

Shanghai Onbon Software Technology Co.,Ltd

**Ledshow TW2011 Graphics & Text Edit Software**

User Manual

November 7,2011

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| 2.0        | 2011 | Jf.pan | 1.Add animation edit function details <a href="#">4.4</a><br>2.Add communication setting details <a href="#">5.3.2.2</a><br>3.Add BX-4U series user manual details <a href="#">6.1</a> |

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## Ledshow TW2011 Graphics & Text Edit Software

### 1. Summary

#### 1.1 LedshowTW 2011 introduction

Ledshow software is special designed for LED graphics& text controller, put on the market in 1998,after the update and development of several generations of products, the function is increasingly improved and easy to operate, well received by the user's favorite.

LedshowTW 2011 version is the most perfect solution since we worked in research and development of LED asynchronous controller for so many years It has been improved a lot in function and usage. Since Jan 2007 to today, thanks for all the help and guidance from the industry friends!

#### **LedshowTW 2011 main functions & features**

Software description

- ◆ Matching software for the fourth generation LED display controllers of Onbon.

Support controller:

- ◆ BX-4T1、BX-4T2、BX-4T3、BX-4A1、BX-4A2、BX-4A3、BX-4AQ、BX-4A、BX-4UT、BX-4U0、BX-4U1、BX-4U2、BX-4U2X、BX-4U3、BX-4M0、BX-4M1、BX-4M、BX-4MC、BX-4C、BX-4E1、BX-4E、BX-4EL、BX-3T、BX-3A1、BX-3A2、BX-3A、BX-3M

Software Advantages:

- ◆ The most professional LED screens management software
- ◆ The strongest program management functions
- ◆ The most powerful materials editor
- ◆ The most efficient data communication
- ◆ The most innovative colorful magic screen boards
- ◆ The most hyun-active animation stunt selection

Cluster system management

- ◆ Support group management: support up to 256 screens management
- ◆ Support send modes: group mode/save data to USB equipment

Program attributes

- ◆ Program type: normal/overall situation/ real time /shared/self-adapt program
- ◆ Play mode: play one by one/fixed length play/timing play
- ◆ Program quantity: each screen support 192 programs most
- ◆ Area quantity: each screen support 128 areas most

---

#### Material edit

- ◆ The new text editor: Support multi-languages, flexible word spacing and lines spacing can be adjustment
- ◆ The new table editor: Support multi-languages, power cell editing function

#### Material supported

- ◆ Text files(\*.txt, \*.rtf, \*.doc), picture files(\*.bmp, \*.jpg, \*.gif), table files(\*.xls, \*.tbf), animation files(\*.avi, \*.gif, \*.swf)
- ◆ Support the automatic conversion of Word and Excel

#### Network communication

- ◆ MAC bindings Mechanism, Ethernet auto-connection
- ◆ Support PC direct connection/cross-Ethernet connection/cross-internet connection

#### Time mode

- ◆ Support multi-groups of digital and analogue time areas, timer areas
- ◆ Support time zone and time difference setting

#### Sensors supported

- ◆ Two temperature sensors/humidity sensor/noise sensor

#### Languages

- ◆ With brand new multi-language adaptive function BX products can be applied worldwide easily

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## 2. Software modify and update

- ◆ Add German and Arabic language version in Multi-language
- ◆ Add back to read sensors parameters function in BX-4M0
- ◆ Add BX-4UT/4U0/4U1/4U2/4U2X/4U3/4M0 controller in the software
- ◆ Add 2.221、 2.131 in scanning method
- ◆ Modify the height of prompt message in the screen parameters setting ,ensure the integrated display of prompt message
- ◆ Modify the display order of the controllers
- ◆ Add the area function of temperature &humidity in BX-4U3
- ◆ According to the update of BX-4T2,add controller program maintenance :control the 3(V \*\*\*\*\* 02 \*\*\*\*\*)version



### 3. Interface introduction

《LedshowTW2011 Graphics & Text Edit Software》 running interface is shown in figure 3-1, is composite by four parts.

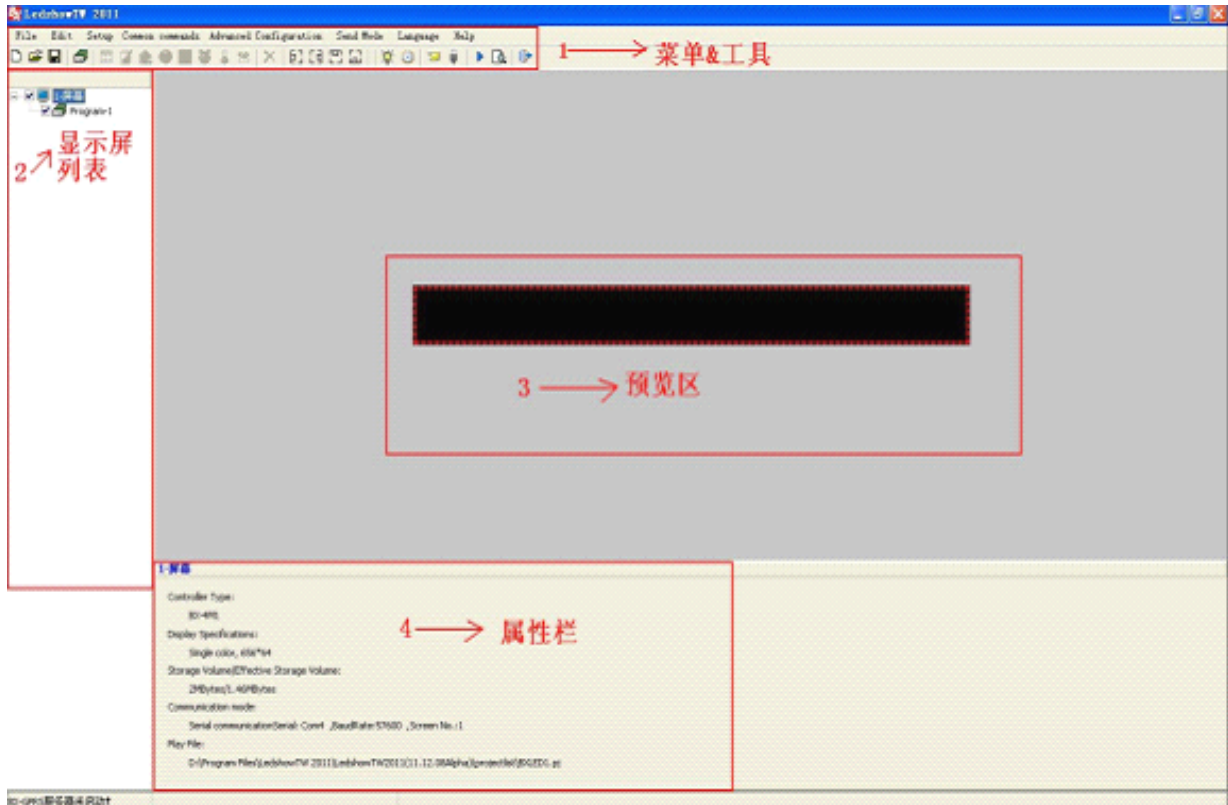


figure 3-1

#### 3.1 menu toolbar

##### 3.1.1 menu

The menu is composite by file, edit, Settings, common command, senior configuration, send mode, language and the help

As shown in figure 3-2.

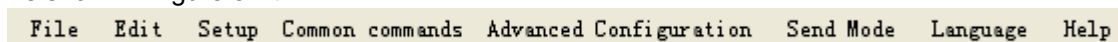


figure 3-2

##### 3.1.1.1 file menu

As shown in figure 3-3, file menu include: New program file, open program file, program file save as, open program template, save program template, system backup, system restore, exit.

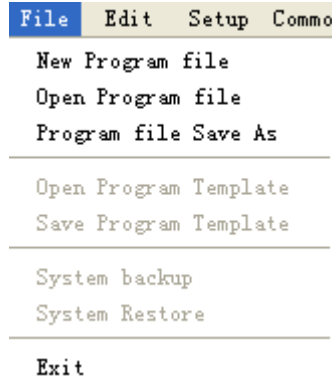


figure 3-3

- ◆ New program file: used to create a specified screen program broadcast documents
- ◆ Open program file: used to load an edit program,(prerequisite is the program has been saved)
- ◆ Program file save as: used to save the current broadcast files
- ◆ Open program template
- ◆ Save program template
- ◆ system backup
- ◆ system restore
- ◆ Exit :used to exit the LedshowTW 2011 software

### 3.1.1.2 Edit menu

As shown in figure 3-4,the edit menu include: add general program, add image/text zone, add subtitle zone, add animation zone, add dial zone, add date time zone, add timer zone, delete zone .

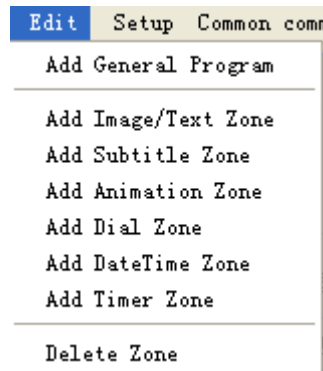


Figure3-4

- ◆ General program: add a general program
- ◆ Image /text zone: add a image/text area in the preview filed, prerequisite is the general program has been added .

- ◆ Subtitle zone: add subtitle area in the preview area, prerequisite is the general program has been added.
- ◆ Animation area: add animation area in the preview area, prerequisite is the general program has been added.
- ◆ Dial area: add dial area in the preview area, prerequisite is the general program has been added.
- ◆ Date time zone: add date time zone area in the preview area, prerequisite is the general program has been added.
- ◆ Timer zone: add timer area in the preview area, prerequisite is the general program has been added.
- ◆ Delete zone: Delete select object in the preview area

### 3.1.1.3 Setting menu

As shown in figure 3-5, setting menu include: set screen parameters , reset screen parameters, firmware maintenance ,network sever configuration, GPRS server configuration, Network IP configuration, network IP configuration, MAC address maintenance , check the screen state. Used to set the controller parameters. More details in [5.3 set screen parameters](#) .

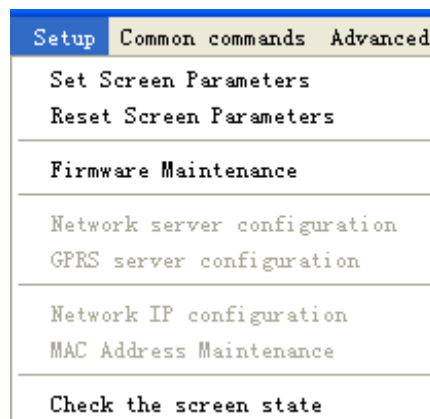


figure 3-5

### 3.1.1.4 Common commends

As shown in figure3-6,common commends include: adjust brightness, correction time, automatic correction time, turn on, turn off, timer for switch, lock screen, unlock screen.

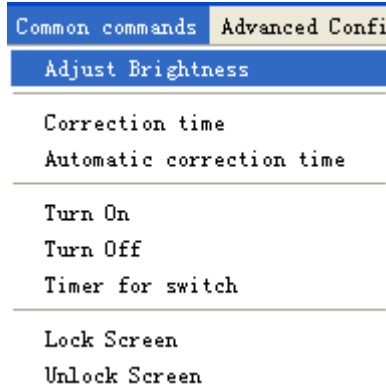


figure3-6

### 3.1.1.5 Advanced configuration

As shown in figure 3-7, advanced configuration include: delay start screen, controller button configuration, start LOGO configuration, sensors configuration, lock program configuration.

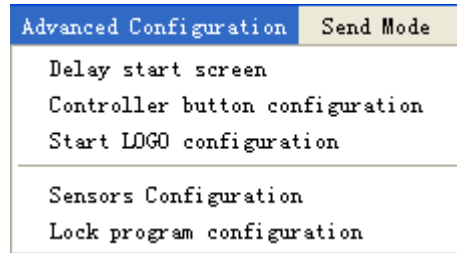


figure 3-7

- ◆ Delay start screen: This feature is used to prevent the vehicle screen in the car ignition due to voltage instability caused by abnormal screen display. It can be selected from 0 second to 16 second.
- ◆ Controller button configuration: This function applies to the use of buttons to control playback program sequential occasions. According to the different needs of users, providing three different functional configurations: test function, edge-triggered switching program functions, level-triggered switch programs.
- ◆ Start LOGO configuration: Depending on the different needs of users, providing " LOGO information displayed at startup", "No program information is displayed, the information display LOGO ", can edit the height, width, hold time . LOGO file name support Jpg, Jpeg, bmp and other formats.
- ◆ sensors configuration: temperature area, humidity area, noise area
- ◆ lock program configuration: click the lock program box, this function will display on the magic border of the main program.

### 3.1.1.6 Send mode

According to the different screen application ,the system supply two kinds of send mode, as shown in figure 3-8:multi-screen mode and save configuration to U disk. More details in [5.5 send mode](#).

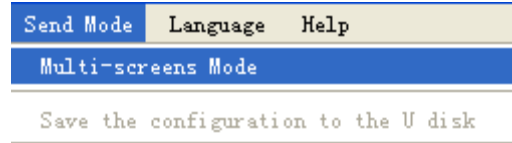


figure 3-8

### 3.1.1.7 Language manu

Click language button, open the selection list, as shown in figure 3-9,use it to select software language. This software support 14 kinds of languages, default is English. You can select the language as your require.



figure 3-9

### 3.1.1.8 Help menu

Click “help” menu, Click the current main program of the software and the dynamic library version and related information,as shown in figure3-10.

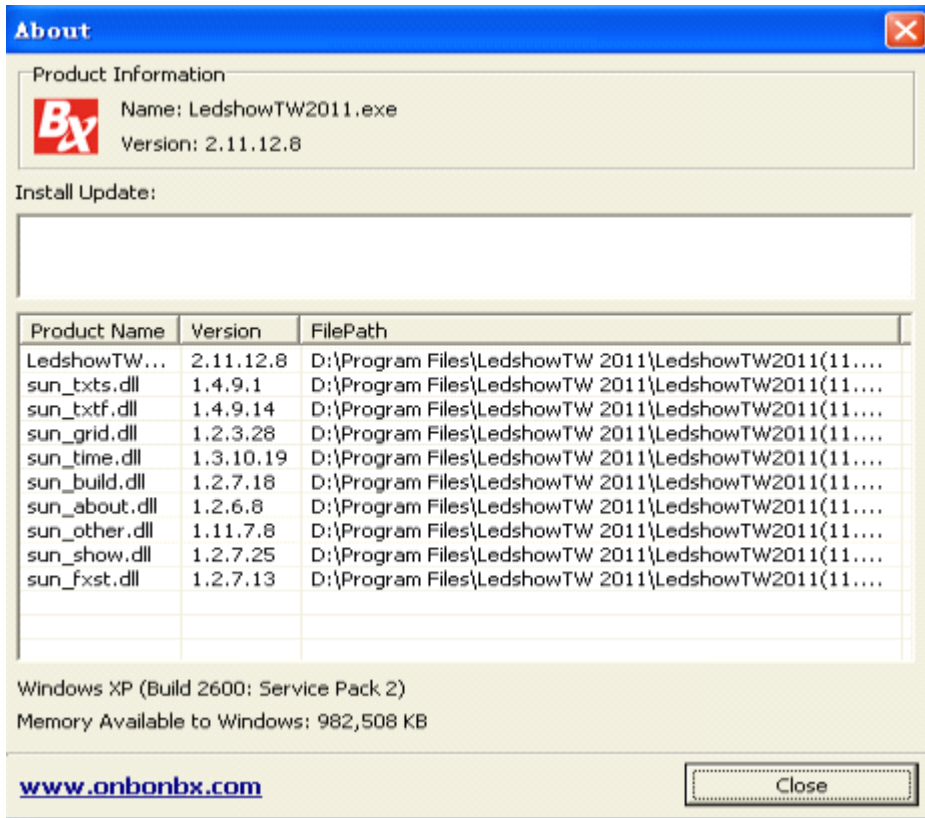


figure 3-10

3.1.2 toolbar

As shown in figure 3-11

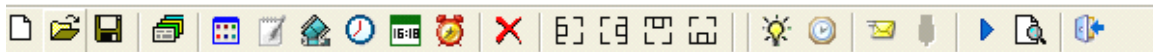



figure 3-11

- ◆ Click new : create program in current screen, as shown in 3-12

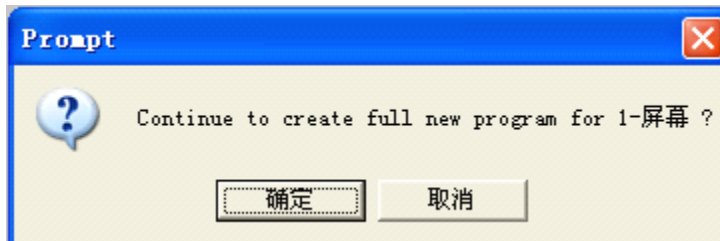



figure 3-12

- ◆ Open : click the open button and select the saved program file, the file must be \*.pj  
As shown in figure 3-13.

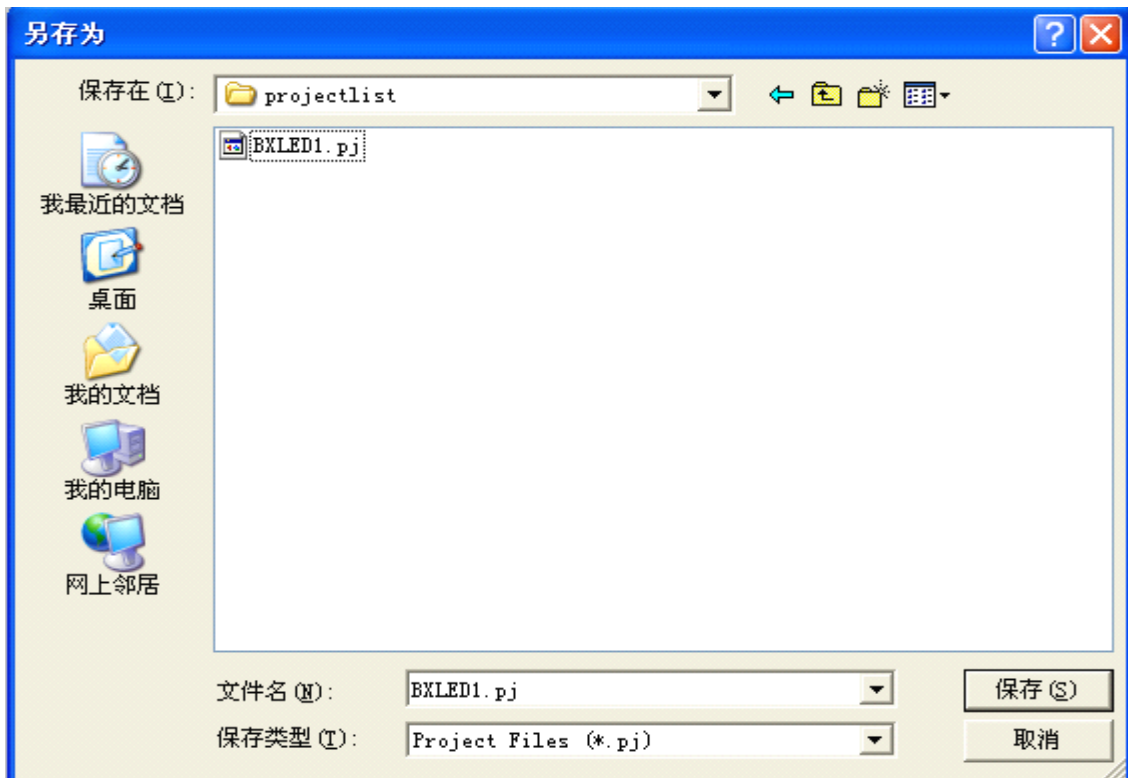



figure 3-13

- ◆ Save : click the save button, popup the “save as “ dialog, save the current program file ,the file must be \*.pj. As shown in figure 3-14.

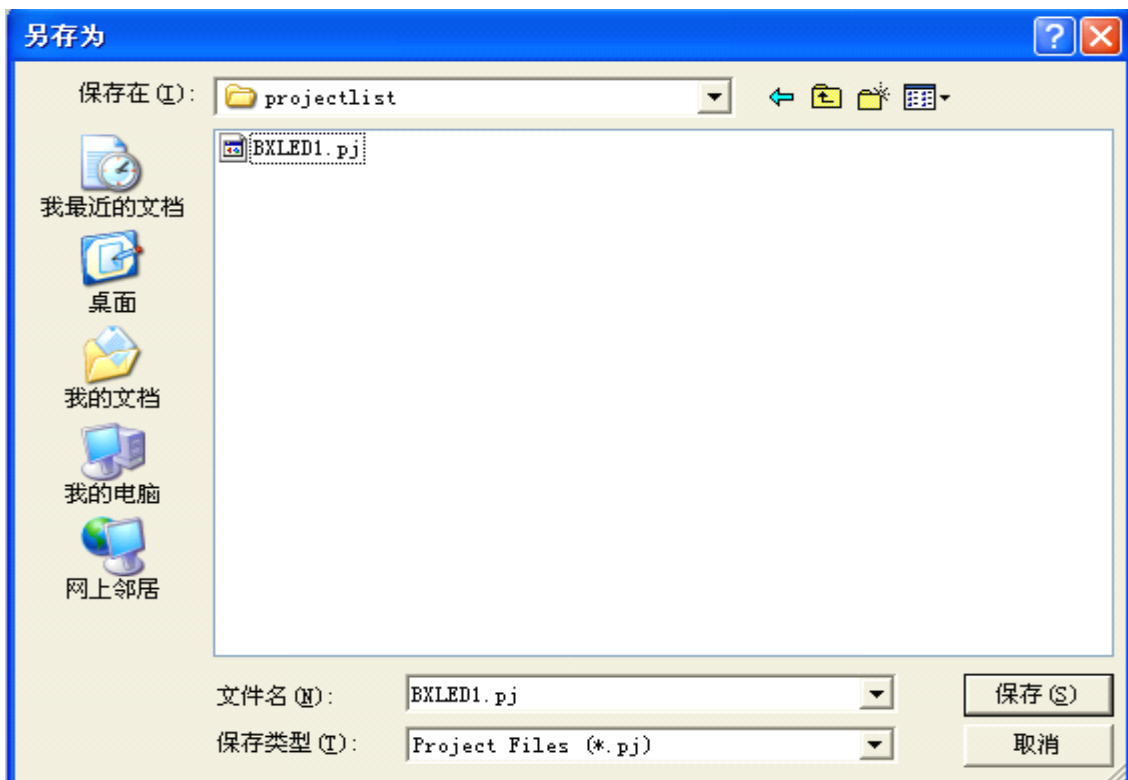


figure 3-14

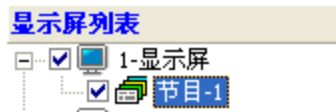


Figure 3-15




- ◆ general program  :click the program button, add new program in the current screen, as shown in figure 3-15,set the program attributes as your require. More details about program attributes setting ,please check in “4.2 program attributes”
- ◆ Images& text  : click the Images & text button, add new images& text area in the current screen, as shown in figure 3-16,set the images &text attributes as your require. More details about program attributes setting ,please check in “4.3 Images& text attributes”



figure 3-16

- ◆ Subtitle  :click subtitle button, add new subtitle in the current screen, as shown in figure 3-17,set the subtitle attributes as your require. More details about subtitle attributes setting ,please check in “4.3.2 subtitle attributes”

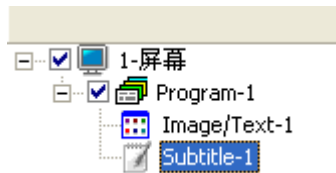



图 3-17

- ◆ Animation  :click animation button, add new animation area in the current screen, as shown in figure 3-18,set the animation attributes as your require. More details about animation attributes setting ,please check in “4.4 animation attributes”

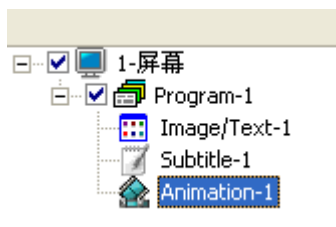



figure 3-18



- ◆ Dial  :click dial button, add new dial area in the current screen, as shown in figure 3-19,set the dial attributes as your require. More details about dial attributes setting ,please check in “4.5 dial attributes”

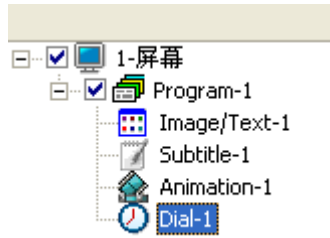



figure 3-19

- ◆ Timing  :click timing button, add new timing area in the current screen, as shown in figure 3-20,set the timing attributes as your require. More details about timing attributes setting ,please check in “4.7 timing attributes”

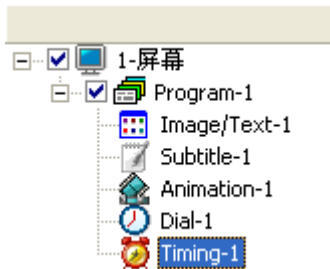



figure 3-20

- ◆ Time  :click time button, add new time area in the current screen, as shown in figure 3-21,set the time attributes as your require. More details about time attributes setting ,please check in “4.6 time attributes”

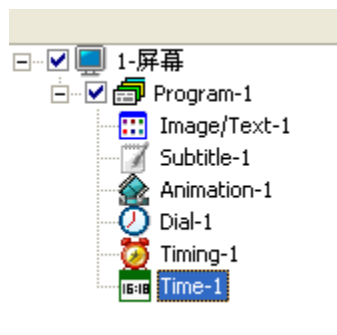












figure 3-21

- ◆ Delete  : delete program and the areas in the program
- ◆ Align: select  is area left align, select  is area right align, select  is top align in the preview area, select  is bottom align in the bottom of the preview area.

- ◆ Brightness  :click this button can adjust the brightness of current screen, more details pleas check in [5.2 adjust brightness](#).
- ◆ Correction time  :more details please check in [5.1 correction time](#).
- ◆ send  :click this button to send selected program to the controller.
- ◆ USB download  :click this button, install the U disk to your computer, click “save” button. screen parameters configuration/scanning configuration/program data/correction time/adjust brightness/timer for switch and so on will be saved in the U disk.
- ◆ Preview  :Dynamic preview , through the preview button to play, stop, turn off the preview area of edit content and special effects, to check if the location is consistent with the display shows, as shown in figure-22

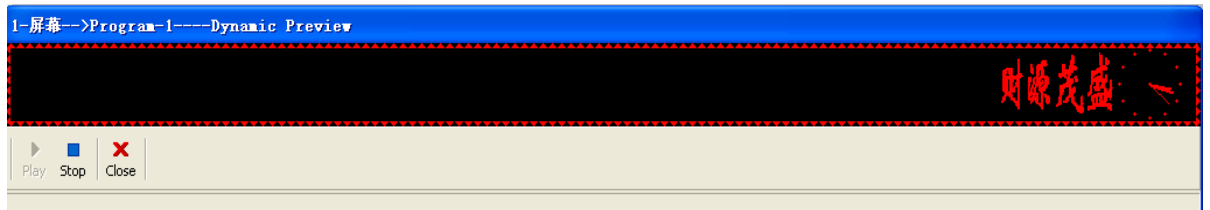



figure 3-22

- ◆ Program preview  :static preview, to check if the program list quantity, content is consistent with the edit preview area .

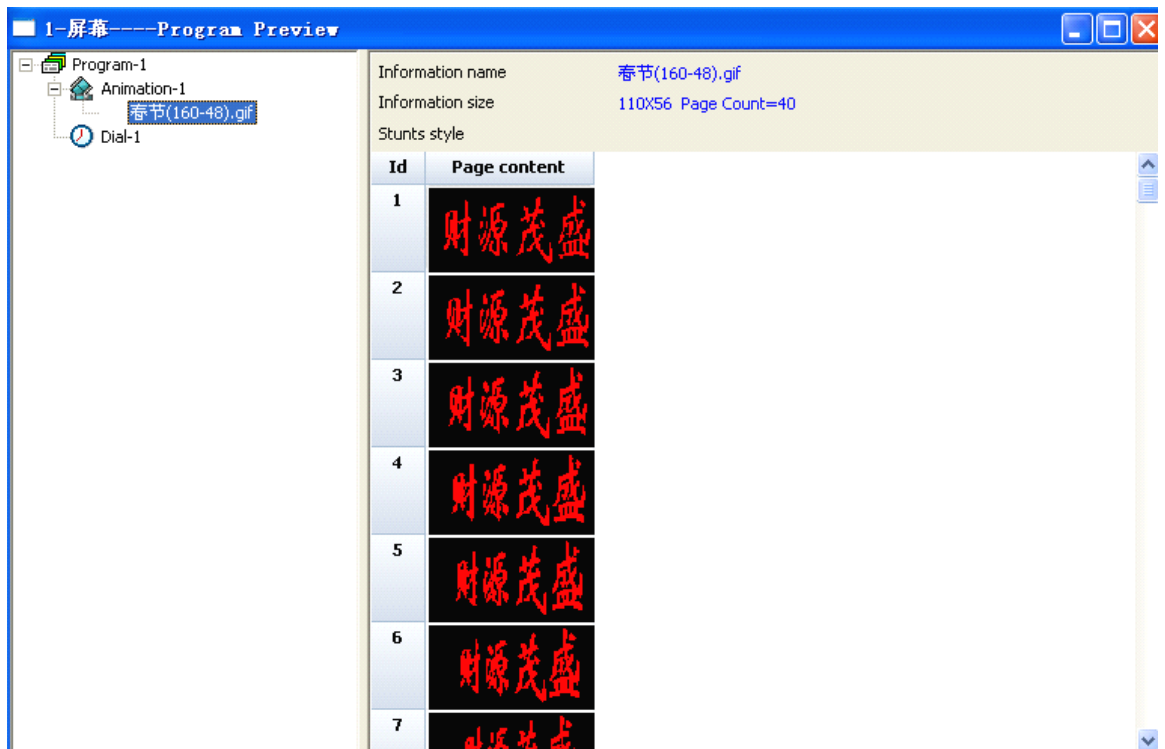


Figure 3-23

### 3.2 Screen display list

Use for the system display of screen, program files and program, as shown in figure 3-24 .

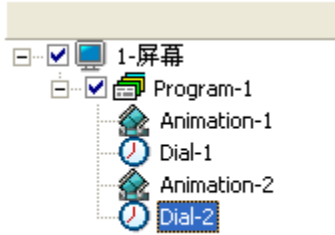


figure 3-24

### 3.3 Preview area

Use for program preview, as shown in figure3-25.用以预览节目，如图 3-25。



图 3-25

### 3.4 Program attributes area

Use for editing program attributes and setting program parameters, as shown in figure3-26

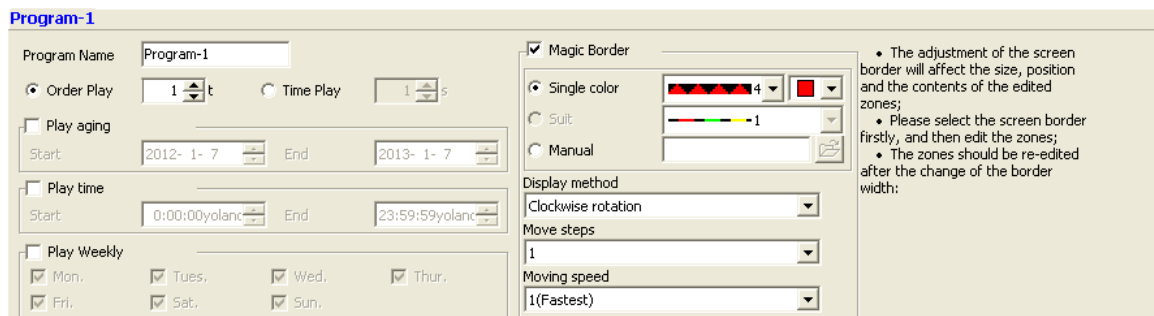




图 3-26

## 4. Manual details

### 4.1 screen parameters

Enter into the screen parameter configuration in the edit menu, add new screen and set the parameters. Select the new screen   **1-屏幕** in the program list, screen attributes will be shown in the bottom of the main interface. As shown in figure 4-1

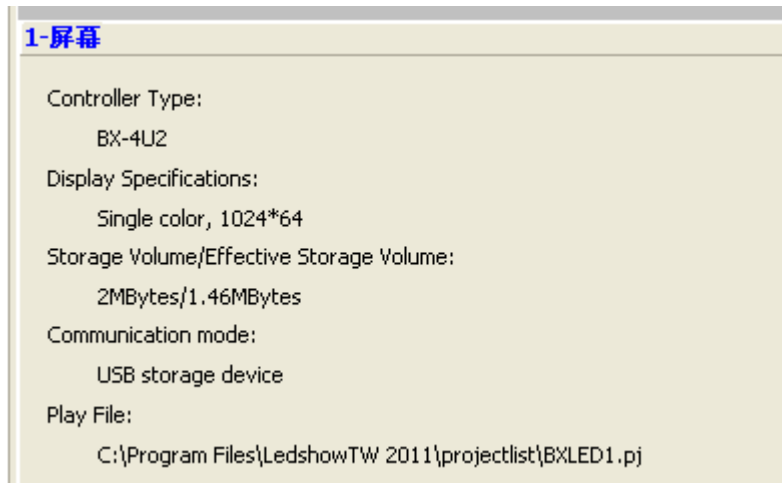


figure 4-1

## 4.2 program attributes

After add new program, select the current program, set program attributes in the bottom of main interface, as shown in figure 4-2

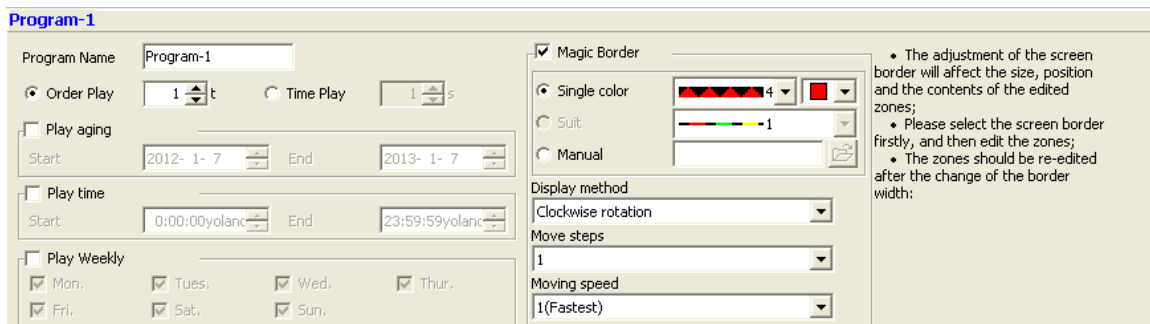


figure 4-2

- ◆ Program name: set current program name
- ◆ Order play: click this button to play program according to the program order, play times can be set as well , maximum is 255 times.
- ◆ Time play: click this button to set the play time, maximum is 65535 seconds.
- ◆ Play aging: select it to set the start time and end time for the program.
- ◆ Play time: select to set detail start time and end time for program play.
- ◆ Play weekly: select to set the date for program play, single select or multiple select is ok.
  - 1.Magic boarder: select to set the program boarder
  - 2.Select single color: click the dropdown list to select board type. As shown in figure 4-3.click dropdown list to select boarder color. If the screen type is single color ,only red can be selected ,if the screen type is dual color, red/green/yellow can be selected.

- 4. Select manual :popup the “open” dialog, select boarder image, type must be \*.bmp.
- 5. Select suit: click the dropdown to select boarder type.

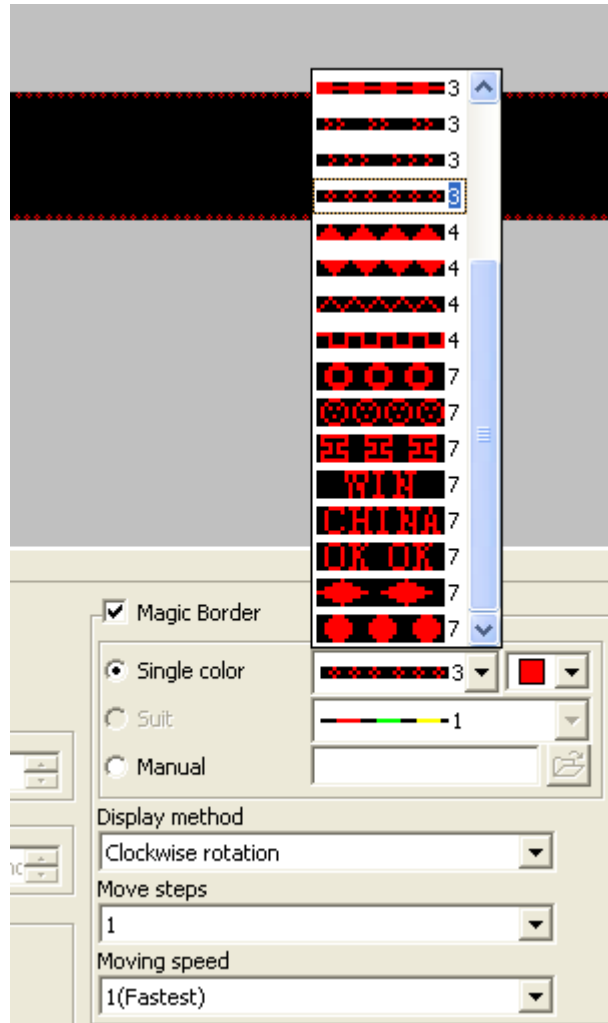


figure 4-3

- ◆ Display method: click the dropdown list to select the display method. As shown in figure 4-4.

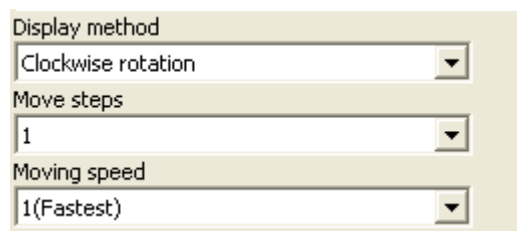


figure 4-4

- ◆ Move steps: click the dropdown list to select move steps , maximum value is 1-8.
- ◆ Moving speed: click dropdown list to select moving speed ,value is from 1-16, 1 is fastest, 16 is slowest.

### 4.3 Image & text attributes

Add new image & text area, select current area to set program attributes. As shown in figure 4-5.

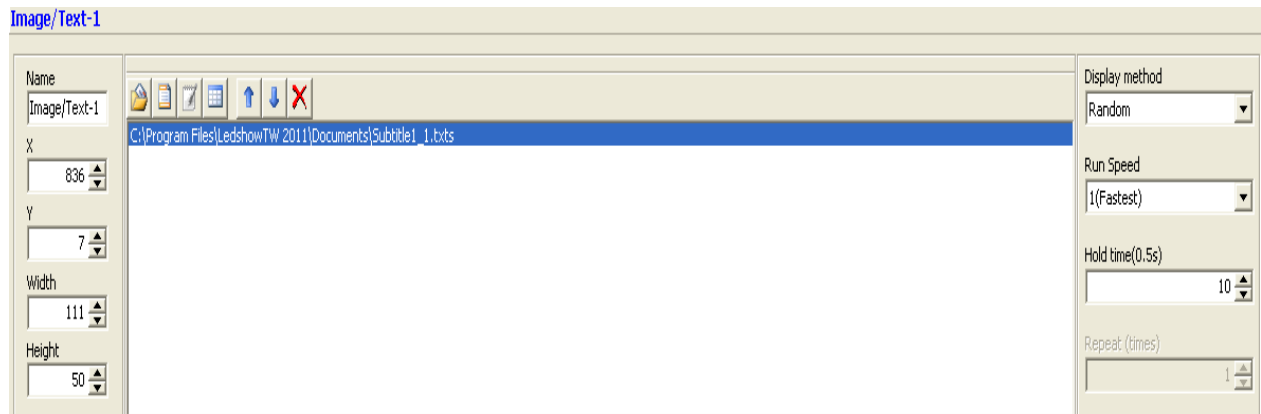



figure 4-5

- ◆ Name: You can set the graphics area and time zone name, directly enter is ok
- ◆ Location: enter the value in the XY or by clicking the mouse up and down keys to change the XY value. You can change the frame position by dragging the frame of the preview interface as well .
- ◆ Width and height: enter a value in the width or height or click up and down button by the mouse to change the frame width and height values. Interface can also preview the graphic by dragging the box to change the frame border width or height; you can change the frame border width or height by dragging the frame of the preview interface as well.
- ◆ Open: click the button , popup the dialog as shown in figure 4-6;

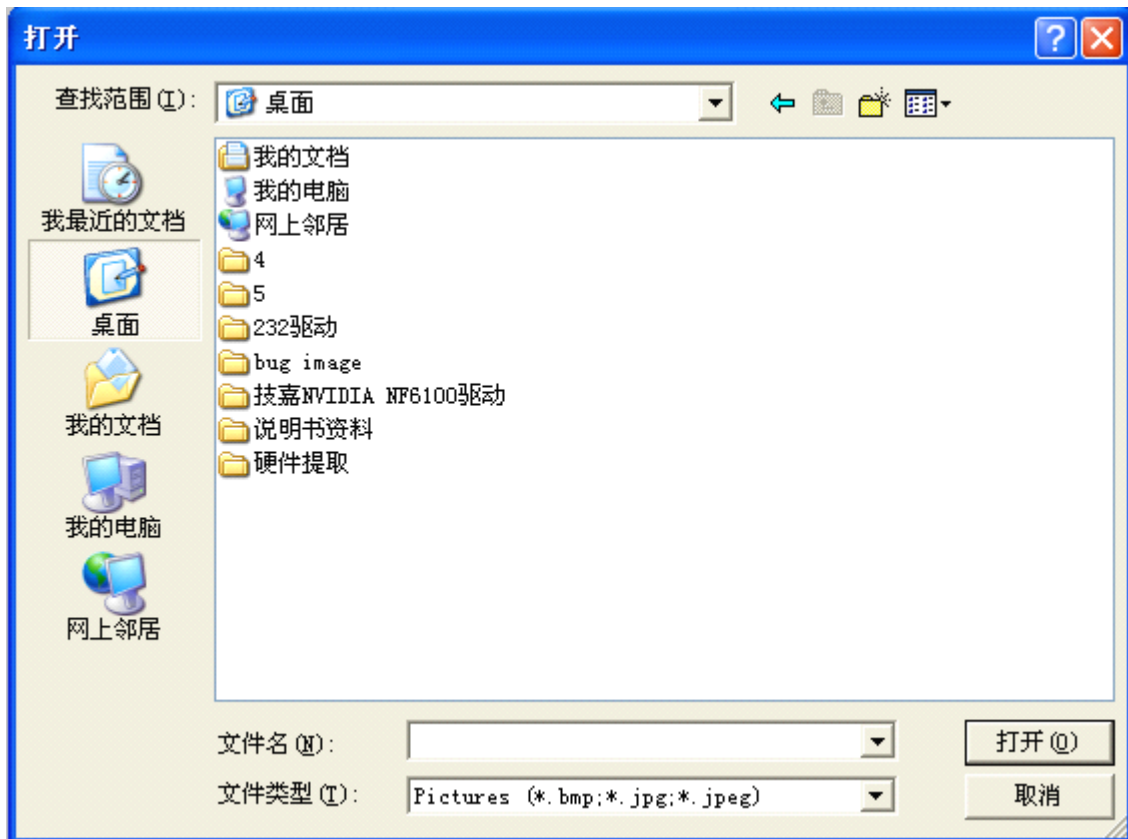


图 4-6

Click files type list to open image files (\*.BMP、\*.JPG、\*.JPEG) ,TXTS files(\*.TXT、\*.RTF、\*.TXTS)

```
Pictures (*.bmp;*.jpg;*.jpeg)
Ttxts (*.txt;*.rtf;*.txtf;*.txts)
All Support Formats (*.bmp;*.jpg;*.jpeg;*
```

figure 4-7

Open the files, display the files content in preview area, display the location attributes of the files in bottom of the main interface.

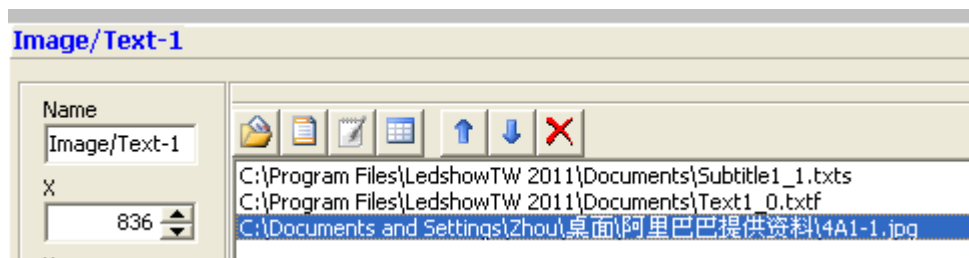





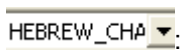












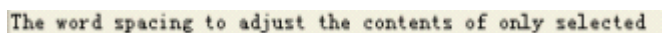


figure 4-8

### 4.3.1 Text

Click Text button, popup text interface, as shown in figure 4-9. directly enter text, and set text font, charset, size, bold, italic, underline, color, paragraph marks, left, center, right alignment, character spacing, line spacing, index and so on.

- ◆ New : add new text, the original will not be kept.
- ◆ 打开 : 打开\*.TXT、\*.RTF;
- ◆ Open : Open \*.TXT、\*.RTF.
- ◆ Save as : keep the current text files to the specified location.
- ◆ Font : click the dropdown list to select different font.
- ◆ Font charset : click the dropdown list to select different charset.
- ◆ Font size : set the font size, number range is from 8 to 200, can select the size from dropdown list or enter size directly in the enter frame.
- ◆ Bold : click bold to set the select font.
- ◆ Italic : click italic to set the select font.
- ◆ Underline : click the underline to set select font.
- ◆ Text color : click the text color to set select font.
- ◆ Paragraph mark : click this button to mark paragraph.
- ◆ Left : click this button to set font as left align.
- ◆ Center : click this button to set the font as center align.
- ◆ Right : click this button to set the font as right align.
- ◆ Line spacing : click this button to set line spacing by moving the slider.
- ◆ Char spacing : click this button to set char spacing by moving the slider.
- ◆ Page index : if more pages in the file, you can see the page quickly by locating the index page. please enter directly to the index input box or click the mouse up and down keys to position.
- ◆ Statistics: please check the total pages in the left bottom **Page Count=1**, center show the char number **Char Count=0**, the last is char pacing as shown in this picture  




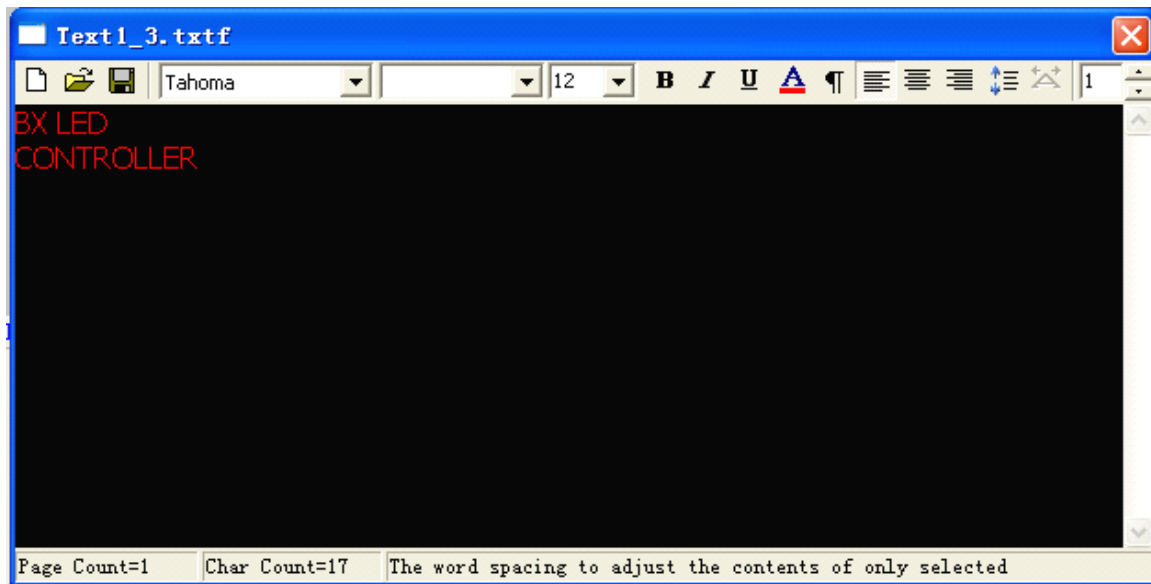


figure 4-9

#### 4.3.2 Subtitle

Click subtitle button, popup subtitle interface, as shown in figure 4-10 ,the button function is similar to Text, difference is subtitle can't support CRLF.

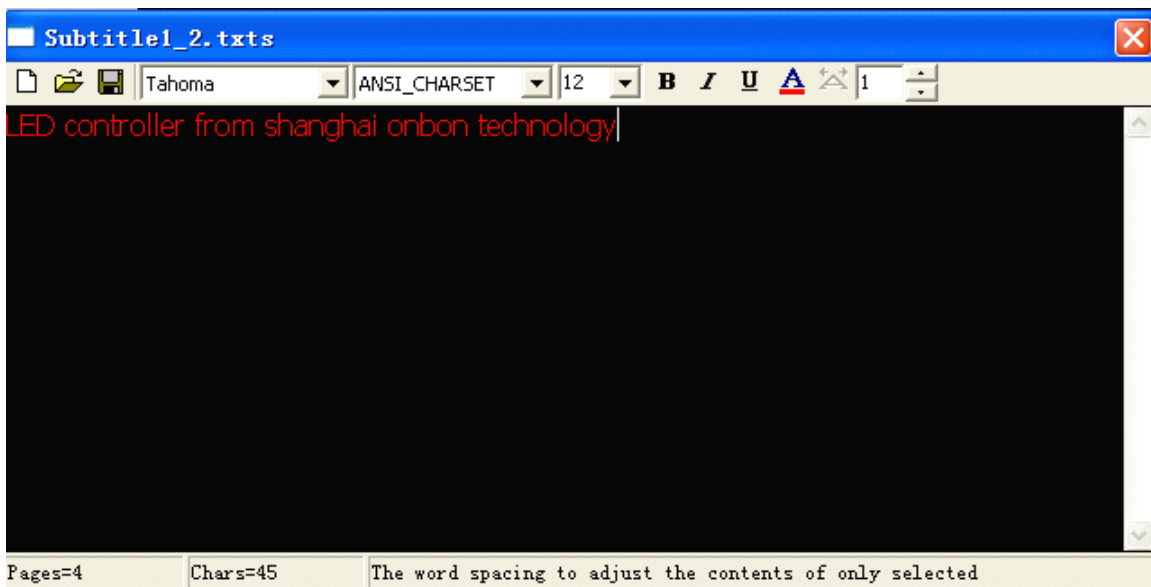


figure 4-10

#### 4.3.3 Table

Click table button as shown in figure 4-8,popup table interface, as shown in figure 4-11.

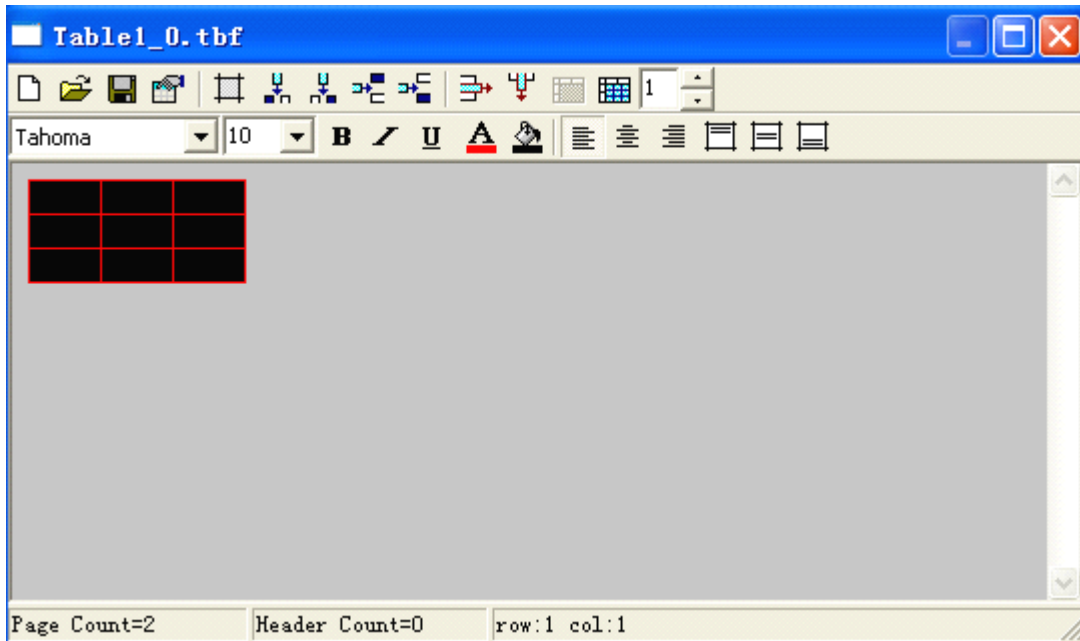



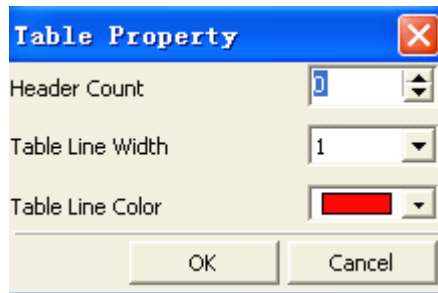


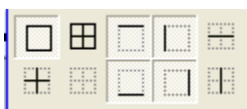


figure 4-11








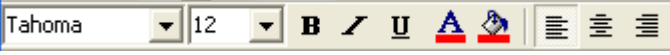





- ◆ New :Add new table, the original operation and setting will not be kept.
- ◆ Save as :save the table to specified location.
- ◆ Table property :set property of the table, click the button and popup the below interface:



- ◆ Header count: set table header, click the up arrow ,number is from 0-2.
- ◆ Click the table line width ,select the table width from 1-4.
- ◆ Table line color: click the down arrow to set the color of table line .if the screen is dual color ,can select black, red, green ,yellow, if the screen is single color ,can only select red and black.
- ◆ Cell border setup :click the table border ,popup the dropdown list



,can select the related border.

- ◆ Insert column :click  to insert column at the left of the current column. Click  to insert column at the right of the current column. Click  to insert row above the current line. Click  to insert line below the current row.
- ◆ Delete rows  :click this button to delete current row.
- ◆ Delete columns  :click this button to delete current column.
- ◆ Delete tables:  click this button to delete whole tables.
- ◆ Page index: you can see the page quickly by locating the index page.
- ◆ Font set:  more details please check in [4.3.1 Text.](#)
- ◆ Align: click ,cell vertical align top. click ,cell vertical align middle, click ,cell vertical align bottom.
- ◆ Merge cells  :select this button to merge multiple cells as one cell.
- ◆ Split cells  :click this button to popup split cells dialog as shown in figure 4-12, select col or row cont through the dropdown list. Maximum row count is 10.select “merged cells before split” to merge the select cells firstly.

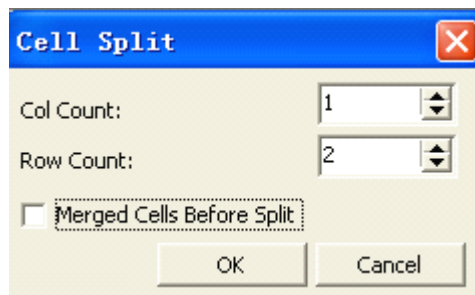




图 4-12

#### 4.3.4 Up and down keys

Click the   up and down key to switch program and preview in turn.

#### 4.3.5 Delete

Click  to delete the program in the Image & text area.

#### 4.3.6 Display method

Add text and subtitle in the Image & Text area ,or open the related files , you can select display method ,as shown in figure 4-13.

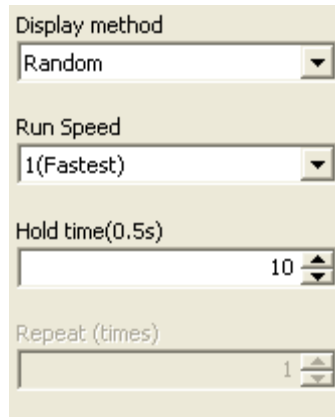
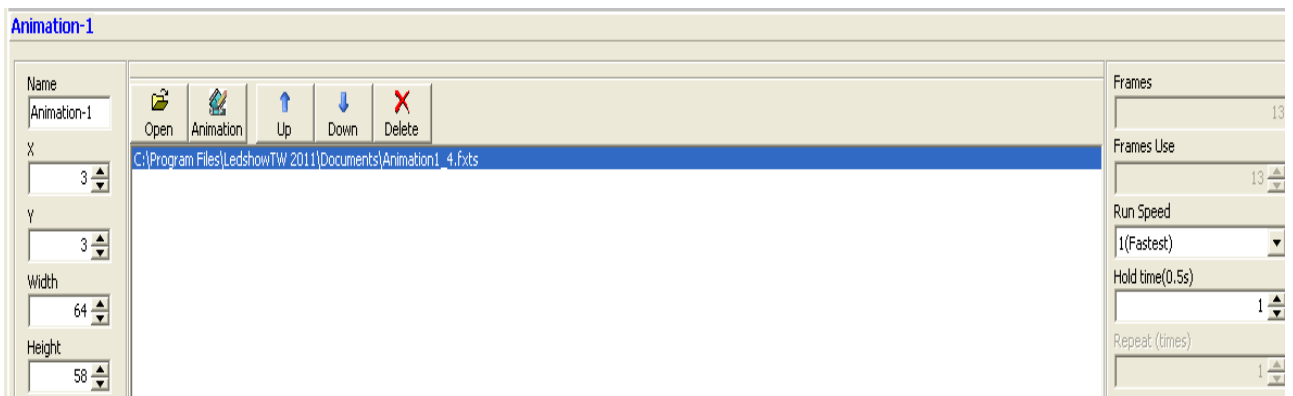




figure 4-13

#### 4.4 Animation attributes

Click the animation button in the menu to set animation attributes, as shown in figure 4-14.



- ◆ Name, location(XY), width, height setting please check [4.3 Images&text attributes](#).
- ◆ Open animation: click ,popup dialog to select animation ,support Avi、 Fxts、 Gif and Flash. You can define the play frames, play speed and residence time.
- ◆ Animation: click ,Calling software built-in format as. fxts animation effects, users can also edit the font size, character name, alignment, caption content, and select animation effects, etc.

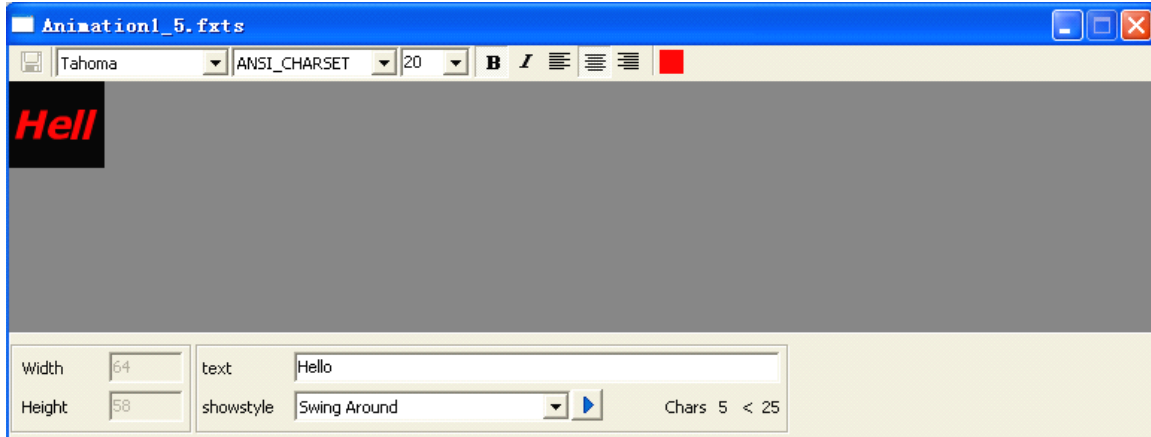


figure 4-15

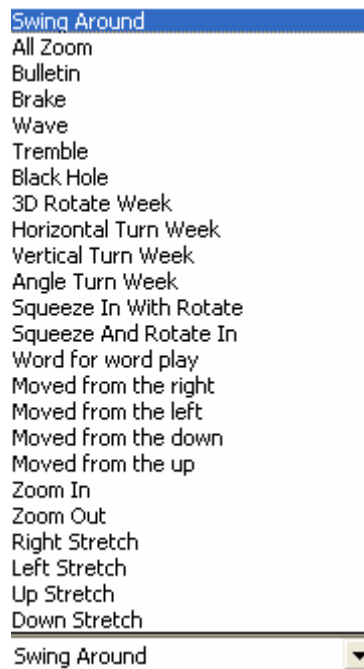




figure 4-16

- ◆ Up and down  :When you select multiple animation for playing, you can specify the animation by moving down or up to determine the sequence of some animation
- ◆ Delete  : users can define the animation content according to your inquiry.

#### 4.5 Dial attributes

Click Dial button to add new dial area, as shown in figure 4-17.

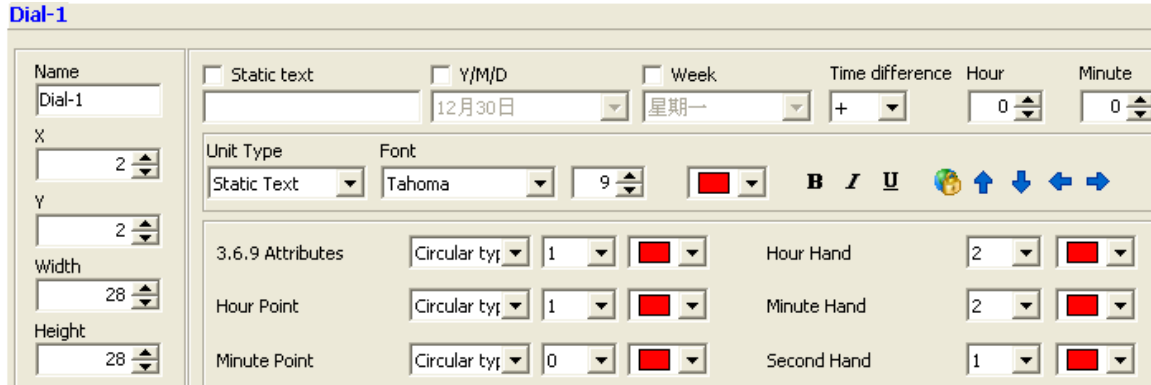




figure 4-17

- ◆ Name ,XY, width ,height setting, please check [4.3 Image& text](#)
- ◆ Display: users can select the static text ,Y/M/D, week by single or multiple selection. Corresponding content will be displayed in the dial area. Users also can select the Y/M/D mode by click the dropdown list.
- ◆ Time difference : more details please check [4.6 time attributes](#)
- ◆ Font setting: users can select the setted font by “unit type”, click the dropdown list to select static text ,Y/M/D, week. More font setting ,please check [4.3.1 Text](#) .
- ◆ Automatic adjustment : click this button to adjust the location of “static text”, adjust up, down ,left ,right by  .
- ◆ 3.6.9 attributes: click the dropdown list to select the type ,size and color.
- ◆ Hour point: similar as 3.6.9 attributes.
- ◆ Minute point: similar to 3.6.9 attributes.
- ◆ Hour hand : click the dropdown list to select the hour hand size and color.
- ◆ Minute hand: similar to hour hand.
- ◆ Second hand: similar to hour hand.

#### 4.6 Time attributes

Click the time button in the tool menu, add time area and set the attributes. As shown in 4-18.

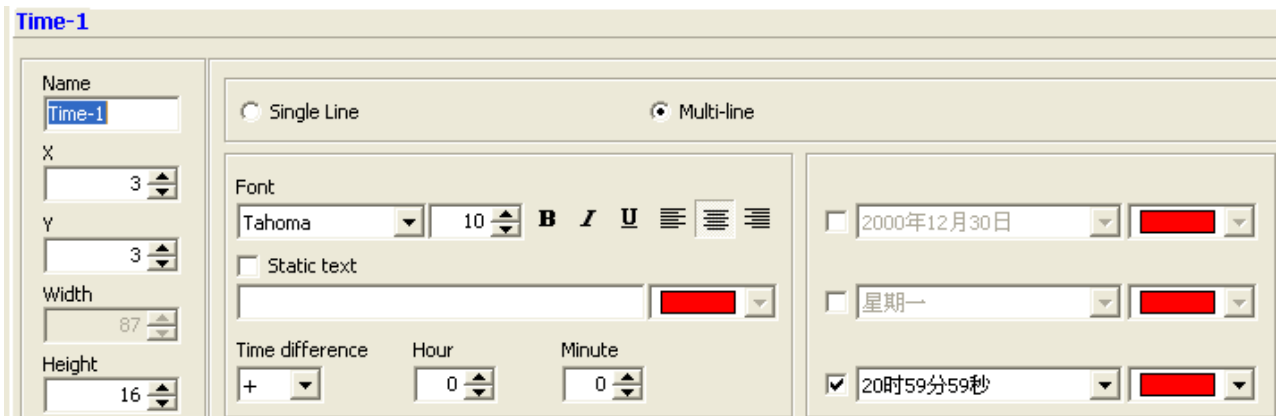


figure 4-18

- ◆ Name ,XY, width, height and so on ,more details please check [4.3 Image&text attributes](#)
- ◆ Display: can select single line or multi-line.
- ◆ Font size: select “static text” and set the font. Users can set the font size ,align and so on.  
If the screen type is dual ,can select red, green, yellow ,if the screen type is single , only can select red. More details please check [4.3.1 text](#).
- ◆ Static text: you can edit text according the different require from customers.
- ◆ Time difference “:you can set negative or positive time by select the dropdown list, the hour difference range is from 0-23,the minute difference range is from 0-59.
- ◆ Display effect: the effect of the preview display selection, as shown in Figure 4-19. Any one of which must be checked, such as checking the display, do not check the content is not displayed, choose to display the text color.

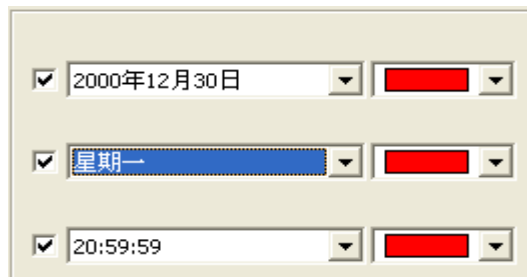


figure 4-19

#### 4.7 Timer attributes

Click the timer button in the tool menu ,add new timer area ,as shown in figure 4-20, more details ,please check [4.6 timer attributes](#).

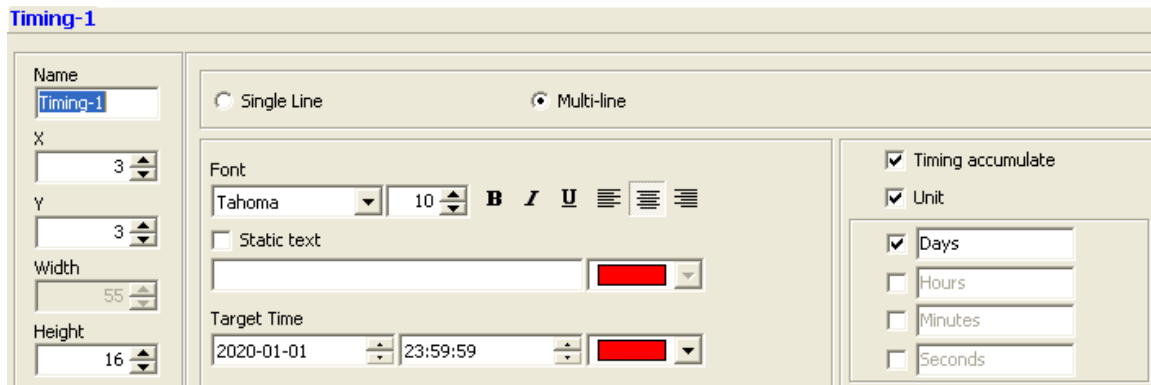




figure 4-20

## 5. Common commands

### 5.1 *correction time*

Click the manual , automatically correct the time with controller chip.

### 5.2 *Brightness adjustment*

Click the adjust brightness button :popup the dialog as shown in figure 5-1,can set the screen brightness at different time.

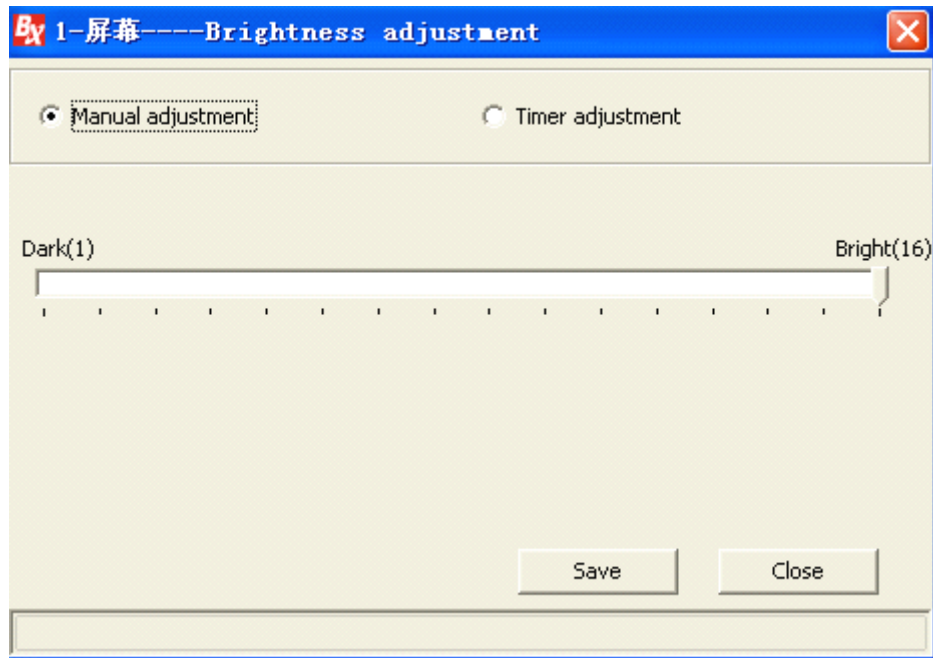


figure 5-1

Brightness adjustment include manual and timer adjustment.

Manual adjustment can set the brightness value by manual, and send the value directly.

Timer adjustment can supply four time segments , only select it can work.



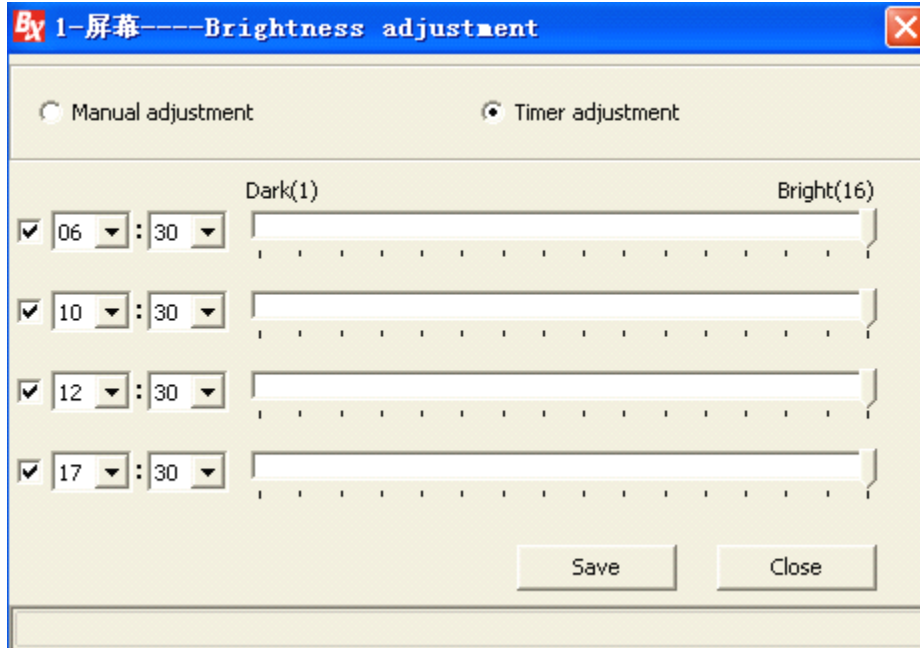


figure 5-2

### 5.3 Set screen parameters

#### 5.3.1 One for one mode

- ◆ Set screen parameters to set the controller parameters.
- ◆ Click “set screen parameters” enter “168” in the popup password dialog. Click “OK”. Popup the set parameters dialog, as shown in 5-4. this setting is one for one mode only effective to current screen. In this mode, modify certain screen will not effect other serial screen parameters.

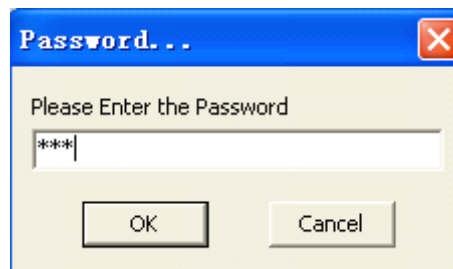


figure 5-3

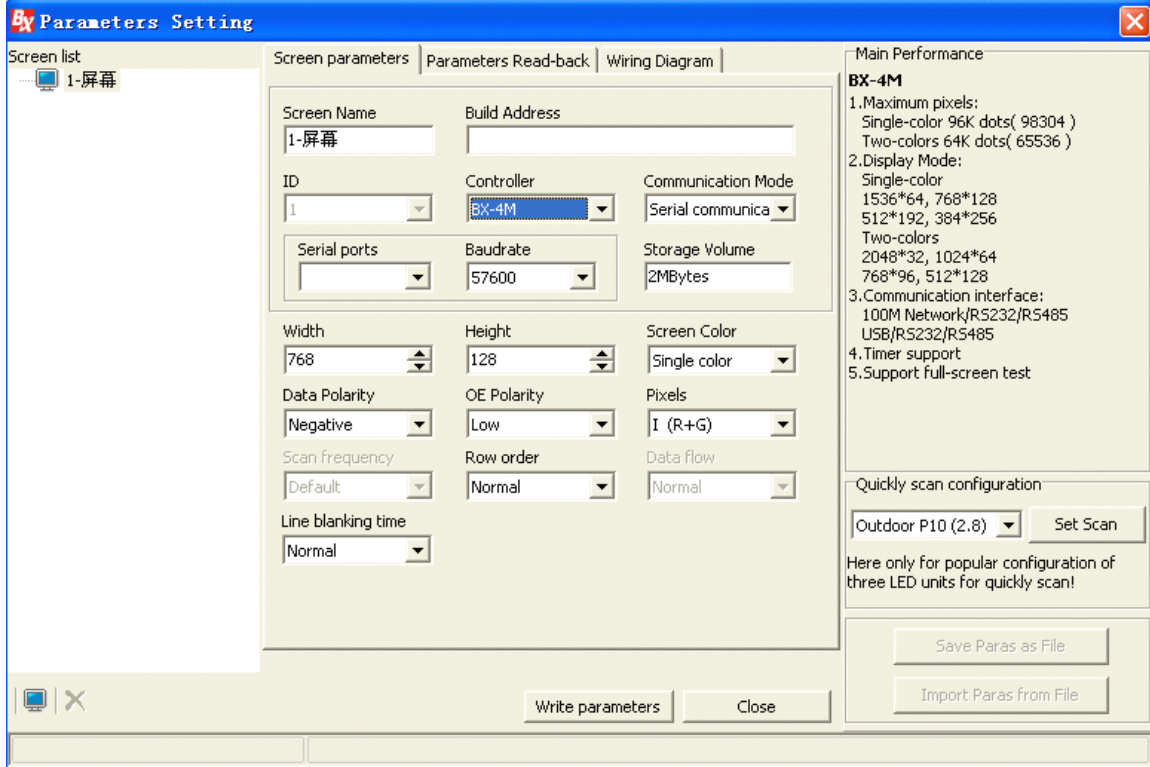


figure 5-4

### 5.3.1.1 Screen parameters selection tabs.

- ◆ Screen name: display the name of current screen
- ◆ Build address: add remark to distinguish large number of screens.
- ◆ Controller: the screen controller model
- ◆ Communication mode: Communication media types between the computer and screen. Currently the system is directly embedded by serial communication, GPRS wireless communication and network communication.
- ◆ Serial ports: which computer serial port will be used to communicate with the screen
- ◆ baud rate : the data transfer rate to the display screen, the current system supports 9600,28800,57600,115200;
- ◆ Width: the length of the display screen ,range is within 4096 pixel.
- ◆ Height: the height of the screen, range is within 512 pixel.
- ◆ Screen color: support single and dual color.
- ◆ Date flow: include normal and mirror mode.
- ◆ Date polarity: include negative and positive polarity.
- ◆ OE polarity: include high efficiency and low efficiency
- ◆ Pixel: when the screen display dual color, I (R+G) is red in left , green in the right. II (G +R)is green in right and red in the left.

- ◆ Row order: it is upper and lower data offset properties, include 0、-1、 +1.

### **Parameters read-back**

- ◆ Switch to parameters read-back ,as shown in 5-5.
- ◆ it is used for read the current controller parameters, and easy to set parameters.
- ◆ Click parameters read-back button, read the current controller parameters, if the parameters is not the same as current setting ,it is red font.
- ◆ Click import parameters button to export the current controller parameters to the “display screen parameters”tabs.
- ◆ Click download screen parameters to the display screen.

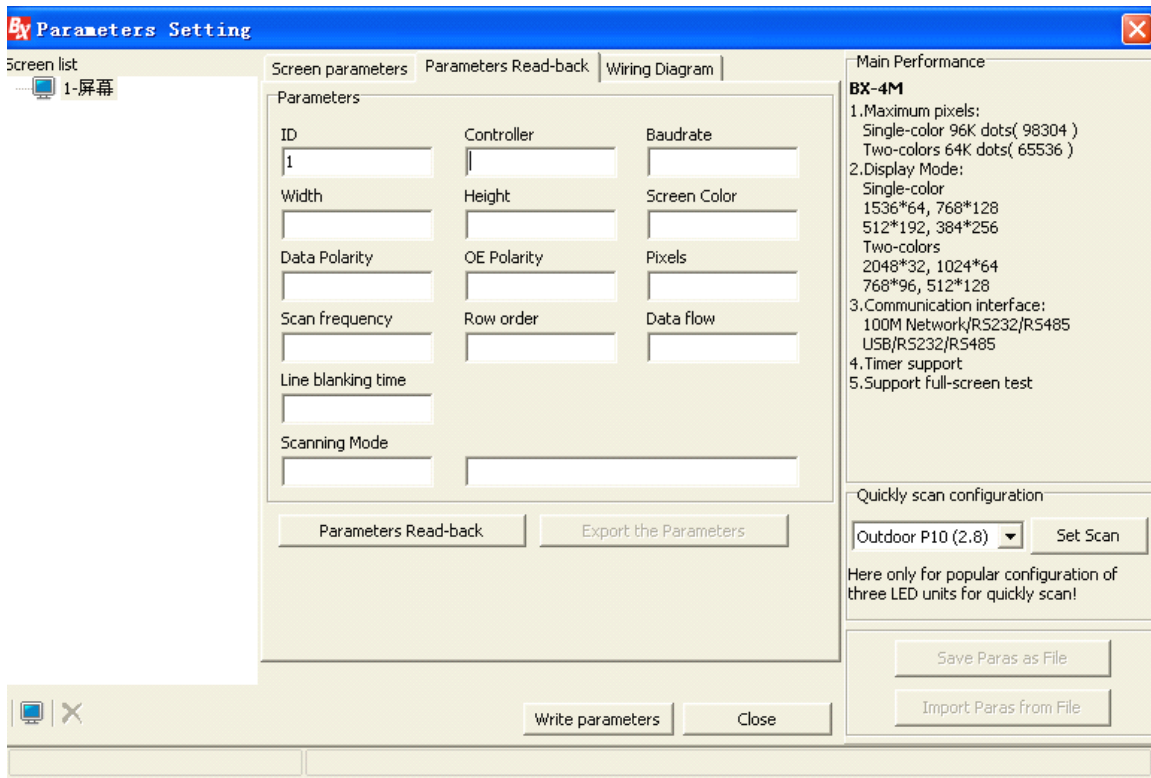


figure 5-5

### 5.3.2 Broadcast mode

Click “set screen parameters” enter “888” to the popup dialog( as shown in figure 5-3)click “OK” to popup the “set screen parameters” dialog as shown in figure 5-5 ,this is a broadcast mode setting.

**Notice:1. In this mode, the loading screen parameters / scan configuration / parameter read-back, the computer serial port can only connect a screen! Otherwise, all will be modified to display the same parameters.**

**(2) Check the "Main Menu displays advanced configuration functions", "Advanced Features" button will appear in the software menu bar, no check will not be displayed.**

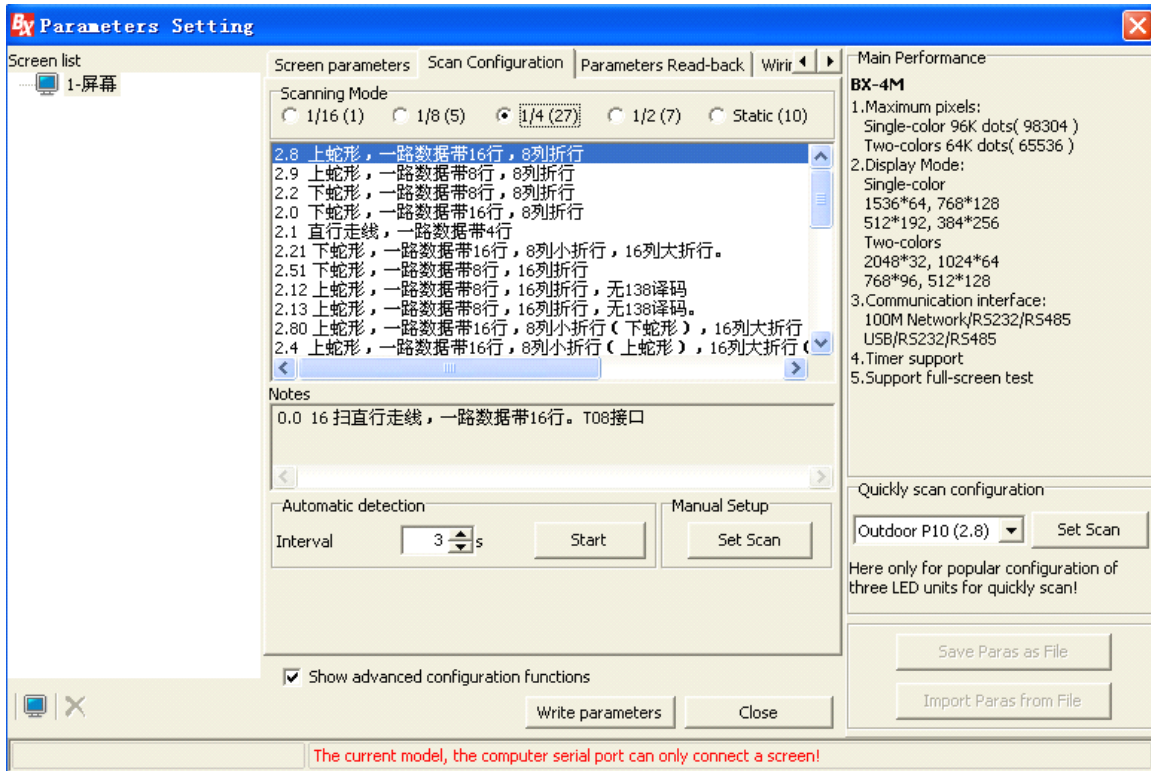


figure 5-6

### 5.3.2.1 Scan configuration

Users can select 1/16、1/8、1/4、1/2 scanning mode.

Click write parameters button to popup the following information:

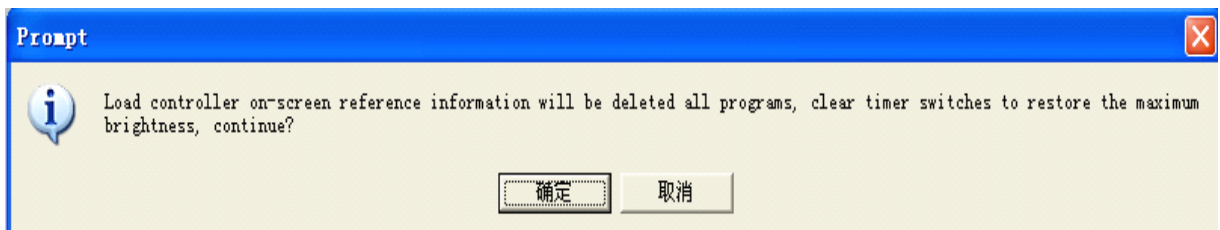


figure 5-7



figure 5-8

After the successful loading of the system , click scanning mode , select scanning mode in the list .

Manual configuration: set the scanning mode by manual operation.

Automatic detection: interval will be 3-20 seconds, click start to automatic detection. The system will select scanning mode according to the scanning time. Please check all kinds of scanning mode to select the scanning mode as your require.

### 5.3.2.2 Network communication configuration

BX-4M series, BX-4E series support Ethernet(RJ45 interface), LED screen can update the program by TCP/IP. The work mode include PC direct connection, static IP and network server mode.

#### 5.3.2.2.1 PC direct link mode

PC direct link is mainly used for single display applications in simple network environment. In this mode directly connect BX controller with computer by network cable .Open "Ledshow TW2011",select "setup"->"set screen parameters "(as shown in figure 5-9) select "network communication" in "communication mode" option, select "network settings" in the " direct link" option( as shown in Figure 5-10),you can send data by BX controller without other setting.

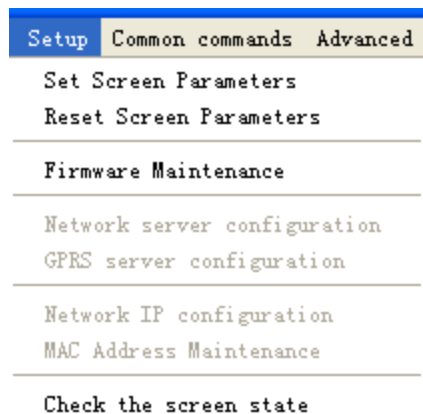


figure 5-9

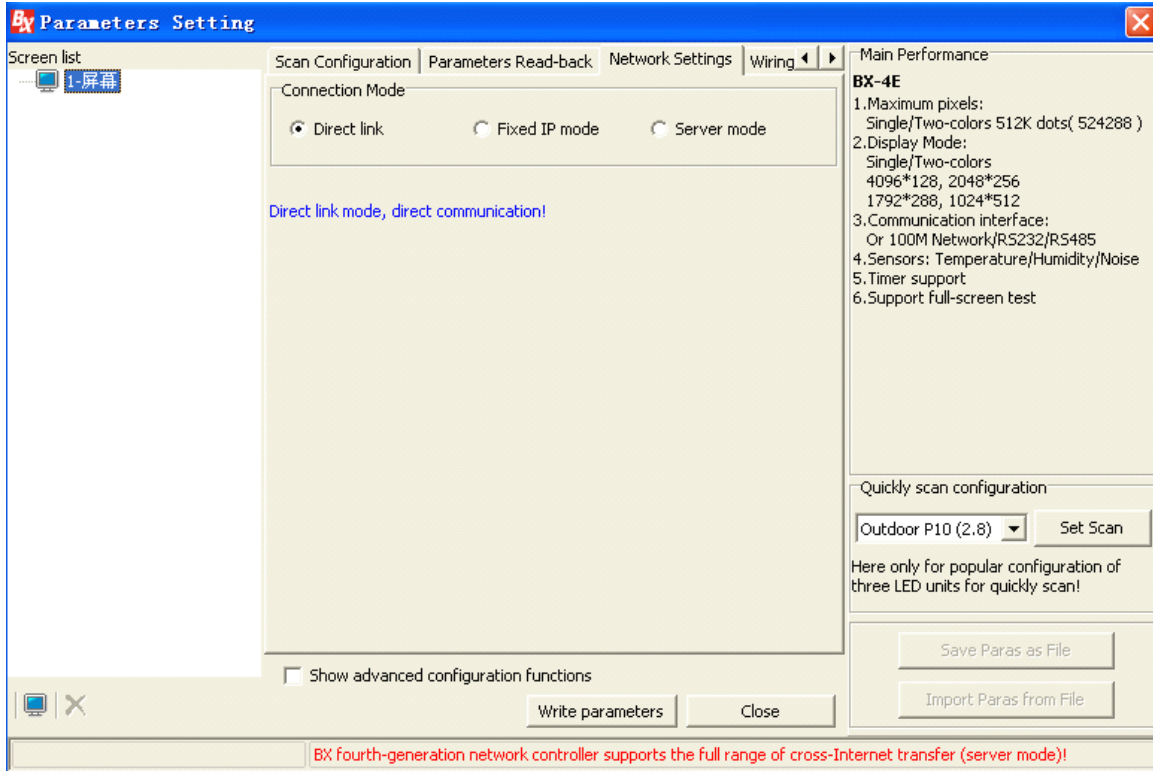


figure 5-10

#### 5.3.2.2.2 Fixed IP mode

Fixed IP mode used in the LAN or simultaneously control multiple display environment. before use fixed IP mode ,users need set the IP information to BX controller.

Opened software "LedshowTW 2011", select "Setup" - " set screen parameters" , select the current controller model, then select "Network Communications" option in the "communication mode" . Turn off "set screen parameters " .

In the main menu, select "Setup" - "Network IP Configuration" module (Figure 5-11). In this module, set the IP information to the BX controller.

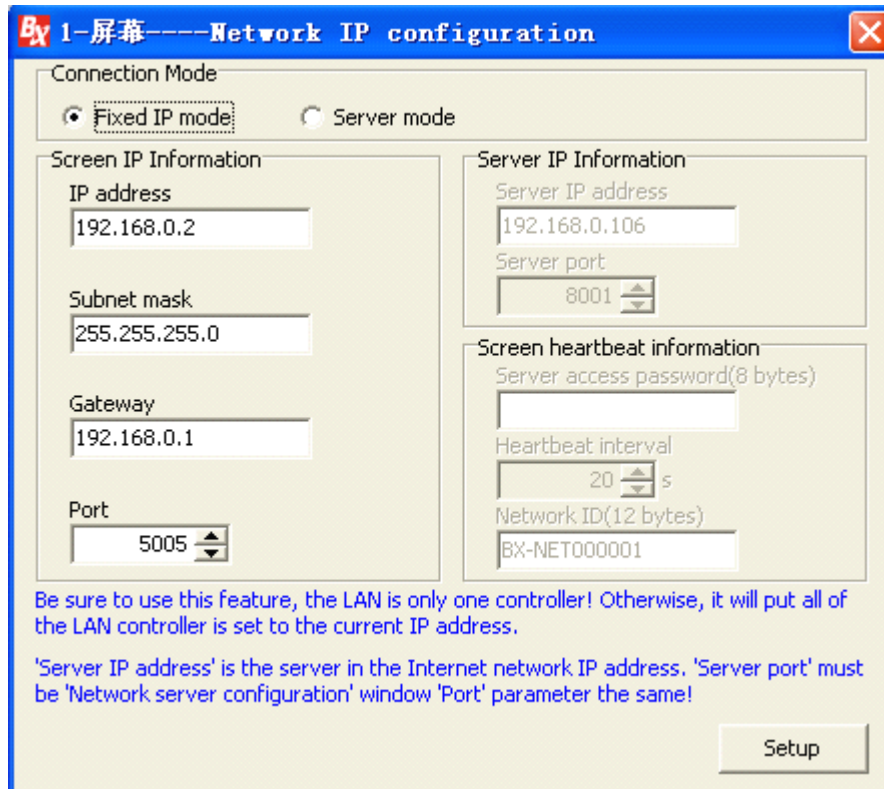


figure 5-11

Use the "Network IP configuration" feature requires BX controller is in direct link mode . Enter the "Network IP Configuration", select "Fixed IP Mode",edit the parameters in the dialog box.click "setup" to set the BX controller parameters.And record the related IP information of BX controller . if parameter setting is successful, the BX controller can be connected to LAN control.

After BX controller connected to the LAN, open the software" LedshowTW 2011 "in a computer which has access to the LAN , in the main menu, select "Setup" - "set screen parameters " , add a corresponding screen, select current BX controller model, and then select "Network communications" in "communication mode" in .In the new pop-up "Network Settings" tab (Figure 5-12), select "Fixed IP Mode." Finally, fill in the relevant information in the "Controller IP Settings" ,the controller communication is ok by then.

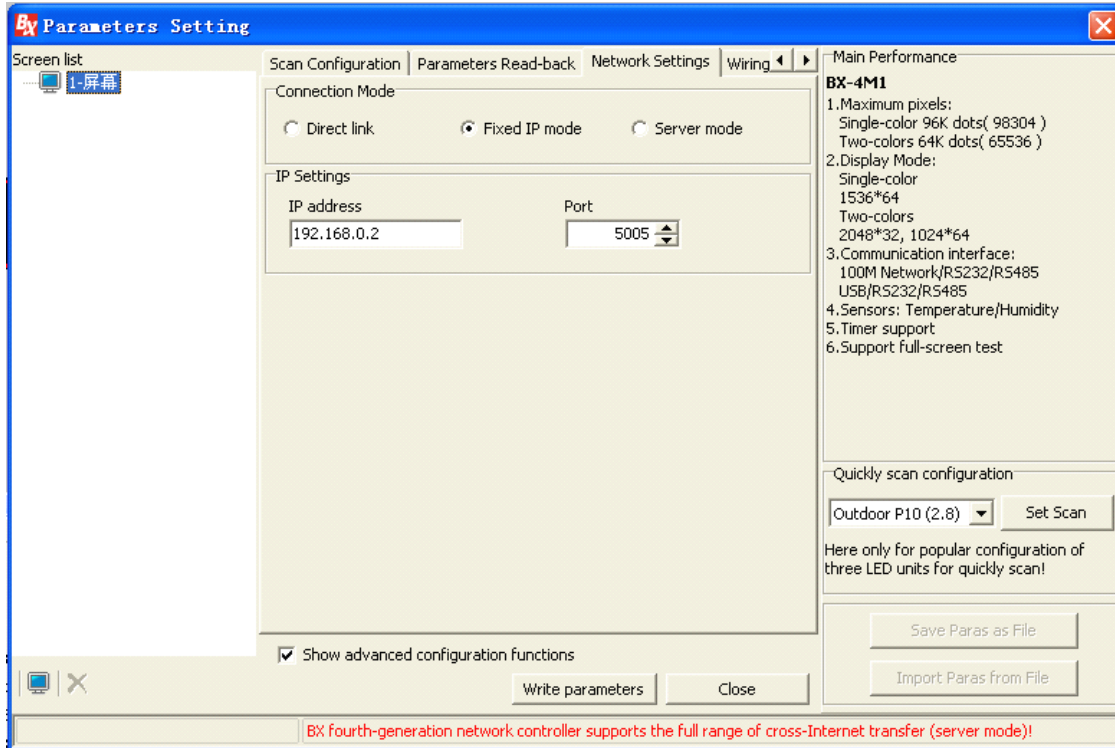


figure 5-12

### 5.3.2.2.3 Network server mode

network server mode is commonly used in across Internet network environment, in this mode, only need the server has a fixed IP address, and BX controller can access any network interface to access the Internet, you can achieve control of the server on BX controller (Figure 5-13).

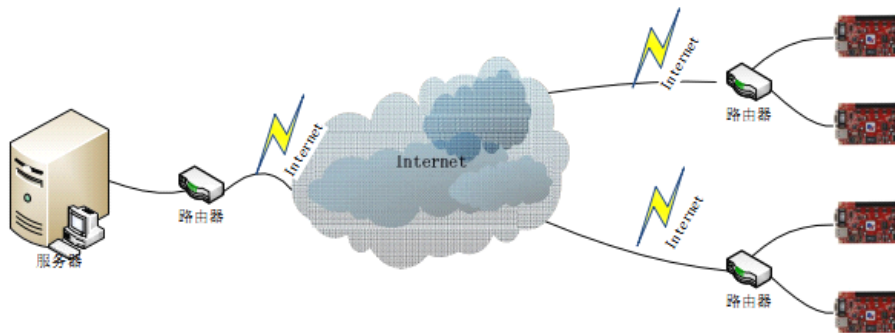


figure 5-13

Before use network server mode, users need to port mapping and set the IP information for BX controller in the software "LedshowTW 2011".

Notice: blue font in the following is operation cases parameters.



## Step 1

Server port mapping setting :enter into the router setting by IE browser. In the IE address bar, type the LAN gateway to enter into the router settings. enter the default gateway in the IE address bar, it will pop-up window (Figure 5-14), enter a user name and password: [admin/admin](#).

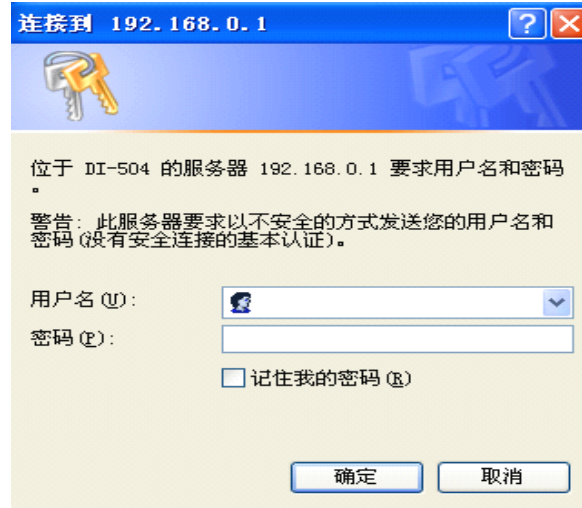


figure 5-14

If the router has a password, enter a user name and password into the router settings page (Figure 5-15), setting port mapping in the router's virtual server , if your local computer IP is 192.168.0.105 (as the figure set), activate assigned port 5005 , execution can be saved. And please note the network's IP address of the router configuration in the Internet network, (for example: "222.64.228.204"), and the assigned port information (5005).



figure 5-15

### Step 2 the server IP configuration

open Local Area Connection Properties to set the computer's network adapter , double-click "TCP / IP protocol" (Figure 5-16), select Use the following IP address to set(Figure 5-17). (Don't select automatically obtain )



figure 5-16

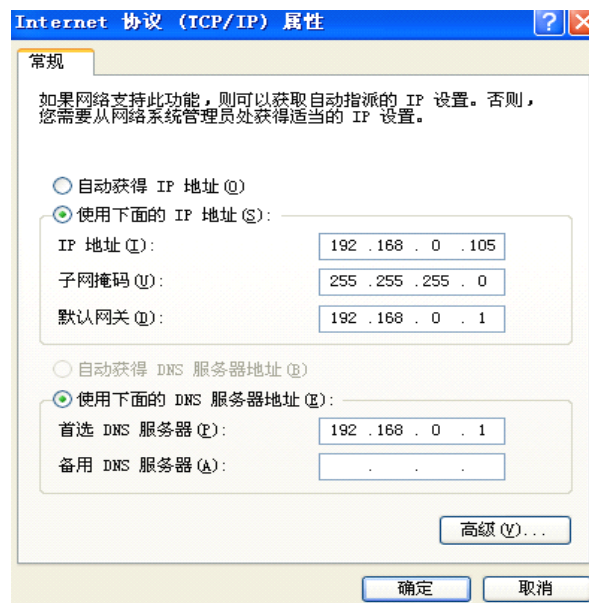


figure 5-17

### Step 3 Network server configuration

Open "LedshowTW 2011" in the server port. select "setup"- "network server configuration"(figure 5-18)

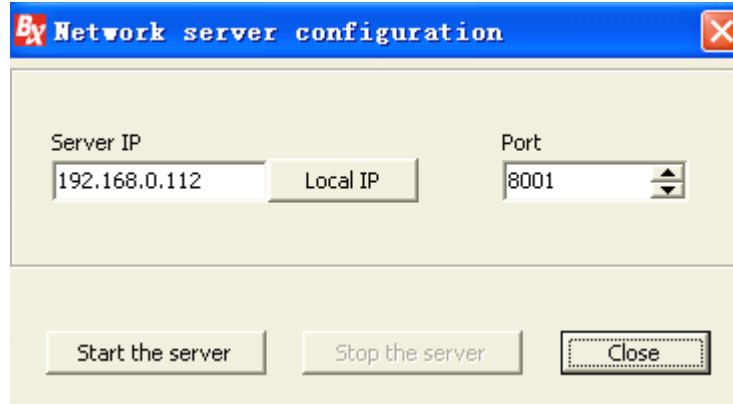


figure 5-18

#### Step 4 Server configuration testing

Enter the Server LAN IP in the running server, ("192.168.0.105"), enter the port mapping information of the server to the edit box (5005), click on "Start the server", if the set is correct, the software will prompt the server started successfully.

In the "Start" menu of the computer, to "run" type "cmd" (Figure 5-19), to determine the DOS window.

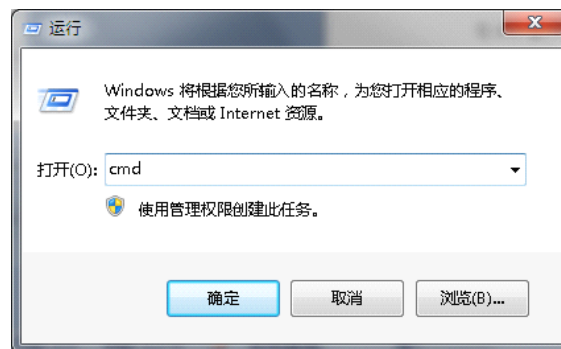
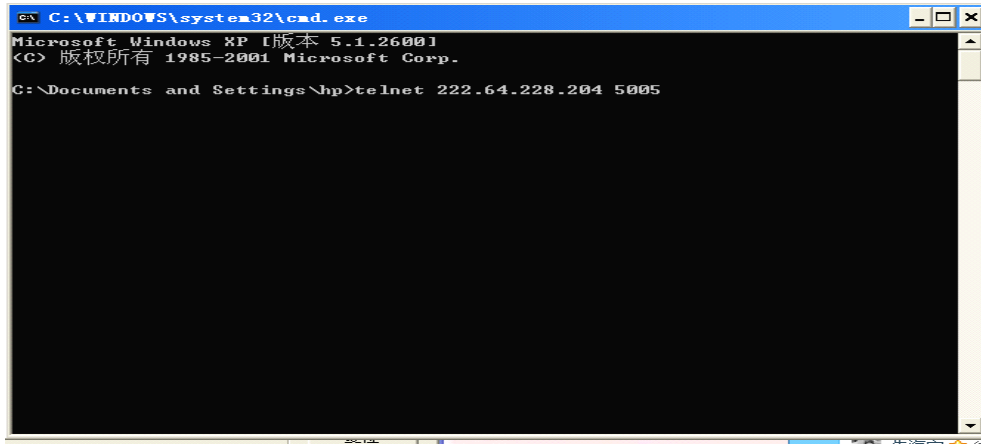
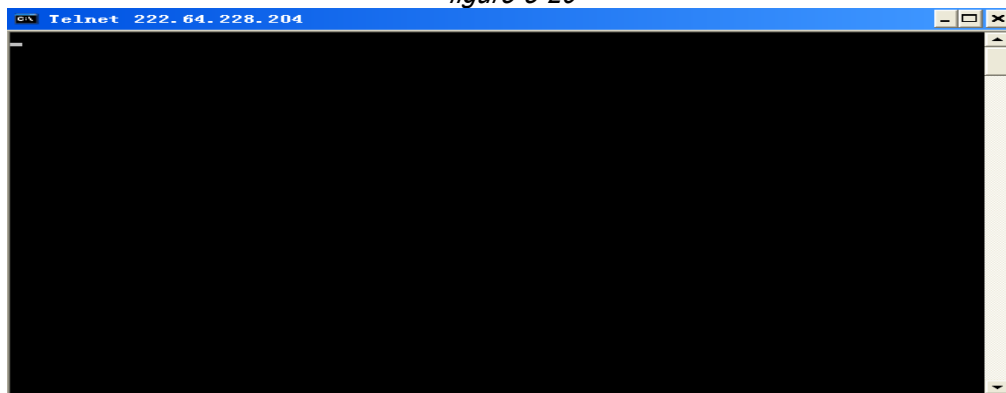
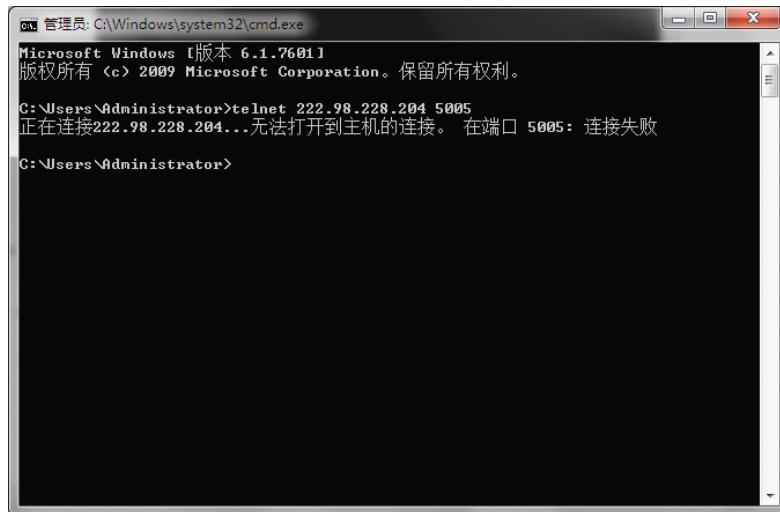


figure 5-19

Enter `telnet 222.64.228.204 5005` in the DOS window (figure 5-20), 222.64.228.204 is the WAN IP. 5005 is a local IP port assigned in the router, telnet is test command, press Enter, if the server build a successful map will appear figure 5-21. At this point, the server port mapping, LedshowTW 2011 software configuration is complete.

*figure 5-20**figure 5-21*

If appears "figure 5-22", In that case, the server fails to start, make sure the network state after reset.

*figure 5-22*

### Step 5 BX controller network IP configuration

Open software "LedshowTW 2011", select "Setup" - "set screen parameters" , select the current controller model, then select "Network Communications" option in the "communication mode" . Turn off "set screen parameters " .

In the main menu, select :setup"- "network server configuration(figure 5-18) ,enter the port mapping information in the server IP and editor box ,after entering them ,please close this module.

In the main menu, select "Setup" - "Network IP Configuration" module (Figure 5-23). In this module, set the IP information to the BX controller.

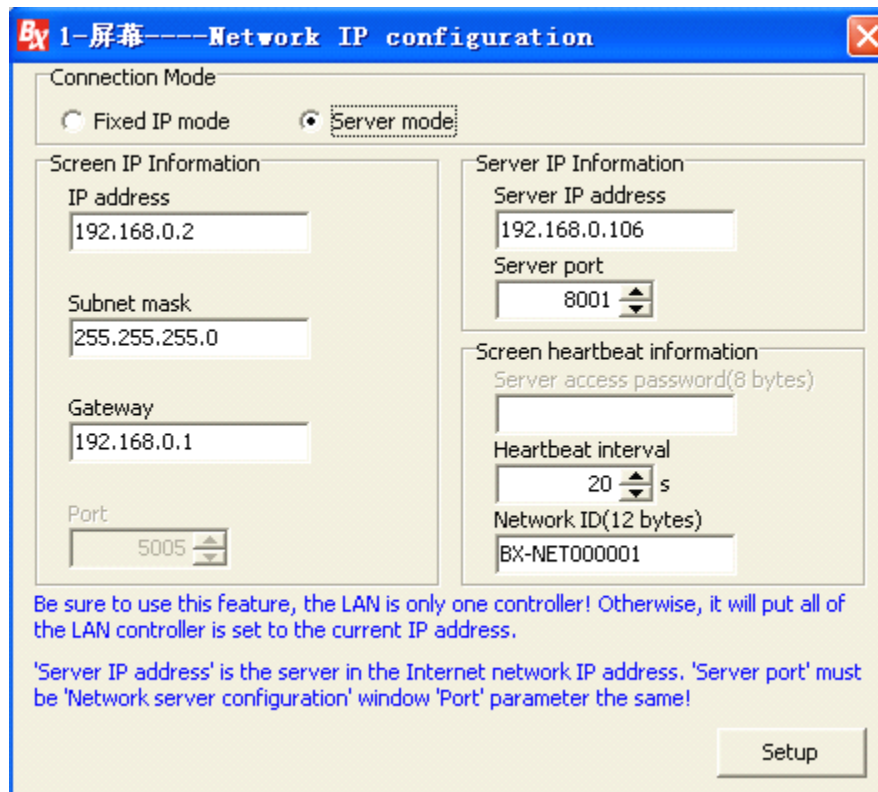


figure 5-23

Use the "Network IP configuration" feature requires BX controller is in direct link mode . Enter the "Network IP Configuration", select "server Mode".

In the dialog box display IP information for the BX controller in the local LAN IP address , users don't need set the port.

Server IP information field, "Server IP Address" is the IP address in the Internet network ("222.64.228.204"). "Server Port" must be same as the "port" parameter (5005) in "network server configuration" window !

Heartbeat information for the BX controller display connected to the network of active connections to connect the server sends the relevant information. "Heartbeat interval" is the interval for BX controller to send heartbeat messages to the server. "Network ID number (12)" is

the unique identifier code for BX controller and the server to identify BX controller, note that the number in the same system can not be repeated. User can customize the code.

After setting, click the "Setup" button. Parameter setting is successful, connect the BX controller to the corresponding terminal network.

#### Step 6 BX controller connection testing

After BX controller connected to the network, open the server software "LedshowTW 2011", start the web server successfully, in the main menu, select "Settings" - "set screen parameters", add a corresponding screen, select the corresponding BX controller model, and then select "Network communications" option in the "communication mode". In the new pop-up "Network Settings" tab (Figure 5-24) select the "server mode." Finally, fill the setting information in the "Network ID number (12)".

Close "set screen parameters", as shown in the main window screen, icon is red (Figure 5-25), indicating that BX controller is not on-line, if the blue screen icon (Figure 5-26), indicating the BX controller has been on the line, the screen can be normal communication.

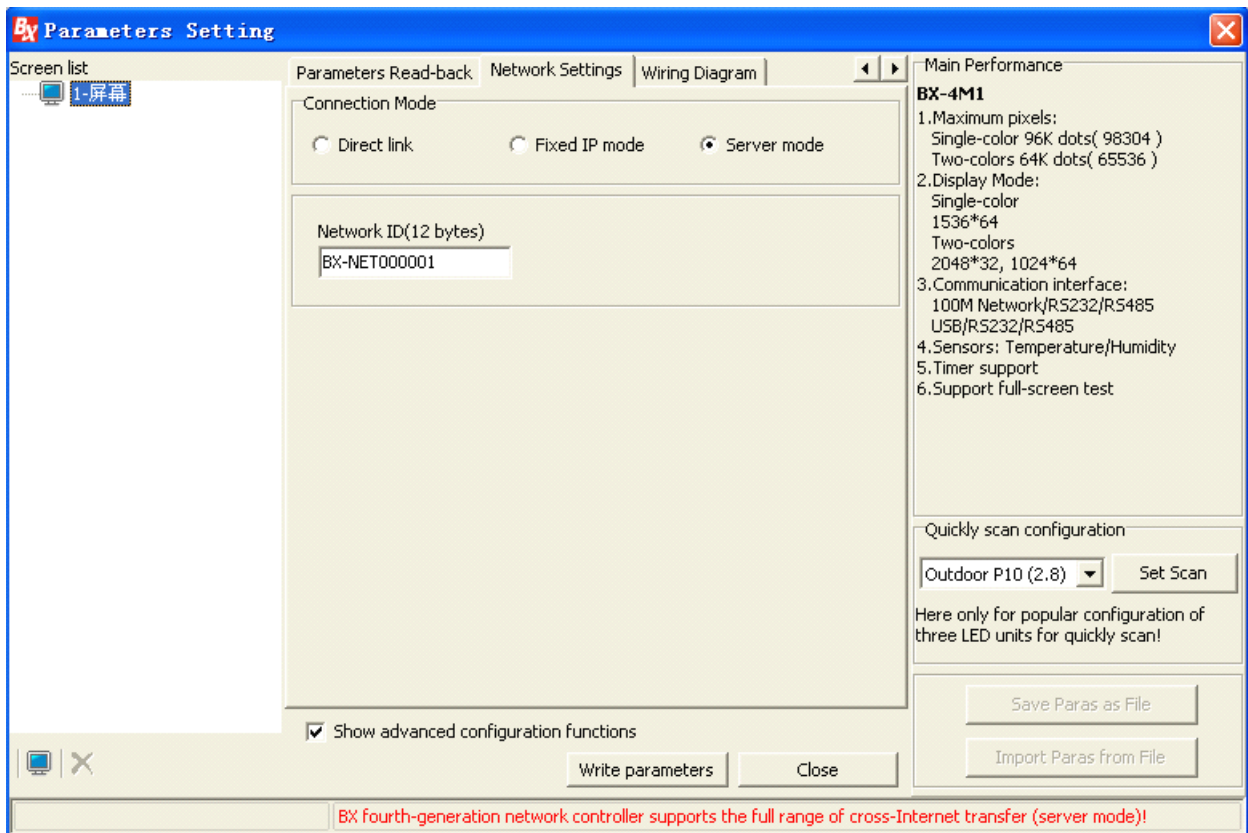


figure 5-24



figure 5-25

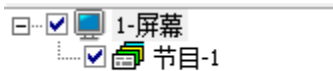


figure 5-26

#### 5.4 Reset screen parameters

Enter the password 168, as shown in Figure 5-3, is used to set the selected screen parameters once again

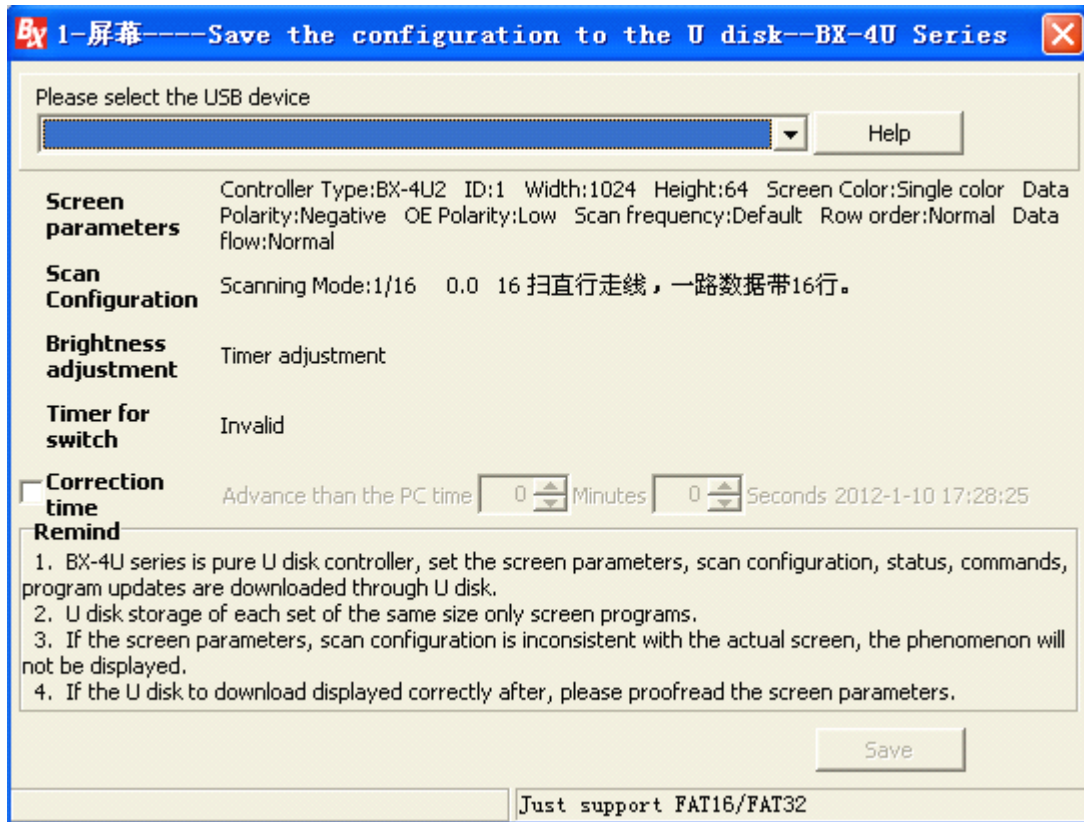
#### 5.5 Send mode

##### 5.5.1 Multi-screen mode

Click the menu "Send mode" - "multi- screen mode ", select the sending method, all the screen information will be shown in the cluster list . All check box is selected by default ,when the user is not ready to send a screen, click the appropriate screen, cancel the selected check box, you can send all the commands except "set screen parameters" in turn .

##### 5.5.2 Save the parameters to U disk

Click "save the configuration to the U disk ",install the U disk to the computer ,click SAVE ,screen parameters /scan configuration/brightness adjustment/ timer for switch /correction time and so on will be saved in the U disk. As shown in the figure:



### 5.6 Turn on and Turn off

点击“软件关机”、“软件开机”选项，可通过上位机软件自动关闭或者打开控制器所连接显示屏。

Click “turn on “ and “turn off”, users can open the connected screen by automatic turn on or turn off the software.

### 5.7 Time on/off

Click “time on / off” to popup the interface as shown in figure 5-27.



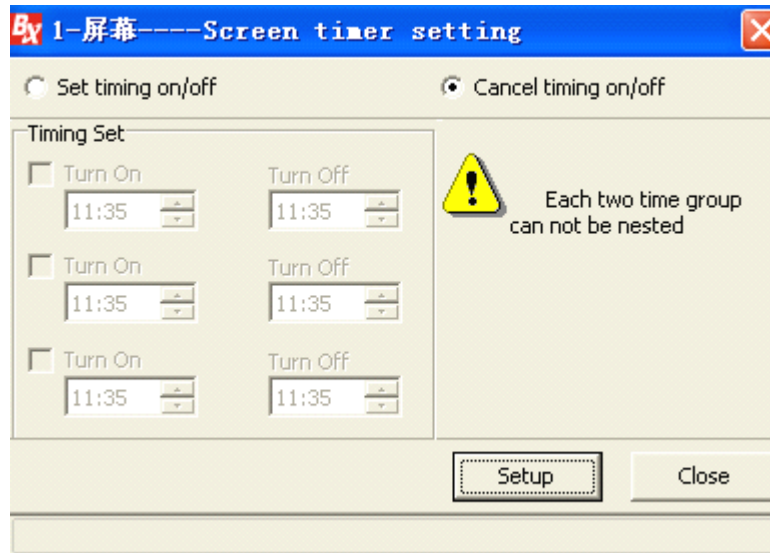


figure 5-27

### 5.8 *firmware maintenance*

- ◆ Users can maintain the controller by this firmware.
- ◆ Click “firmware maintenance “ to popup the dialog box as shown in figure 5-3, input password”888” to popup the firmware maintenance interface as shown in figure 5-28.
- ◆ Check the firmware: click this button to check the related information about the current controller firmware ,the information will be showed in the box.
- ◆ Firmware upgrade: click this button to select the upgrade REL files. Click download button ,finally click activation button to activate the download firmware.
- ◆ Restore the factory settings: switch to this page, the current firmware name, version, modify time will be shown . Click “restore the factory settings “to restore the firmware. As shown in figure 5-29.

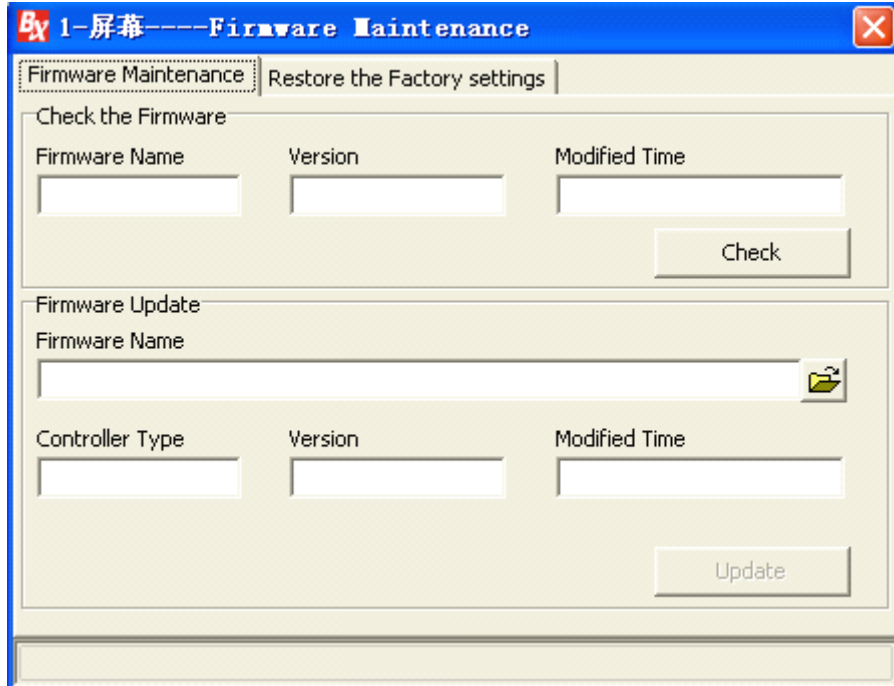


figure 5-28

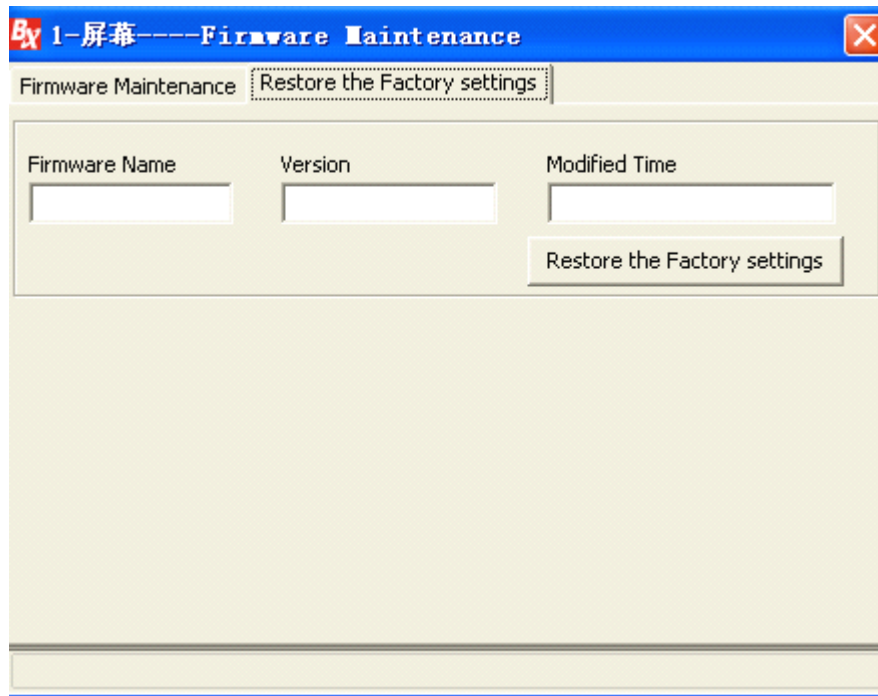


figure 5-29

## 6. User manual for BX-4U series

### 6.1 Product introduction

The single-USB interface LED display controller, no serial, operation more easy. Powerful capacity in reading all kinds of USB disks, 3.5V- 6.5V wide voltage range. -30°C ~ 70°C wide ambient temperature. Flexible and rich display control, high performance price ratio, support firmware update by USB disk. Parameters setting/Scan configuration/Program update can be completed conveniently by USB disk. Correction time/Brightness adjustment/Timer for switch can be completed conveniently by USB disk

Connect the U disk which has been programmable to the USB interface of the controller(or USB extension cable interface), program will be uploaded automatically to the FLASH memory, update and cover the original programs. After upload program successfully, LED display updated program state automatically, now you should unplug the U disk.

### 6.2 Technical parameters

| Technical parameters for U disk controller |                       |   |                           |   |
|--|-----------------------|---|---------------------------|---|
| Model                                      | Control area          | Display mode  | Interface                 | Area/Program                              |
| BX-4UT                                     | Single color:8K DOTS  | 512*16 256*32   | 1 group of T8             | 8 areas, 128 programs support temperature |
|  | Double color:4K DOTS  | 256*16 128*32   | 2 groups of T12           |   |
| BX-4U0                                     | Single color:16K DOTS | 1024*16 512*32 320*48 256*64                                    | 2 group of T8             |   |
|  | Double color:8K DOTS  | 512*16 256*32 160*48 128*64                                     | 4 groups of T12           |   |
| BX-4U1                                     | Single color:24K DOTS | 1536*16 768*32 512*48 384*64                                    | 2 group of T8             |   |
|  | Double color:12K DOTS | 768*16 384*32 256*48 192*64                                     | 4 groups of T12           |   |
| BX-4U2                                     | Single color:64K DOTS | 3072*16 2048*32 1344*48 1024*64                                 | 2 group of T8             |   |
|  | Double color:32K DOTS | 1536*16 1024*32 672*48 512*64                                   | 4 groups of T12           |   |
| BX-4U2X                                    | Single color:96K DOTS | 3200*16 2400*32 2048*48 1536*64 1280*80 1024*96 896*112 768*128 | 1 group of 50PIN (HUB128- | 32 areas, 192 programs Support            |

|          |   |   |         |   |
|----------|---|---|---------|---|
|          | Double<br>color:64K<br>DOTS                 | 2560*16 2048*32 1344*48<br>1024*64 896*80 768*96<br>640*112 512*128   | T8/T12) | temperature<br>/temperature<br>& humidity |
| BX-4U3   | Single<br>color:96K<br>DOTS                 | 3200*16 2400*32 2048*48<br>1536*64 1280*80 1024*96<br>896*112 768*128 |         |   |
|          |   | 704*144 640*160 576*176<br>512*192 480*208 448*224<br>416*240 384*256 |         |   |
|          | Double<br>color:64K<br>DOTS                 | 2560*16 2048*32 1344*48<br>1024*64 896*80 768*96<br>640*112 512*128   |         |   |
|          |   | 448*144 384*160 352*176<br>320*192 288*208 288*224<br>256*240 256*256 |         |   |
| Software | LedshowTW2011 GRAPHICS & TEXT EDIT SOFTWARE |   |         |   |

### 6.3 Use approach

Step 1, set screen parameters

Notice: When you select BX-4U0/4U1/4U2/4U3/4UT controller, the original "Write screen parameters" button is instead by the "Save" button. Select the appropriate controller model and the corresponding parameter settings, click the "Save as" button, the screen parameter information will be stored in the computer, instead of immediately loaded on to the LED controller (figure 6-1)

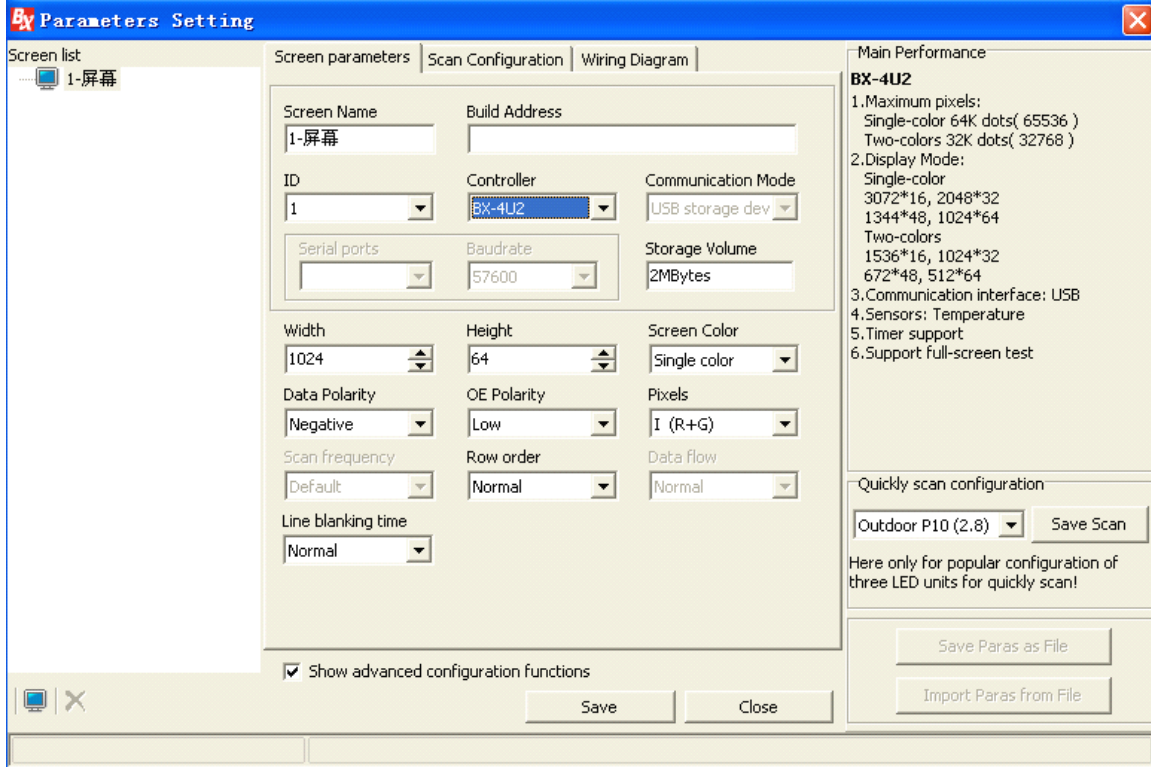


figure 6-1

### Step 2 Scanning configuration

If your display driver circuit is one of the most common, please use quick scan configuration module to complete the scan configuration. Otherwise, please enter the scan configuration module, select the right scanning method, click the "Save as" button, then scan configuration information will be stored in the computer, instead of immediately loaded on to the LED controller.

### Step 3 Edit program

This step is similar to the other controller model.

### Step 4 Save all the data to U disk

Program editing is complete, click on "USB download" button, pop-up software dialog box. Insert U disk into the computer, click the "Save " button. Screen parameter set / scan configuration / program data / time correction / brightness adjustment / timer switch and other data will be stored immediately in the U disk. Figure 6-2

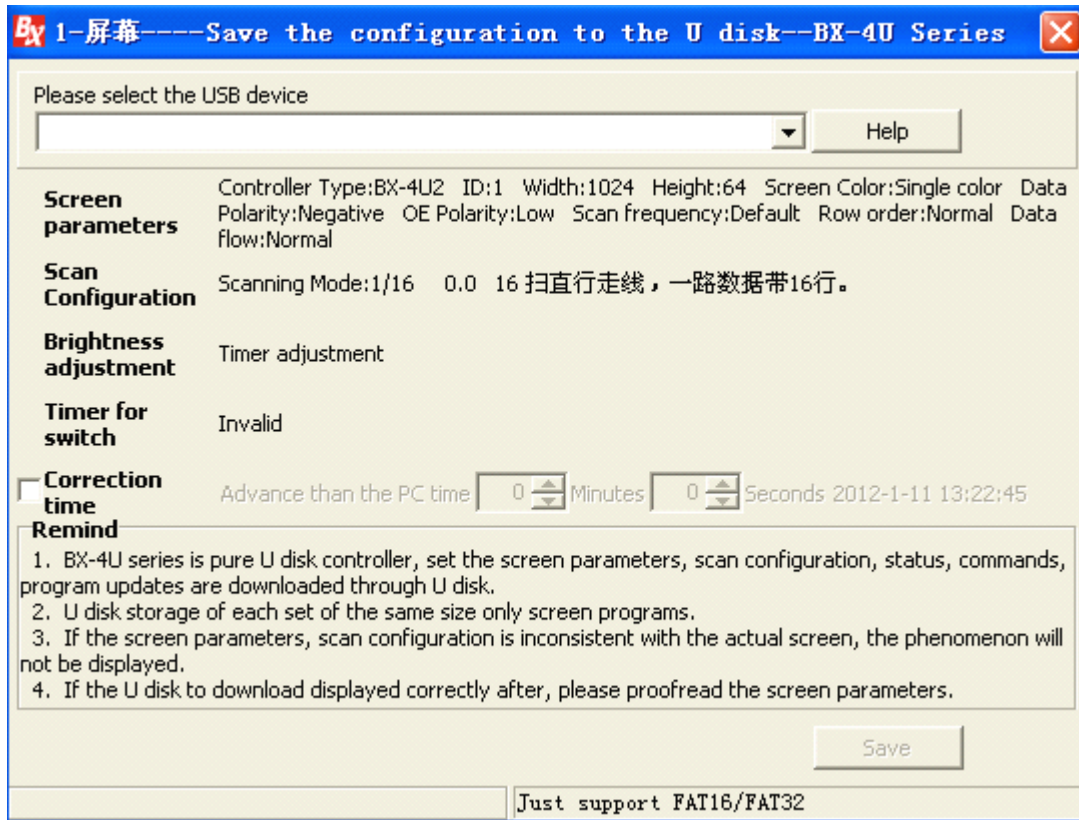


figure 6-2

#### Step 5 BX-4U0/4U1/4U2/4U3/4UT firmware upgrade

Import the latest version of the software upgrade process by the name of the controller , if the software version of the model is consistent with the control card, the program can be successfully upgraded, and if not, it will prompt that does not match, please re-transferred. Figure 6-3

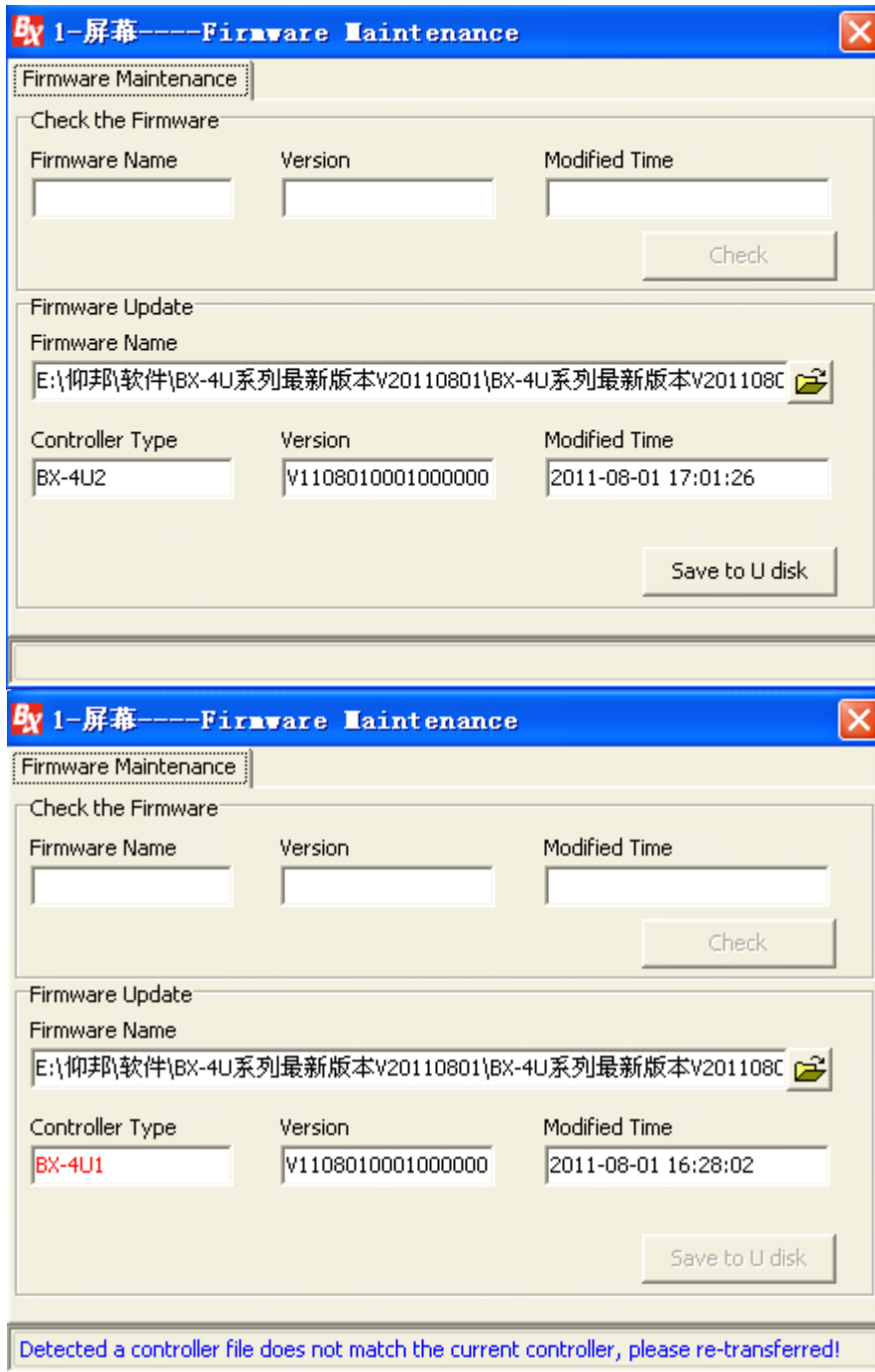


figure 6-3

6.4 Notice

1 Download programs to save in U disk by the USB shortcut key in LedshowTW2011 interface . Do not make any change to “onbonbx” file and folder in the U disk.

2. When save programs to U disk, you must determine the controller parameters is same as the setting in LedshowTW 2011 .Otherwise, it can not update program, it says "data error."

3. Before save programs to the U disk, you must determine the U disk formatted as FAT or FAT32 format.

4 If the screen shows "Unknown Device" or "unknown disk", need to re-check if the USB connection is loose or re-plug U disk.

5.Each time you re-plug U disk controller or start the controller, program will be automatically uploaded. Therefore, after the program is successfully uploaded, you should promptly pull U-disk to prevent repeat upload.

6.Each U disk only support one set of same size screen program.

7 If U disk shows abnormal to download, please proofread display parameters.



7. FAQ

7.1 Computer can't communicate with the controller

- ◆ Please check if the communication line (or cable, or GPRS connection cable) of your computer and control card is connected properly.
- ◆ Check the control card to see whether the using controller is corresponding with the selected control components on the software.
- ◆ Check your whether the computer's serial port is correspond to the serial port settings on the software .
- ◆ Check the jumper cap on the control card to see if it is the selected jumper cap of 232/485 in communication mode.
- ◆ Please check if the selected communication mode is correspond to the software setting, such as 232/485 communication mode ,network communication or GPRS communication.
- ◆ Test the controller by getting closer to the computer, or change a lower baud rate for testing.
- ◆ Serial detail instruction is shown in figure 7-1.

| RS232<br>连接方法 |       | RS485<br>连接方法 |       |
|---------------|-------|---------------|-------|
| 计算机           | 控制器   | 转换器           | 控制器   |
| 2             | --- 2 | D+            | --- 7 |
| 3             | --- 3 | D-            | --- 8 |
| 5             | --- 5 | GND           | --- 5 |

figure 7-1

- ◆ Ethernet connection instruction

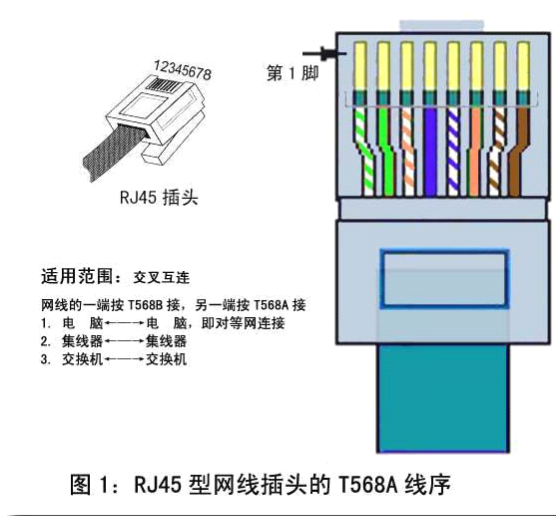


图 1: RJ45 型网线插头的 T568A 线序

figure 7-2

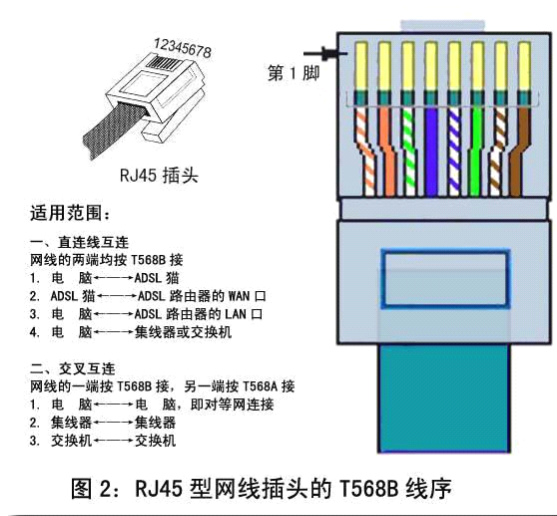


figure 7-3

### 7.2 Unstable flashing region

Please double-check whether there is overlap in various parts of the region, Flicker will be showed if there is overlap region .

Notice: The software is that the screen can display multiple programs, each program can have multiple regions, graphic area can include a lot of the graphic part (including a lot of text files) and a lot of image files.

Different content can be displayed in the same place or show different content when many programs are in sequential play.

### 7.3 smearing appears on the display, unstable flicker behind the display

When smearing or unstable flicker appears on the display, please modify the scanning frequency or frequency factor in “set screen parameters” and decrease the default value, so the signal can pass longer and further.

### 7.4 Screen anti-color or brightness is not enough

More details please check [5.3 “set screen parameters”](#)

### 7.5 Software detail for controllers

| Common software |              |                  |
|-----------------|--------------|------------------|
| Software name   | Release date | Controller model |
|                 |              |                  |

|   |              |                                       |
|---|--------------|---------------------------------------|
| LedshowTW 2010 Graphics & text edit software                    | 2010-07-14   | BX-3T/BX-3A1/BX-3A2/BX-3A/BX-3M/BX-3E |
| LedshowTW Super Graphics & text edit software V3.0              | 2009-11-23   | BX-E/BX-C II /C II +/M II /A/T II     |
| LedshowTW Super Graphics & text edit software V3.0              | 2009-10-19   | BX-E/BX-C II /C II +/M II /A/T II     |
| LedshowTW Super Graphics & text edit software V3.0              | 2009-9-30    | BX-E/BX-C II /C II +/M II /A/T II     |
| LedshowTW Super Graphics & text edit software V3.0              | 2009-9-21    | BX-E/BX-C II /C II +/M II /A/T II     |
| LedshowZM stage caption edit software v3.10.01.20               |              | BX-Z                                  |
| LedshowTW Graphics & text edit softwareV4.92                    |              | BX-S16/S16F/S16FE/SC                  |
| Customized Software   |              |                                       |
| Software Name   | Release Date | Controller model                      |
| Ledshow Bank intel cluster information release system KAV V2.8  |              | BX-E bank customization               |
| Ledshow intel cluster information release system V1.0           | 2009-05-01   | BX-GPRS 和 BX-E/C II /M II /T II       |
| LedshowGG Media edit release system Network version V1.0        |              | BX-GPRS 和 BX-Q II /QT II              |
| LedshowHR Talent market cluster information release system V3.2 | 2008-10-18   | BX-A/T/A II /T II                     |
| LedshowGJ Traffic advertisement edit release system V1.0        |              | BX-GPRS、 BX-Q II /QT II               |

**Notice:** please select the matched software to each controller, or the communication will be failing.

#### 7.6 232/485 jump line mode for controllers

- ◆ 232/485 jump line for BX-C is in the top left of the controller( place the controller horizontally, 50 PIN interface is on the top) as shown in figure 7-4.

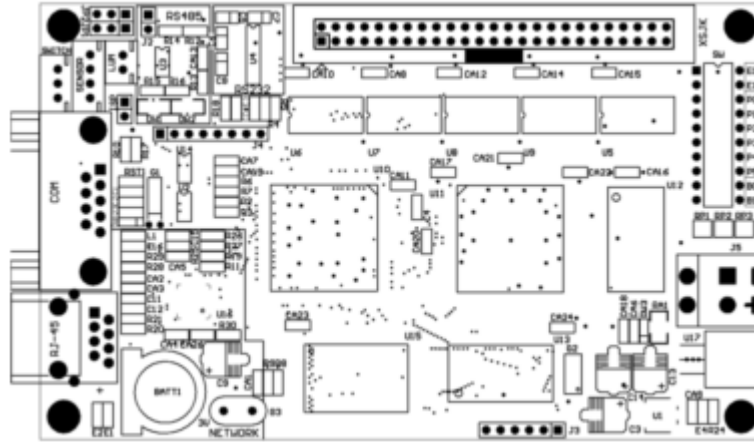


Figure 7-4

- ◆ Insert the jumper cap horizontally, the right one is 232 mode ,as shown in figure 7-5

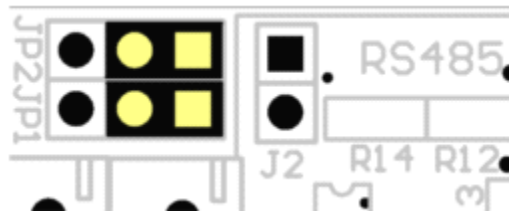


Figure 7-5

- ◆ The left one is 485 mode, close to JP1,JP2.as shown in figure 7-6.

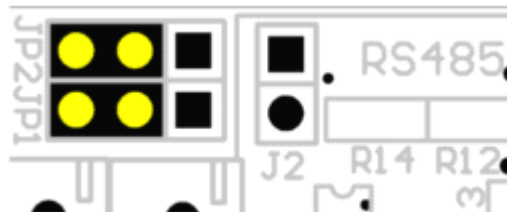


Figure 7-6

Another single J2 is 120 Ohm short circuit resistor in 485 communication mode.

- ◆ 232/485 jumper for BX-A controller is in the back of the serial port, see the identifier , the left is 232, the right is 485.
- ◆ 232/485 jumper for BX-M controller please check the jumper identifier for 232/485.
- ◆ 232/485 jumper for BX-E is in the left top of the controller, left is 485, right is 232.
- ◆ **Remarks: all the controller jumpers are level jumper.**

### 7.7 Screen mess

- ◆ Please check if your controller power is normal (Test if the power can light display panel and controller )

- 
- ◆ Check if the connection direction among the controller, adapter, and display screen is correct.

7.8 *Notice*

- ◆ Please note that make anti-static treatment, or check if the zero line or ground handling is good, users must not plug or unplug the serial port, or they may burn out the computer's serial port or controller. If you need do this, please turn off the computer or the screen power and then plug the serial cable. If you frequently burn communications chip or burn multiple communication chips should double-check the communication line
- ◆ Please do not use electric iron to maintenance controller by yourself, or in the case of bad environment, please do all kinds of protection, including water, dust, corrosion and other aspects of work, or they may cause that the controller can not be repaired, or even scrapped.