

# Chapter 16 Alarm

This chapter describes the alarm elements that the DOPSoft software provides and how to operate Alarm Setup.

◆ Classification of alarm elements:






Alarm 		History Alarm Table
		Active Alarm List
		Alarm Frequency Table
		Alarm Moving Sign

Table 16-1-1 Classification of alarm elements

◆ Common properties of alarm elements

Alarm	Read Address	Write Address	Style (Background Color/ Style/ Border Color)	Time Format/ Date Format	Alarm Number	Show Alarm Release Items	Display for Count 0	Time Interval/ Moving Points
History Alarm Table	◎		◎ (Only Background Color)	◎	◎	◎		
Active Alarm List	◎		◎ (Only Background Color)	◎	◎			
Alarm Frequency Table	◎		◎ (Only Background Color)	◎	◎		◎	
Alarm Moving Sign	◎		◎	◎	◎			◎

Table 16-1-2 Common properties of alarm elements

## 16-1 Alarm Setup

We will explain how to use the Alarm Setup function before describing the alarm elements. The Alarm Setup is used to set the properties such as reading address, sample time, max. records to be saved and retained area setup needed for display of the alarm. It is also used for the setting of alarm moving sign, output to CSV file and editing of alarm message content to be displayed.

The history buffer data that the user edited will be run using the formula provided by the software. The size data calculated will be stored in the preset retained area. If the data are stored in HMI, the size of the alarm varies depending on the HMI model. For more information, refer to the Hardware Specifications in the HMI Installation Manual for the description of the non-volatile internal memory. If the data are stored in an external device (such as USB Disk, SD Card), the size of that device prevails

The following alarm formulas are applied to the alarm log file and Alarm Frequency Table. No formula is used for the CSV file because the length of the file is dependent on the size of the message that the user input

1. Alarm log file formula:

$$\{[6\text{Bytes}(a) + 2\text{Bytes}(b)] \times N(c)\} + 6\text{Bytes}(d) = \text{Actual file size Bytes}$$

a	Time/date data
b	Alarm data
c	Sampling points
d	Header of data file

2. Alarm Frequency Table formula:

$$2\text{Bytes}(a) \times N(b) = \text{Actual file size Bytes}$$

a	Alarm frequency data
b	Alarm records

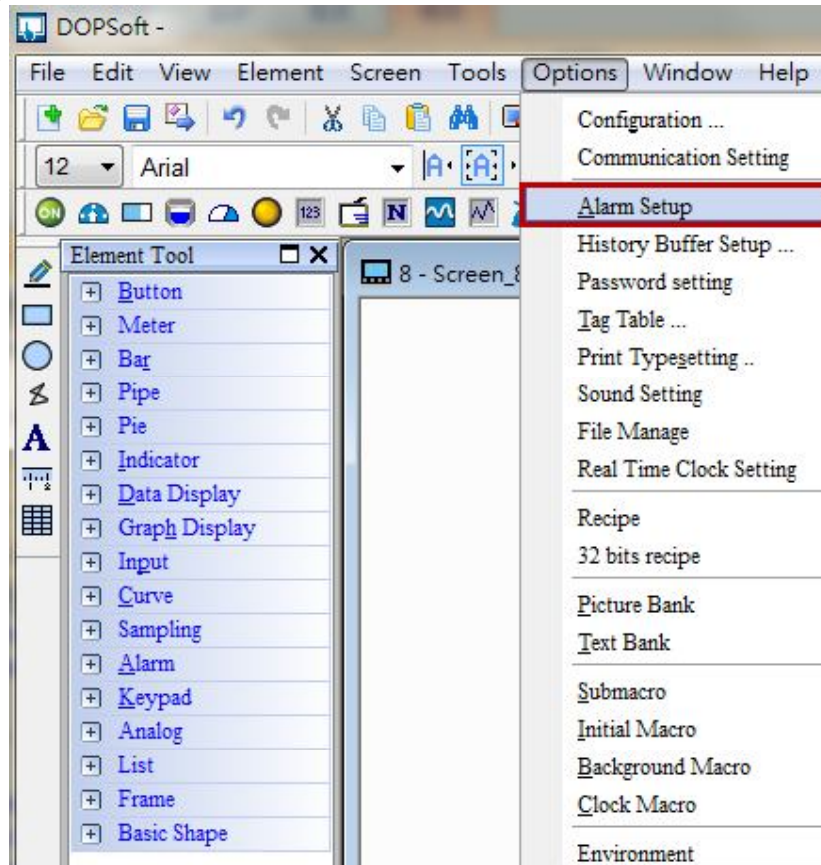
Refer to the Alarm Setup Example in Table 16-1-3.

## Alarm Setup Example

Table 16-1-3 Alarm Setup Example

### Alarm Setup Steps

- Step 1: Enter [Options] → [Alarm Setup] to set up the property of the alarm.



- Step 2: Set the Read Address to \$1600, Sample Time to 0.5 second and max. records to 100. Select HMI as the Retained Area, activate the Alarm Moving Sign and edit the alarm message content to be displayed. After the settings are completed, click OK to leave the Alarm Setup. Refer to the figure below.

**Alarm Setup Example**  
Table 16-1-3 Alarm Setup Example

No.	LED	Message Content	Text Color	Proper	Photo	Screen	Inform
1	<input checked="" type="checkbox"/>	Alarm aaa	RGB(0, 0, 0)	On	None		
2	<input checked="" type="checkbox"/>	Alarm bbb	RGB(0, 0, 0)	On	None		
3	<input checked="" type="checkbox"/>	Alarm ccc	RGB(0, 0, 0)	On	None		
4	<input checked="" type="checkbox"/>	Alarm ddd	RGB(0, 0, 0)	On	None		
5	<input checked="" type="checkbox"/>	Alarm eee	RGB(0, 0, 0)	On	None		
6	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
7	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
8	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
9	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
10	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
11	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
12	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
13	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
14	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		
15	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None		

Create  
Maintained  
Button  
Elements

➤ Step 1: Create 5 maintained buttons and set their Write Address to \$1600.0~\$1600.4 respectively.

W:\$1600.0  
Alarm a

W:\$1600.1  
Alarm b

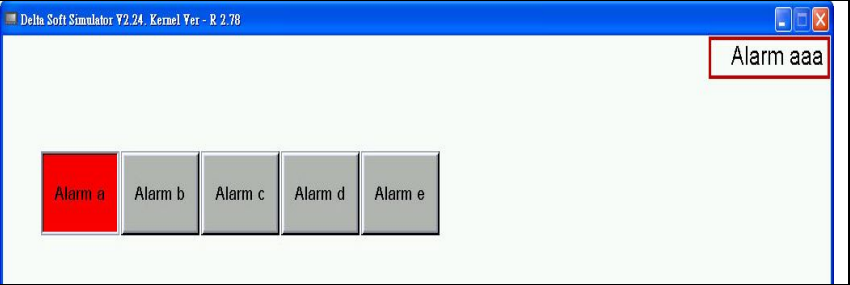
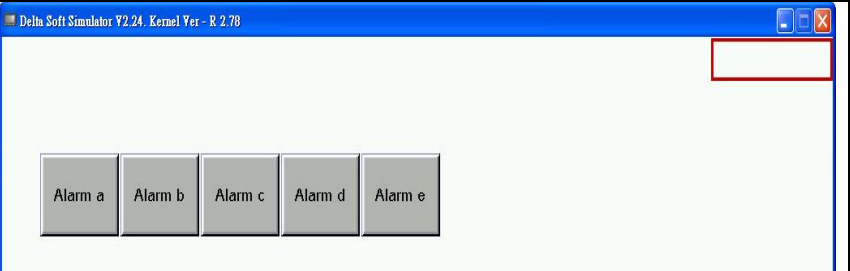
W:\$1600.2  
Alarm c

W:\$1600.3  
Alarm d

W:\$1600.4  
Alarm e

➤ Step 2: Edit the State 0/State 1 text of each maintained button to Alarm 1 ~ Alarm 5. Set the foreground color of State 1 to red indicate the ON state.

	W:\$1600.0	W:\$1600.1	W:\$1600.2	W:\$1600.3	W:\$1600.4
<b>State 0</b>	Alarm a	Alarm b	Alarm c	Alarm d	Alarm e
<b>State 1</b>	Alarm a	Alarm b	Alarm c	Alarm d	Alarm e

Alarm Setup Example		
Table 16-1-3 Alarm Setup Example		
Execution Results	➤ After creation of all elements, perform the compilation and download them to HMI. When you activate the maintained buttons of Alarm 1 ~ Alarm 5, the message of the Alarm Moving Sign will display on the top of the HMI screen. It disappears when you deactivate the alarm.	
	<div>Alarm ON</div> 	
	<div>Alarm OFF</div> 	

The Alarm Setup properties are described in detail below.

## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

**Alarm Setup**

**Alarm Setting**

Address:

Scan Time (second):

Max Records:

☐ Hold:

☐ CSV Format

☒ Exit Screen Saver when alarm is triggered

**Alarm Moving Sign**

Enable:

Position:

Direction:

Moving Points:

Interval(ms):

Background Color:

Delete

Modify

Import

Export

OK

No.	<input checked="" type="checkbox"/>	LED	Message Content	Text Color	Property	Goto Screen	il Informat
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
16	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	

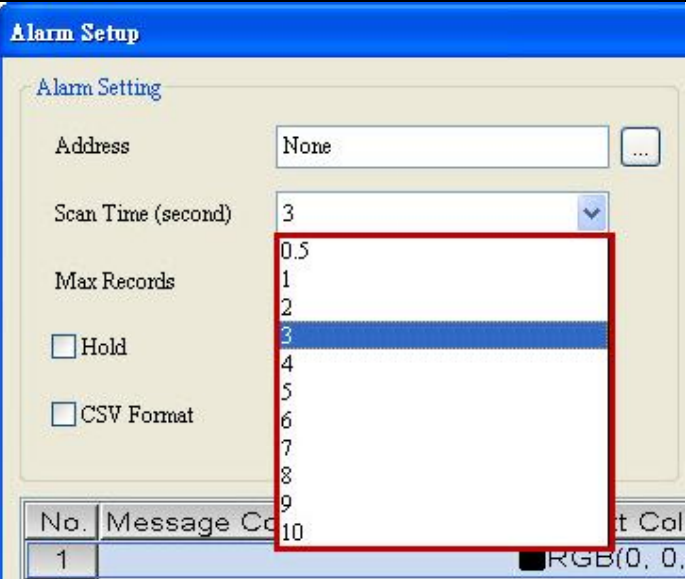
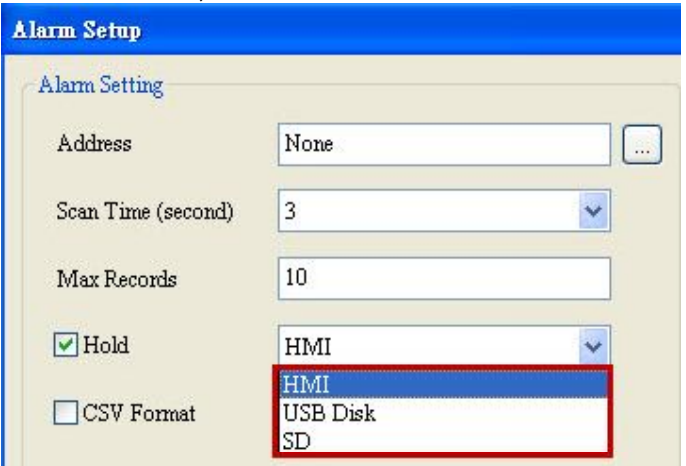
Font:  Size:  Ratio:

## ➤ Alarm Setup

Read Address	➤	You can select the internal memory or controller register address. The constraint is? When Bit is selected for the Read Address.
	➤	For selection of the connection name or style, refer to <a href="#">5-1Button</a> .
Scan Time (second)	➤	Sample Time indicates the interval to take a sampling action.

## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

	
Max. Records	<ul style="list-style-type: none"> <li>➤ When the records are accumulated to the number as shown in the Max. Records, the recording will start from the first data again and override the previous data.</li> <li>➤ The Max. Records function supports up to 9999 records.</li> </ul>
Hold	<ul style="list-style-type: none"> <li>➤ The data location is HMI, USB Disk or SD Card.</li> </ul>  <ul style="list-style-type: none"> <li>➤ If HMI is checked, data will be recorded in HMI SRAM in case of outage.</li> <li>➤ When the Output to CSV File is selected, select USB Disk or SD Card as the retained area.</li> </ul>
CSV Format	<ul style="list-style-type: none"> <li>➤ When the CSV Format is checked, the alarm message can be saved to a CSV file or stored in USB Disk or SD Card.</li> </ul>



## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

Exit Screen Saver when Alarm is triggered	<p>➤ This function is set with the program of screen saver. The default setting is set to activate.</p> <p>➤ Assume the user enables screen saver program and setup the screen of screen saver. If the alarm occurs, HMI will not be in screen saver mode. However, even when the user does not setup the screen for screen saver, HMI will not be in Blue Led mode.</p> <p>➤ Disable the function of <b>【Exit Screen Saver when Alarm is Triggered】</b>. When the alarm occurs for the first time, the system exits screen saver. After that, the system enters screen saver program according to the setting time no matter the alarm is cleared or not.</p> <table border="1" data-bbox="407 1717 1403 1808"> <tr> <th colspan="2">Example</th></tr> <tr> <td>✓</td><td>Alarm Setup</td></tr> </table>	Example		✓	Alarm Setup
Example					
✓	Alarm Setup				



## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

No.	LED	Message Content	Text Color	Property	Goto Screen	Mail Information
1	<input checked="" type="checkbox"/>	111	RGB(0, 0, 0)	On	None	
2	<input checked="" type="checkbox"/>	222	RGB(0, 0, 0)	On	None	
3	<input checked="" type="checkbox"/>	333	RGB(0, 0, 0)	On	None	
4	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	

✓ Create the numeric entry element as \$100.

✓ Screen saver setup

✓ Download the compile project to HMI. Enter 1 to numeric entry element \$100 to trigger the alarm. After 1 minute, when screen saver program is activated and the alarm is detected, function of screen saver will be disabled.

## ➤ Alarm Moving Sign

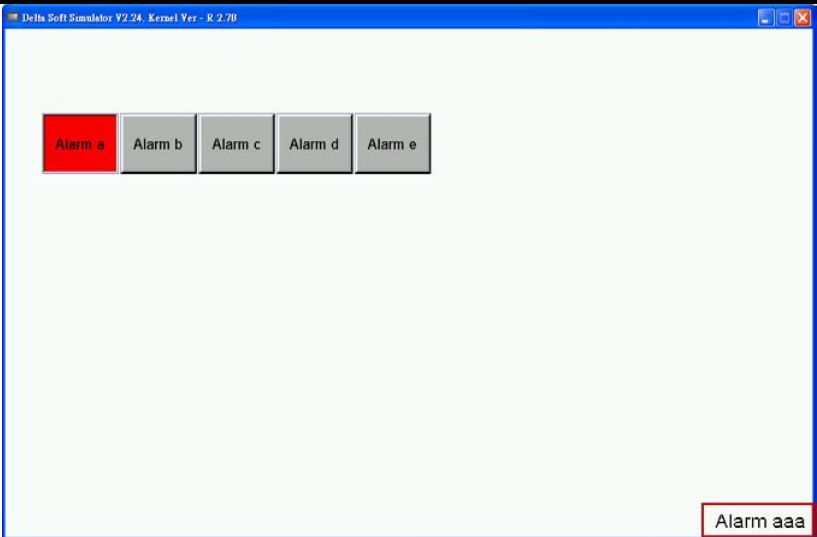
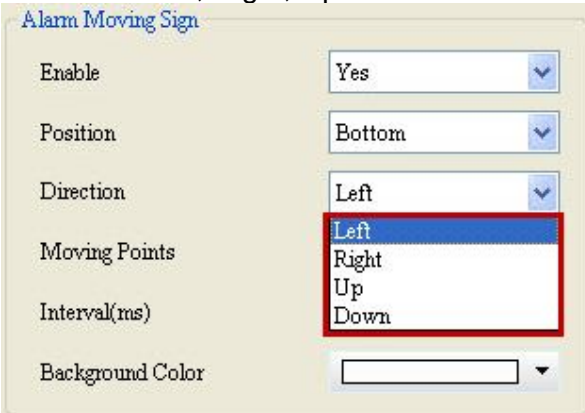




Enable

➤ Yes and No are selectable for the Start. If Yes is selected, the message of the triggered alarm will be displayed at the specified location on the screen. If No is selected, no alarm message will be displayed.

## Alarm Setup Properties

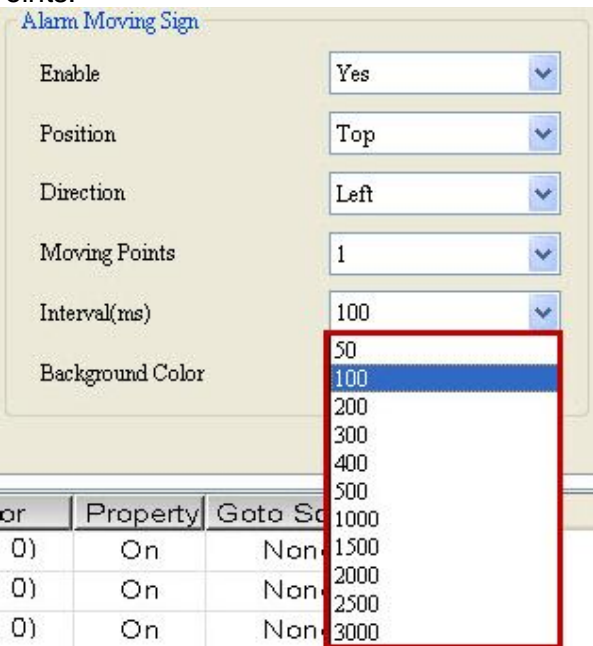
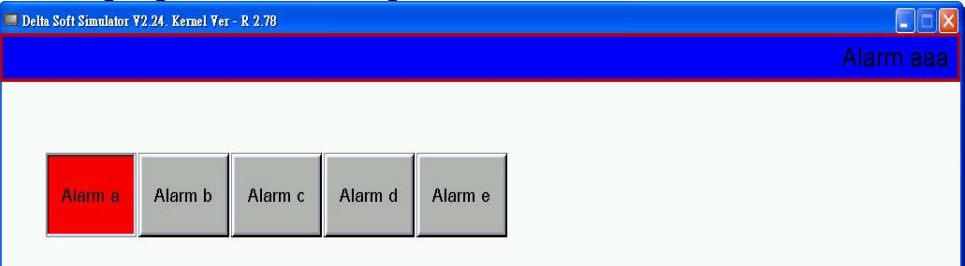
Table 16-1-4 Alarm Setup Properties

	<div> <div>Alarm Moving Sign</div> <div> <div>Enable</div> <div>Yes</div> </div> <div> <div>Position</div> <div>No</div> <div>Yes</div> </div> <div> <div>Direction</div> <div>Left</div> </div> <div> <div>Moving Points</div> <div>1</div> </div> <div> <div>Interval(ms)</div> <div>100</div> </div> <div> <div>Background Color</div> <div></div> </div> </div>
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Alarm Setup Properties		
Table 16-1-4 Alarm Setup Properties		
Direction	Bottom	
	➤ The moving direction is Left, Right, Up or Down.	
	Left	
	Right	
	Up	
	Down	
Moving Points	➤	The higher the moving points, the more the distance to which the text moves. The setting range is 1~50 with Pixel as the unit.

## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

Interval (ms)	<p>➤ The Interval defines the time (ms) between two message movements of the Alarm Moving Sign. The moving distance is set up based on the setting of the Moving Points.</p> 
Background Color	<p>➤ This option provides the Background Color for the display of the Alarm Moving Sign. Refer to the figure below.</p> 
➤ <b>Show Alarm Message Content</b>	
LED	<p>➤ This function determines if LED will glitter when the alarm is triggered.</p> <p>➤ In default setting, LED glitters when the alarm is triggered. Users can cancel this function.</p>

## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

**Alarm Setup**

**Alarm Setting**

Address: \$100

Scan Time (second): 0.5

Max Records: 10

☒ Hold: HMI

☐ CSV Format

☒ Exit Screen Saver when alarm is triggered

**Alarm Moving Sign**

Enable: No

Position: Top

Direction: Left

Moving Points: 1

Interval(ms): 100

Background Color:

Buttons: Delete, Modify, Import, Export, OK

No.	LED	Message Content	Text Color	Property	Goto Screen	il Informat
1	<input checked="" type="checkbox"/>	111	RGB(0. 0. 0)	On	None	
2	<input checked="" type="checkbox"/>	222	RGB(0. 0. 0)	On	None	
3	<input checked="" type="checkbox"/>	333	RGB(0. 0. 0)	On	None	
4	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
5	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
6	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
7	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
8	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
9	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
10	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
11	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
12	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
13	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
14	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
15	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
16	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	

Font: Arial Size: 12 Ratio: 100%

➤ The Number shows alarm message records. It supports up to 2048 alarms.

Number

**Alarm Setup**

**Alarm Setting**

Address: \$100

Scan Time (second): 0.5

Max Records: 10

☒ Hold: HMI

☐ CSV Format

☒ Exit Screen Saver when alarm is triggered

**Alarm Moving Sign**

Enable: No

Position: Top

Direction: Left

Moving Points: 1

Interval(ms): 100

Background Color:

Buttons: Delete, Modify, Import, Export, OK

No.	LED	Message Content	Text Color	Property	Goto Screen	il Informat
2033	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2034	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2035	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2036	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2037	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2038	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2039	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2040	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2041	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2042	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2043	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2044	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2045	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2046	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2047	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	
2048	<input checked="" type="checkbox"/>		RGB(0. 0. 0)	On	None	

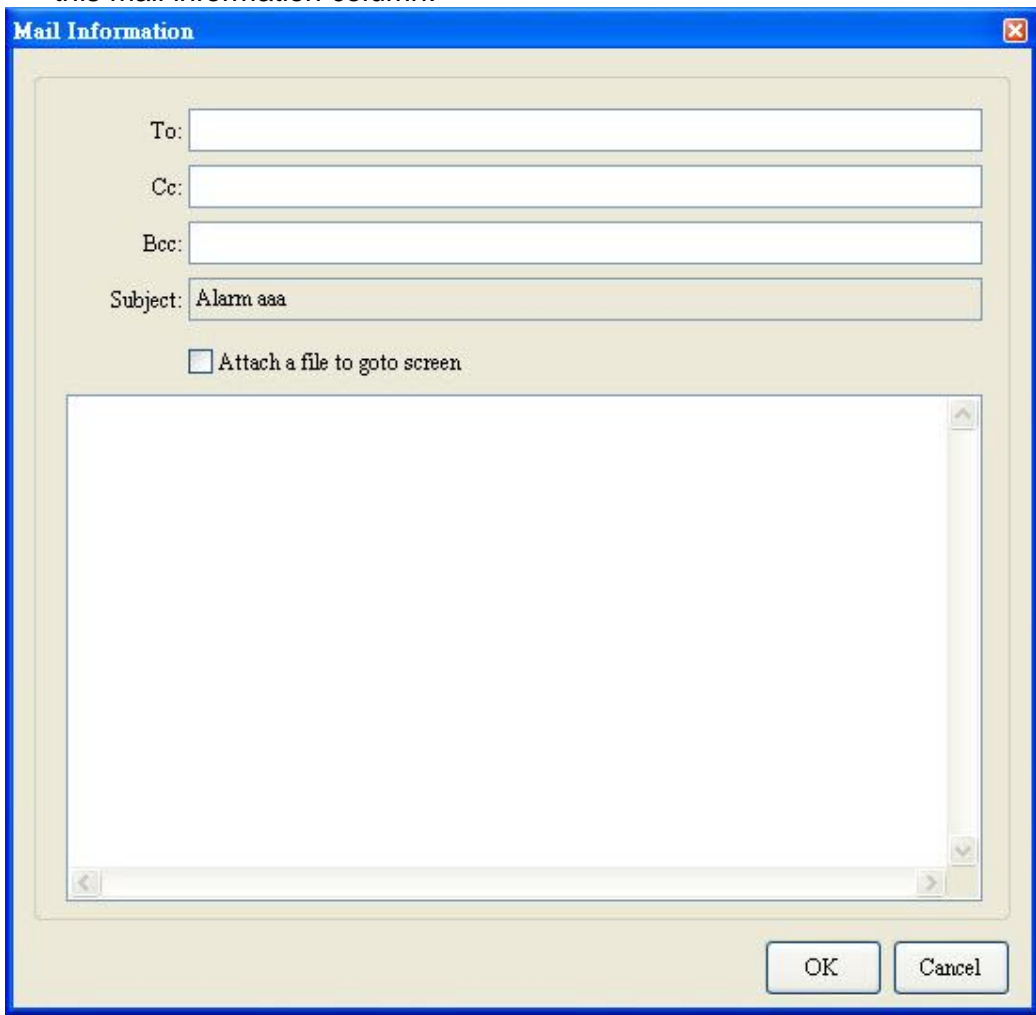
Support 1 to 2048 alarm

Font: Arial Size: 12 Ratio: 100%



## Alarm Setup Properties


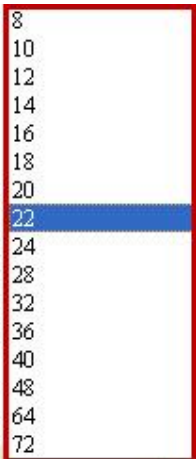

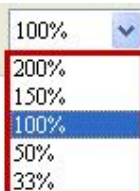
Table 16-1-4 Alarm Setup Properties

Mail Information	<p>➤ The Mail Information function can send an email to relevant personnel when an alarm is triggered. It must be used in conjunction with the [Options] → [Set Communication Parameter] → [Ethernet] → [SMTP] function.</p> <p>➤ When enabling the SMTP function, the user can enter mail messages in this mail information column.</p> <div data-bbox="386 478 1416 1486">  </div>	
	To:	<p>➤ Complete this field with the mail address of the recipient to which a notice will be sent upon trigger of the alarm. Multiple recipients are acceptable, and ";" must be used as a separator between the recipients. The format is same as an ordinary email.</p>
	Cc:	<p>➤ Complete this field with the mail address of the person to which a copy of the notice will be sent upon trigger of the alarm. When this field is completed, the recipient of the mail can look at the mail information in this field.</p>
	Bcc:	<p>➤ The recipient in this field is invisible. When the mail is sent, both the recipients of the mail and copy cannot see the</p>



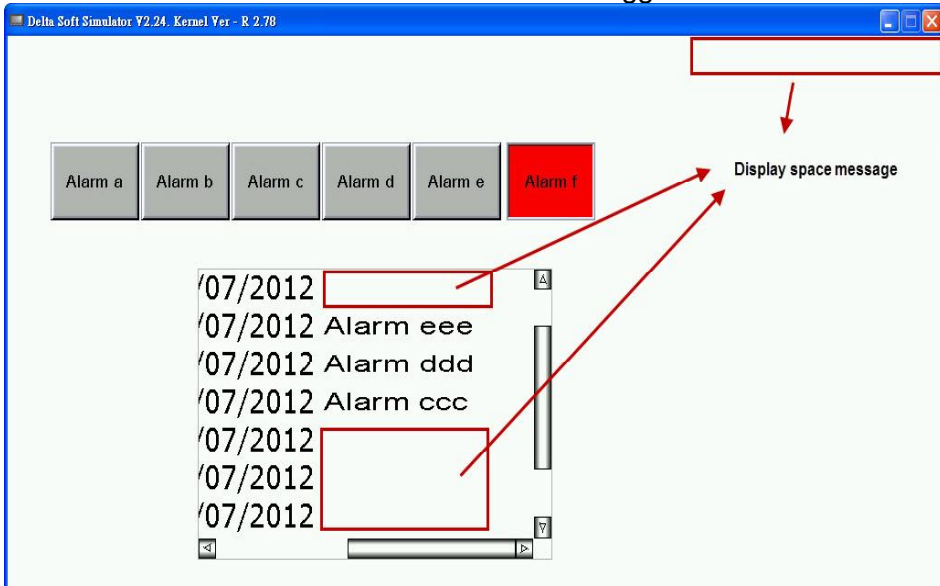
## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

		recipient in this field.																																																																			
	<b>Subject:</b>	➤ The user cannot change the subject of the mail information because it is generated according to the alarm message contents edited. If change of the subject is needed, the user must be change the message content first.																																																																			
	<b>Attach a File to the Go to Screen</b>	➤ If this option is checked, that current alarm screen will be sent to the recipient as an attachment. The attachment is created in .bmp format.																																																																			
	<b>Content</b>	➤ The user can enter the mail content as desired.																																																																			
➤ <b>Alarm Message Text Properties</b>																																																																					
Font	➤ This defines the font of the alarm message to be displayed. The user can set the font as desired.	Font: 																																																																			
Size	➤ This defines the size of the text for the alarm message to be displayed.	 Size: 																																																																			
Zooming	➤ This defines the size of the window for the alarm message to be displayed. A scale of 100% is set by default.	Ratio:  <table><tr><td rowspan="11">100%</td><td>No.</td><td>Message Content</td><td>Text Color</td><td>Property</td><td>Goto Screen</td><td>Mail Informat</td></tr><tr><td>1</td><td>Alarm aaa</td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>2</td><td>Alarm bbb</td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>3</td><td>Alarm ccc</td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>4</td><td>Alarm ddd</td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>5</td><td>Alarm eee</td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>6</td><td></td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>7</td><td></td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>8</td><td></td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>9</td><td></td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr><tr><td>10</td><td></td><td>■ RGB(0, 0, 0)</td><td>On</td><td>None</td><td></td></tr></table>	100%	No.	Message Content	Text Color	Property	Goto Screen	Mail Informat	1	Alarm aaa	■ RGB(0, 0, 0)	On	None		2	Alarm bbb	■ RGB(0, 0, 0)	On	None		3	Alarm ccc	■ RGB(0, 0, 0)	On	None		4	Alarm ddd	■ RGB(0, 0, 0)	On	None		5	Alarm eee	■ RGB(0, 0, 0)	On	None		6		■ RGB(0, 0, 0)	On	None		7		■ RGB(0, 0, 0)	On	None		8		■ RGB(0, 0, 0)	On	None		9		■ RGB(0, 0, 0)	On	None		10		■ RGB(0, 0, 0)	On	None	
100%	No.	Message Content		Text Color	Property	Goto Screen	Mail Informat																																																														
	1	Alarm aaa		■ RGB(0, 0, 0)	On	None																																																															
	2	Alarm bbb		■ RGB(0, 0, 0)	On	None																																																															
	3	Alarm ccc		■ RGB(0, 0, 0)	On	None																																																															
	4	Alarm ddd		■ RGB(0, 0, 0)	On	None																																																															
	5	Alarm eee		■ RGB(0, 0, 0)	On	None																																																															
	6			■ RGB(0, 0, 0)	On	None																																																															
	7			■ RGB(0, 0, 0)	On	None																																																															
	8			■ RGB(0, 0, 0)	On	None																																																															
	9			■ RGB(0, 0, 0)	On	None																																																															
	10		■ RGB(0, 0, 0)	On	None																																																																


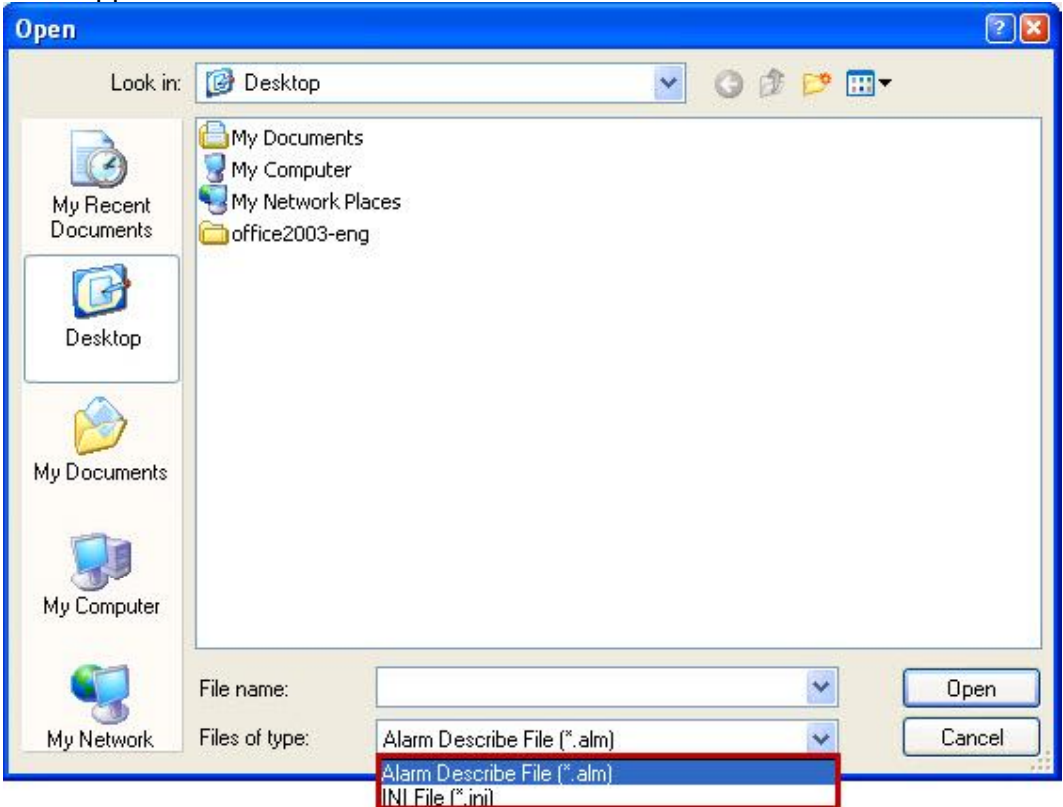
## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

		No.	Message Content	Text Color	Property	Goto Screen	Inform
150%		1	Alarm aaa	■ RGB(0, 0, 0)	On	None	
		2	Alarm bbb	■ RGB(0, 0, 0)	On	None	
		3	Alarm ccc	■ RGB(0, 0, 0)	On	None	
		4	Alarm ddd	■ RGB(0, 0, 0)	On	None	
		5	Alarm eee	■ RGB(0, 0, 0)	On	None	
		6		■ RGB(0, 0, 0)	On	None	
		7		■ RGB(0, 0, 0)	On	None	
		8		■ RGB(0, 0, 0)	On	None	
		9		■ RGB(0, 0, 0)	On	None	
		10		■ RGB(0, 0, 0)	On	None	
Delete	<p>➤ After the alarm message content is created, the user can select a message to be deleted and click the Delete button to delete the selected message.</p> <p><b>NOTE:</b></p> <p>The user can enter a message in a blank field of the Message Content and move the cursor to the next field for entering an additional message. If the user deletes the first message using the Delete or Backspace key on the keyboard instead of the Delete button on the screen, the blank alarm will be displayed at the specified position when the user leaves the alarm setup screen and download the screen to the HMI to trigger the alarm.</p>						
							
Modify	<p>➤ Press the Modify button to change the message content, text color and Goto screen.</p>						

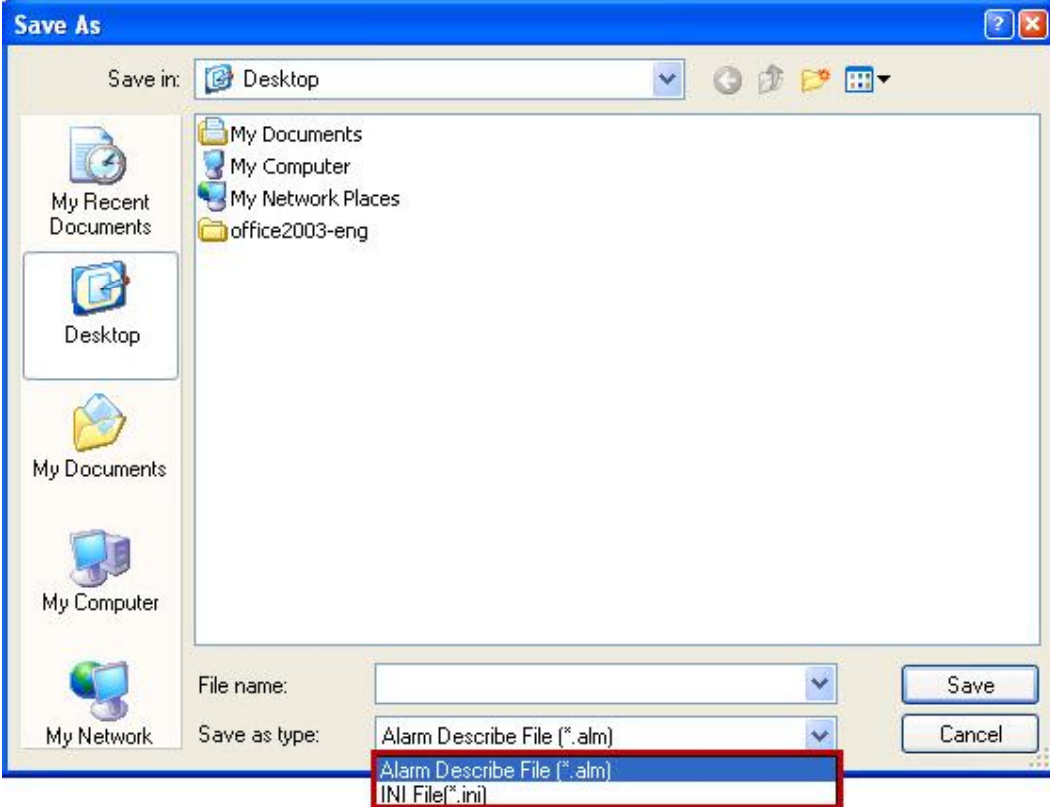
## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

	 <p>➤ The user can also change the message, text color and Goto screen directly in the corresponding field.</p>
Import	<p>➤ The user can press the Import button to import alarm information. It supports .alm and .ini file formats.</p> 
Export	<p>➤ The user can press the Export button to export edited alarm message. It supports .alm and .ini file formats.</p>

## Alarm Setup Properties

Table 16-1-4 Alarm Setup Properties

	
OK	<p>➤ Press the OK button to leave the Alarm Setup window. This button functions same as pressing the X mark at the upper right corner of the window. Where any change is made, pressing OK or the X mark will save the change and leave the window.</p>

## 16-2 History Alarm Table



The History Alarm Table element is used to display the alarm information when an alarm is triggered. It also provides options for the user to display the release of the alarm. A corresponding state will be displayed for alarm ON and OFF.

Refer to the History Alarm Table example in Table 16-2-1.

**History Alarm Table Example**  
 Table 16-2-1 History Alarm Table Example

This example is described with reference to the alarm parameters in Table 16-1-3 Alarm Setup Example.

**Alarm Setup**

**Alarm Setting**
Address: 
Scan Time (second): 
Max Records: 
☒ Hold
 
☒ CSV Format
 ☒ Exit Screen Saver when alarm is triggered


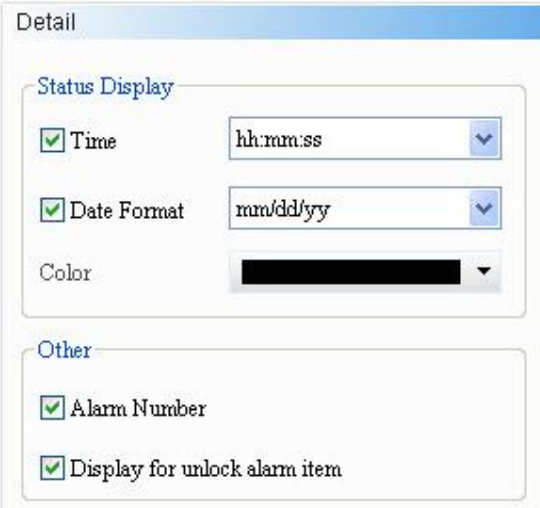
**Alarm Moving Sign**
Enable: 
Position: 
Direction: 
Moving Points: 
Interval(ms): 
Background Color:

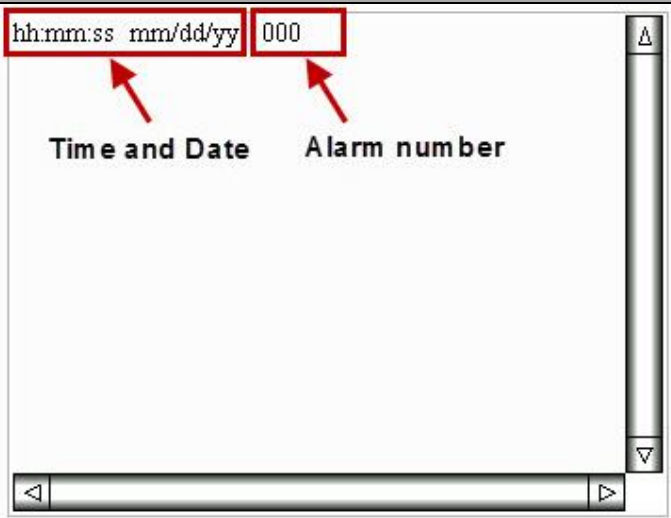
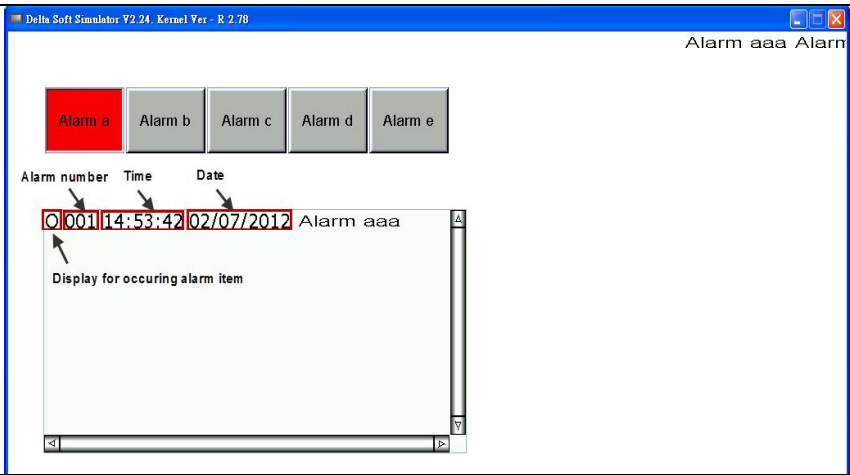
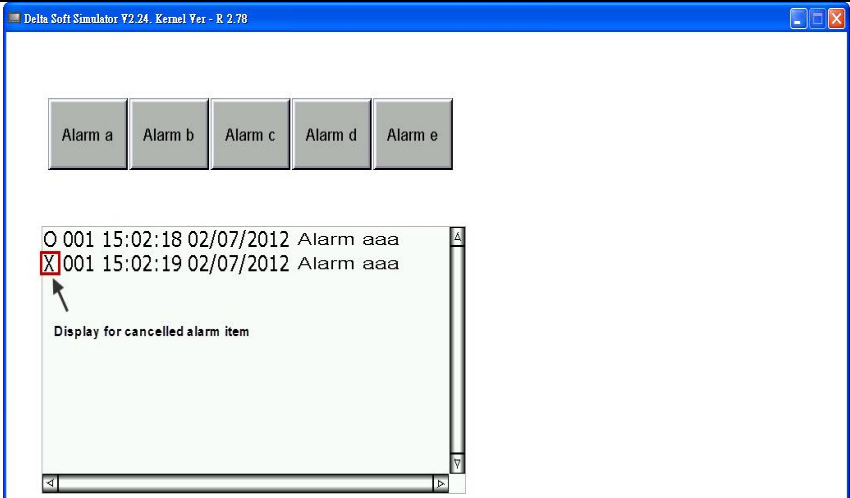
Delete  
Modify  
Import  
Export  
OK

English Chinese

No.	<input checked="" type="checkbox"/> LED	Message Content	Text Color	Property	Info
1	<input checked="" type="checkbox"/>	Alarm aaa	RGB(0, 0, 0)	On	None
2	<input checked="" type="checkbox"/>	Alarm bbb	RGB(0, 0, 0)	On	None
3	<input checked="" type="checkbox"/>	Alarm ccc	RGB(0, 0, 0)	On	None
4	<input checked="" type="checkbox"/>	Alarm ddd	RGB(0, 0, 0)	On	None
5	<input checked="" type="checkbox"/>	Alarm eee	RGB(0, 0, 0)	On	None
6	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
7	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
8	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
9	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
10	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
11	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
12	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
13	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
14	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
15	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None

Font: 
Size: 
Ratio:

History Alarm Table Example					
Table 16-2-1 History Alarm Table Example					
	W:\$1600.0	W:\$1600.1	W:\$1600.2	W:\$1600.3	W:\$1600.4
	Alarm a	Alarm b	Alarm c	Alarm d	Alarm e
Add History Alarm Table Element	<p>➤ Step 1: Create the History Alarm Table element.</p> 				
	<p>➤ Step 2: Check [Time Format] , [Date Format] , [Alarm Number] and [Show Alarm Release Item] . These options are used to show the time and date of the alarm, its number and whether to show alarm release.</p> <p>◆ Show Alarm Release Item: O stands for trigger of the alarm; X stands for release of the alarm.</p> 				

History Alarm Table Example		
Table 16-2-1 History Alarm Table Example		
		
Execution Results	➤	After creation of the History Alarm Table element, perform the compilation and download the element to HIMI, when Alarm 1 is triggered, the History Alarm Table element will show the time and date of the alarm, its number, trigger and release states.
	Alarm ON	
	Alarm OFF	



Double click the History Alarm Table icon and the following property setting screen appears.

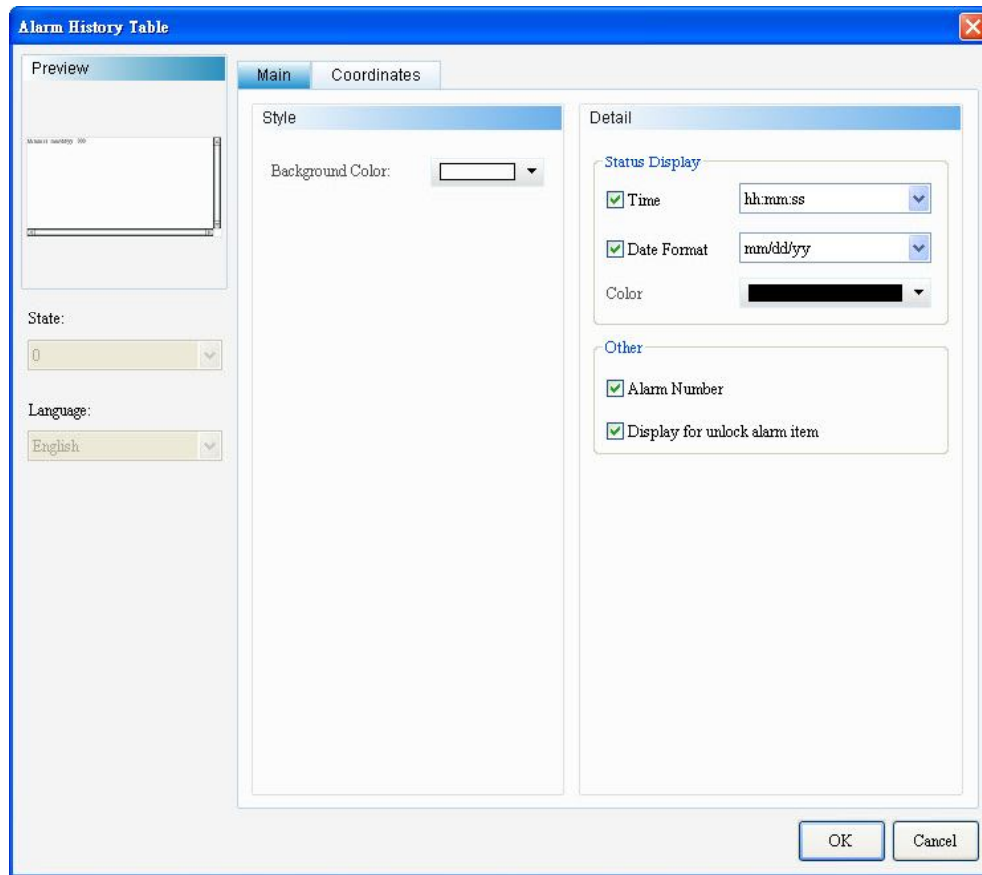


Fig. 16-2-1 History Alarm Table property setting screen

History Alarm Table	
Function Page	Content Description
Preview	The State and Language are not available to the History Alarm Table.
General	Sets the Background Color, time format, date format, display color, alarm number, show alarm release item.
Position	Sets the X-Y coordinates, width and height of the element.

Table 16-2-2 History Alarm Table function page

◆ General

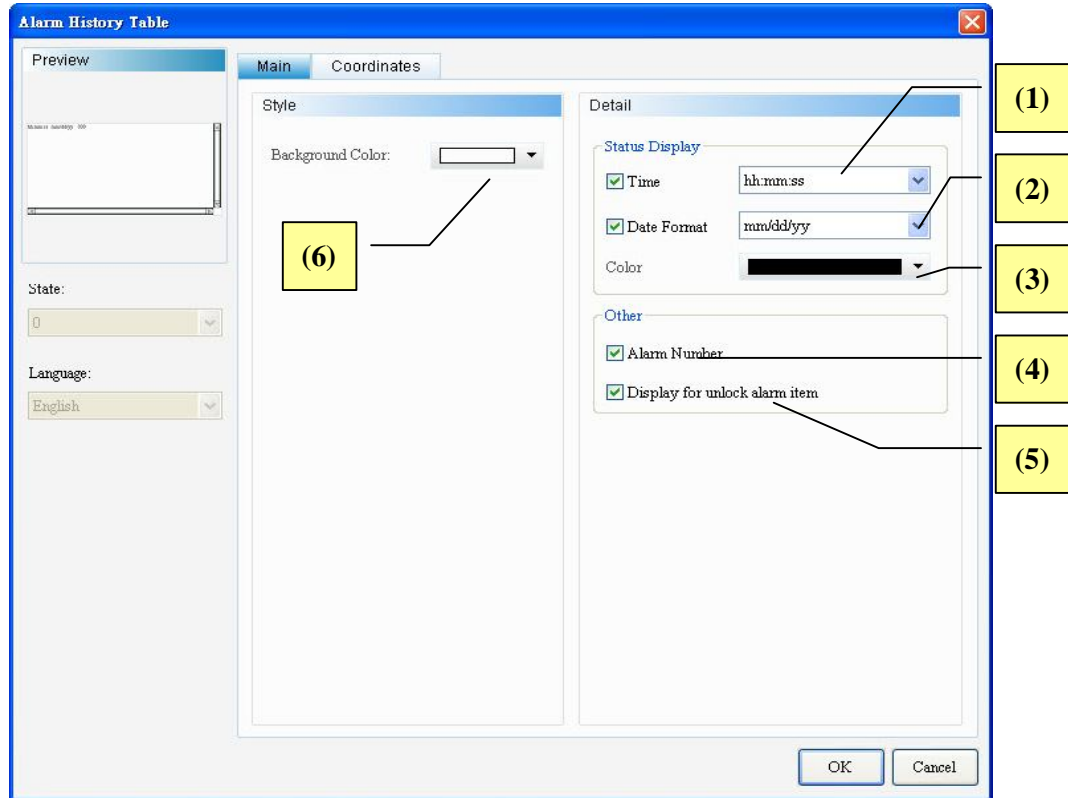
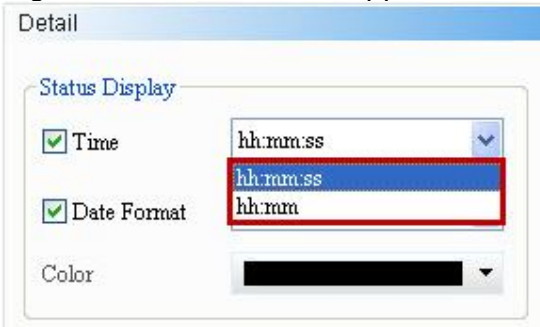
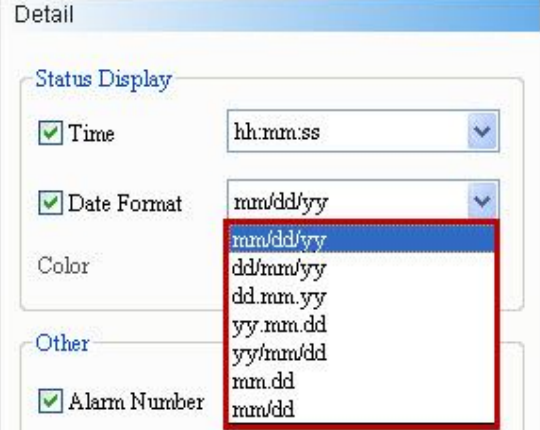
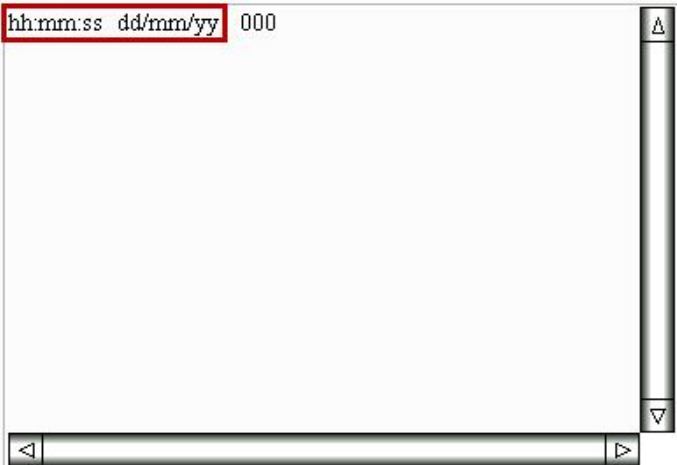
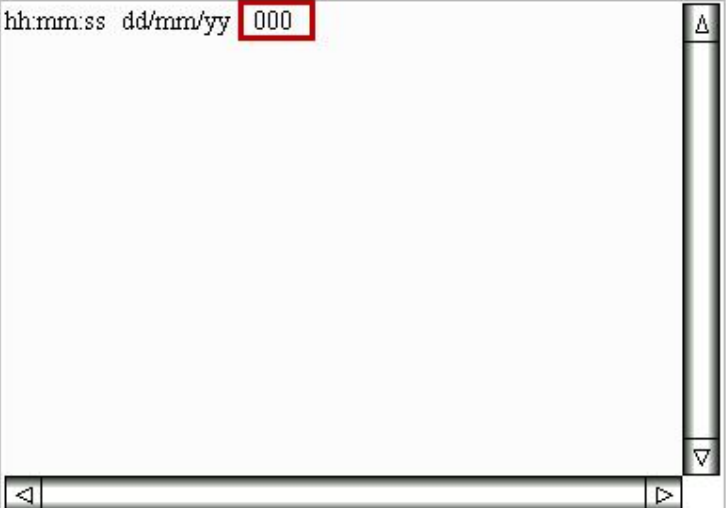

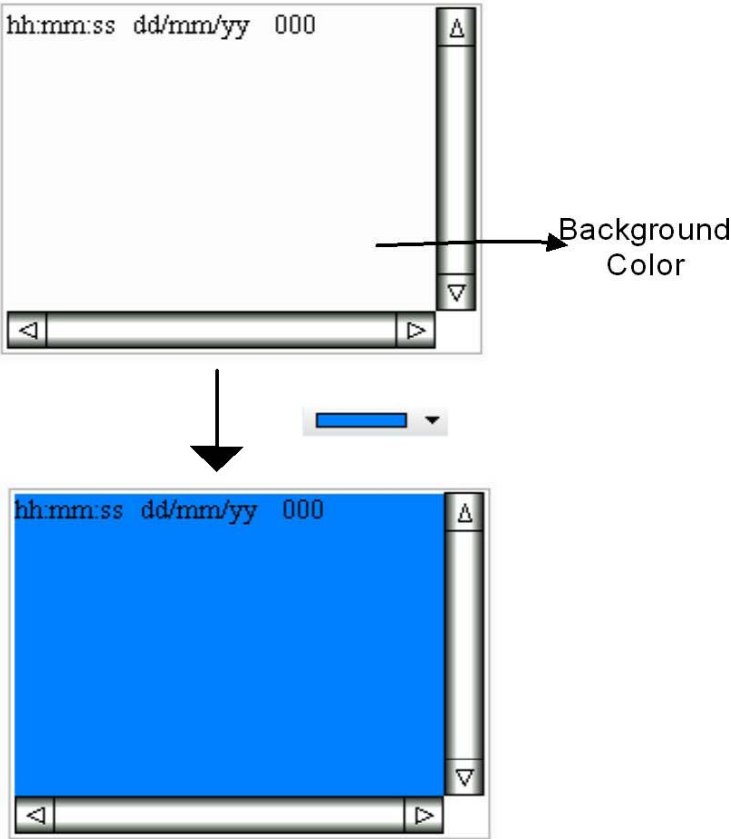


Fig. 16-2-2 History Alarm Table General property page

No.	Item	Function
(1)	Time Format	<p>➤ The following two time formats are supported:</p> 
(2)	Date Format	<p>➤ The following seven date formats are supported:</p>

No.	Item	Function
		
(3)	Display Color	<p>➤ The Display Color option is used to change the display color of the time and date. The color is <span style="background-color: black; color: black;">          </span> by default.</p> 
(4)	Alarm Number	<p>➤ When the Alarm Number is check, the corresponding number will be display when an alarm is triggered.</p> 
(5)	Show Alarm Release Item	<p>➤ When this option is checked, the History Alarm Table will show the alarm trigger and release state and information.</p> <p>➤ When this option is unchecked, the History Alarm Table will only</p>

No.	Item	Function
		<p>show the alarm trigger state and information.</p> 
(6)	Background Color	<p>➤ The user can set the Background Color for the element.</p> 

## ◆ Location

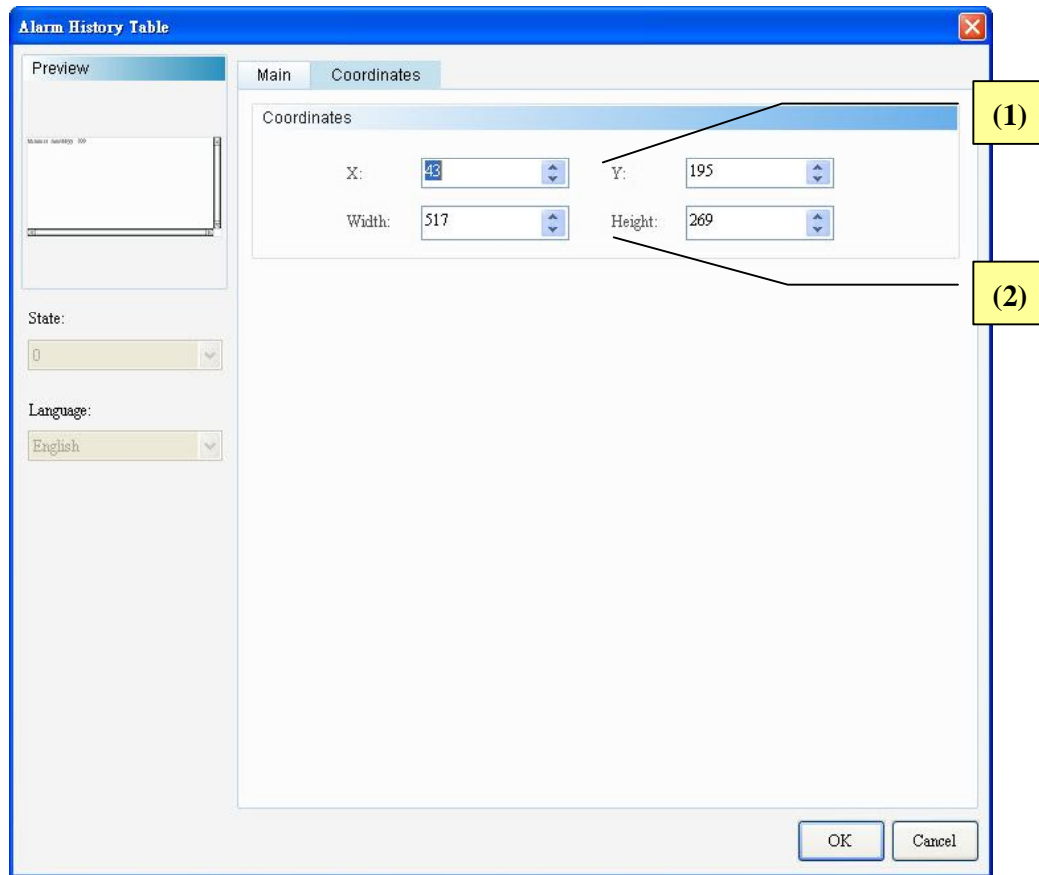
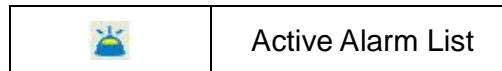


Fig. 16-2-3 History Alarm Table Position property page

No.	Item	Function
(1)	X value, Y value	➤ The X and Y coordinate at the upper left corner of the element.
(2)	Width, Height	➤ The width and height of the element.

### 16-3 Active Alarm List



The Active Alarm List element is used to display the information of the alarm that occurs currently.

Refer to the Active Alarm List example in Table 16-3-1.

**Active Alarm List Example**  
Table 16-3-1 Active Alarm List Example

This example is described with reference to the alarm parameters in Table 16-1-3 Alarm Setup Example.

The screenshot shows a software window titled "Alarm Setup" with a close button (X) in the top right corner. The window is divided into several sections:

- Alarm Setting:** Contains fields for "Address" (set to 1600), "Scan Time (second)" (set to 0.5), "Max Records" (set to 100), and checkboxes for "Hold", "CSV Format", and "Exit Screen Saver when alarm is triggered". A dropdown menu shows "USB Disk".
- Alarm Moving Sign:** Contains dropdown menus for "Enable" (Yes), "Position" (Top), "Direction" (Left), "Moving Points" (1), "Interval(ms)" (100), and "Background Color".
- Buttons:** "Delete", "Modify", "Import", "Export", and "OK" are located on the right side.
- Language:** "English" and "Chinese" tabs are at the bottom left.
- Table:** A table with 7 columns: "No.", "LED", "Message Content", "Text Color", "Property", "Photo", and "Screen Inform". It contains 15 rows of data, with the first row highlighted in blue.
- Font Settings:** At the bottom, there are dropdowns for "Font" (Arial), "Size" (16), and "Ratio" (150%).


No.	LED	Message Content	Text Color	Property	Photo	Screen Inform
1	<input checked="" type="checkbox"/>	Alarm aaa	RGB(0, 0, 0)	On	None	
2	<input checked="" type="checkbox"/>	Alarm bbb	RGB(0, 0, 0)	On	None	
3	<input checked="" type="checkbox"/>	Alarm ccc	RGB(0, 0, 0)	On	None	
4	<input checked="" type="checkbox"/>	Alarm ddd	RGB(0, 0, 0)	On	None	
5	<input checked="" type="checkbox"/>	Alarm eee	RGB(0, 0, 0)	On	None	
6	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
7	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
8	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
9	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
10	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
11	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
12	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
13	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
14	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
15	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	

Active Alarm List Example					
Table 16-3-1 Active Alarm List Example					
	W:\$1600.0	W:\$1600.1	W:\$1600.2	W:\$1600.3	W:\$1600.4
	<b>Alarm a</b>	<b>Alarm b</b>	<b>Alarm c</b>	<b>Alarm d</b>	<b>Alarm e</b>

Add  
Active  
Alarm List  
Element

➤ Step 1: Create the Active Alarm List element.



➤ Step 2: Check [Time Format] and [Date Format] . These options are used to display the time and date of the alarm. The Alarm Number is checked by default.

Detail

Status Display

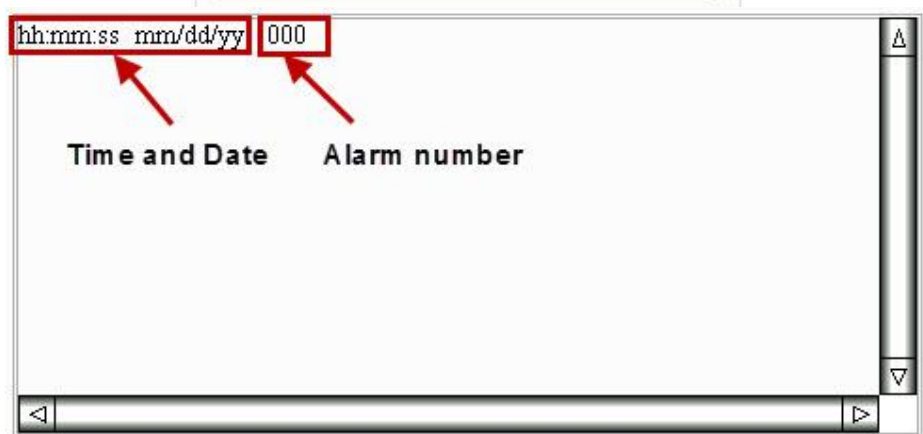
☒ Time hh:mm:ss

☒ Date Format mm/dd/yy

Color [Black]

Other

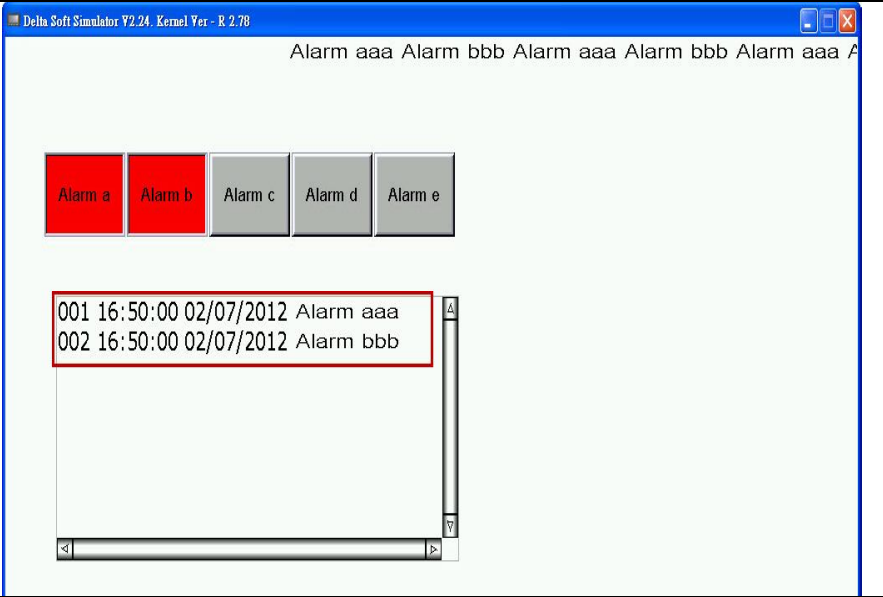
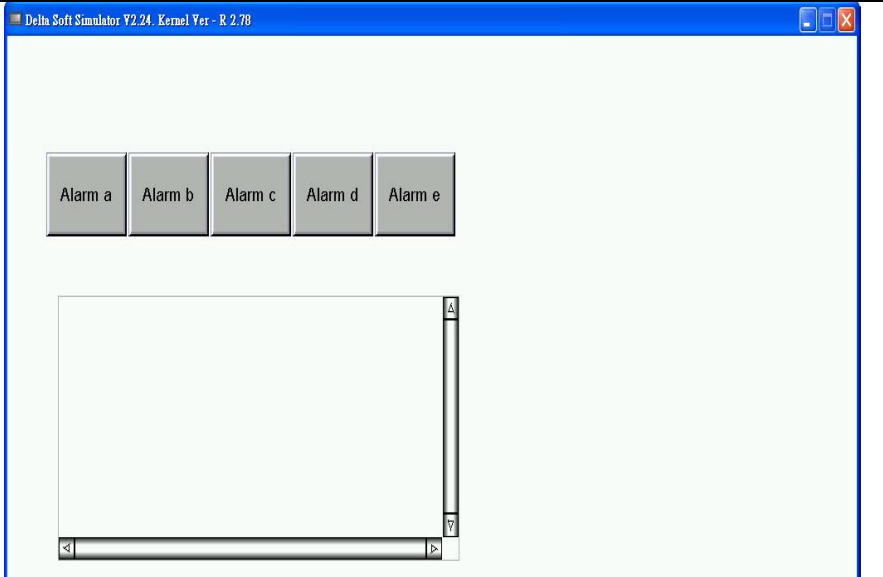
☒ Alarm Number





## Active Alarm List Example

Table 16-3-1 Active Alarm List Example

Execution Results	➤ After creation of the Active Alarm List element, perform the compilation and download the element to HMI. When Alarm 1 and Alarm 2 are triggered, the Active Alarm List shows the time, date and numbering of the alarms that occur currently. No items will be displayed on the Active Alarm List when the alarms are released.	 <p>The screenshot shows the 'Delta Soft Simulator V2.24, Kernel Ver - R 2.78' window. At the top, the text 'Alarm aaa Alarm bbb Alarm aaa Alarm bbb Alarm aaa A' is displayed. Below this, there are five buttons labeled 'Alarm a', 'Alarm b', 'Alarm c', 'Alarm d', and 'Alarm e'. The 'Alarm a' and 'Alarm b' buttons are red, indicating they are active. Below the buttons is a list box containing two entries: '001 16:50:00 02/07/2012 Alarm aaa' and '002 16:50:00 02/07/2012 Alarm bbb'. The list box has a scrollbar on the right.</p>
	Alarm OFF	 <p>The screenshot shows the same 'Delta Soft Simulator V2.24, Kernel Ver - R 2.78' window. The text at the top is the same. The buttons 'Alarm a', 'Alarm b', 'Alarm c', 'Alarm d', and 'Alarm e' are all gray, indicating they are inactive. The list box below the buttons is empty.</p>

Double click the Active Alarm List icon and the following property setting screen appears.

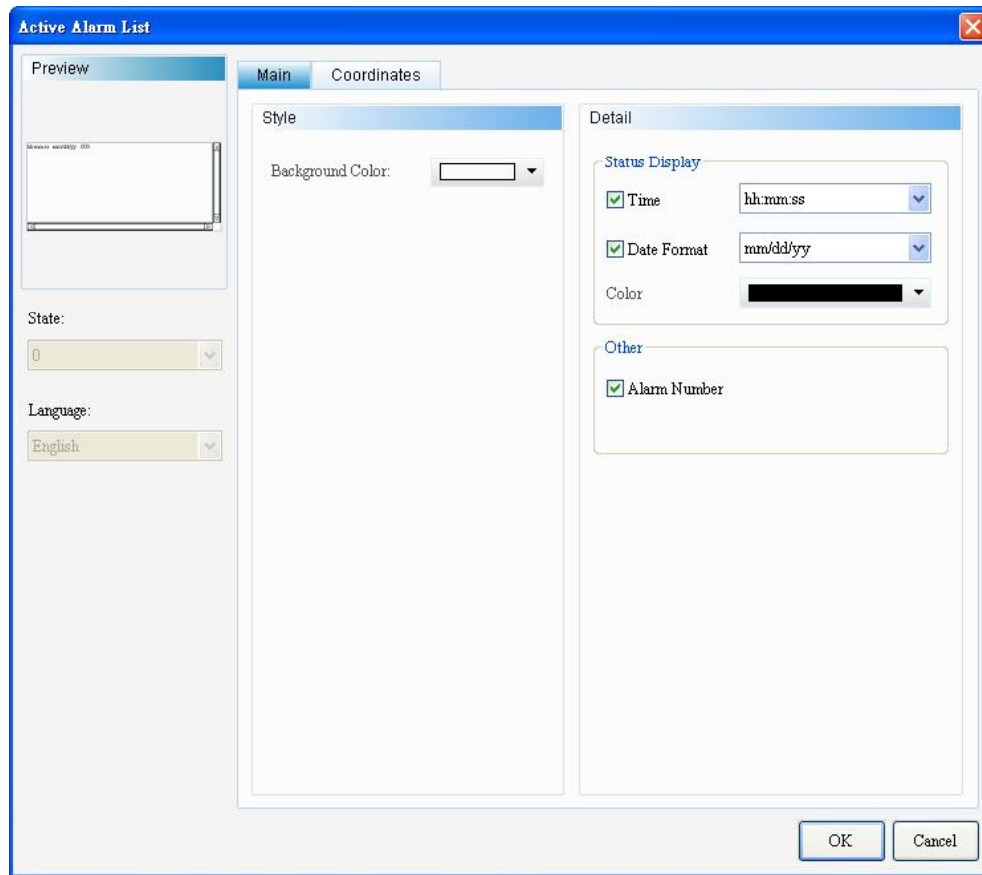


Fig. 16-3-1 Active Alarm List property setting screen

Active Alarm List	
Function Page	Content Description
Preview	The State and Language are not available to the Active Alarm List.
General	Sets the Background Color, time format, date format, display color, alarm number.
Position	Sets the X-Y coordinates, width and height of the element.

Table 16-3-2 Active Alarm List function page

◆ General

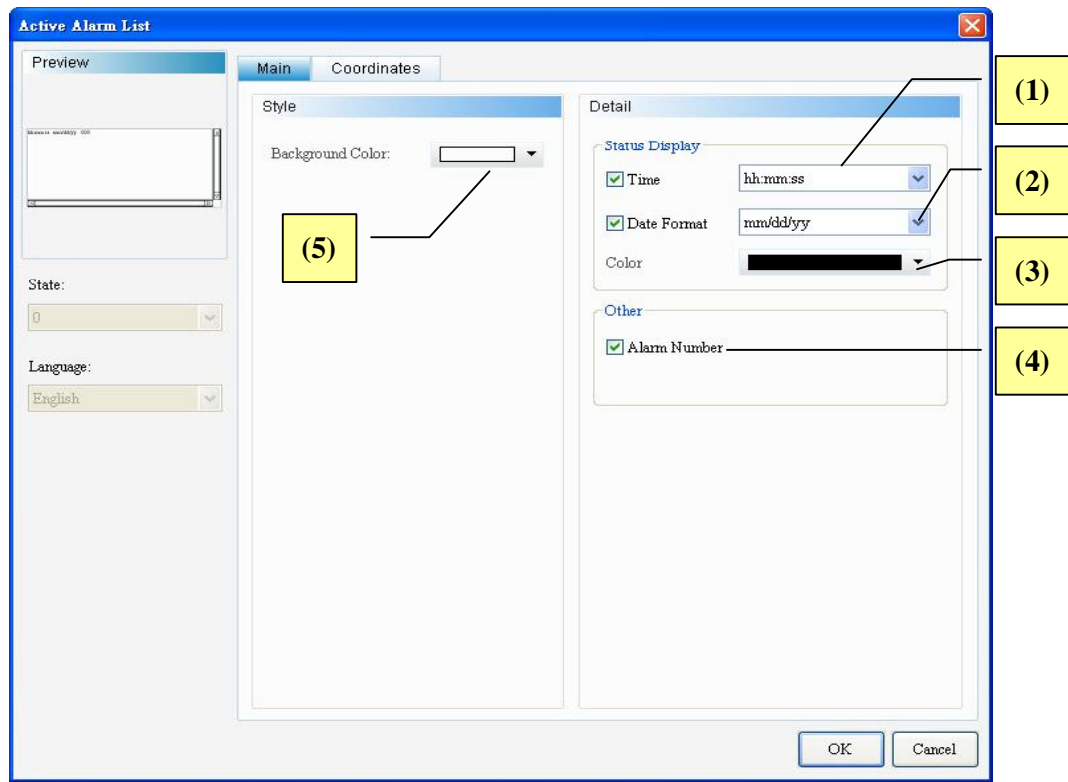
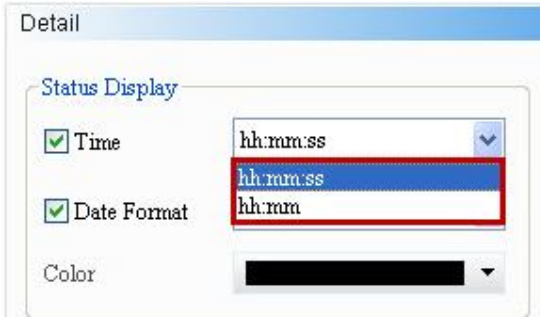
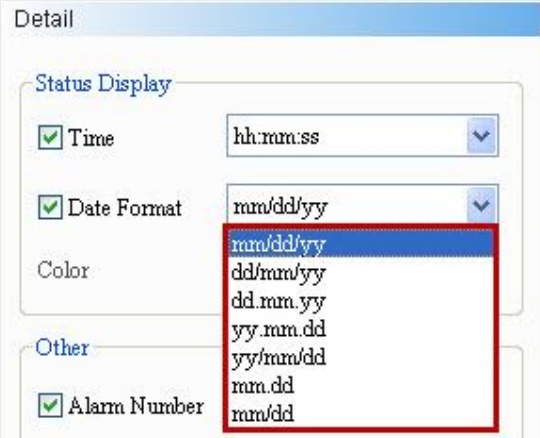

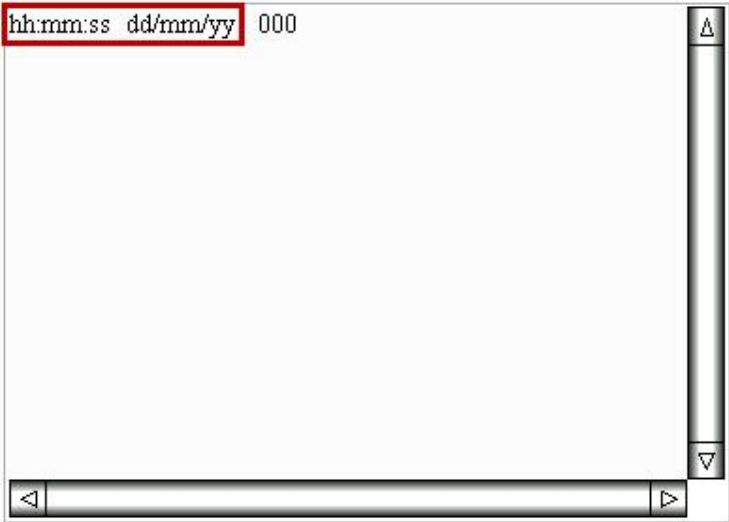
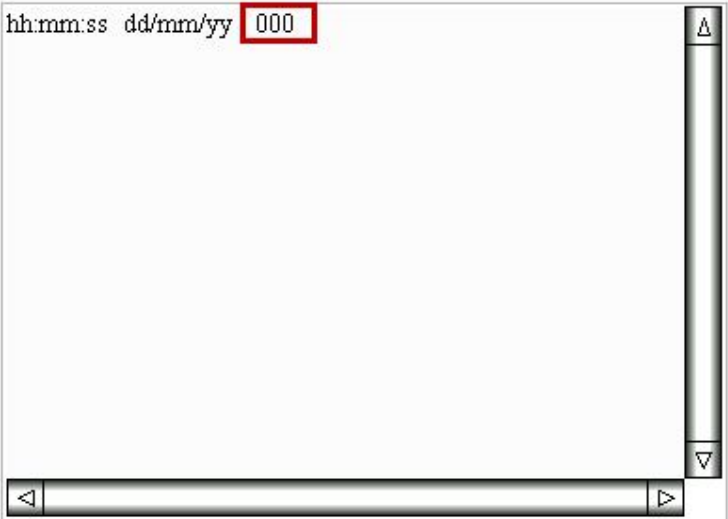
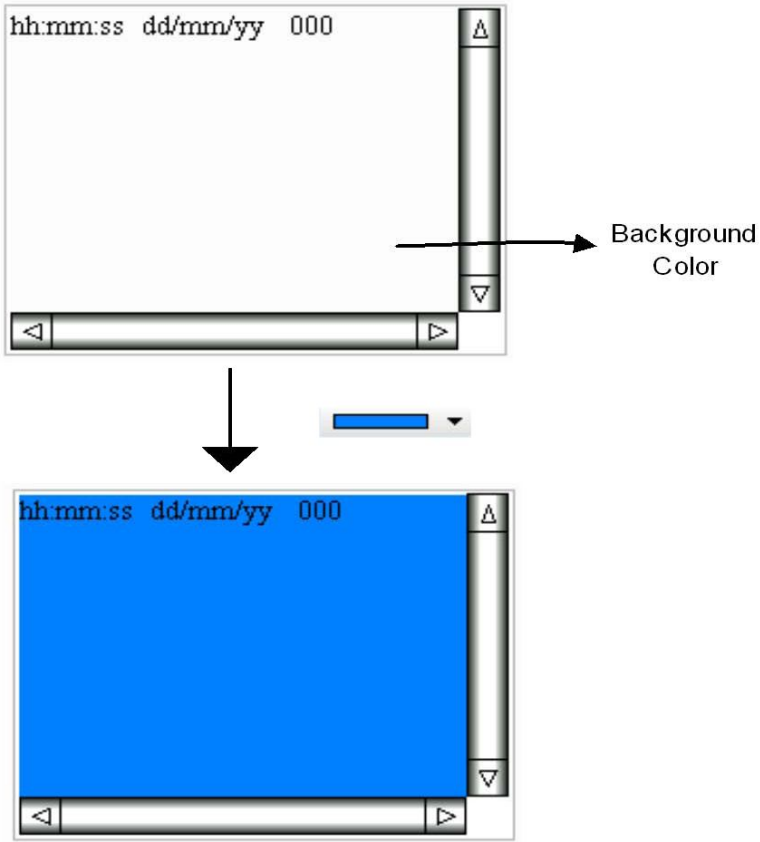


Fig. 16-3-2 Active Alarm List General property page

No.	Item	Function
(1)	Time Format	<p>➤ The following two time formats are supported:</p> 
(2)	Date Format	<p>➤ The following seven date formats are supported:</p>

No.	Item	Function
		
(3)	Display Color	<p>➤ The Display Color option is used to change the display color of the time and date. The color is  by default.</p> 
(4)	Alarm Number	<p>➤ Check this option to show the number of the alarm with it is triggered.</p>

No.	Item	Function
		
(5)	Background Color	<p>➤ The user can set the Background Color for the element.</p> 

## ◆ Location

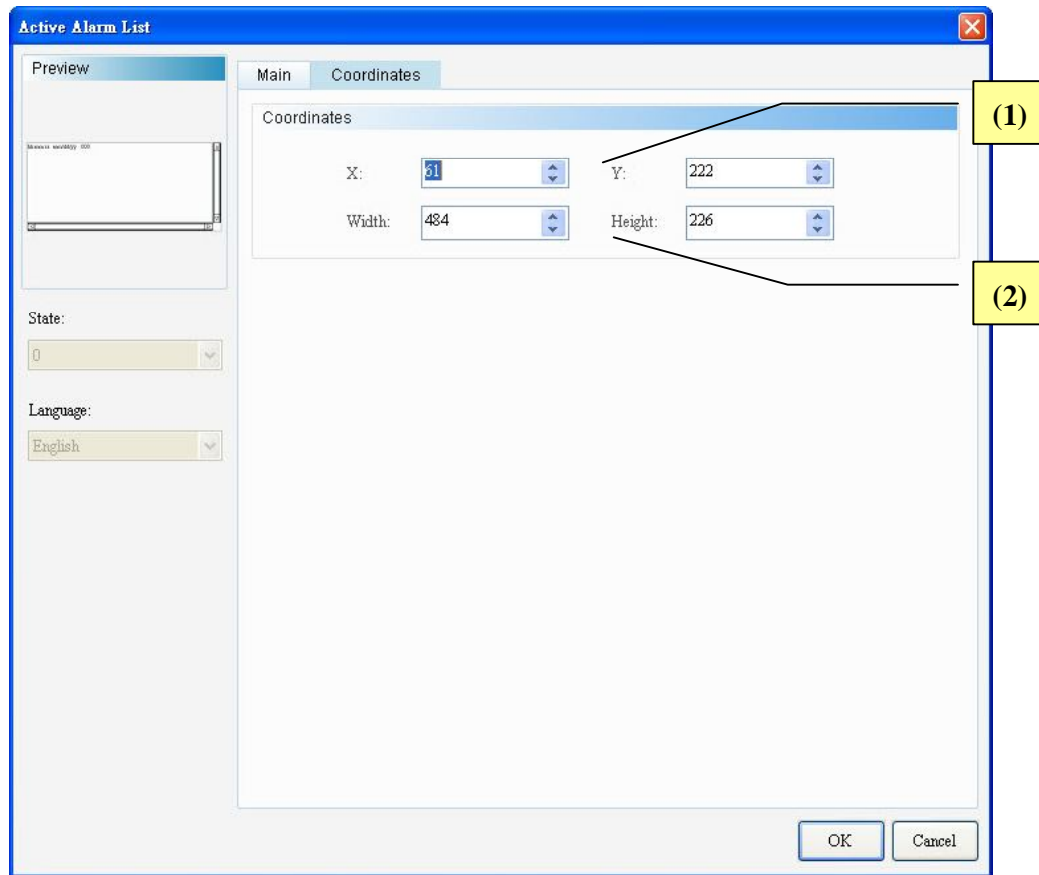


Fig. 16-3-3 Active Alarm List Position property page

No.	Item	Function
(1)	X Value, Y Value	➤ The X and Y coordinates at the upper left corner of the element.
(2)	Width, Height	➤ The width and height of the element.

## 16-4 Alarm Frequency Table



The Alarm Frequency Table element is used to record and display the occurrence times of each alarm.

Refer to the Alarm Frequency Table example in Table 16-4-1.

**History Frequency List Example**  
 Table 16-4-1 Alarm Frequency Table Example

This example is described with reference to the alarm parameters in Table 16-1-3 Alarm Setup Example.

**Alarm Setting**

Address:

Scan Time (second):

Max Records:

☒ Hold

☒ CSV Format

☒ Exit Screen Saver when alarm is triggered

**Alarm Moving Sign**

Enable:

Position:

Direction:

Moving Points:

Interval(ms):

Background Color:

Delete

Modify

Import

Export

OK

English Chinese

No	LED	Message Content	Text Color	Property	Screen	Inform
1	<input checked="" type="checkbox"/>	Alarm aaa	RGB(0, 0, 0)	On	None	
2	<input checked="" type="checkbox"/>	Alarm bbb	RGB(0, 0, 0)	On	None	
3	<input checked="" type="checkbox"/>	Alarm ccc	RGB(0, 0, 0)	On	None	
4	<input checked="" type="checkbox"/>	Alarm ddd	RGB(0, 0, 0)	On	None	
5	<input checked="" type="checkbox"/>	Alarm eee	RGB(0, 0, 0)	On	None	
6	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
7	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
8	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
9	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
10	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
11	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
12	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
13	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
14	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	
15	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None	

Font:  Size:  Ratio:

W:\$1600.0

Alarm a

W:\$1600.1

Alarm b

W:\$1600.2

Alarm c

W:\$1600.3

Alarm d

W:\$1600.4

Alarm e

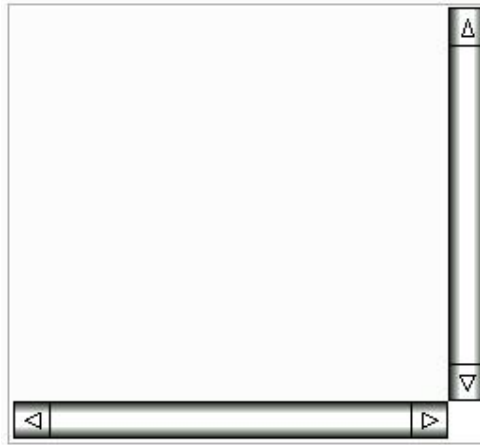


## History Frequency List Example

Table 16-4-1 Alarm Frequency Table Example

Add Alarm  
Frequency  
Table  
Element

- Step 1: Create the Alarm Frequency Table element.



- Step 2: Check [Time Format] , [Date Format] , [Alarm Number] and [Show 0 for No Alarm] to show the time, date and numbering of the alarm. When [Show 0 for No Alarm] is checked, 0 is displayed on the Alarm Frequency Table when there is no alarm triggered. Otherwise, no message is displayed when the occurrence time of the alarm is zero.

Detail

Status Display

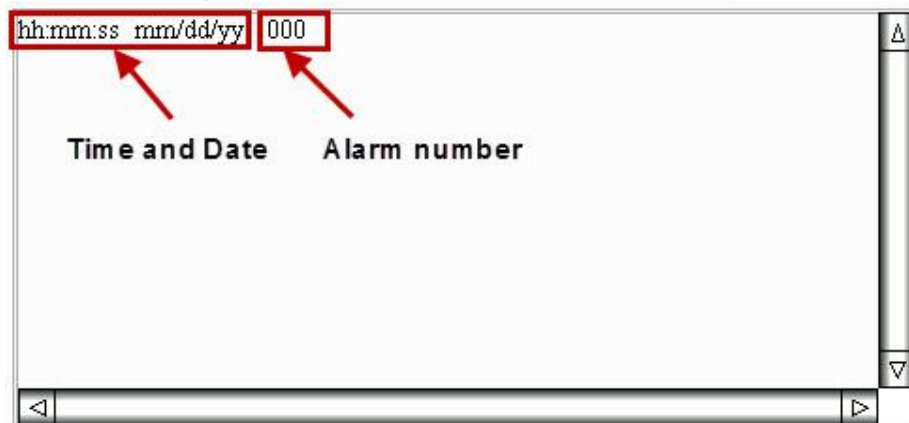
☒ Time hh:mm:ss

☒ Date Format mm/dd/yy

Color           

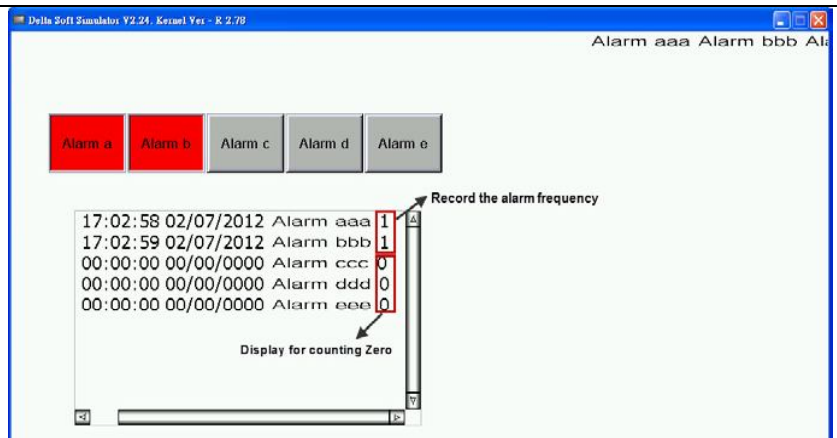
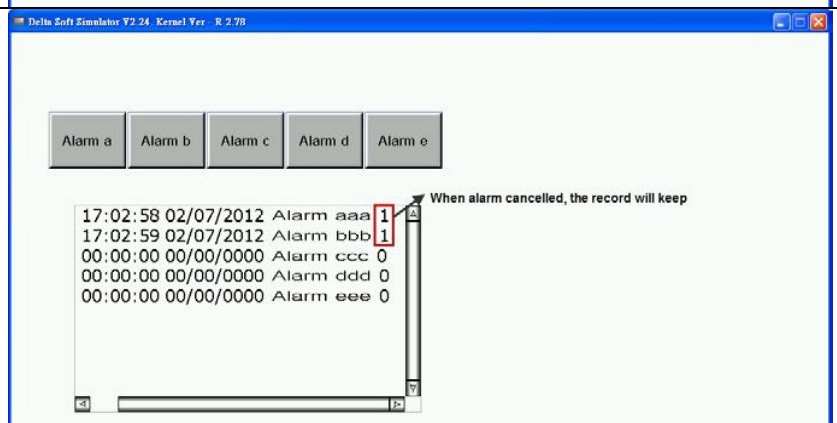
Other

☒ Alarm Number ☒ Display For Counting Zero



## History Frequency List Example

Table 16-4-1 Alarm Frequency Table Example

Execution Results	<p>➤ After creation of the Alarm Frequency Table, perform the compilation and download the element to HMI. When Alarm 1 and Alarm 2 are triggered once, the time, date, numbering and occurrence times of the alarm will be recorded on the Alarm Frequency Table. When the alarm is released, the record on the Alarm Frequency Table will not be cleared unless the alarm counter Bit of the general control flag in the control area is used to trigger the alarm ON to clear the record in the counter.</p>
	<div data-bbox="407 527 552 961"> <p><b>Alarm ON</b></p> </div> <div data-bbox="552 527 1385 961">  </div> <div data-bbox="407 961 552 1381"> <p><b>Alarm OFF</b></p> </div> <div data-bbox="552 961 1385 1381">  </div>

Double click the Alarm Frequency Table icon and the following property setting screen appears.

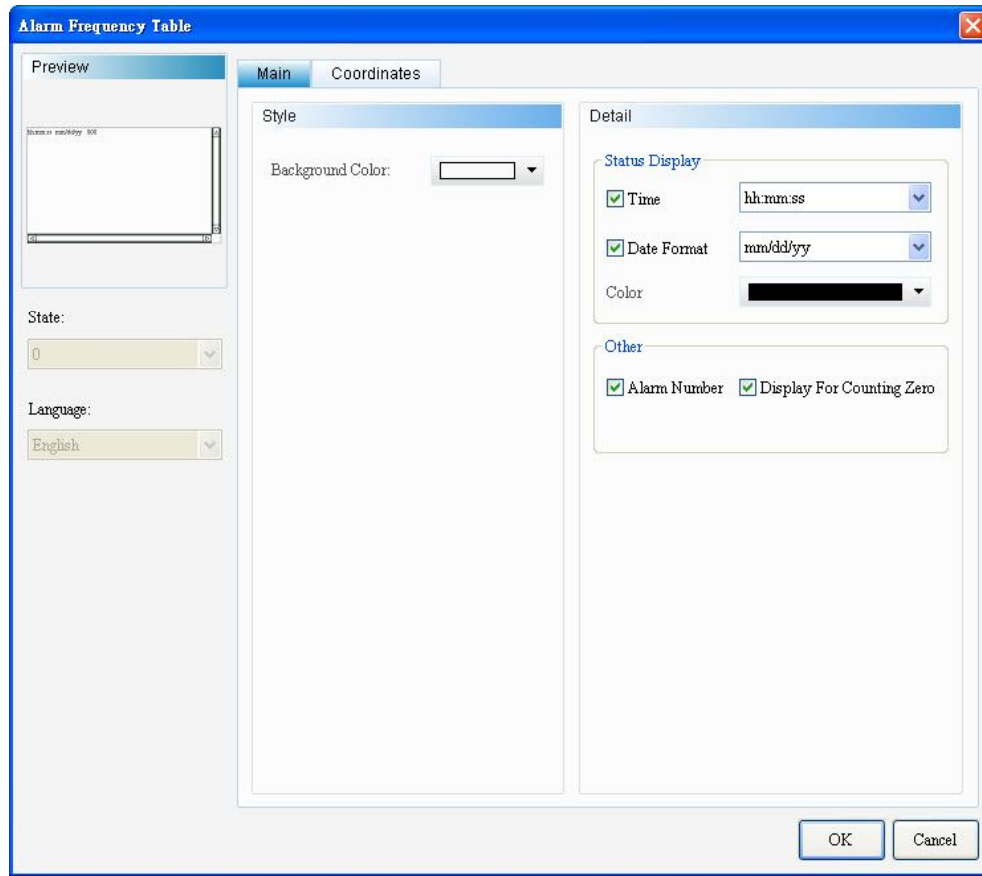


Fig. 16-4-1 Alarm Frequency Table property setting screen

Alarm Frequency Table	
Function Page	Content Description
Preview	The State and Language are not available to the Alarm Frequency Table.
General	Sets the Background Color, time format, date format, display color, alarm number, show 0 for no alarm.
Position	Sets the X-Y coordinates, width and height of the element.

Table 16-4-2 Alarm Frequency Table function page

## ◆ General

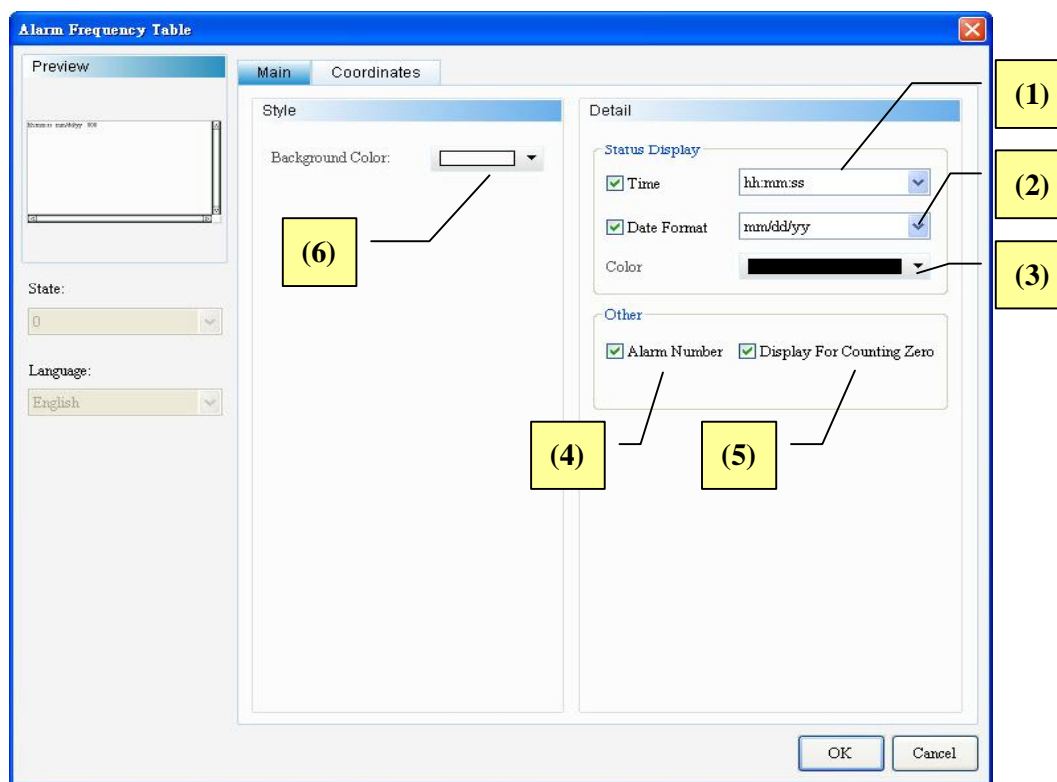
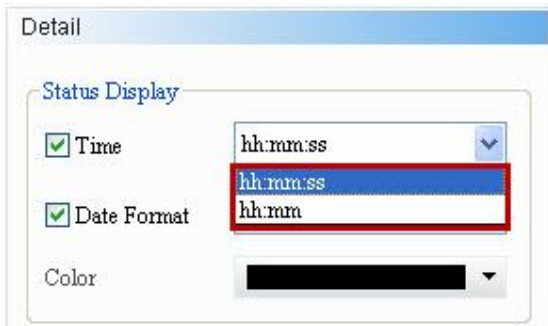
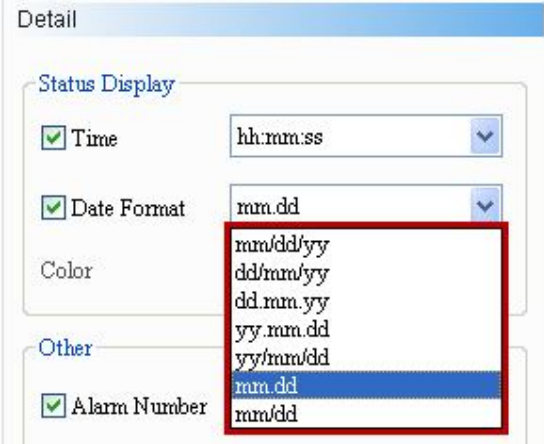

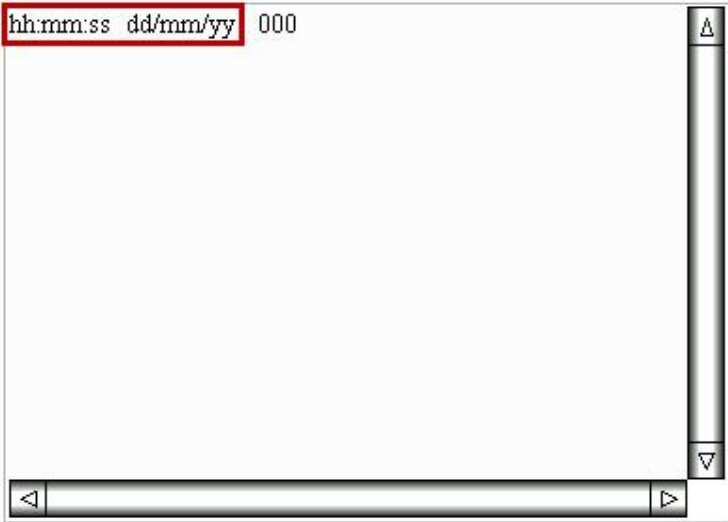
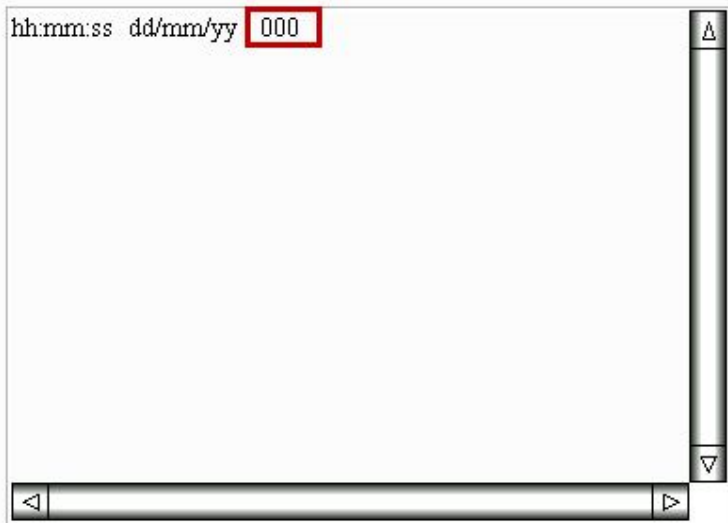






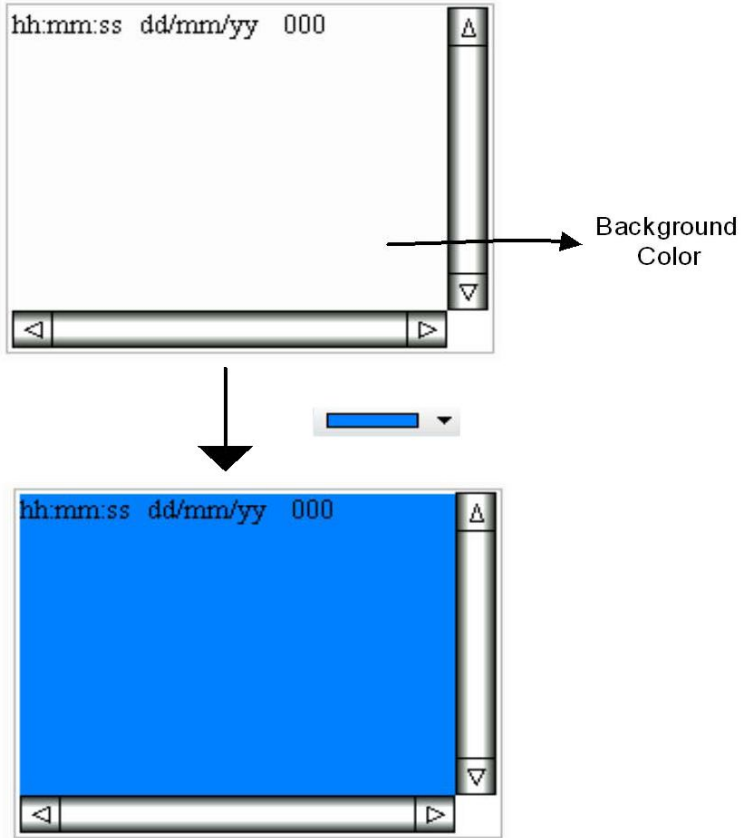


Fig. 16-4-2 Alarm Frequency Table General property page

No.	Item	Function
(1)	Time Format	<p>➤ The following two time formats are supported:</p> 
(2)	Date Format	<p>➤ The following seven date formats are supported:</p>

No.	Item	Function
		
(3)	Display Color	<p>➤ The Display Color option is used to change the display color of the time and date. The color is  by default.</p> 
(4)	Alarm Number	<p>➤ When the Alarm Number is check, the corresponding number will be display when an alarm is triggered.</p>

No.	Item	Function			
					
(5)	Show 0 for No Alarm	<p>➤ Check this option to show 0 on the Alarm Frequency Table when no alarm is triggered. Otherwise, no message is displayed when the occurrence time of the alarm is zero.</p>			
		<table><tr><td rowspan="2">Checked</td><td></td></tr><tr><td></td></tr></table>	Checked		
		Checked			
Unchecked	<table><tr><td rowspan="2">Unchecked</td><td></td></tr><tr><td></td></tr></table>	Unchecked			
Unchecked					
(6)	Background Color	<p>➤ The user can set the Background Color for the element.</p>			

No.	Item	Function
		 <p>The diagram illustrates the function of the 'Background Color' setting. It shows two states of a text input field with the placeholder text 'hh:mm:ss dd/mm/yy 000'. In the top state, the background is white. An arrow points to the right, labeled 'Background Color', indicating the setting being modified. Below this, a color selection bar is shown with a blue bar selected. A large downward arrow points to the bottom state, where the entire text input field has a solid blue background.</p>



◆ Location

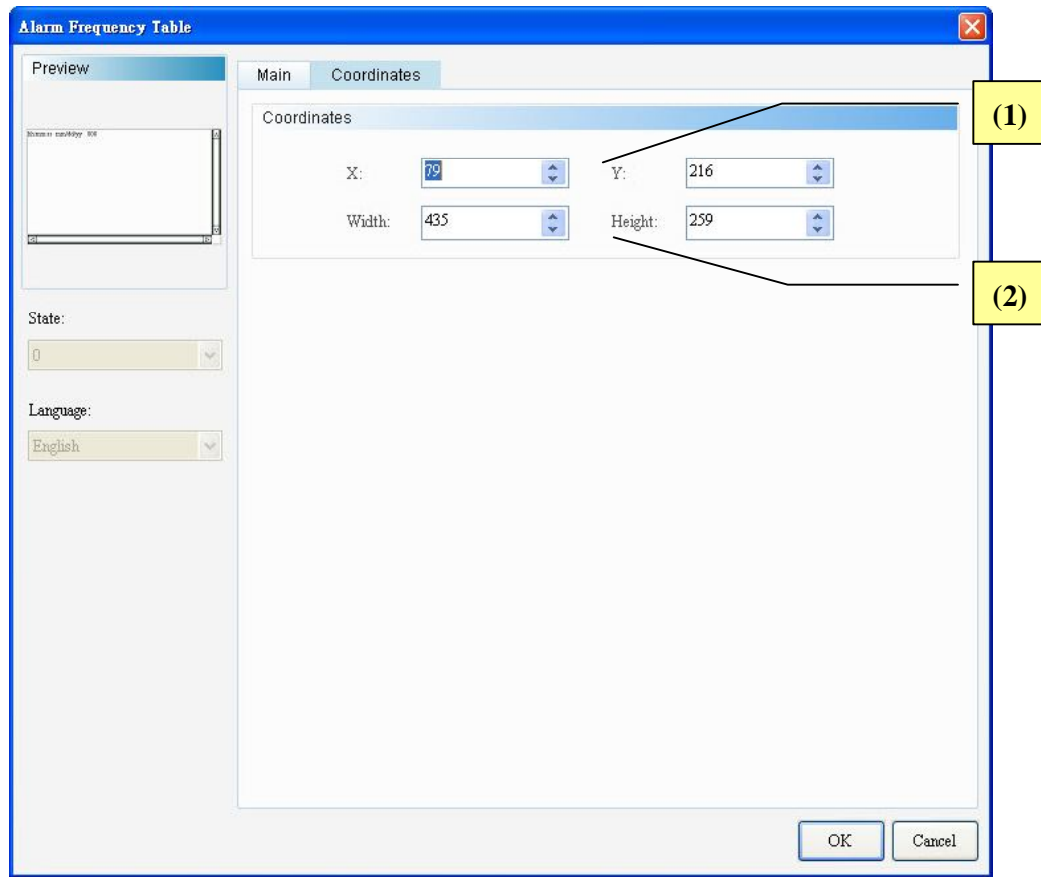



Fig. 16-4-3 Alarm Frequency Table Position property page

No.	Item	Function
(1)	X value, Y value	➤ The X and Y coordinate at the upper left corner of the element.
(2)	Width, Height	➤ The width and height of the element.

## 16-5 Alarm Moving Sign

	Alarm Moving Sign
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The Alarm Moving Sign element is used to record and display the numbering, time and date of the alarm. The user can define the preferred interval and moving points for the display. The parameter settings of this element are same as the [Options] → [Alarm Setup] Alarm Moving Sign. The user can use this element and the Alarm Moving Sign in the Alarm Setup simultaneously, but the Alarm Moving Sign element will generate a message in the form of a moving sign on the HMI screen regardless of the page it is used for. The settings of both elements are independent and no cross-reference exists in between.

Refer to the Alarm Moving Sign example in Table 16-5-1.

Alarm Moving Sign Example Table 16-5-1 Alarm Moving Sign Example	
This example is described with reference to the alarm parameters in Table 16-1-3 Alarm Setup Example.	

### Alarm Moving Sign Example

Table 16-5-1 Alarm Moving Sign Example

#### Alarm Setup

**Alarm Setting**

Address:

Scan Time (second):

Max Records:

☒ Hold

☒ CSV Format

☒ Exit Screen Saver when alarm is triggered

**Alarm Moving Sign**

Enable:

Position:

Direction:

Moving Points:

Interval(ms):

Background Color:

Delete

Modify

Import

Export

OK

English Chinese

No.	LED	Message Content	Text Color	Property	Screen Inform.
1	<input checked="" type="checkbox"/>	Alarm aaa	RGB(0, 0, 0)	On	None
2	<input checked="" type="checkbox"/>	Alarm bbb	RGB(0, 0, 0)	On	None
3	<input checked="" type="checkbox"/>	Alarm ccc	RGB(0, 0, 0)	On	None
4	<input checked="" type="checkbox"/>	Alarm ddd	RGB(0, 0, 0)	On	None
5	<input checked="" type="checkbox"/>	Alarm eee	RGB(0, 0, 0)	On	None
6	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
7	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
8	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
9	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
10	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
11	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
12	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
13	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
14	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None
15	<input checked="" type="checkbox"/>		RGB(0, 0, 0)	On	None

Font:  Size:  Ratio:

W:\$1600.0

W:\$1600.1

W:\$1600.2

W:\$1600.3

W:\$1600.4

Alarm a

Alarm b

Alarm c

Alarm d

Alarm e

Add Alarm Moving Sign Element

➤ Step 1: Create the Alarm Moving Sign element.

➤ Step 2: Check [Time Format] , [Date Format] and [Alarm number] , and set [Time Interval] and [Moving Points] . This element is used to display the numbering, time and date of the alarm. The user can

## Alarm Moving Sign Example

Table 16-5-1 Alarm Moving Sign Example

define the preferred interval and moving points for the display.

Detail

Interval(ms): 100

Moving Points: 1

Status Display

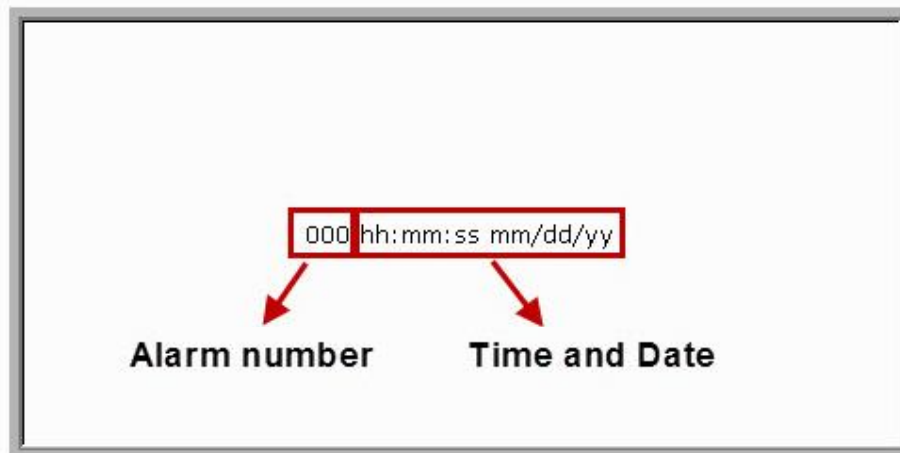
☒ Time: hh:mm:ss

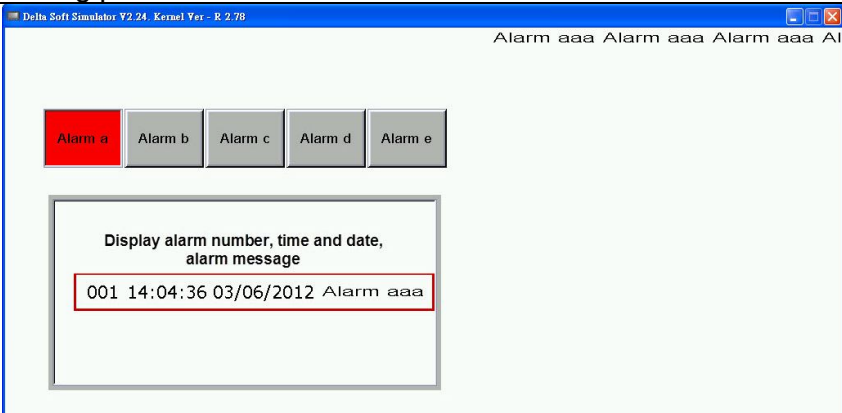
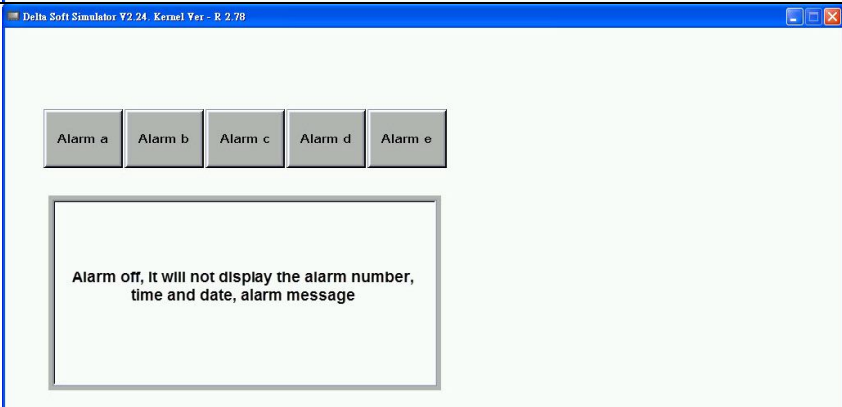
☒ Date Format: mm/dd/yy

Color:           

Other

☒ Alarm Number



Alarm Moving Sign Example		
Table 16-5-1 Alarm Moving Sign Example		
Execution results	➤	After creation of the Alarm Moving Sign element, perform the compilation and download the element to HMI. When Alarm 1 is triggered, the Alarm Moving Sign element will display the time, date and number of the alarm triggered according to the preset interval and moving points.
	Alarm ON	
	Alarm OFF	

Double click the Alarm Moving Sign icon and the following property setting screen appears.

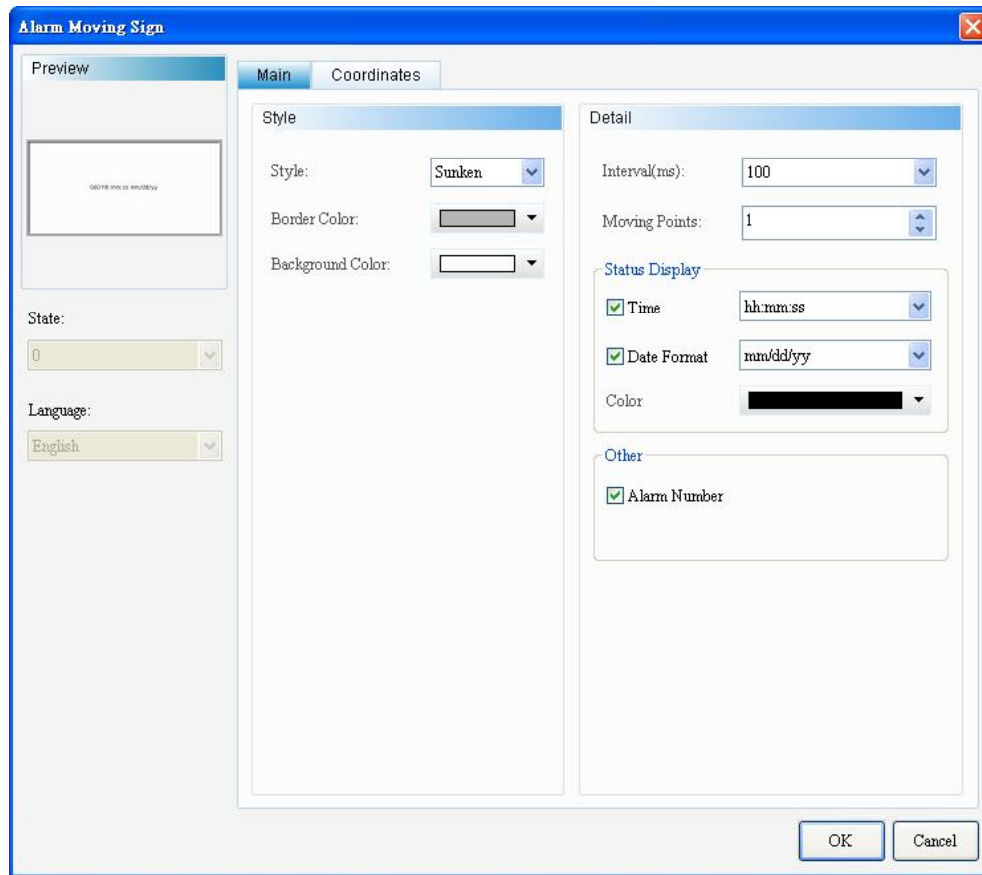


Fig. 16-5-1 Alarm Moving Sign property setting screen

Alarm Moving Sign	
Function Page	Content Description
Preview	The State and Language are not available to the Alarm Moving Sign.
General	Sets the style, border color, Background Color, interval time (ms), moving points, time format, date format, display color, alarm number.
Position	Sets the X-Y coordinates, width and height of the element

Table 16-5-2 Alarm Moving Sign function page

## ◆ General

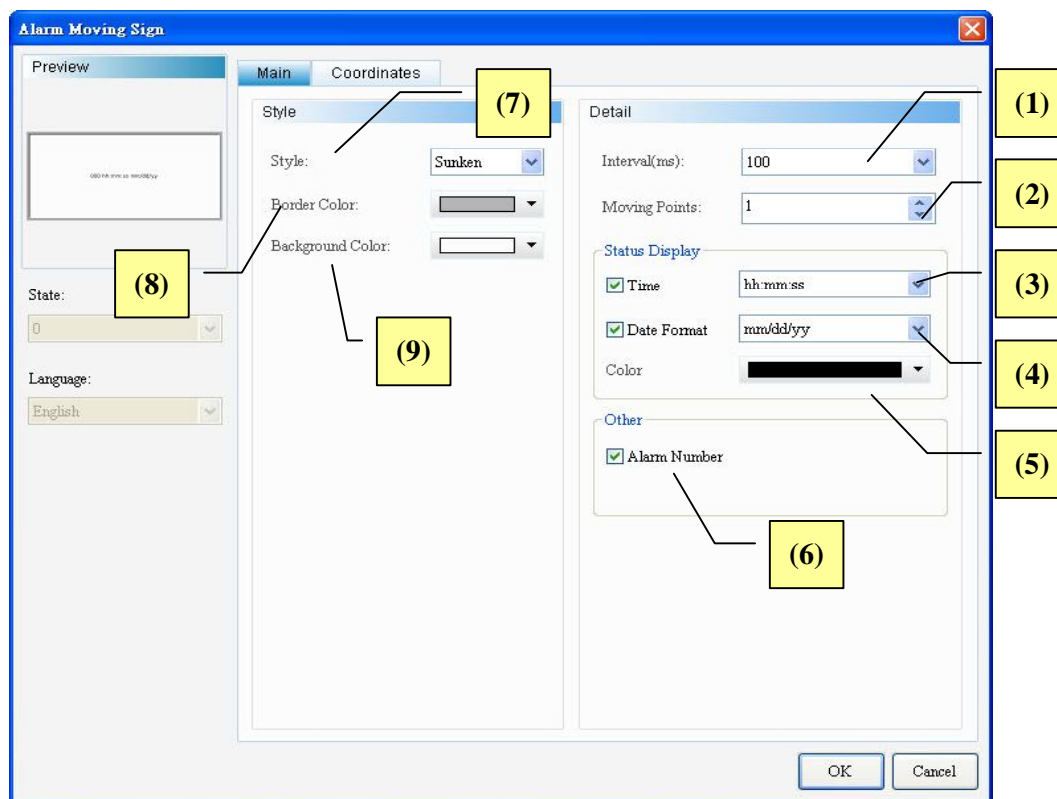
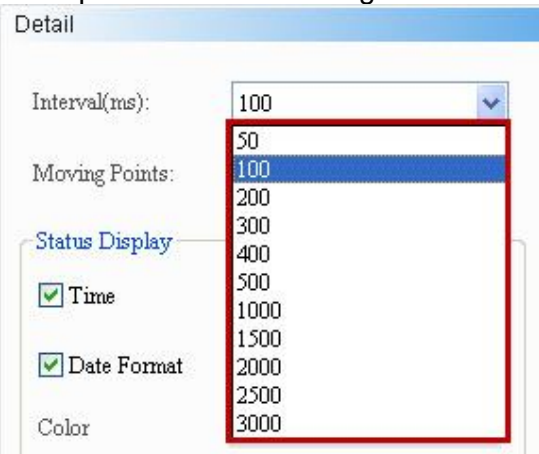
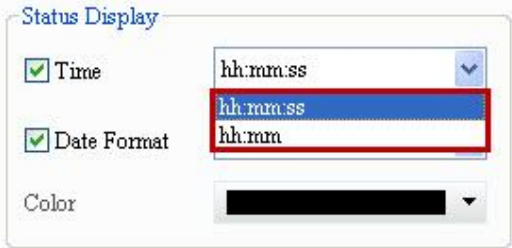
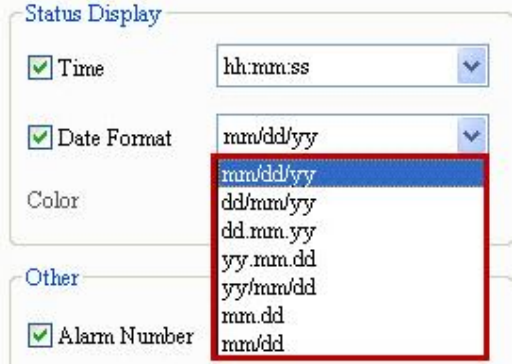




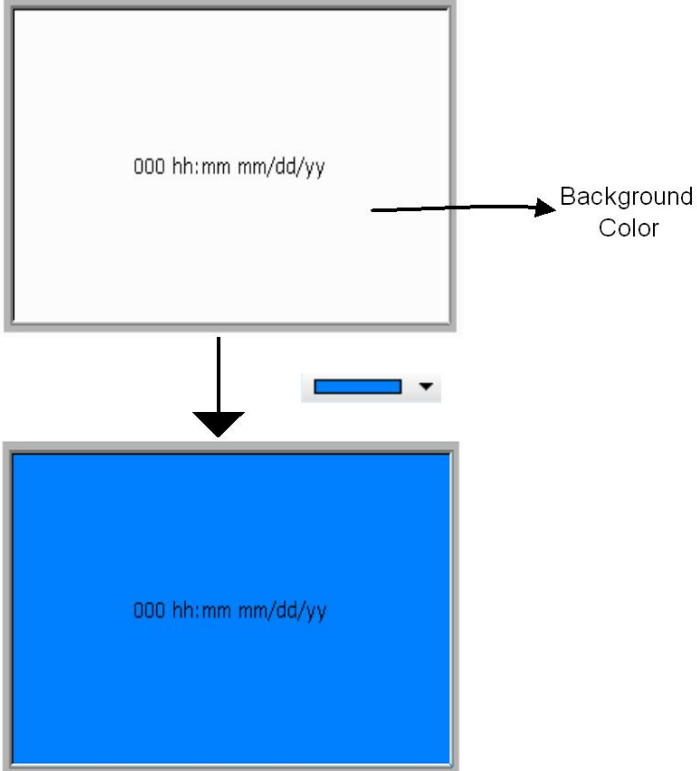
Fig. 16-5-2 Alarm Moving Sign General property page

No.	Item	Function
(1)	Interval Time (ms)	<p>➤ The Interval defines the time (ms) between two message movements of the Alarm Moving Sign. The moving distance is set up based on the setting of the Moving Points. The moving distance is set up based on the setting of the Moving Points.</p> 
(2)	Moving Points	<p>➤ The higher the moving points, the more the distance to which the text moves. The setting range is 1~50 with Pixel as the unit.</p>

No.	Item	Function
(3)	Time Format	<p>➤ The following two time formats are supported:</p> 
(4)	Date Format	<p>➤ The following seven date formats are supported:</p> 
(5)	Display Color	<p>➤ The Display Color option is used to change the display color of the time and date. The color is  by default.</p> 
(6)	Alarm Number	<p>➤ When the Alarm Number is check, the corresponding number will be display when an alarm is triggered.</p>



No.	Item	Function								
		<div><div>000 hh:mm mm/dd/yy</div></div>								
(7)	Style	<div><div>➤ The style is Standard, Raised, Sunken or Transparent. This setting allows the user to change the appearance of the element.</div><table><tr><th>Standard</th><th>Raised</th><th>Sunken</th><th>Transparent</th></tr><tr><td><div><div>000 hh:mm mm/dd/yy</div></div></td><td><div><div>000 hh:mm mm/dd/yy</div></div></td><td><div><div>000 hh:mm mm/dd/yy</div></div></td><td><div><div>000 hh:mm mm/dd/yy</div></div></td></tr></table></div>	Standard	Raised	Sunken	Transparent	<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>
Standard	Raised	Sunken	Transparent							
<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>	<div><div>000 hh:mm mm/dd/yy</div></div>							
(8)	Border Color	<div><div>➤ The user can set the border color for the element.</div><div>➤ When Transparent is selected as the style, the setting of the border color is disabled.</div><div><div><div><div>000 hh:mm mm/dd/yy</div></div><div>Border Color</div></div><div><div></div><div></div></div><div><div>000 hh:mm mm/dd/yy</div></div></div></div>								
(9)	Background Color	<div><div>➤ The user can set the Background Color for the element.</div></div>								

No.	Item	Function
		 <p>The diagram illustrates a function where the background color of a display area changes. It shows two states of a rectangular box. In the top state, the box has a white background and contains the text "000 hh:mm mm/dd/yy". An arrow points from the text area to the label "Background Color". A downward arrow indicates a transition to the bottom state, where the box has a blue background and contains the same text. A small blue box with a dropdown arrow is positioned between the two states, suggesting a selection or configuration step.</p>

◆ Location

The screenshot shows the 'Alarm Moving Sign' dialog box with the 'Coordinates' tab selected. The 'Coordinates' section contains four spinners: 'X' (53), 'Y' (204), 'Width' (480), and 'Height' (240). Two yellow callout boxes with numbers (1) and (2) point to the 'X' and 'Y' spinners respectively. The dialog has 'OK' and 'Cancel' buttons at the bottom right.

Fig. 16-5-3 Alarm Moving Sign Position property page

No.	Item	Function
(1)	X Value, Y Value	➤ The X and Y coordinate at the left corner of the element.
(2)	Width, Height	➤ The width and height of the element.