This chapter introduces the system parameter settings.

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5.1. Overview

Launch EasyBuilder Pro, in the main menu select [Home] » [System Parameters] to open the [System Parameter Settings] dialog box. System Parameter Settings are divided into several tabs, these tabs will be introduced respectively in this chapter.

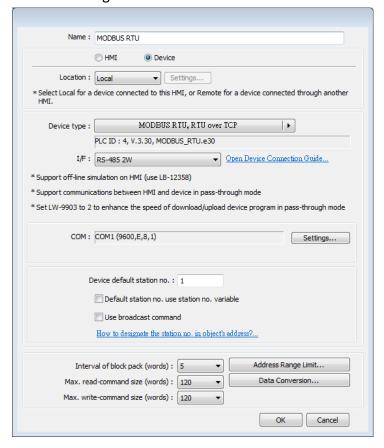
5.2. Device

Parameters in this tab determine the attributes of each device connected with HMI. The device can be a Local / Remote HMI / PLC. A default device "Local HMI" exists when creating a new project. This device is the HMI that will be updated and programmed.

5.2.1. How to Control a Local PLC



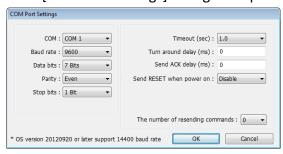
"Local Device" is a device connected to the local HMI. To control/connect a Local Device, add this type of device first. Click [System Parameters] » [New] to open [Device Properties] dialog box. For example, when connecting MODBUS RTU as a Local Device:





| Setting | Description |
|---|---|
| Name | The name of the device. |
| HMI / Device | In this example a device is used, so select [Device]. |
| Location Select [Local] or [Remote]. In this example the device i | |
| | connected to the Local HMI, so select [Local]. |
| Device type | Select the type of the device. |
| I/F The available interface: [RS-232], [RS-485 2W], [RS-4 | |
| | 4W], [Ethernet], [USB], and [CAN Bus]. |

 If the interface used is [RS-232], [RS-485 2W], or [RS-485 4W], configure communication parameters by clicking [Device Properties] » [Settings] and then [Com Port Settings] dialog box opens.



Timeout

If the communication has been disconnected for more than preset time limit configured in [Timeout] (in sec), Window No. 5 will pop up and show "Device No Response" message.

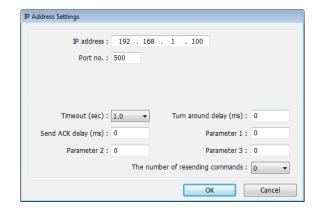
Turn around delay

While sending the next command to the device, HMI will delay the sending according to the time interval set in [Turn around delay]. This may influence the efficiency of the communication between HMI and the device. Default value is "0".

Note: If the device used is SIEMENS S7-200 Series, it is recommended to assign "5" to [Turn around delay] and "30" to [Send ACK delay].

 If the interface used is [Ethernet], click [Device Properties] » [Settings] and the [IP Address Settings] dialog box opens. Please set correct device IP address and port number.



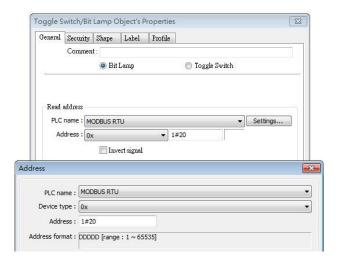


- If the interface is [USB], no further setting is required. Please check the settings in [Device Properties].
- If the interface is [CAN (Controller Area Network)
 Bus], please see "Device Connection Guide" for "CANopen" and import the .eds device file.

Device default station no.

Set the default station number for device address if the device station number is not included in the address. Device station no. can be set in its address. The address format: ABC#Addr

ABC stands for device station number and ranges from 0 to 255. Addr stands for device address. And the "#" sign separates the station number and the address. As shown in the following figure, the data is read from device station number 1, and address 0x-20.



Default station no. use station no. variable

Use the station number variables as the default device station number. Select one from LW-10000 to LW-10015 (var0 to var15) as the station number variables. If the

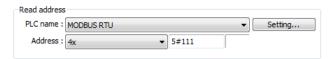


station no. is not specified in device address, the station number will be determined by the station no. variable. For example, if var3 is set for default station no:



The followings demonstrate some examples:

• The device station number is "5".



 The device station number is determined by var7 (LW-10007)



 Device address is set to "111", since device station no. is not specified, and the default station no. is var3, the device station no. is determined by var3 (LW-10003).



Click the icon to download the demo project. Please confirm your internet connection before downloading the demo project.

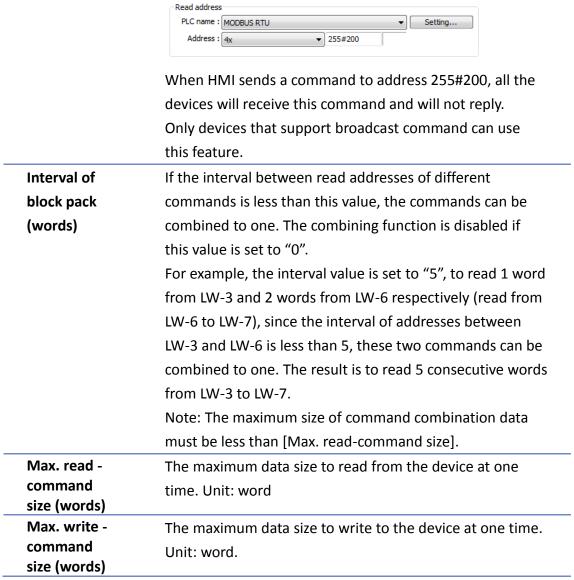
Use broadcast command

When [Use broadcast command] check box is selected, please fill in [Broadcast station no.] according to the broadcast station number defined by the device. When HMI sends a broadcast command to the station number set here, the device will only receive the command and not reply to HMI.



As shown in the following figure:





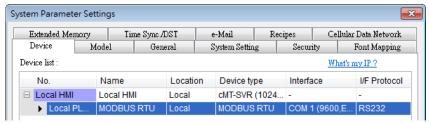
After all settings are completed, a new device named "Local PLC 1" is added to the [Device list].





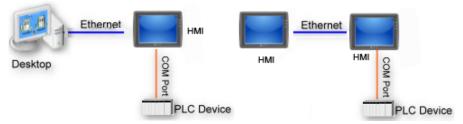
■ When using cMT, select "Local HMI" in [System Parameter Settings] dialog box and then click [New Device] to add a "Local PLC 1" under "Local HMI".



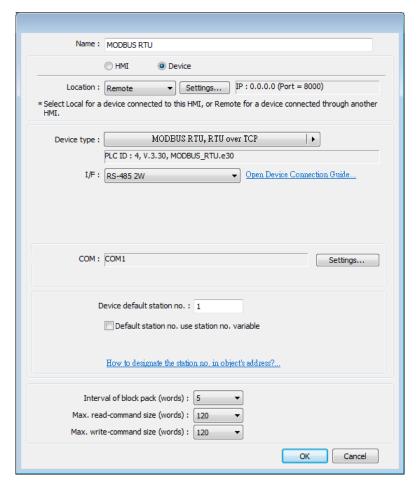


Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.

5.2.2. How to Control a Remote Device



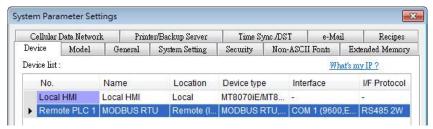
"Remote Device" is a device being connected to a remote HMI. To control a remote device, add this type of device first. Please click [System Parameters] » [New] to open [Device Properties] dialog box. For example, use MODBUS RTU as the Remote Device:





| Setting | Description | |
|----------------------------------|--|--|
| HMI or Device | In this example, a device is used, so select [Device]. | |
| Location | Select [Local] or [Remote]. In this example the device is connected to Remote HMI, so select [Remote]. Set the IP address and port number of the Remote HMI by clicking [Settings] next to [Remote]. | |
| | IP Address Settings | |
| Device Type | Select the type of the device. | |
| I/F | The interface used for Remote Device. If the remote device uses a COM port, select [RS-232], [RS-485 2W], or [RS485 4W]. | |
| СОМ | Set the correct COM port used by the Remote Device. | |
| Device default station no. | Set the station number of Remote Device. | |

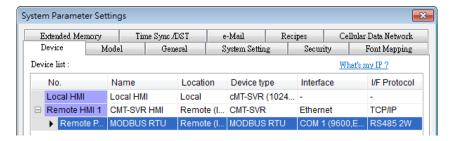
After all settings are completed, a new device named "Remote PLC 1" is added to the [Device list].





When using a cMT Series model, select the defined "Remote HMI 1" in [System Parameters] dialog box and then click [New Device] to add a "Remote PLC 1" under "Remote HMI 1".



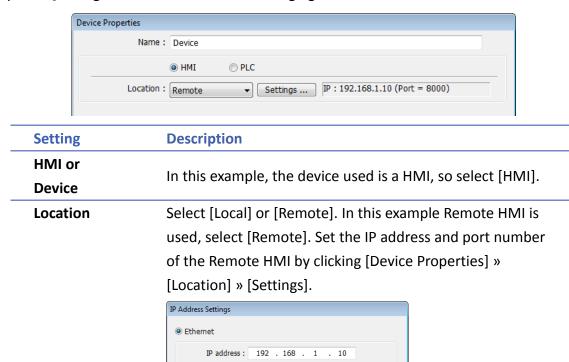


Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.

5.2.3. How to Control a Remote HMI



"Remote HMI" is the HMI other than "Local HMI", and PC is also a "Remote HMI". To control a Remote HMI, add this type of device first. Click [System Parameters] » [New] to open [Device Properties] dialog box as shown in the following figure:



After all settings are completed, a new device named "Remote HMI 1" is added to the [Device list].

OK

Cancel

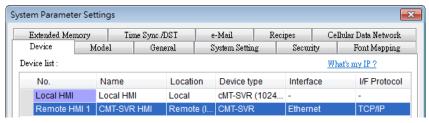
Port no.: 8000







When using a cMT Series model, in [Device list] click [New HMI] to add a "Remote HMI 1".



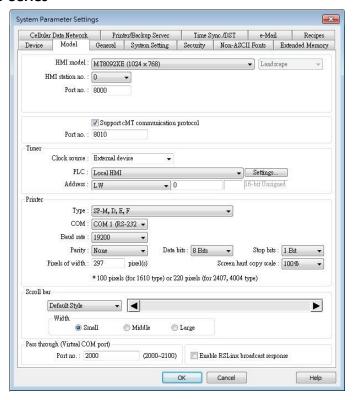
Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.



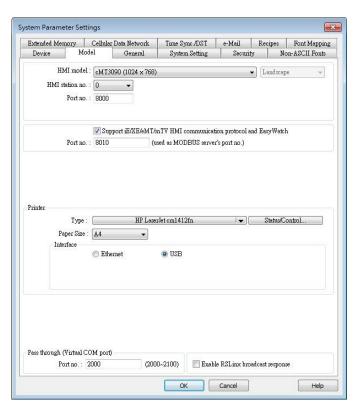
5.3. Model

Configure the [HMI model], [Timer], [Printer] and [Scroll bar] settings, and more.

eMT \ iE \ XE \ mTV Series



cMT Series



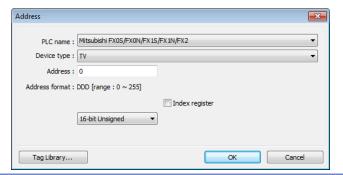


| Setting | Description | | | |
|---------------------------|---|--|--|--|
| HMI model | Select an HMI model. | | | |
| | The [Resize pop-up windows / objects] dialog box will pop | | | |
| | up when changing to a model with a different resolution. | | | |
| | Select required adjustment and click [OK]. In most cases, | | | |
| | select all options. | | | |
| | Resize pop-up windows/objects General windows Resize pop-up windows Resize objects Keyboard windows Resize keyboard windows Resize function key objects OK Cancel | | | |
| | Landscape/Portrait | | | |
| | Change the orientation of the project. | | | |
| HMI station no. | Set the station number of current HMI. The default value is "0". | | | |
| Port no. | Set the port number of current HMI. The default value is "8000". | | | |
| Support cMT communication | Supports communication with cMT Series models. cMT | | | |
| protocol | Series project file should use the same communication port. | | | |
| Timer | Clock source | | | |
| | Set the source device of the clock/time information. It is | | | |
| | used by [Data Sampling], [Event Log], etc. | | | |
| | If [HMI RTC] is selected, the time information comes | | | |
| | from the internal clock of the HMI. | | | |
| | If [External device] is selected, the time information | | | |
| | comes from an external device. The address of the | | | |
| | source device must set correctly. As shown below, the | | | |
| | time information is from "TV" address type of the | | | |
| | "Local PLC". The addresses of "TV" start from 0 and | | | |
| | contain 6 consecutive words and each of them store | | | |
| | the following information: | | | |
| | TV 0 \rightarrow Second (range: 0~59) | | | |
| | TV 1 \rightarrow Minute (range: 0~59) TV 2 \rightarrow Hour (range: 0~23) | | | |
| | TV 3 \rightarrow Day (range: 1~31) | | | |



TV 4 \rightarrow Month (range: 1~12) TV 5 \rightarrow Year (range: 1970~2037)

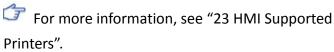




Printer (eMT, iE, XE, mTV)

Type

A printer can be connected with the HMI. The HP PCL Series printer is connected through USB interface while other printers through a COM port.



If the printer is connected through [COM], configure the parameters correctly. If the printer type is [SP-M, D, E, F], the [pixels of width] has to be set accurately, i.e. the set pixel(s) cannot exceed printer's default setting, or the HMI will fail to print data.

Printer (cMT Series)

The printer driver can be installed on HMI.

Type

Select printer type.

Status address

Shows printer status.

| LW-n | Status |
|--------|--------------------------------------|
| 0 | Printer driver is not installed yet. |
| 1 | Installing printer driver. |
| 2 | Printer is ready. |
| 3 | Printer is printing. |
| 4 | Print job is canceled. |
| LW-n+1 | Error |
| 0 | None |
| 1 | Printer is not found. |
| 2 | Unknown error. |

Control address



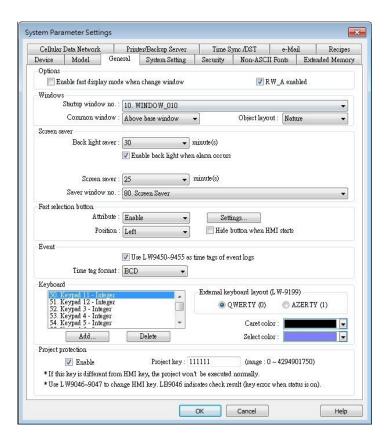
| Pass through (Virtual COM | Set the port number for Pass-through communication. | | |
|------------------------------|--|---|--|
| | Display, and | d Option List. | |
| | scrolling, su | uch as Alarm Display, Event Display, History Data | |
| | object. This | s feature can be applied to objects that allow | |
| | small to dis | splay the contents, a scroll bar is displayed in the | |
| Scroll bar | Set the wid | Ith of Scroll Bar, when the size of the object is too | |
| | | sent. Using tested models is recommended. | |
| | | e to run the printer since the corresponding | |
| | Please note that using only the ppd file for a printer may | | |
| | LW-n+6 | Port (Default port number: 9100) | |
| | LW-n+2 | IP address (Total: 4 words) | |
| | 1 | USB | |
| | 0 | Ethernet | |
| | LW-n+1 | 1/0 | |
| | 2 | Restart printer driver. | |
| | 1 | Update connection parameters. | |
| | 0 | None | |
| | LW-n | Command | |

5.4. General

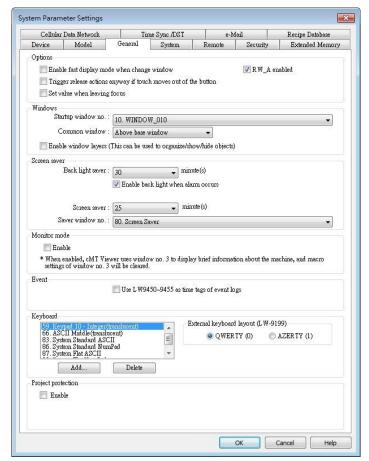
Configure the properties related to screen display.

eMT, iE, XE, mTV Series





cMT Series





| Setting | Description |
|---------|---|
| Options | Enable fast display mode when change window |
| | With this option selected, certain objects will cache the |
| | most recent value and display it after changing window, to |
| | achieve fast display. |
| | The objects are: Bit Lamp, Word Lamp, Numeric, ASCII, Bar |
| | Graph, Meter Display, Animation, and Moving Shapeetc. |
| | RW A enabled |
| | Enable or disable recipe data RW A. Enable this, the |
| | objects can then control RW A .The size of RW A is 64K. |
| | Trigger release action anyway if touch moves out of the |
| | button. (cMT Series) |
| | With this option selected, releasing the finger after |
| | touching the button and then sliding the finger out of the |
| | button area is still considered as button release; its release |
| | action(s) will be triggered. |
| | Set value when leaving focus |
| | With this option selected, values will be written upon |
| | leaving the input mode of an object (e.g. Numeric object), |
| | even if not by pressing the ENTER key. For example, data |
| | entry for the current numerical object is considered |
| | completed and value is written when one selects another |
| | object to enter value. An alert message shows when an |
| | invalid value is entered. |
| Windows | Startup window no. |
| | Designate the window shown when start up HMI. |
| | Common window |
| | The objects in the common window (Window No. 4) will be |
| | shown in each base window. This determines that the |
| | objects in common window are placed above or below the |
| | objects in the base window. |
| | Object layout |
| | If [Control] mode is selected, when operating HMI, |
| | [Animation] and [Moving Shape] objects will be displayed |
| | above other kinds of objects neglecting the sequence that |
| | the objects are created. If [Nature] mode is selected, the |
| | display will follow the sequence that the objects are |
| | |
| | created, the first created will be displayed first. |
| | - • |
| | |
| | |
| | Enable window layers (This can be used to organize/show/hide objects) With this option selected, layers within a window can be created in the window tree. |



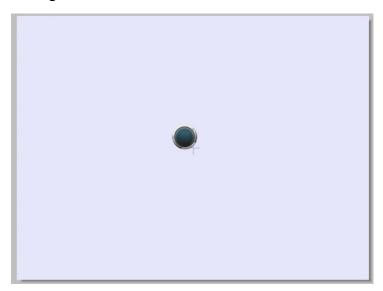
At most 10 layers can be added to a window.

As shown in the following rigure, right-click on a window number and then select [Add layer].



The following is an example of creating a layered window: Place a Bit Lamp object in Layer 1 and a Numeric object in layer 2.

Selecting Layer 1 shows only the Bit Lamp object in the editing window.

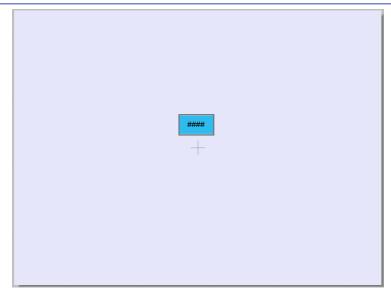


Selecting Layer 2 shows only the Numeric object in the editing window.

```
+10: WINDOW_010

| Super 1 (Bottom)
| BL_0 (LB-0) (Bottom)
| Layer 2
| NE_0 (LW-0)
```





Selecting window 10 shows all objects.

```
+10: WINDOW_010
Layer 1 (Bottom)
BL_0 (LB-0) (Bottom)
Layer 2
NE_0 (LW-0)
```



Screen saver

Back light saver

If the screen is left untouched and reaches the time limit set here, the back light will be turned off. The unit is minute. Back light will be on again once the screen is touched. If [none] is set, the back light will always be on.

Screen saver

If the screen is left untouched and reaches the time limit set here. The current screen will automatically switch to a window assigned in [Saver window no.]. The setting unit is minute. If [none] is set, this feature is disabled.



| | Saver window no. | |
|-----------|--|--|
| | To assign a window for screen saver. | |
| Fast | This setting is applicable for eMT, iE, XE, mTV, and iP Series. | |
| selection | Setting the attributes for fast selection button for Window | |
| buttons | No. 3. To use the fast selection button, create Window No. | |
| | 3 first. | |
| | Attribute | |
| | Enable or disable fast selection window. Select [Enable] and | |
| | click [Settings] to set the attributes, including color and text | |
| | of the button. | |
| | Position | |
| | Select the button position on the screen. If [Left] is chosen, | |
| | the button will show at bottom left side of the screen; if | |
| | [Right] is chosen, the button will show at the bottom right | |
| | side of the screen. | |
| | Settings | |
| | Set the shape and label font of the Fast Selection Button. | |
| | Hide button when HMI starts | |
| | The Fast Selection Button will be hidden, calling it out | |
| | requires system registers LB-9013~LB-9015. | |
| Monitor | This setting is applicable for cMT Series. | |
| Mode | Window no. 3 in the project is monitored in this mode in | |
| | cMT Viewer. The user can select up to 50 cMT Series HMIs | |
| | to monitor in cMT Viewer, and in 3x3 or 5x4 tile view. | |
| Event | Use LW9450~9455 as time tags of event logs | |
| | When this option is selected, Event Log will use the | |
| | following time tags to show the time that the event is | |
| | triggered. | |
| | LW-9450: time tag of event log – second (range: 0~59) | |
| | LW-9451: time tag of event log – minute (range: $0^{\sim}59$) | |
| | LW-9452: time tag of event log – hour (range: 0^2 3) | |
| | LW-9453: time tag of event log – day (range: $1^{\sim}31$) | |
| | LW-9454: time tag of event log – month (range: 1~12) | |
| | LW-9455: time tag of event log – year (range: 1970~2037) | |
| | Please note that the system will not be able to use these | |
| | time tags when one of them exceeds acceptable range. | |
| | Click the icon to download the demo project. Please | |
| | confirm your internet connection before downloading the | |
| | demo project. | |
| Keyboard | The window number in which the keyboard is placed. | |
| Reyboard | When using Numeric Input or ASCII Input objects, the type | |
| | of keyboards can be selected. Up to 32 keyboards can be | |
| | or keyboards can be selected. Op to 32 keyboards can be | |



added. To design a keyboard, a window should be designated for creating it. Press [add] after creating, and add the window to the list.



See "12 Keyboard Design and Usage".

External keyboard layout

The available USB keyboard layouts are QWERTY and AZERTY. System register LW-9199 allows switching keyboard layouts on HMI.

Caret color / Select color

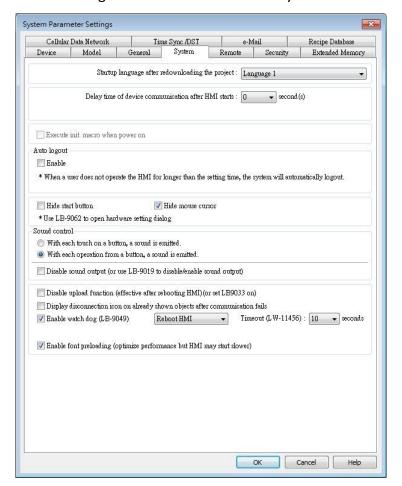
This setting is applicable for eMT, iE, XE, mTV, and iP Series. Set the color of caret that appears when entering data in Numeric Input and ASCII Input objects, or change the selection color.

Project protection Projects can be restricted to be executed by a specific HMI.

See "30 Project Protection".

5.5. System Setting

[System Setting] is used to configure different features of EasyBuilder Pro.





Some features are duplicated from system registers, such as, [Hide system setting bar (LB-9020)], [Hide mouse cursor (LB-9018)], [Disable buzzer (LB-9019)], and [Disable upload function (LB-9033)]. Users can also set these features via system tag.

To select a system tag, select [Address] » [System tag] check box when adding a new object and then select the [Address Type].

To browse all the system tags, Select [Project] » [Tag] » [System] from the main menu of EasyBuilder Pro.

| Setting | Description |
|--|---|
| Startup language after redownloading the | Set the language to use when HMI starts after the project is re-downloaded. |
| project | |
| Delay time of device | Certain PLC models need relatively longer |
| communication after | startup time. In order to prevent |
| HMI starts | communication error that occurs when HMI |
| | attempts to communicate with a PLC that has |
| | not yet started, a delay time can be set. |
| | Include delaying the execution of all init. |
| | Macros when HMI starts. |
| | With this option selected, the macros that |
| | have [Execute one time when HMI starts] |
| | enabled will also be delayed. |
| Execute init. MACRO | Designate the macro to be executed when HMI |
| when power on | power on. |
| Auto logout | If leaving HMI untouched for longer than the |
| | set time, the objects protected by security |
| | classes will not be able to operate. The user ID |
| | and password must be entered again to unlock |
| | it. |
| Hide system setting bar | Hide the system setting bar in the bottom right |
| | corner of the HMI screen. |
| Hide mouse cursor | Hide the mouse cursor in HMI screen. |
| Mouse cursor size | Set mouse cursor size. |
| Sound control | With each touch on a button, a sound is |
| | emitted: A sound is emitted when touching a |
| | button. |
| | With Each operation from a button, a sound is |
| | emitted: When the [Min. press time] is |
| | specified, there may be a time gap between |
| | touching the object and the action of the |

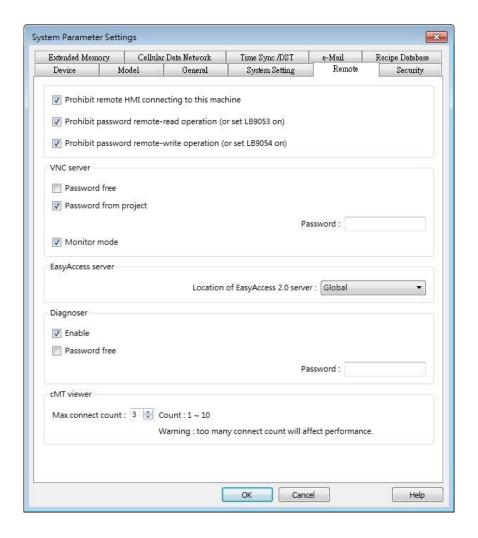


| Disable upload function (effective after rebooting HMI) (or set LB9033 ON) | object. With this option selected, the sound is emitted when the object actions. Disable sound output: Mute HMI. (Not including the sound played when tapping system setting button on HMI.) Disable HMI to upload project. |
|--|--|
| Use a disconnection icon or relative objects when device communication fails | If selected, a disconnection icon is displayed on relevant objects when failing to communicate with the device. This icon will be shown in the lower right corner of the object. This icon will only show for disconnection after successful connection. |
| Enable watch dog (LB-9049) | Watchdog automatically reboots the system after the HMI stops functioning for a specified period of time. |
| Enable font preloading (optimize performance but HMI may start slower) | (cMT Series only) With this option selected, the speed of changing windows that contain more texts is optimized. Please note that using this feature may slow down HMI boot time. |

5.6. Remote

Parameters in this tab configure remote connections. Certain functions can be carried out using system registers.





| Setting | Description |
|------------------------|--|
| Prohibit remote HMI | Prohibit the connection with a remote HMI. |
| connecting to this | The remote HMI will not be able to control the |
| machine | local HMI. |
| Prohibit password | Prohibit Remote HMI to read Local HMI's |
| remote-read operation | project password and user password. |
| (or set LB9053 ON) | |
| Prohibit password | Prohibit Remote HMI to write to Local HMI's |
| remote-write operation | project password and user password. |
| (or set LB9054 ON) | |
| VNC Server | If [Password free] check box is selected, the |
| | client can connect with HMI via VNC without |
| | entering the password. |
| | If [Monitor mode] check box is selected, the |
| | HMI connected via VNC can only be monitored |
| | but not controlled. |



5-24 **System Parameter Settings**

| | If [Password from project] check box is |
|--------------------|--|
| | selected, set the password for VNC login. |
| Easy Access server | Login EasyAccess 1.0 server: |
| | Through this technology, users can easily |
| | access to any HMI connected to the internet |
| | and operate them on PC just like holding touch |
| | screen in hand. |
| | Easy Access does not transmit updated graphic |
| | images directly but only the real time data. |
| | This makes transmission really quick and |
| | efficient. Please refer to "EasyAccess Manual" |
| | for more information. |
| | Location of EasyAccess 2.0 server: |
| | Current location includes Global and China. |
| | Click the icon to watch the demonstration |
| | film. Please confirm your internet connection |
| | before playing the film. |
| Diagnoser | Enable |
| | When selected, cMT Viewer will allow |
| | diagnostic operations when connecting to a |
| | cMT model. System register LB-12656 can also |
| | be used to control Diagnoser. |
| | Password free |
| | Enabling Disgnoser will not require password |
| | login. System Register LB-12657 can also be |
| | used to set whether a password is required. |
| | Password |
| | Enter the password for logging in Diagnoser. |
| | System register LW-11756 (4 words) can also |
| | be used to set this password. |
| cMT Viewer | Max connect count |
| | Allows specifying the allowable number of cMT |
| | Viewer connections for a local cMT HMI. |

5.7. Security

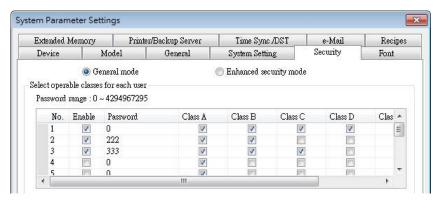
Parameters in this tab configure the user passwords and security classes. There are two authentication modes: General Mode and Enhanced Security Mode.



For more information, see "10 Security".



5.7.1. General Mode



Up to 12 sets of user and password are available. Password should be one non-negative integer. Once the password is entered, the objects that the user can operate are classified.

There are six security classes available: A to F.

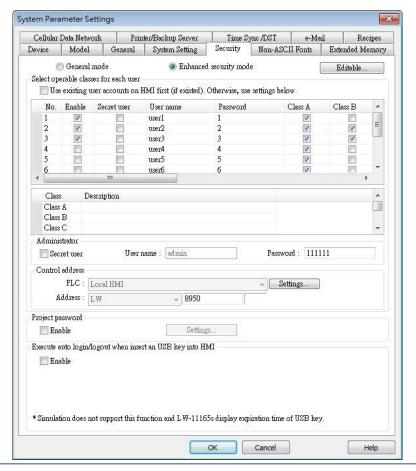
If [None] is selected for an object, every user can access this object.

For example, when the security class of User No. 3 is set as the preceding figure, User No. 3 could only access objects of classes A, B, C and "none".

5.7.2. Enhanced Security Mode

At most 11 users can be set here. An [Administrator] user is provided in this mode. An [Administrator] has all privileges and can operate all object classes. User passwords must be alphanumeric and each user can have up to 12 classes: A to L.





Setting

Description

Editable

Determines whether other users can change the password settings or see passwords.



Enable read-only

Under this mode, the settings can be viewed but not changed.

Mask password

Passwords are masked by asterisks (*).

Select operable classes for each user

When [Use existing user accounts on HMI] check box is selected, the user accounts existing on HMI will not be erased after downloading the project file to HMI.

Administrator

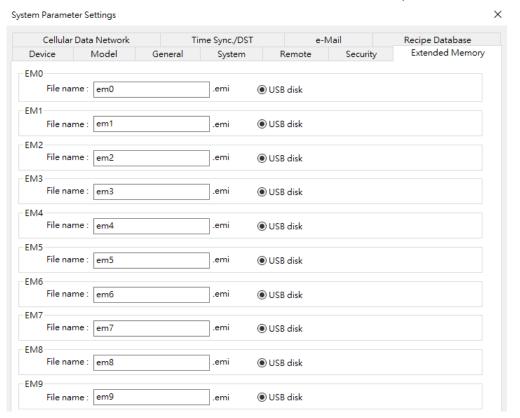
Default administrator account, cannot be deleted, has all privileges, and cannot be changed. Enhanced Security Mode can be used with Option List object. It displays the account names and privileges. If [Secret



| | user] is checked, the account names and privileges will be hidden in Option List. |
|---|---|
| Control address | An address for users to manage the accounts directly on HMI. |
| Project password | When this password is enabled, it has to be entered before editing the project file. Select [Enable] and then click [Settings] to set the password. |
| Execute auto. Login/logout when insert an USB key into HMI | This feature allows automatic login / logout using an USB security key. The login / logout status will be written into a designated address. Insert the USB disk to HMI to log in, and remove the USB disk to log out. The result codes of login / logout: 0x00: No action, 0x01: Login succeeds, 0x04: Login fails, 0x08: Logout succeeds, 0x10: Logout fails. |

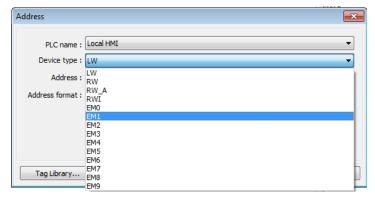
5.8. Extended Memory

Parameters in this tab determine the location of the extended memory.



Extended Memory is numbered from EM0 to EM9. It works in a way similar to other device types (i.e. LW or RW address). Users can simply select from EM0 to EM9 in the [Device type] list while creating a new object. Maximum allowable data size for each Extended Memory is 2G words.





Data in the extended memory is saved as a file into [SD card] or [USB disk]. By default, the files in [EM0] to [EM9] are with the file names "em0.emi" to "em9.emi" respectively, although users are free to change the file names. To open these files and edit the data in the extended memory, RecipeEditor.exe may be used.

Data in the extended memory will not be erased when HMI power is cut, which means data in the extended memory remains the same as before power off when HMI is started again. This is a behavior similar to recipe data (RW, RW_A).

When the device used as extended memory does not exist, reading the data in the extended memory will get "0", and writing data to the extended memory will display "Device no response" message on HMI.

Cutting HMI power is not necessary for inserting or removing the external device to or from HMI, making it easy for users to immediately update or obtain data in the extended memory.

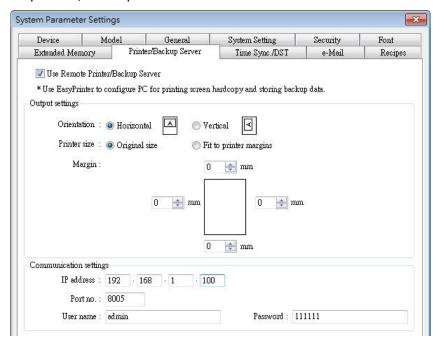
Click the icon to watch the demonstration film. Please confirm your internet connection



before playing the film.

5.9. Printer / Backup Server

Configure remote printer / backup server.



| Setting | Description |
|---------------|--|
| Output | Orientation |
| settings | Set how will words or pictures be printed out, [horizontal] or [vertical]. Printer size |
| | Set to print out in [Original size] or to [Fit to printer margins]. Margin |
| | Set the top, bottom, right and left margin width. |
| Communication | IP address |
| settings | Assign the IP address of the printer via network. |
| | [Port], [User name], [Password] |
| | Specify the data to log in server. |
| | Port can be set from 1 to 65535. |
| | Maximum length of user name or password is 12 characters. |



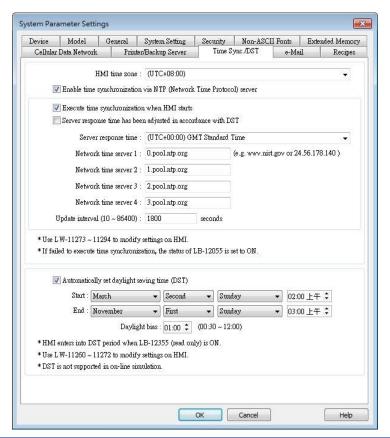
For more information, see "26 EasyPrinter".

Click the icon to download the demo project. Please confirm your internet connection before downloading the demo project.



5.10. Time Sync./DST

Synchronize HMI time with NTP server.



| Setting | Description |
|------------------|--|
| HMI time zone | Select HMI time zone. |
| Enable time | Execute time synchronization when HMI starts |
| synchronization | Automatically synchronizes HMI time with the |
| via NTP (Network | designated NTP server when HMI starts. |
| Time Protocol) | Server response time |
| server | Select NTP server time zone. |
| | Network time server |
| | Provides four fields to fill in Network Time Servers for |
| | user's device. If the synchronization with server 1 fails, |
| | the system will try to synchronize with server 2, and so |
| | on. If HMI time cannot synchronize with any of the |
| | Network Time Servers, the system register LB-12055 will |
| | change to ON status. |
| | Update interval |
| | The frequency of synchronization, the range is from 10 to |



| | 86400 seconds. |
|-------------------|--|
| Automatically set | Start / End |
| daylight saving | Set the start/end of Daylight Saving Time. |
| time (DST) | The option [Last] may refer to the 5 th or 6 th week |
| | depending on the selected month. |
| | Daylight bias |
| | Set the time zone's offset during DST. |



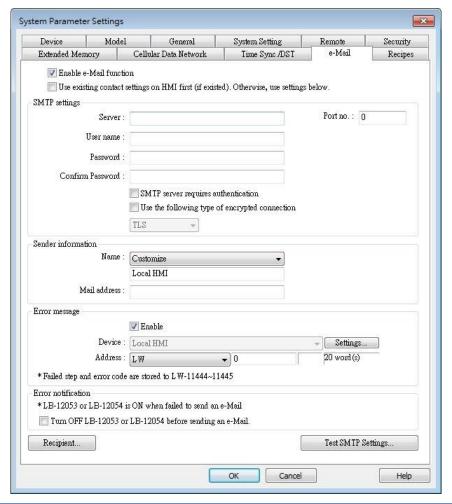
- When DST ends, and the time falls back, the Trend Display object in Real-time mode will stop refreshing for the overlapping hour(s) when it just going back to standard time. However, historical data will not be affected.
- When DST ends, adjusting HMI time (manually or by network) back to the DST period will not be effective to the system. The system register LB-12355 stays OFF.
- When DST ends, and the time falls back, the system will not start DST for the overlapping hour(s). The system register LB-12355 stays OFF.
- Before DST starts, adjusting HMI time (manually or by network) into the DST period will start DST. The system register LB-12355 will be set ON. The HMI time will be the specified time without adding the offset.
- During DST, adjusting HMI time (manually or by network) to a time that is not within DST period will end DST. The system Register LB-12355 will be set OFF. The HMI time will be the specified time without subtracting the offset.
- This feature does not yet support the DST in Southern Hemisphere.
- For more information on system registers relevant to DST, see "22 System Registers".

5.11. e-Mail

Select [Enable e-Mail function] check box to configure the parameters.

When [Use existing contact settings on HMI] check box is selected, the system will use the contact settings in HMI after downloading the project to HMI, or use the following settings when no contact is found in HMI.



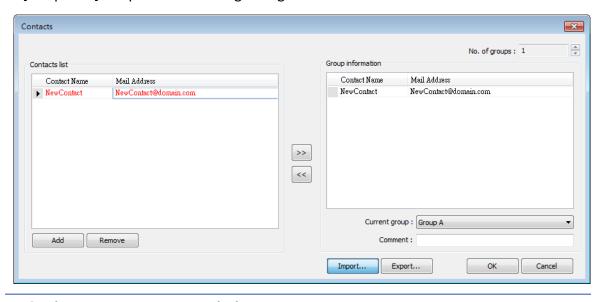


Setting **Description** Server: Set SMTP Server. **SMTP Settings** Port: Set communication port. User name: Set e-mail address. Password: Set e-mail password. Confirm Password: Confirm e-mail password. SMTP server requires authentication: Decide whether Secure Password Authentication is needed when log in e-mail. Use the following type of encrypted connection: Decide whether the encrypted connection (TLS, SSL) is needed when sending e-mail. Sender Name: Information Enter the sender name or use the local HMI name in the device list, or the name specified using system register LW-10884 (HMI name).



| | Mail Address: |
|---------------|--|
| | Setting e-mail address. |
| Error message | When an error occurs in email delivery, the error message |
| | sent from SMTP server can be shown in the designated |
| | address. |
| | For more information on system registers relevant to |
| | mail delivery, see "22 System Registers". |
| Error | Turn OFF LB-12053 or LB-12054 before send an e-Mail |
| notification | When enabled, system registers LB-12053 or LB-12054 will |
| | be turned off before sending e-mail, otherwise, when an |
| | error occurs in email delivery, the register remains ON. |
| Test SMTP | Verify SMTP settings in advance by sending a test email to |
| Settings | the specified e-mail address. |
| | |

Click [Recipients] to open the following dialog to edit contacts:



| Setting | Description |
|--------------|---|
| Contact list | Add or remove contacts from the list. |
| Group | Group up contacts. |
| Information | No. of groups: |
| | Set no. of contact groups, according to the number, the |
| | groups are named from A to P and up to 16 groups can be |
| | set. |
| | Current group: |
| | Displays the group that includes the contacts above. |
| | Comment: |
| | Enter a description for the current group. |





For more information on sending Event Log, see "7 Event Log".



For more information on e-mail related system registers, see "22.3.40 e-Mail".

Click the icon to watch the demonstration film. Please confirm your internet connection before playing the film.

Click the icon to download the demo project. Please confirm your internet connection before downloading the demo project.

5.12. Cellular Data Network

This tab is for setting cellular data. Cellular data network settings may differ from one model to another.

Applicable models:

cMT-SVR (OS ver. 20151127 or later)

cMT3072/cMT3090/cMT3103/cMT3151 (OS ver. 20180723 or later)

cMT-HDM/cMT-FHD (OS ver. 20190130 or later)

Attaching a 3G/4G USB dongle to the USB port enables the cMT-SVR to connect to 3G/4G networks.



| Setting | Description |
|----------------------|--|
| Use existing contact | If this check box is selected, the cellular data currently |
| settings on HMI | in HMI will be used. When no specific settings are |
| | required, generally, [PIN code] is "0000", [APN] is |
| | "internet", and [Username], [Password], [Dial number] |
| | are optional. |

The relevant registers:

LW-11297: (16 words): PIN code of SIM card (cellular network)
LW-11313: (16 words): Access Point Name (cellular network)

LW-11329: (16 words): username (cellular network)



LW-11345: (16 words): password (cellular network)
LW-11361: (16 words): dial number (cellular network)

LW-11377: (16bit): stop (set 0)/start (set 1) connection (cellular

network)

LW-11378: (16bit): last error code (0:success, 1:incorrect PIN code,

2:no SIM, 3:no device, 4:puk locked, 5:other) (cellular

network)

LW-11379: (16bit): connection status (0:no device, 1:disconnect,

2:connecting, 3:connected) (cellular network)

USB Tethering

By connecting an Android® mobile phone with HMI using a micro USB cable, or any USB data cable that is compatible with the phone, the internet connection of the phone can be shared with HMI. On the Android mobile phone please enable USB Tethering.



When successfully connected, the following registers can be used to monitor and control the connection status.

LW-11380: (16bit): stop (set 0)/start (set 1) connection (USB

tethering)

LW-11381: (16bit): connection status (0:no device, 1:disconnect,

2:connected, 3:fail, 4:OS not support, 5:HMI not

support) (USB tethering)

Click the icon to download the demo project. Please confirm your internet connection before downloading the demo project.

