

EUNHA TERMINAL MODULE

(WEHT - 1x)

USER MANUAL



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1. Constitution

1-1. Feature of windows Eunha terminal

- Manufactured to be capable of data communication through USB port.
- Stabilized power supply with power circuit improvement of terminal module.
- Easy to control with software upgrade for windows.

1-2. Specification & constitution

- Communication port : Wire communication through USB port.
- Power supply method : Computer power supply DC 5V through USB.
- Power consumption : 120mA
- Size : W114 × D55 × H24mm
- Minimum requirement : Operating system (Windows XP ~ 7)

1-3. Components of WEHT module

- Eunha Terminal Module (ETM)
- USB cable (Computer ↔ ETM)
- Communication cable (EQUIPMENT ↔ ETM)
- Software for windows CD1 copy
- Eunha terminal program manual 1 copy

1-4. Software constitution

- WEHT installation program
- CP210X USB driver
- WEHT execution program
- Manual

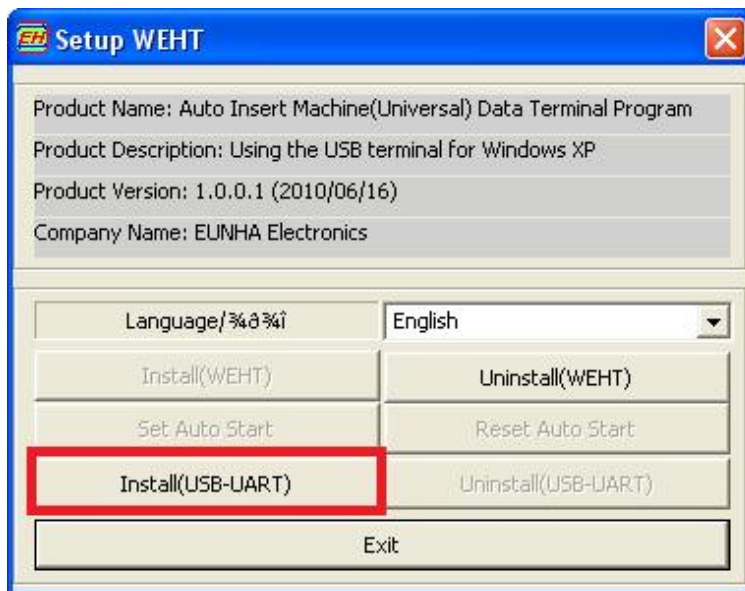
2. WEHT installation (Using WEHT installation program)

-Execution of WEHT_SET.exe file in the enclosed software CD (From 3 files)

※Operating system windows7 is to be installed with administrator privileges.

2-1.Installation of WEHT USB driver

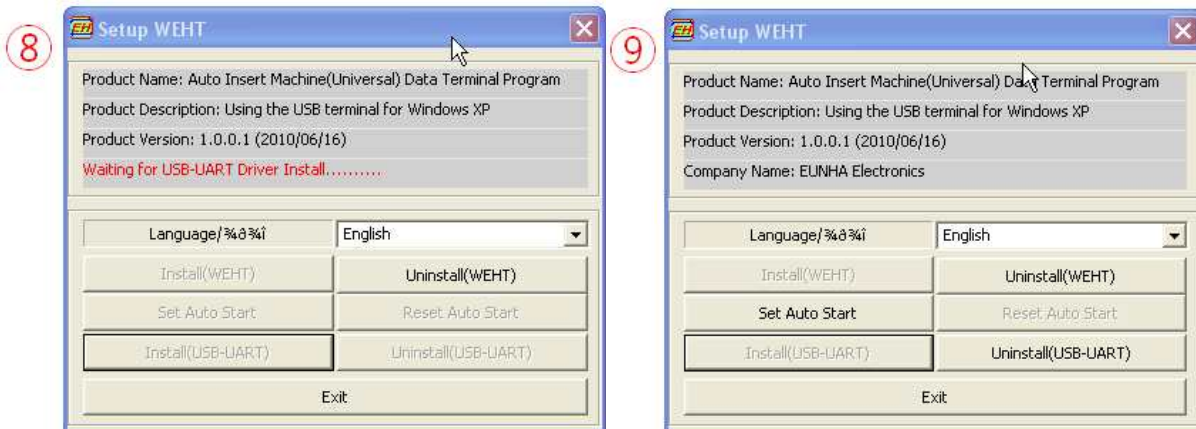
- * You must install the USB-UART drive in windows XP.
if win7, it is not necessary to install.



- To install [USB-UART] icon referring to the following picture.

◆ USB-UART installation method ◆



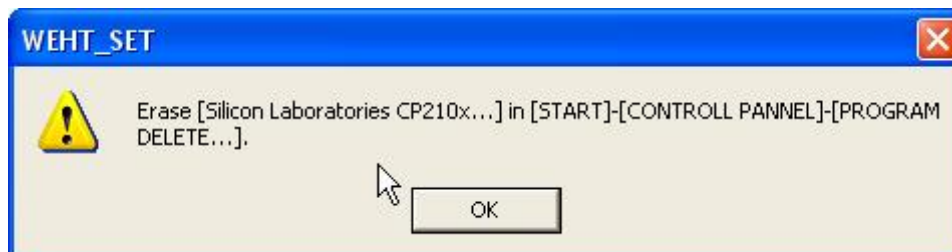


- ※ Wait for 20 ~ 30 sec. of waiting time in picture #8
- Finished installation, UNinstall [USB-UART] Icon is activated.

2-2. Uninstallation of WEHT USB driver

- ※ **Uninstalled USB-UART driver, usage of terminal is impossible.**

– [Uninstall (USB-UART)] Is also available in control panel.



- Control panel → Execute add or remove program.
 - ①Silicon Laboratories CP210x USB to UART Bridge (Driver Removal)
 - ②Silicon Laboratories CP210x VCP Drivers for windows XP/2003 Server/Vista/7
 remove 2 files above.

2-3. WEHT installation



<Before installation>



<After installation>

※ Without install message, installation is completed as soon as clicking install icon.

1) Install(WEHT)

- Clicking [Install(WEHT)] icon → Installation is completed after WEHT shortcut icon is appeared.
- Basic program installation path : C:\Program files\WEUNHA ELEWWEHT

2) Uninstall(WEHT)

- Clicking [Uninstall(WEHT)] icon → Uninstallation is completed , and WEHT shortcut icon is disappeared.

3) Set Auto Start

- [Set Auto Start] → Program is activated with booting up a computer.

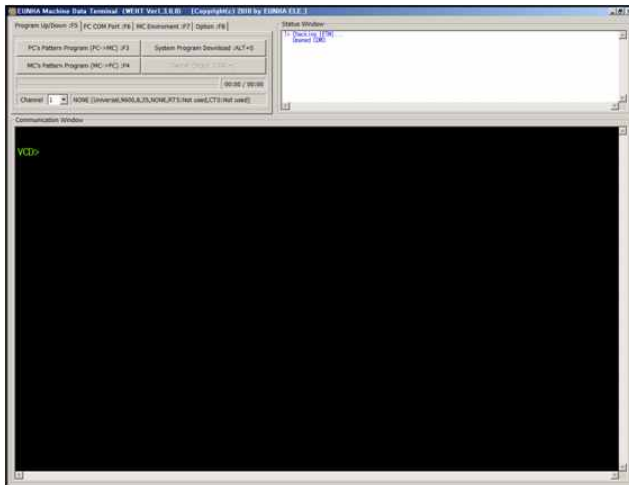
4) Reset Auto Start

- [Reset Auto Start] → Program is not activated with booting up a computer.

3. Execution & Setup of WEHT

3-1. Execution of WEHT

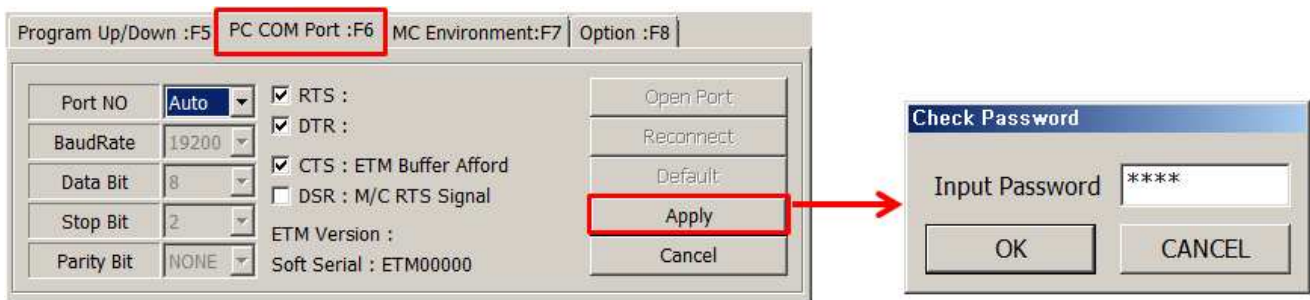
- 1) Enclosed cable is to be connected through PC ↔ ETM(Eunha Terminal Module) ↔ M/C
- 2) Execute WEHT program.



- MAIN Screen -

3-2. PC communication port setup : F6

※ It is recommended to communicate with [Default]



1) If Basic setup is done, [Default] icon is unactivated.

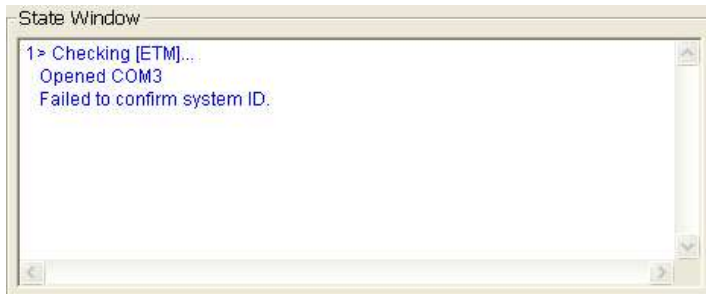
2) If Basic setup is not made yet, [Default] icon is activated.

※ Basic setup method

- Click [Default] icon → Click [Apply] icon → Enter initial Password "0000"

3) If setup is finished, click [OPEN PORT] or [Reconnect] icon.

4) Confirmation of communication condition or ETM connection condition is available through condition windows.



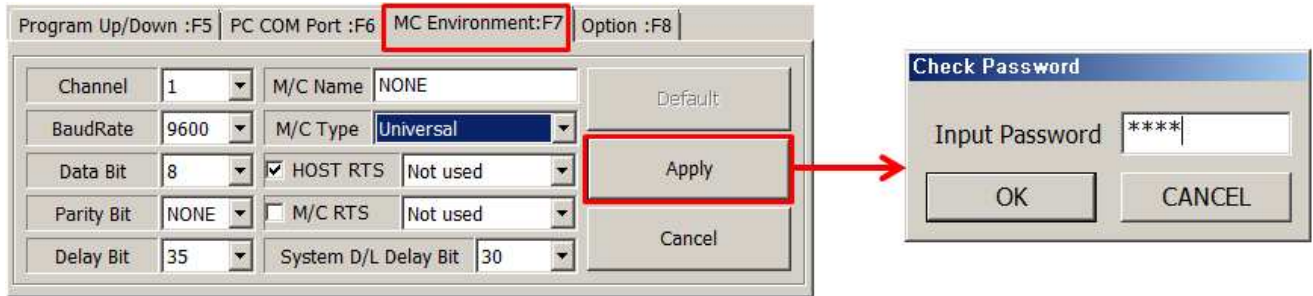
- ① Confirming communication : Search, confirm and show the port for ETM
- ② System ID confirm failure : Message for the failure to connect with M/C
- ③ Take following steps in case when communication port confirmation is not available.



Measure

1. Check the port NO. is set to "AUTO" on the PC communication port setup window.
2. Reconnect USB cable, and try to access again clicking [Reconnect] icon
3. Confirm the connection with UART serial port in the control panel.
→ Confirm the installation of silicon labs CP210x USB to UART bridge driver in com&LPT port.
4. Reinstall USB-UART driver if USB driver is not found.

3-3. MC Environment setup :F7



1) Set up the type of device.

2) It is recommended to communicate with [Default].

Method to setting up basic is identical to that of the PC communication port setup.

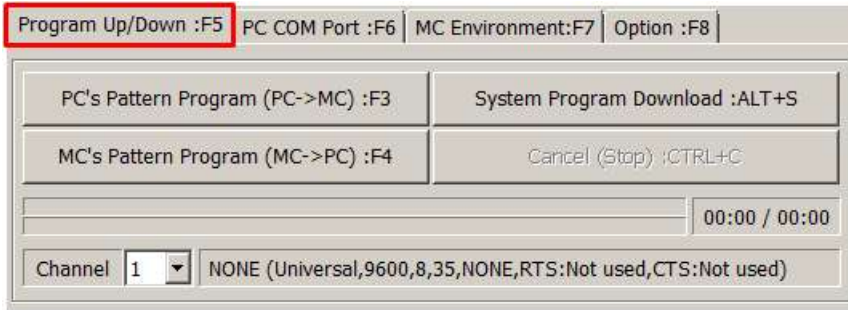
※M/C Name is designated by user.

3) If modifying value , click [Apply] icon and let the value is relevant to the program.

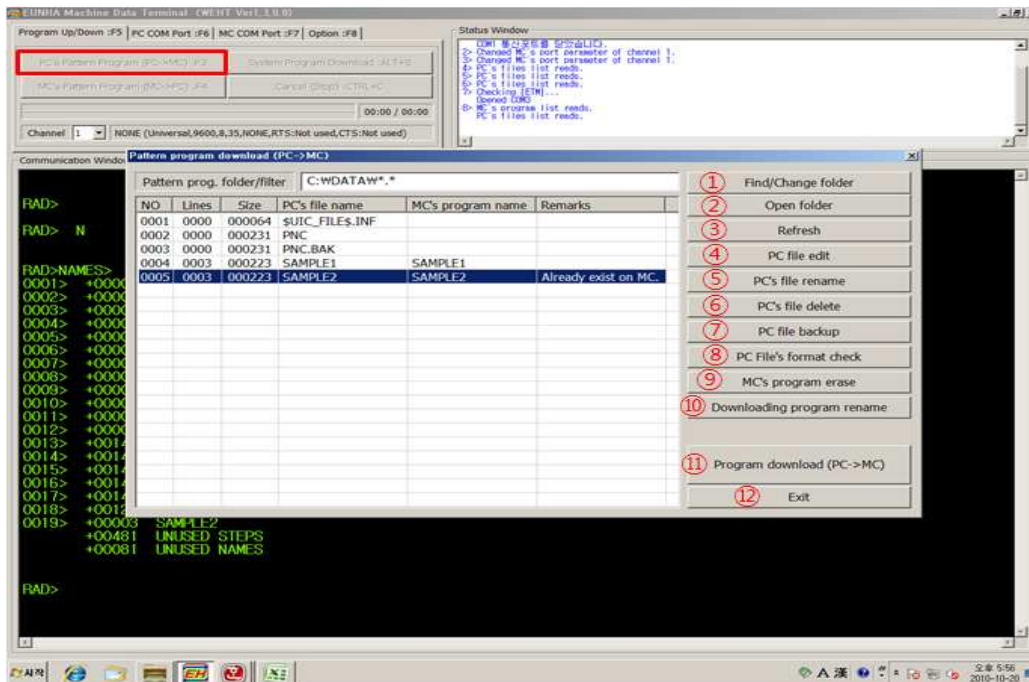
- System D/L delay bit is applicavle when download execute program.

3-4. PC's Pattern Program(PC→MC):F3

1) Choose [Program Up/Down: F5] tab like below.



2) Click the [PC's Pattern Program(PC→MC):F3] icon.



3) Functions of the icons

① [Find/Change Folder]



- Designate a folder which is capable of uploading or downloading production program, and save with clicking [OK] icon.

② [Open Folder]

- It is verifiable in the folder which was designated from the step [Find/Change Folder].

③ [Refresh]

- Working state of the moment is displayed.

④ [PC file edit]

- Choose a file to edit → Click [PC file edit] icon → available to edit on the editing window → Save and click [refresh] icon → Editing is finished with displaying as modified file.

⑤ [PC's file rename]

- Choose a file to change the name → Click [PC's file rename] icon → Change file name and press enter.

⑥ [PC's file delete]

- Choose a file to remove → Click [PC's file delete] icon -> Removed

⑦ [PC file backup]

- Choose a file to copy → Click [PC file backup] icon -> Another same file is appeared.

⑧ [PC File's format check]

- The information related to the established device program file is displayed on the screen (number of lines)
- The information of files inspected, in case of UIC device, is saved to \$UIC.FILE\$.INF file. next time to read the file, related information is display at once. (In case of UIC device)

⑨ [M/C's program erase]

- Choosing a program registered on M/C → Clicking [Deleting M/C program] icon.

⑩ [Downloading program rename]

- Choose a file to change program name → Click [Downloading Program rename] icon → Input letter to change → Press enter → changed.

⑪ [Program download(PC →MC)]

- Choose file(s) to send to M/C → Click [program download] icon → Send

※If a sending file has identical name to that in a folder , message window is Appeared with error message like below.

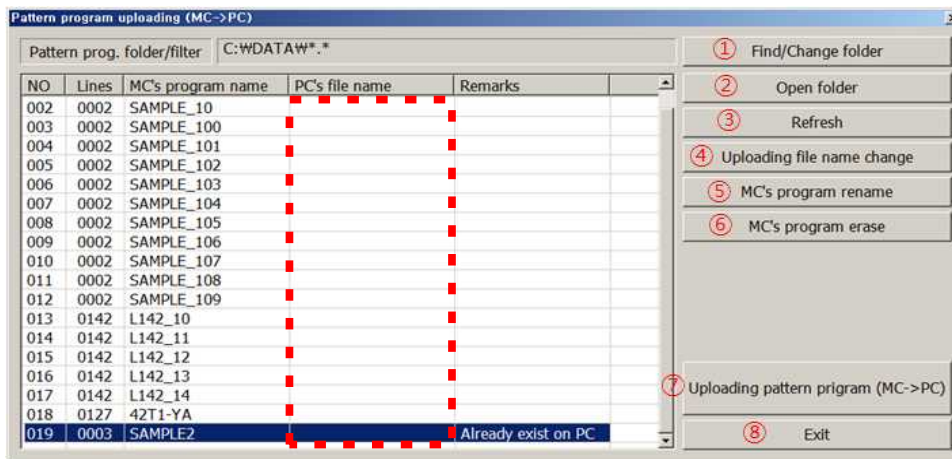
```
(예) VCD> IN SAMPLE2 ? : SAMPLE2 ALREADY IN MEMORY
```

⑫ [Exit]

- Sending production program window is closed.

3-5 MC's Pattern Program (MC → PC)

- 1) Choose [Program Up/Down : F5]
- 2) Click [MC's Pattern Program (MC → PC) :F4] icon
- 3) If a name of file is blank, it signifies the name of file is identical to the name of MC program, however a name of file is entered, the name of file is uploaded to the system.

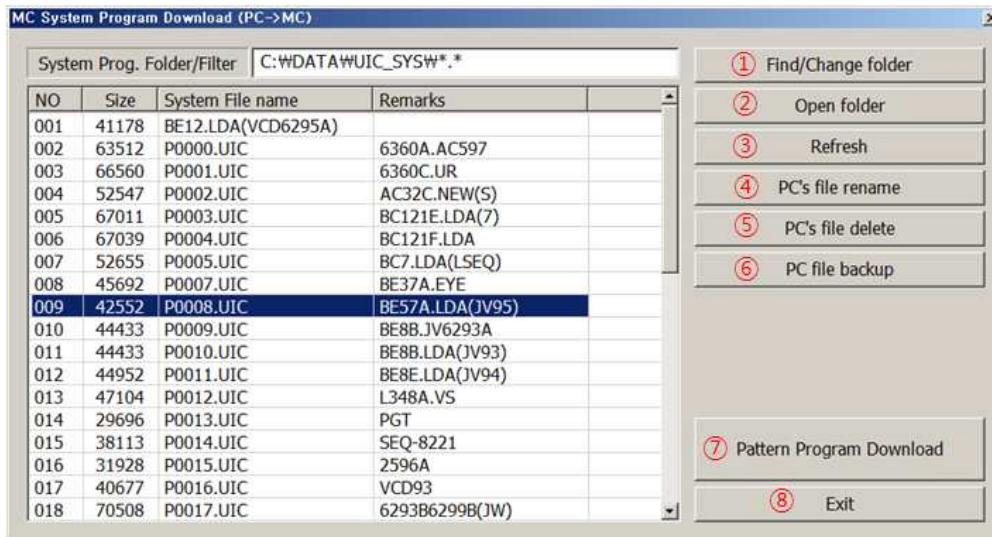


4) Functions of the icons

- ① [Find/Change Folder]
 - Setup a Folder To be uploaded or Downloaded.
- ② [Open Folder]
 - It is verifiable in the folder which was designated from the step [Find/Change Folder]
- ③ [Refresh]
 - Working state of the moment is displayed.
- ④ [Uploading file name change]
 - Choose a file to change the name → Click [Uploading file name change] icon → Change file name and click [Refresh] icon.
- ⑤ [MC's program rename]
 - Choose a file to change program name → Click [MC's program rename] icon → Input letter to change → Click [Refresh] icon.
- ⑥ [MC's program erase]
 - Choose a file to remove → Click [MC's program erase] icon → Removed.
- ⑦ [Uploading pattern program(MC->PC)]
 - Choose file(s) to receive from MC → Click [Uploading pattern program(MC->PC)] icon → Upload
 - ※ A program already Existed is changed to the new one.
- ⑧ [Exit]
 - A window of receiving production program from MC is closed.

3-6. System Program Download - ex) In case of UIC device

- 1) Choose [Program Up/Down : F5] tab
- 2) Click [System Program Download: ALT+S] icon



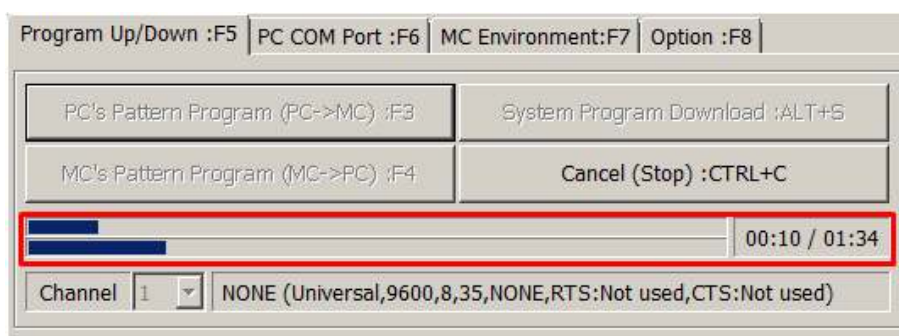
3) Functions of the icons

※Step 1 to 6 and step 8 are identical to those of sending and receiving program above.

⑦ MC System Program (PC→MC)

- Choose a execution program to MC → Click [Begin Download Pattern Program] icon

※Other option



- Available to check the upload or download time with displayed graph.

◆ UIC Execution Program Configured ◆

* **Reference** : Setup Message differs according to kind of machine, System Data's version etc..

RESTART UICS1

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SYSTEM IS NOT CONFIGURED; ENTER ONLY "SYSTEM<RETURN>" OR "HELP<RETURN>"

*> *SY*

*>SYSTEM>

PERIOD OF SYSTEM CLOCK ?

(USUALLY 1, 16, OR 20 (FOR 1.04 ms, 16.66ms, OR 20ms)) *1*

*>SYSTEM>

METRIC AXES ? (Y FOR YES, N FOR NO) *Y*

*>SYSTEM>

SYSTEM IDENTIFICATION ? (ONE TO THREE CHARACTERS) *VCD*

VCD>SYSTEM>

ENTER THE NUMBER OF PATTERN NAMES DESIRED

THE RANGE IS FROM 24 TO 100 NAMES *24*

VCD>SYSTEM>

LINE MACHINE TYPE

0001> STAND-ALONE VCD MACHINE CONTROL

USING THIS TABLE DEFINE THE MACHINES ON THE SATELLITE SYSTEM

SATELLITE MACHINE NUMBERS ARE FROM "1" TO "4"

ENTER AS <MACHINE-NUMBER>=<LINE-NUMBER-of-MACHINE-TYPE>

EXAMPLE: "1=1, 2=2<RETURN>"

(NOTE: ENTER "1=0<RETURN>" IF NO MACHINES ARE ON SYSTEM)

VCD>SYSTEM> *1=1*

VCD>SYSTEM>

UICS 1.3.2EMO

PROGRAM MIX 455102-012 REV-

40408900R 12/01/93 DUAL HEAD VCD (6294-97,91,81,82,84,85,6185,86,87)

41974800 06/10/86 VCD PATTERN CONVERSION ROUTINE

41601400B 01/20/87 BOARD ERROR CORRECTION 1 LIBRARY UICS

40651400 01/04/85 ERROR LOGGER

43037300 06/15/88 MACHINE SELF-DIAGNOSTICS OPTION UICS 1.3.1

43037200A 04/17/91 SATELINK II LOLINK UICS 1.3.1

45510200 11/04/93 UICS 1.3.2EMO BASE OPERATOR

01 MSEC CLOCK

0 TAPE PUNCHES

0 TAPE READERS

1 DATA LINKS

1 OPERATOR TERMINALS

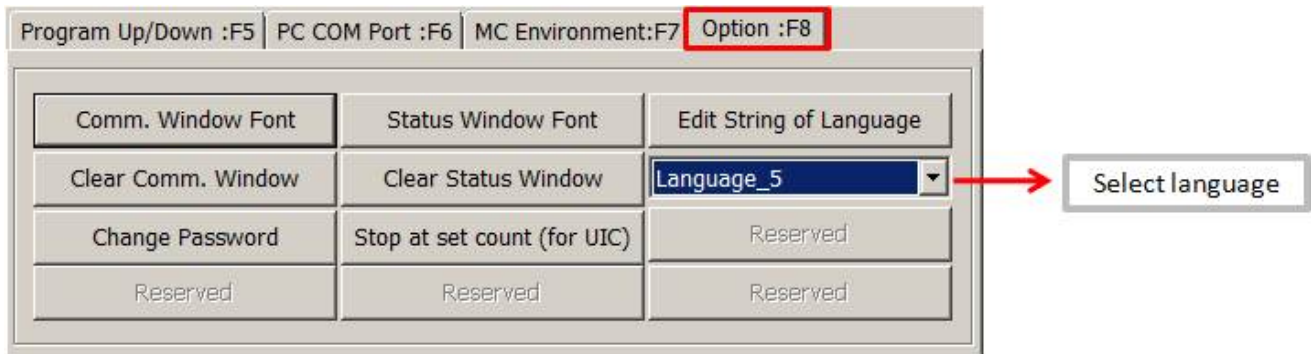
0 MACHINE TERMINALS

METRIC AXES

0001> STAND-ALONE VCD MACHINE CONTROL

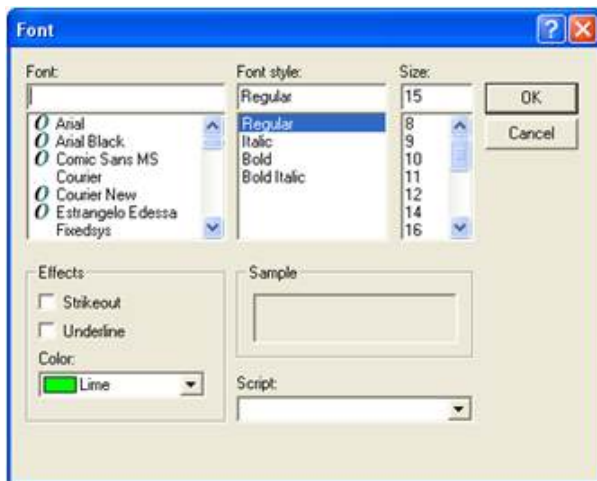
3-7. Option.

1) Click [Set Environment : F8] icon



2) Functions of the icons

① [Comm.Window Font],[Status Window Font]



② [Clear Comm.Window], [Clear Status Window]

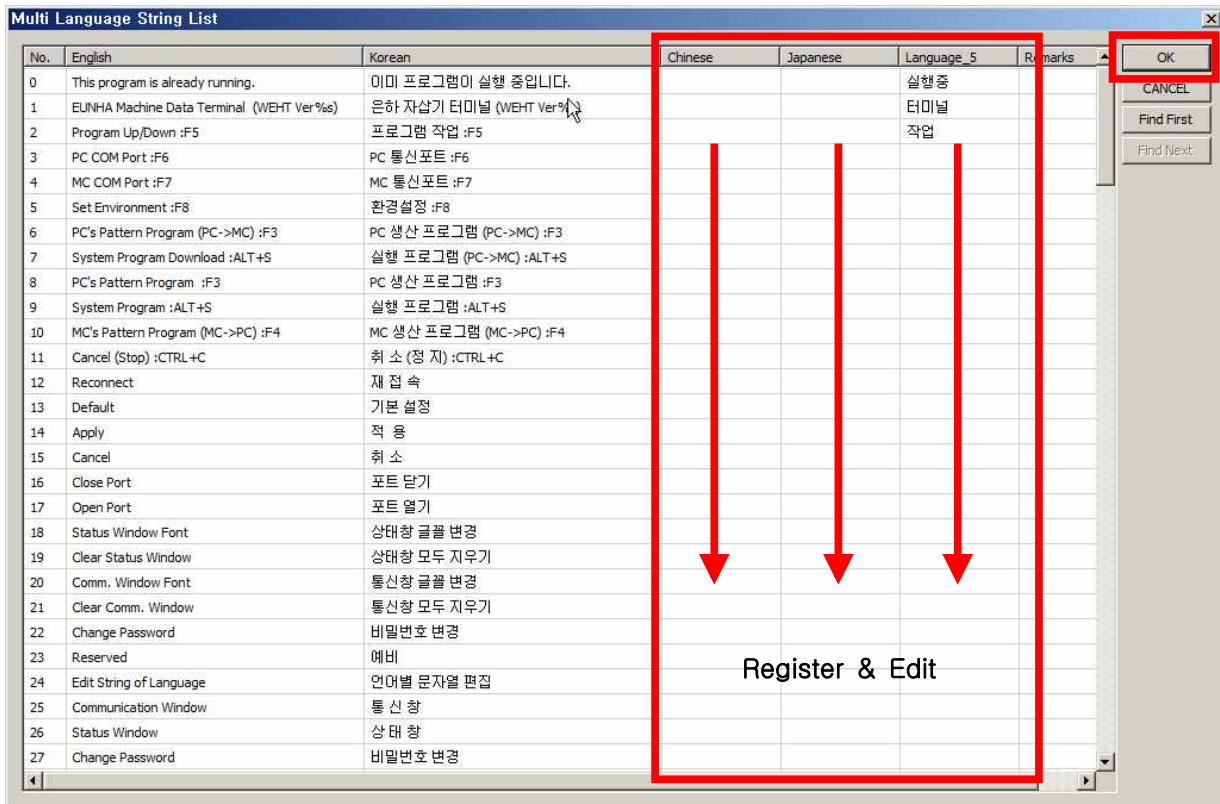
- Clear all letters displayed on current window and communication window

③ [Change Password] : Initial password is "0000"



- Current Password: Available password at the moment - 4-digit
- New Password : Password to be used - 4-digit
- Confirm Password: Confirm a new password and click [OK] icon

④ Edit String of Language



※ A tool which enables for user edit languages used in WEHT program.

1. English and Korean are available at the moment – not able to edited.
2. From chinese to 5TH language are capable of writing and editing.

※ Registering & Editing language

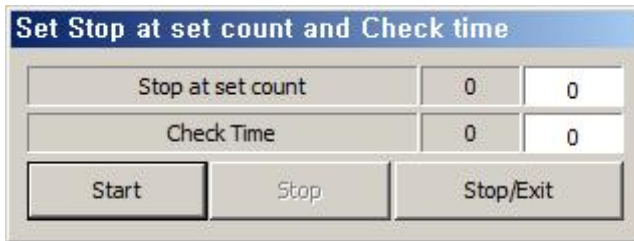
1. Choose a space to register a language
2. Write a language that is suitable for the meaning of english or korean.
CAUTION: A line containing %s or %d in a letter requires to be contained as a variable.
(%s: Variable for letter, %d: Variable for number)
3. Registering space, english character is displayed
4. Click [OK] icon → Choose a language on option menu
5. Apply to program.

※ CAUTION: C:\WProgram files\WEUNHA ELEWWEHT\WEHT_M?????.TXT

The text file above is used to control program language, which is created when editing language.

If the name or the location is changed, user is no longer capable of using edited language.

- ⑤ Stop at set count(UIC device only) – After entering detection interval & stop setting count, it is Activated with Clicking Start icon.



1. Check Time(Unit : sec) – User setting

2. Stop at set count – If user sets the number, the data of production machine is checked in accordance with the number.

An order to stop production is delivered when the number of produced goods is same or exceed.

4. ETM Module Lamp explanation

- Power / ON LINE Lamp –Red light flickers : Power on
 –Yellow light flickers : On line with ETM Module.
- Status RX/TX Lamp –Green light flickers : Data is transferred PC ↔ MC
 –Red light flicker : Buffer over

5. Cable connection diagram

ETM to Universal Serial Port – Cable connection diagram (10m)

(ETM10A – RS232 9PIN(-))		(Universal MACHINE 25PIN(-))
(RX) 2 (RED)	<-----	2 (TX)
(TX) 3 (YEL)	----->	3 (RX)
(GND) 5 (BLK)	-----	7 (GND)