

## 2.5 ( build170731 ) New Function Instruction

### 1 New Functions

#### 1.1 Event

##### 1.1.1 Total number of items

Add [Use Total Entry],so that users can query total items of Event Display

The 'Use Total Entry' dialog box contains the following fields:

- ☐ Use Total Entry
- HMI: HMI1 (dropdown), PLC No: (dropdown)
- Port: None
- ☐ Change Station Num: 0 (dropdown)
- Addr. Type: LW (dropdown), Address: 0 (text box)
- Code Type: BIN (dropdown), Word Length: 1 (dropdown)
- ☐ Use Address Tag
- Format(Range): DDDDD (0--10255)

##### 1.1.2 Select Color

Add [Back to Normal and Acknowledge Color]

The 'Select Color' dialog box contains the following fields:

- ☒ Select Color
- Back to Normal and Acknowledge Color (dropdown menu with a green color swatch)

##### 1.1.3 One Key to Acknowledge Event

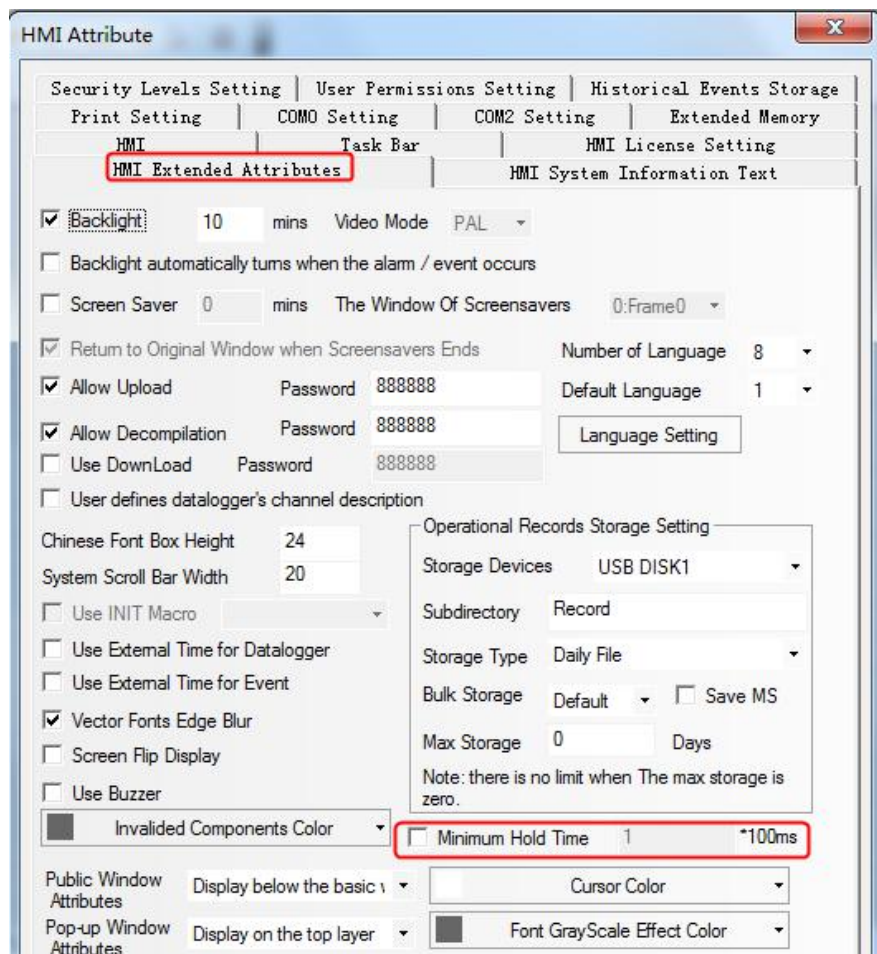
Use one key to acknowledge all events through using register

The 'One Key To Acknowledge Event' dialog box contains the following fields:

- ☒ One Key To Acknowledge Event
- Trigger Type: OFF->ON (dropdown)
- Trigger Address section:
  - HMI: HMI1 (dropdown), PLC No: (dropdown)
  - Addr. Type: LB (dropdown), Address: 0 (text box)
  - Code Type: BIN (dropdown), Word Length: 1 (dropdown)
  - ☐ Use Address Tag
  - Format(Range): DDDD (0--9999)

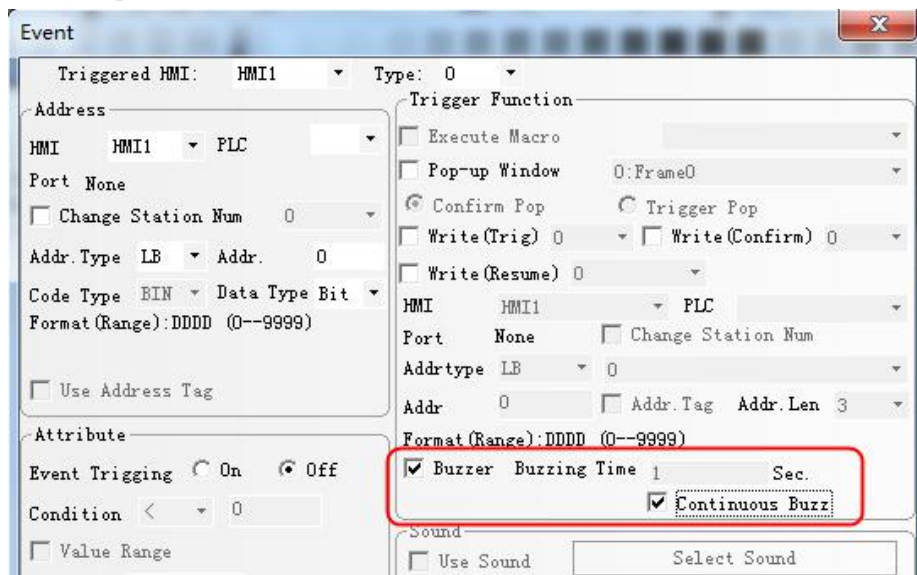
##### 1.1.4 Minimum Hold time

Add minimum hold time to prevent HMI from wrong alarming



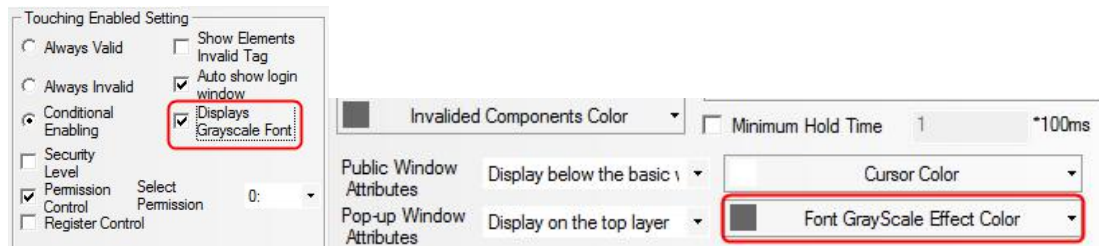
### 1.1.5 Continuous Buzz

The buzz only stops when alarm is off

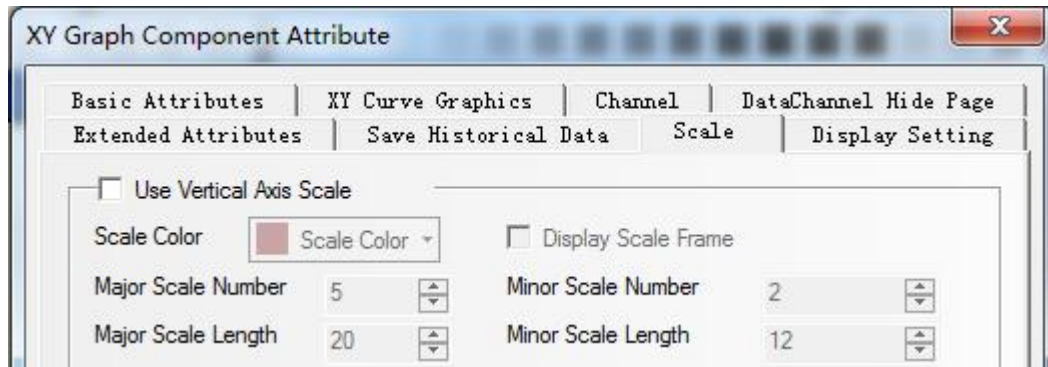


## 1.2 Change font color when touch is invalid

Add Displays Grayscale Font when touch is invalid. The default font color is gray when touch is invalid. However, font color can be set in [HMI Attribute]-[HMI Extended Attributes]

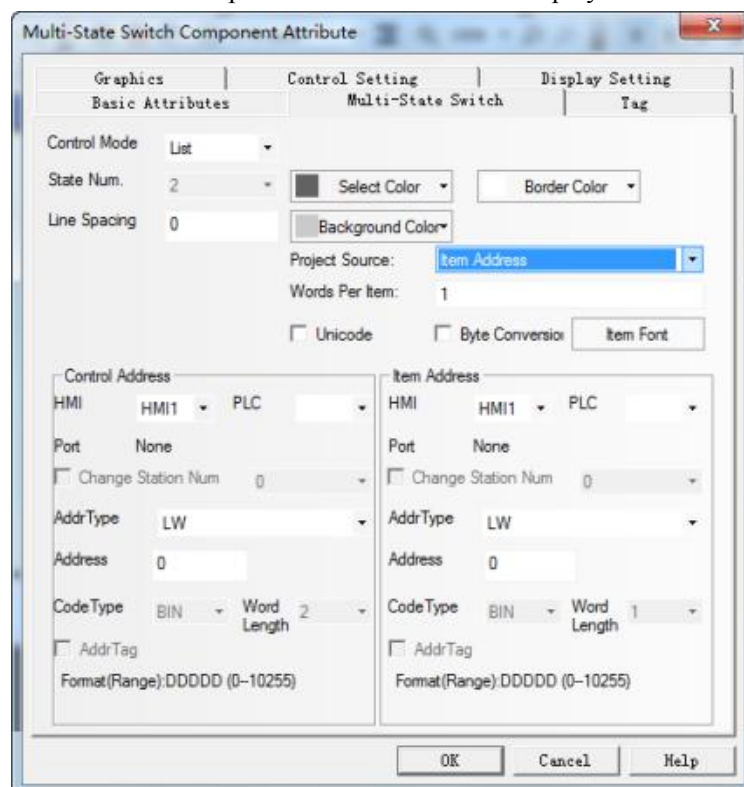


### 1.3 Add Scale to XY Graph



### 1.4 Item Address of List and Dropdown List

Add Project Source to List and Dropdown List so that it can display data from item address

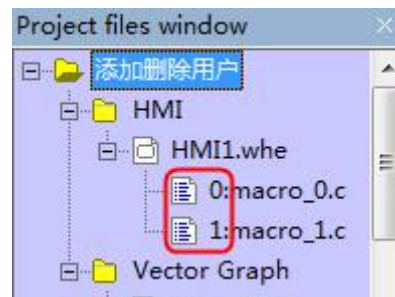


Project Source	
Item Address	When HMI works,this component displays the specified register data
Words per Item	Set each item`s words
Unicode	chosen, data displays in unicode ; not, data displays in ASCII
Byte Conversion	Chosen,data in ASCII is byte-conversion
Read Address(Basic Attributes)	

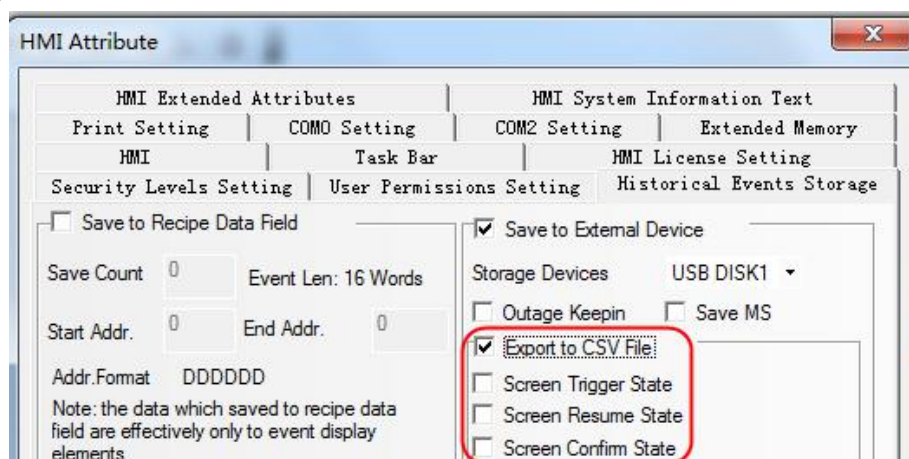
Read Address	When setting value,list will choose related text automatically
Control Address	
Update source of item address	
Control address	Set 1,, list displays data from address specified by item address
Control address+1	Set numbers of read address
Item Address	
Set the first address of data source	

### 1.5 Serial number of macro

Add serial number for convenience when read macros



### 1.6 Add options of state and type in Historical Events Storage-Save to External Device



### 1.7 Add functions in macro to visit PLC registers

```
int ReadData(register variable,int plcNo, int addr, int nRegs, void *buf);
```

```
int WriteData(register variable, int plcNo, int addr, int nRegs, void *buf);
```

[Parameter Instruction]

[register variable] Variable name of 'function variable'

[plcNo] PLC station

[addr] W/R address(can be set as index register,in other wordsaddress offset)

[nRegs]number of registers

[buf] W/R buffer

[return value]get fail or success.or get fail or success code

If variable is Param as below,then it reads data from 4X100(station 1):

```
short dat;
```

```
ReadData(Param, 1, 100, 1, (void*)&dat);
```

PLC registers visited by communication function is defined as before .Besides,'function variable'



should shows up inthe list.Users can create new ‘function variable window’ or use variable window as before .

Parameters[macro\_0.c]

DataType	Param name	PLC No.	PLC Addr...	Add
unsigned s...	a	1	MW	0

Macro Code Variable

Variable:  HMI: HMIO

Data Type: unsigned short PLC No.: 1

Port: Fieldbus ☐ Change Station Num: 2

Address Type: MW Address: 0

Code Type: BIN ☐ AddrTag

Format (Range): DDDD (0--8190)

Word Length: 1 ☐ Array variable

R/W: Read/Write Array Length:

OK Cancel

For example:

```
24 int MacroEntry()  
25 = {  
26 short dat,at1;  
27 bool buf;  
28  
29 ReadData(a,2,10,1,(void *)&dat);  
30 WriteData(b,2,12,1,(void *)&dat);  
31  
32 ReadData(a,2,20,1,(void *)&dat1);  
33 WriteData(b,2,22,1,(void *)&dat1);  
34  
35 ReadData(f1,2,0,15,(void *)&dat);  
36 WriteData(f2,2,80,15,(void *)&dat);  
37  
38 return 0;  
39 }  
40
```

Parameters[macro\_0.c]

DataType	Param name	PLC No.	PLC Addr...	Address	Word...	OptMode
unsigned s...	a	1	MW	0	1	Read/Write
unsigned s...	b	1	MW	2	1	Read/Write
bit	f1	1	Q	0.0	1	Read/Write
bit	f2	1	Q	10.0	1	Read/Write

1.8 Add new function:set background color of list frame

Multi-State Switch Component Attribute

Graphics | Control Setting | Display Setting

Basic Attributes | Multi-State Switch | Tag

Control Mode: Dropdown L

State Num.: 2

Line Spacing: 0

Data Mapping Project Source: Default

State No.	Map Value
0	0
1	1

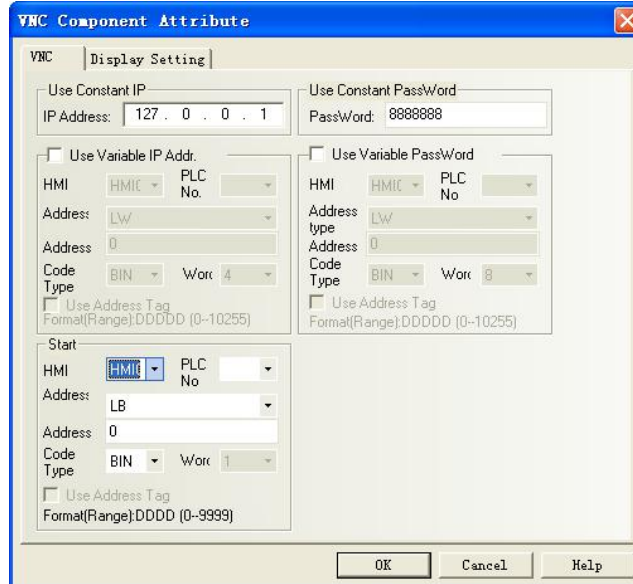
OK Cancel Help

## 1.9 New local registers:ELW,ELW.B(not power-off-hold register)

This register is similar to LW, not power-off-hold,ELW:0-134217727,ELW.B:0~134217727.F.HMI cannot visit another one's ELW or ELW.B

## 1.10 VNC client

The HMI can monitor or operate another HMI by this component.



## 2.New special registers

Address	Description	R/W
LB9125	Items of Event Display can be set to start from serial number 1 or 0 . LB9125=on for 1, LB9125=off(default) for 0	R/W
LB9057	put modified serial port communication parametrs into effect immediately when LB9507 is on,default value:off	R/W
LB9115	Improve macro response performance. Set higher priority to Function Button in triggering a macro by setting LB9115 on	R/W
LB9147	copy/paste folder in File List(LB9147=on). Default value:LB9147=off	R/W
LB9148	update data from sample components like Trend Curve to CSV	R/W
LB9403	On:event recover,buzz keeps on.off:event recover,buzz off	R/W
LW9999	Display millisecond of system time	R
LW9051	Read the former frame number	R
LW9131	set second for Screen Saver.So far users can set minute in software and set second in LW9131 for it	R/W
LW9605~9606	shield PLC network communication. Related registers:LW9605-9606. LW9605.0~9605.2 for serial 0- serial2, the others for network communication,as to say users can shield 29 PLC network communication	R/W
LB9103	on,not empty LW9060 ~ 9075 numerical after input the numerical	R/W
LB9211	ON, clear all events cumulative time	

LB9212	ON, clear all events cumulative count	
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## USB scan gun

Address	Description	R/W
LB9107	On:gun in use	R/W
LB8999	Get valid data.Once scan successfully,it turns on.Users should set off manually next time	R/W
LW8900	Beginning address of receiving text	R/W

## User permission

Address	Description	R/W
LW9515	days that users cannot change current password	R/W
LW9516	days for users to keep current password	R/W
LB9192	no password change sign	R
LB9193	change password warning	R
LW9840~9847	Password(whole keyboard)	R/W
LW9848~9855	Ensure password (whole keyboard)	R/W