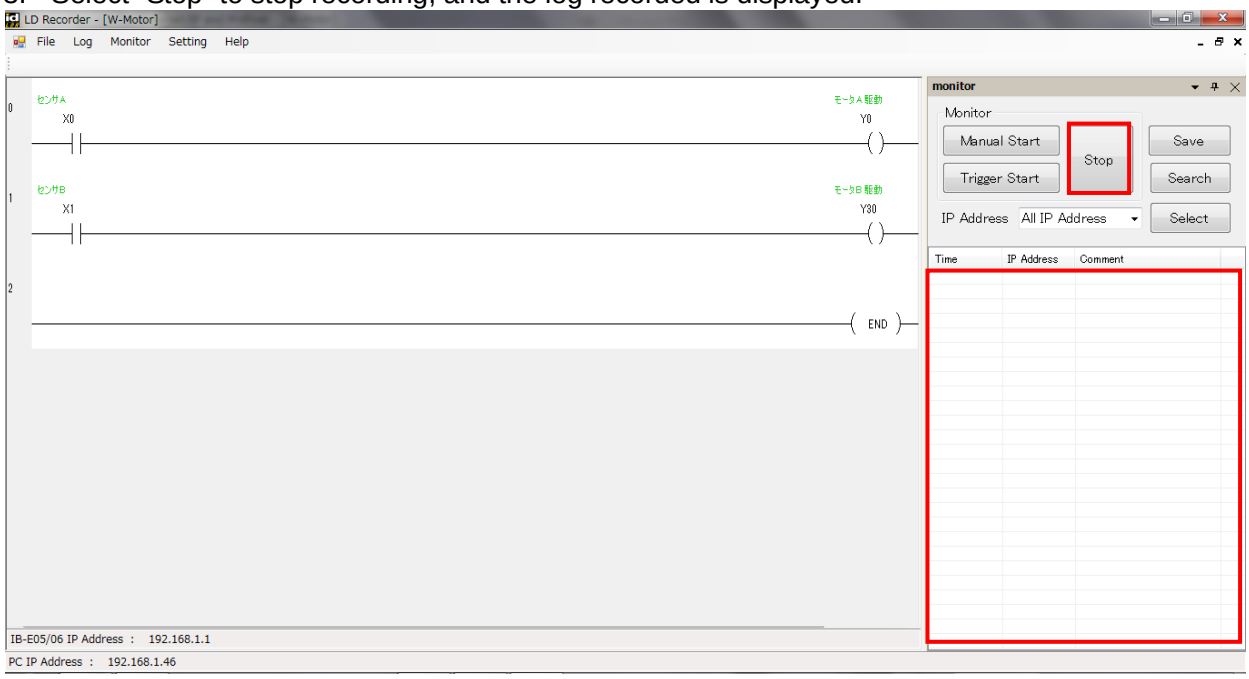
1. Select “Manual Start” while openig the ladder.



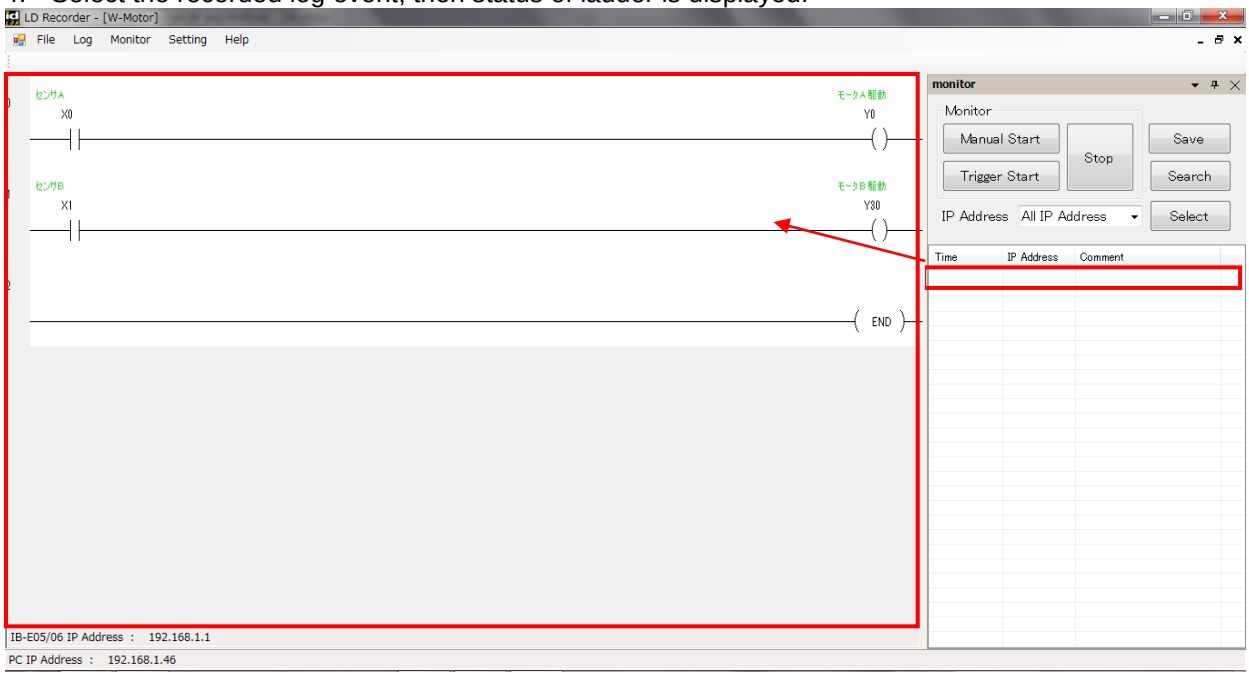
2. Recording is started, display “Monitoring”.

Monitoring

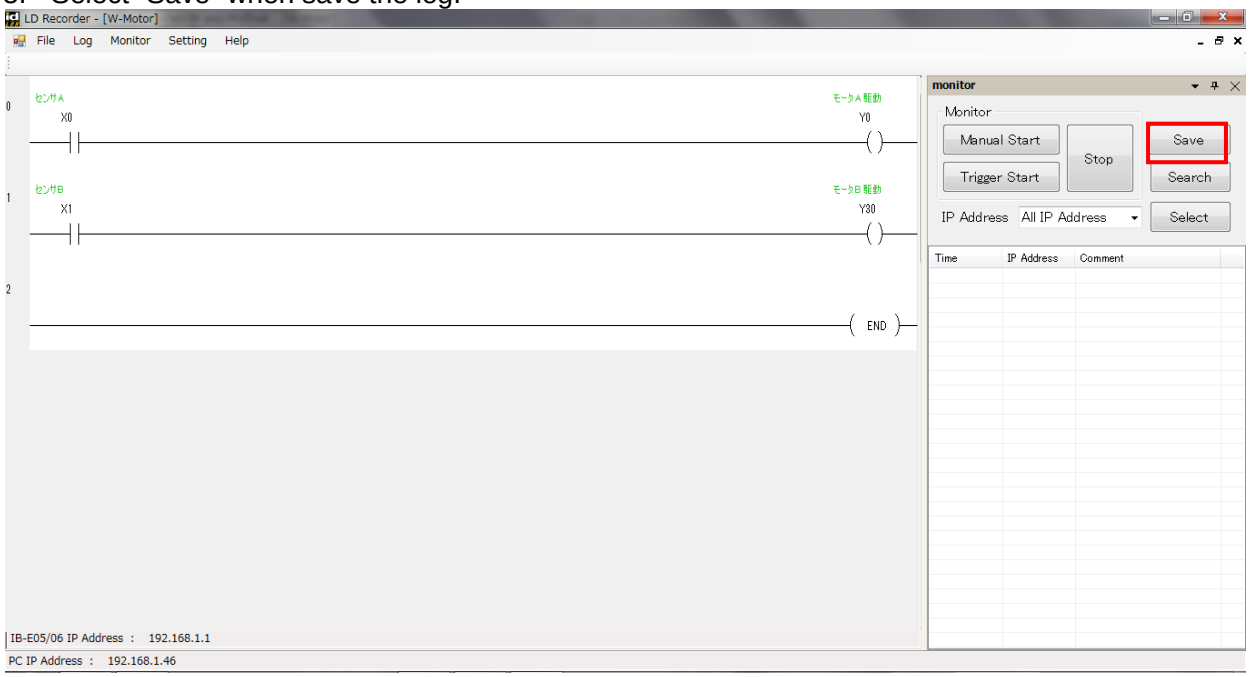
3. Select “Stop” to stop recording, and the log recorded is displayed.



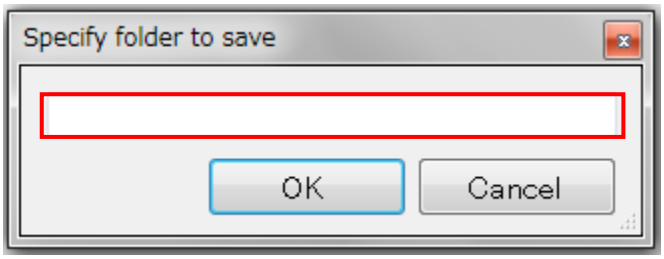
4. Select the recorded log event, then status of ladder is displayed.



5. Select “Save” when save the log.



If the file is never saved, the screen that specify folder to save is displayed.
Specify the folder name and save it.

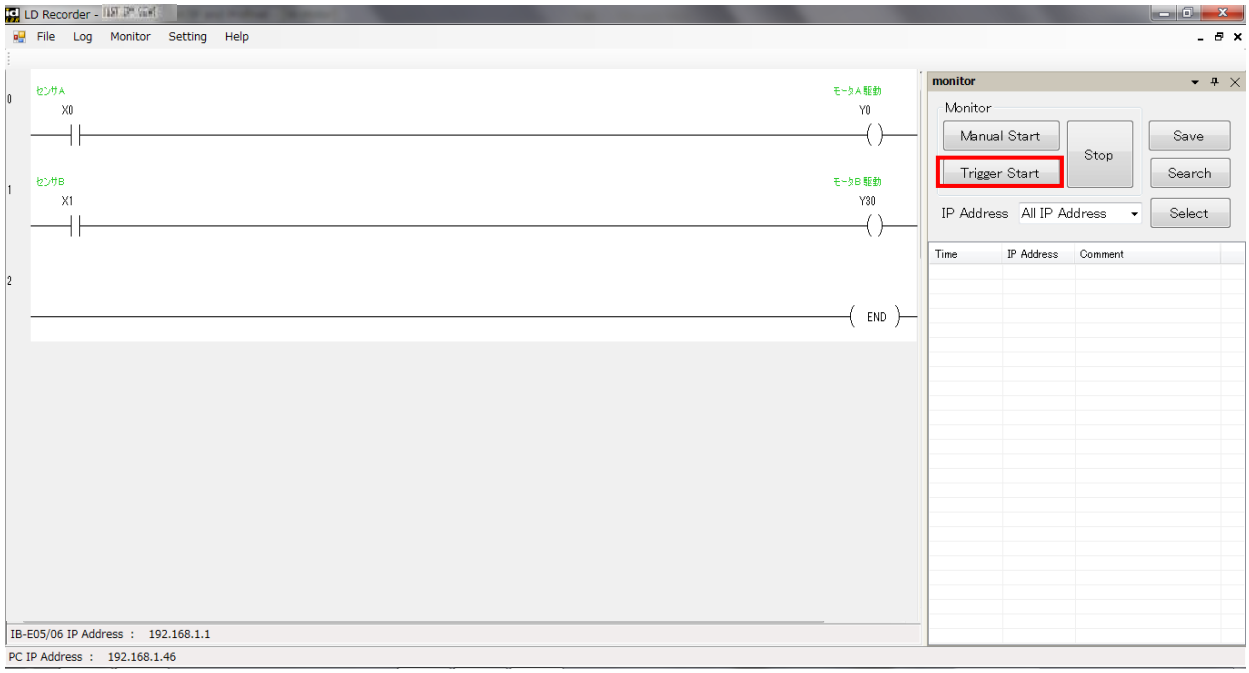


The specify folder is created in “My document-LD recorder v2”.
The time saving in folder is the file name and saves the log.
(File name is saved as “yyyymmdd_hhmmss”.)

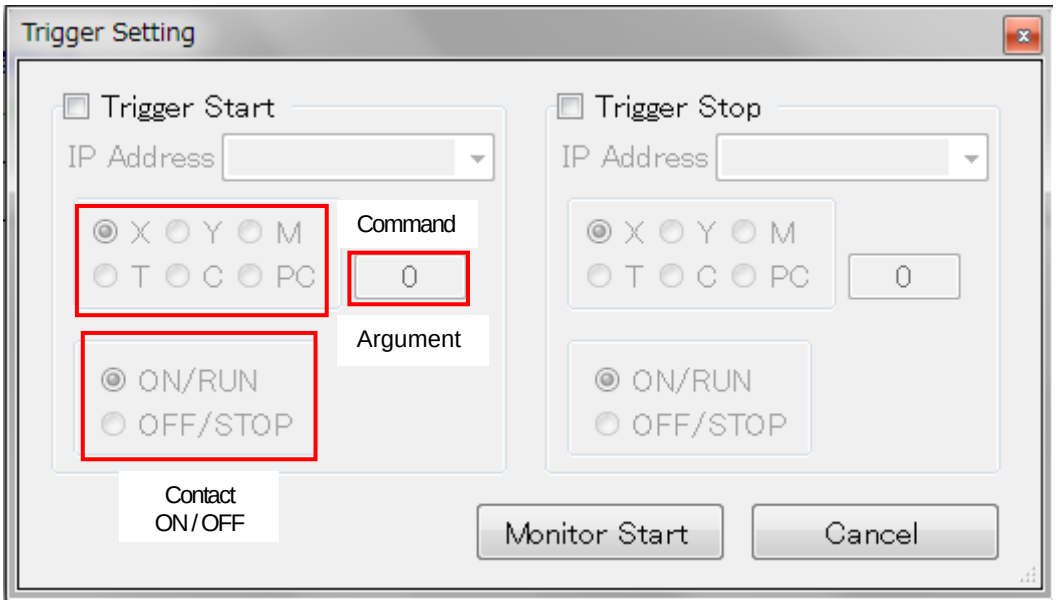
- If the log is saved, the saved log is in the folder.
  When save the log to the other folder, save from [Same As] in [Log] of menu bar.

4.2 Logging (Trigger)

1. Select “Trigger Start” while opening the ladder.



2. The setting screen of trigger will be displayed as shown below.

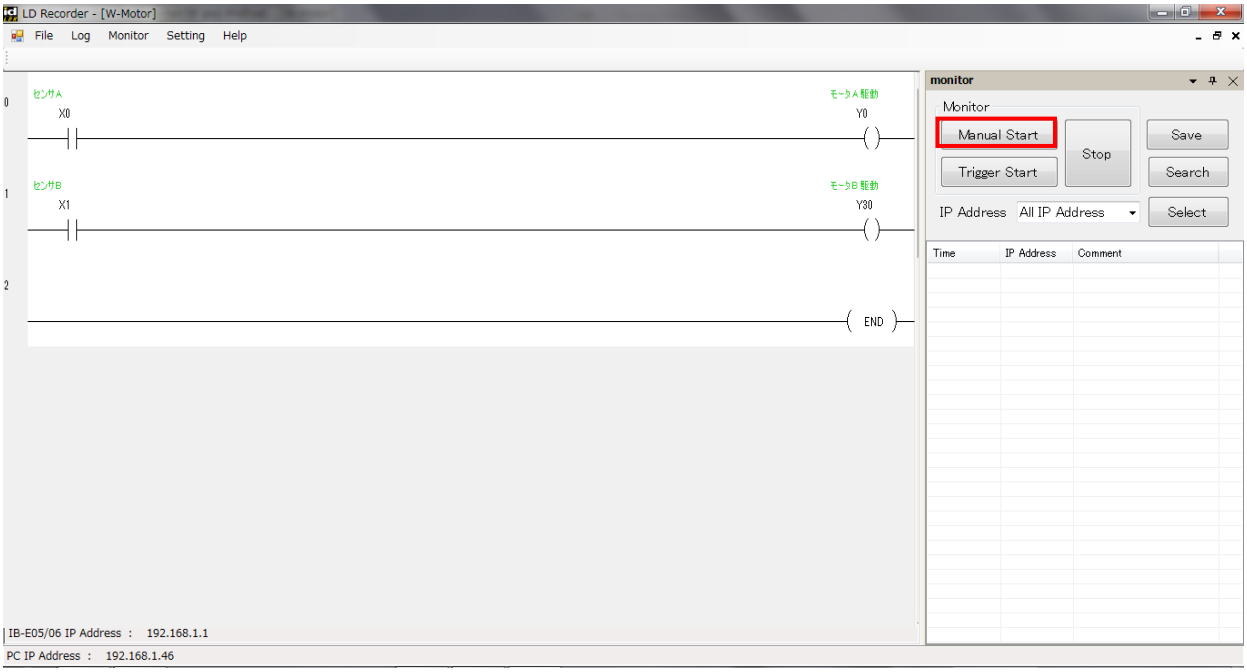


The fountions are,

- Trigger Start — Set the condition of start point. (Sets ON in check box to activate.)
- Trigger Stop — Set the condition of stop point. (Sets ON in check box to activate.)
- IP Address — Set IP address of controller to use the trigger.

> ・Command/ Argument /Contact are set accroding to trigger condition.
> ・Monitor start: Start recording log with condition of trigger setting.

3. Recording log with trigger, click manual start will force start the recording cover riding trigger setting.



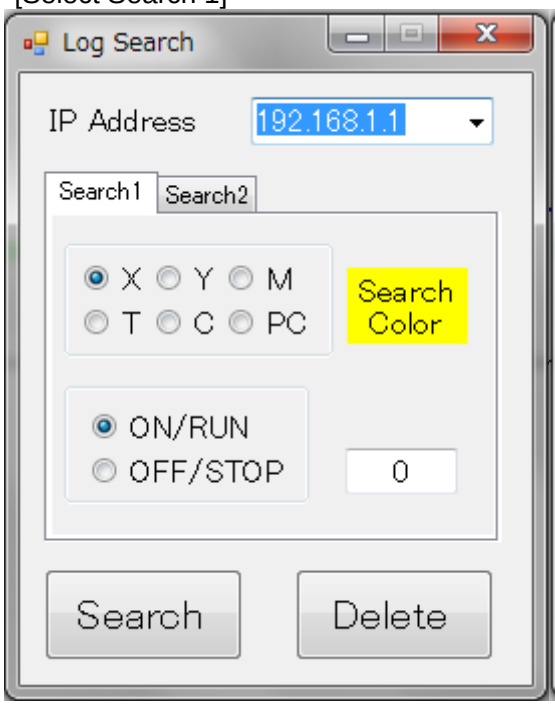
4. Select “Stop”, and the recording is terminated and log will display.
   Once log is displayed viewing log and saving log with same procedure.

5 Log Search

Find a command recorded on the log, ON or OFF.

Select “Search”.

[Select Search 1]



[Select Search 2]

The functions are,

- IP Address　　Set IP address of controller to recorded log.
- Search　　Start searching.
- Delete　　Clear all searched results.

5.1 Log Search Result Color Code Legend

Searched result is displayed with color code.

- Search1 for search condition is satisfied — Yellow
- Search2 for search condition is satisfied — Green
- Search1 and 2 for search condition is satisfied — Purple
- Search1 and 2 for search condition is not satisfied — White

Time	IP address	Comment	Time	IP address	Comment
11:43:29.286	192.168.1.1		11:43:29.286	192.168.1.1	
11:43:29.286	192.168.1.1		11:43:29.286	192.168.1.1	
11:43:29.301	192.168.1.1		11:43:29.301	192.168.1.1	
11:43:29.301	192.168.1.1		11:43:29.301	192.168.1.1	
11:43:29.317	192.168.1.1		11:43:29.317	192.168.1.1	
11:43:29.317	192.168.1.1		11:43:29.317	192.168.1.1	
11:43:29.317	192.168.1.1		11:43:29.317	192.168.1.1	
11:43:29.332	192.168.1.1		11:43:29.332	192.168.1.1	
11:43:29.332	192.168.1.1		11:43:29.332	192.168.1.1	
11:43:29.348	192.168.1.1		11:43:29.348	192.168.1.1	
11:43:29.348	192.168.1.1		11:43:29.348	192.168.1.1	
11:43:29.348	192.168.1.1		11:43:29.348	192.168.1.1	
11:43:29.364	192.168.1.1		11:43:29.364	192.168.1.1	
11:43:29.364	192.168.1.1		11:43:29.364	192.168.1.1	
11:43:29.379	192.168.1.1		11:43:29.379	192.168.1.1	
11:43:29.379	192.168.1.1		11:43:29.379	192.168.1.1	
11:43:29.379	192.168.1.1		11:43:29.379	192.168.1.1	
11:43:29.395	192.168.1.1		11:43:29.395	192.168.1.1	
11:43:29.395	192.168.1.1		11:43:29.395	192.168.1.1	
11:43:29.395	192.168.1.1		11:43:29.395	192.168.1.1	
11:43:29.410	192.168.1.1		11:43:29.410	192.168.1.1	
11:43:29.410	192.168.1.1		11:43:29.410	192.168.1.1	
11:43:29.426	192.168.1.1		11:43:29.426	192.168.1.1	
11:43:29.426	192.168.1.1		11:43:29.426	192.168.1.1	
11:43:29.442	192.168.1.1		11:43:29.442	192.168.1.1	
11:43:29.442	192.168.1.1		11:43:29.442	192.168.1.1	
11:43:29.442	192.168.1.1		11:43:29.442	192.168.1.1	
11:43:29.457	192.168.1.1		11:43:29.457	192.168.1.1	
11:43:29.457	192.168.1.1		11:43:29.457	192.168.1.1	
11:43:29.457	192.168.1.1		11:43:29.457	192.168.1.1	
11:43:29.473	192.168.1.1		11:43:29.473	192.168.1.1	
11:43:29.473	192.168.1.1		11:43:29.473	192.168.1.1	
11:43:29.488	192.168.1.1		11:43:29.488	192.168.1.1	
11:43:29.488	192.168.1.1		11:43:29.488	192.168.1.1	
11:43:29.488	192.168.1.1		11:43:29.488	192.168.1.1	
11:43:29.504	192.168.1.1		11:43:29.504	192.168.1.1	
11:43:29.504	192.168.1.1		11:43:29.504	192.168.1.1	
11:43:29.520	192.168.1.1		11:43:29.520	192.168.1.1	
11:43:29.520	192.168.1.1		11:43:29.520	192.168.1.1	
11:43:29.535	192.168.1.1		11:43:29.535	192.168.1.1	
11:43:29.535	192.168.1.1		11:43:29.535	192.168.1.1	
11:43:29.535	192.168.1.1		11:43:29.535	192.168.1.1	
11:43:29.551	192.168.1.1		11:43:29.551	192.168.1.1	

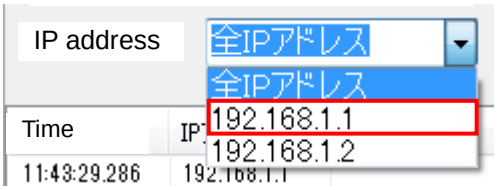
i ・The coded color is preset and cannot be changed.

5.2 Narrow IP Address of Log

When record two IP address, recorded log is displayed by mixed.

This function can be narrowed all or some IP address.

1. Select “192.168.1.1”.



2. The diagram can be narrowed as shown below.

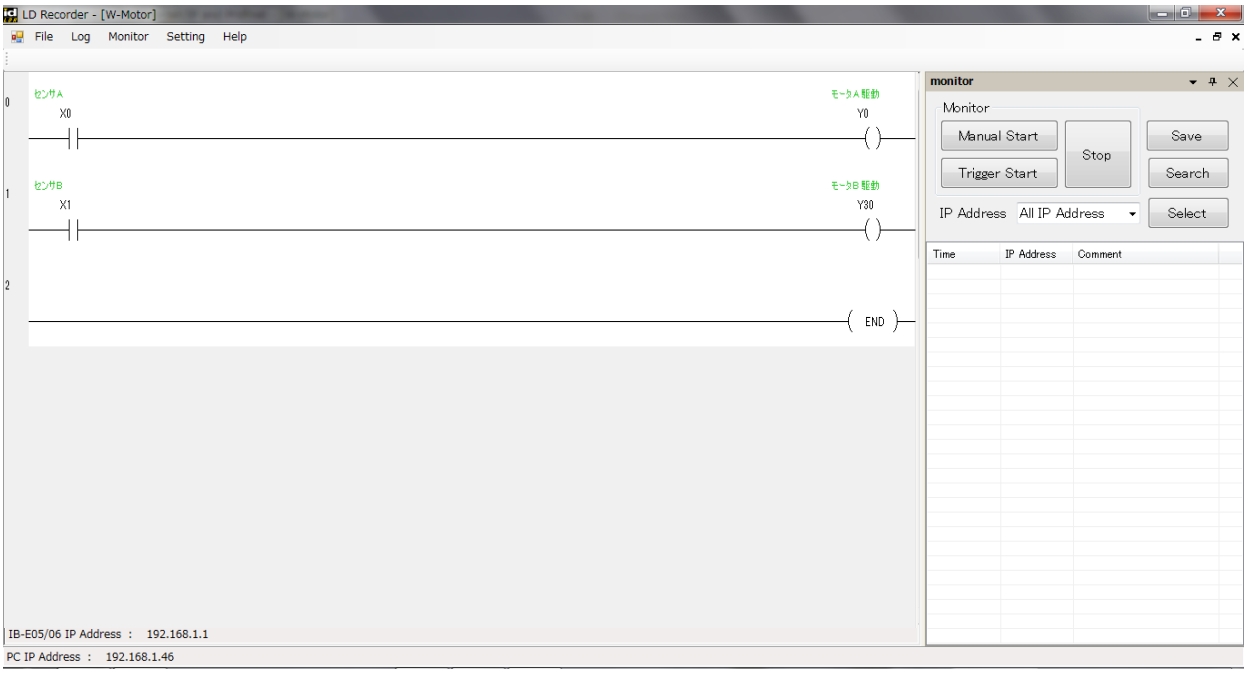
Time	IP address	Comment
11:54:55.458	192.168.1.2	
11:54:55.458	192.168.1.2	
11:54:55.458	192.168.1.1	
11:54:55.474	192.168.1.2	
11:54:55.474	192.168.1.1	
11:54:55.474	192.168.1.2	
11:54:55.474	192.168.1.1	
11:54:55.474	192.168.1.2	
11:54:55.474	192.168.1.1	
11:54:55.489	192.168.1.2	
11:54:55.489	192.168.1.1	

Narrow IP address “192168.1.1”.

Time	IP address	Comment
11:54:55.458	192.168.1.1	
11:54:55.474	192.168.1.1	
11:54:55.474	192.168.1.1	
11:54:55.474	192.168.1.1	
11:54:55.489	192.168.1.1	
11:54:55.489	192.168.1.1	
11:54:55.505	192.168.1.1	
11:54:55.505	192.168.1.1	
11:54:55.505	192.168.1.1	
11:54:55.520	192.168.1.1	

5.3 Upload Log

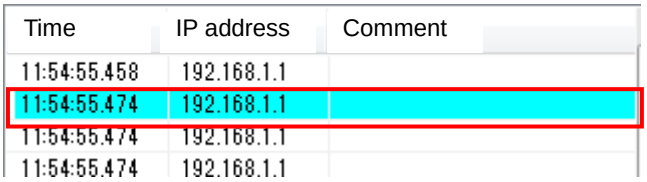
1. Select [Open] from [Log] in menu bar.



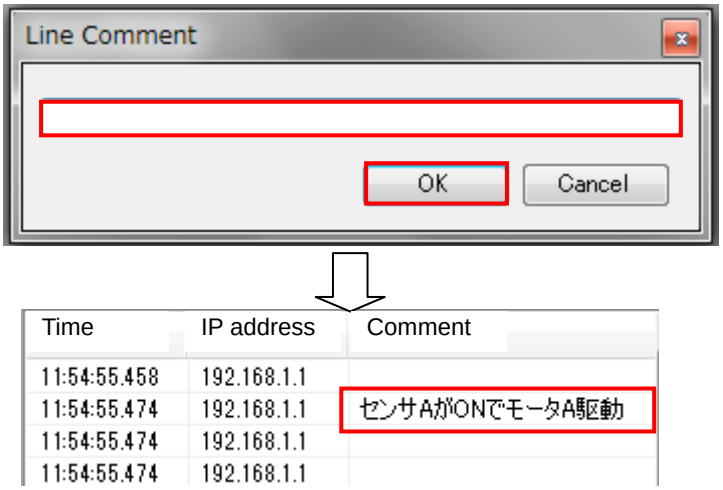
Display as monitoring not running.

5.4 Comment Input

1. Double click a line of the log to add comment.



2. Image in below appers and write comment.



・Maximum number of letters for comment is 20.