

# LEDStudio User's Manual

V12.64

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LINSN TECHNOLOGY

# Chapter1 Introduction

## 1.1. Features

LEDStudioV12.64 is a LED Display software for Linsn LED Display Control System.  
By using LEDStudioV12.64 you can **edit and play programs** on LED Display;  
To **set up** LED display with Linsn LED Display Control System, please install LedSet.

Supported media file formats:

Document: .txt .doc etc.

Photo: .BMP .JPG .GIF .PCX .PNG etc.

Video: .MPG .MPEG .MPV .MPA .AVI .VCD .SWF .RM .RA .RMJ .ASF etc.

## 1.2. Requirements

- PC requirements:

- OS: Microsoft Windows XP/Windows Vista/Windows 7/8/10(32/64)

- Hardware:1024\*768 display (or higher)

- 64MB of Disk Space

- A DVI-D port (or HDMI port, but requires HDMI-to-DVI cable) provided by Graphics Card or

- Motherboard

- A USB port

## 1.3. What's New in LEDStudioV12.64

Compared to the classic LEDStudioV9.6-12.63, this new version 12.64 has the following features:

- You can add videos/pictures by dragging them to the certain area, see [Tips](#) at page49
- You can edit the program while the files is playing
- **Single line text window** can show text in 3/6 colors, see [color text](#) at page54
- One-click to set the whole **software** back to factory mode, see [Tips](#) at page22.

## Chapter2 Installation

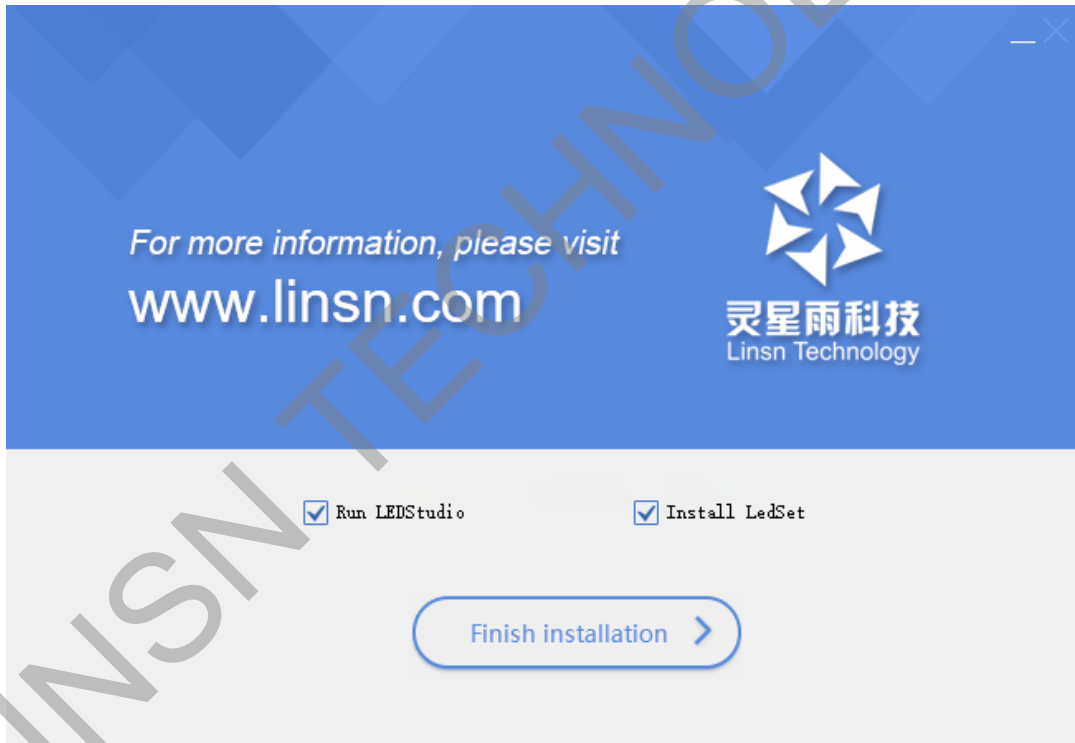
### 2.1. Installation

Follow the steps below to install and run LEDStudioV12.64

1. Download LEDStudioV12.64 (contains LedSet installer) from [www.linsn.com](http://www.linsn.com) (this is the only official website from Linsn) or get it from the CD-Disk coming with the sending card.



2. Double-click the LEDStudio-12.64.exe and follow all the on-screen instructions.  
**Note:**After installing LEDStudio, you will get the final page as follows. You can decide whether to install LedSet or not. (LedSet is for setup such as generating .RCG&.CON, etc. For more details on using LedSet, please check LedSet User's manul)



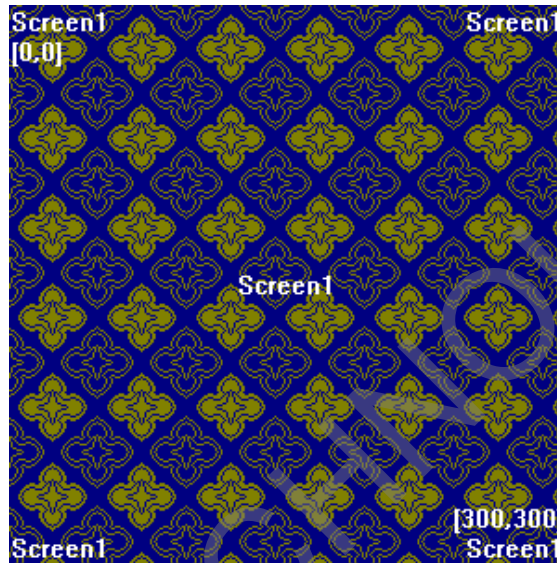
3. LEDStudio shortcut icon  will be generated on desktop after installation.

## Chapter3 How to Run LEDStudio

### 3.1. LEDStudio Interface

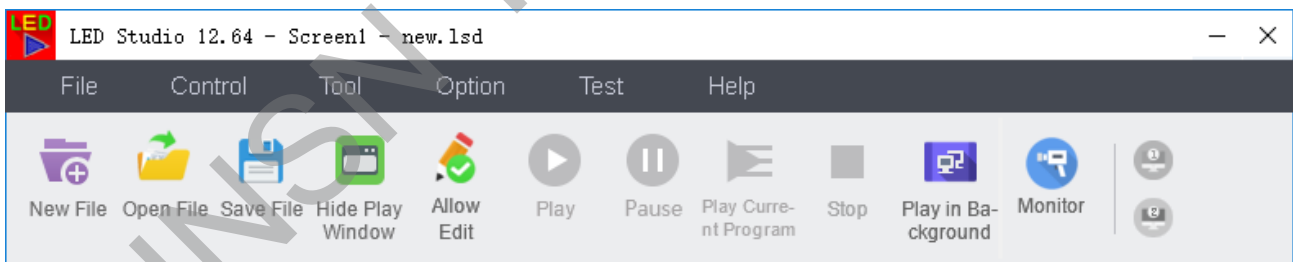
When you open LEDStudio, two windows will pop up:

- Play window

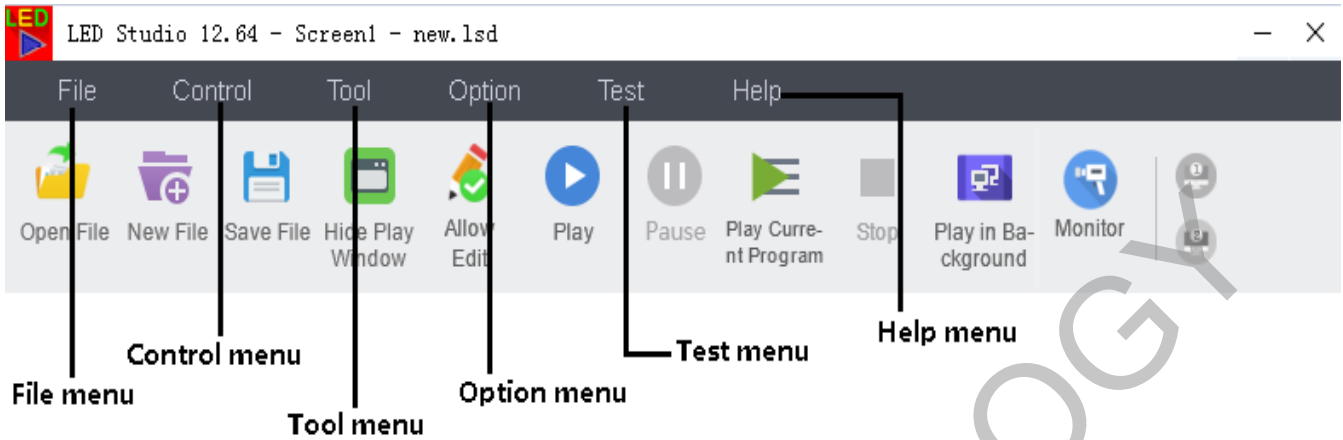


A simulated screen. Contents played by LEDStudio will be shown on the above Window.

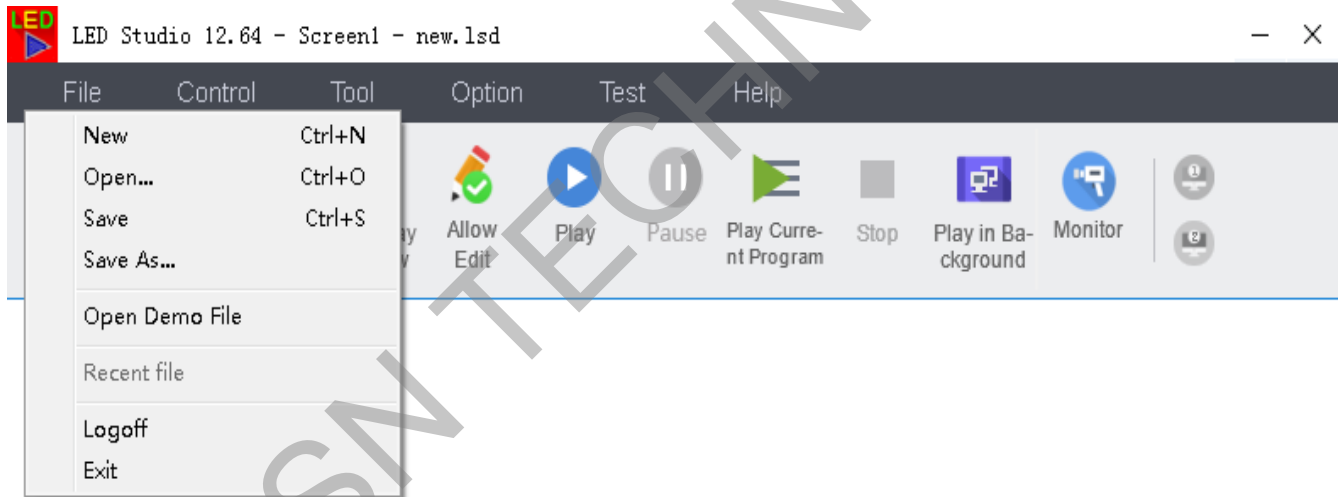
- Control window/panel



### 3.2. LEDStudio Menus



#### 3.2.1. File Menu



##### 3.2.1.1. New

**New:** create a new .lsd program file (.lsd is one kind of play-list/program file which is generated by LEDStudio) .

##### 3.2.1.2. Open

**Open:** open an existed LEDStudio program file (.lsd file).

##### 3.2.1.3. Save

**Save:** save an .lsd file.

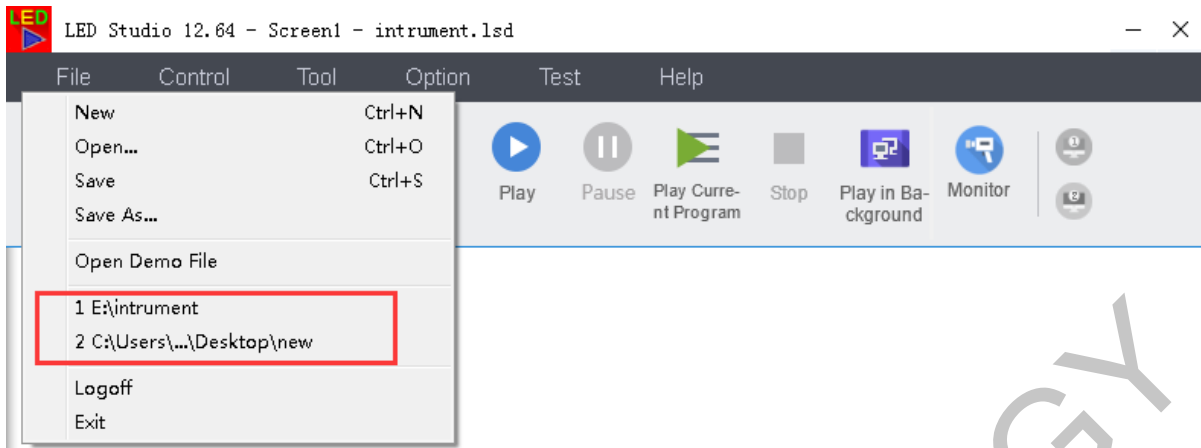
##### 3.2.1.4. Save As

**Save as:** to save current program file as a new .lsd file.

##### 3.2.1.5. Recent files

**Open recent files:** open the recently .lsd files (as the following picture).





### 3.2.1.6. Log off

**Log off:** log off LEDStudio to prevent further operation.

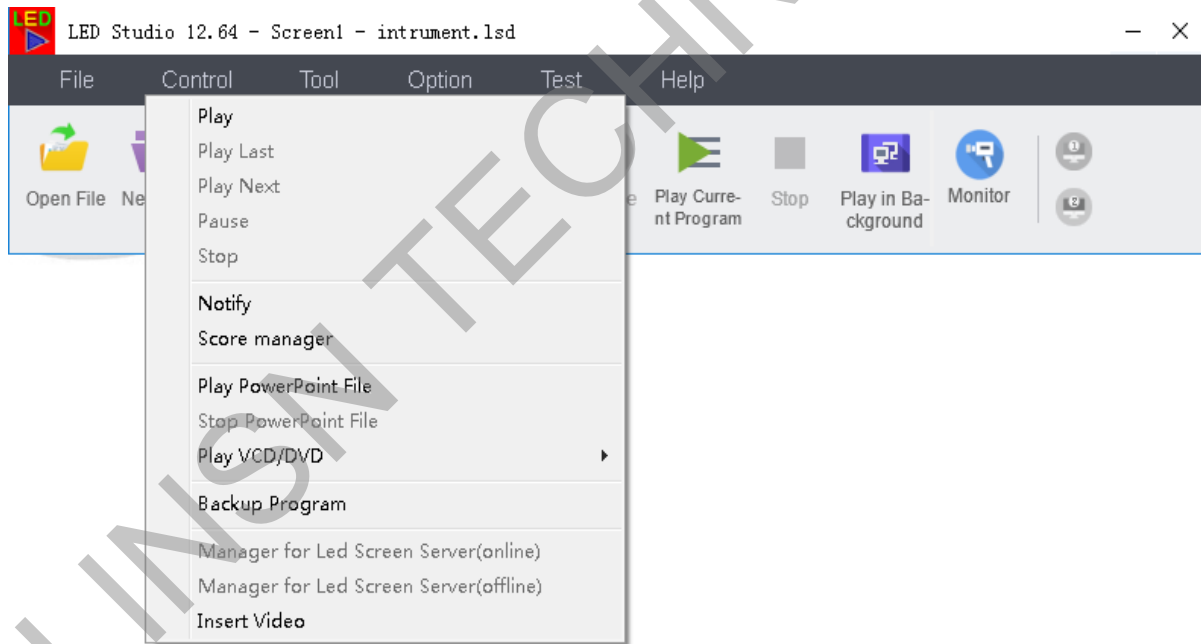
Note: This is related to the **User Setup** in **Option** menu.

You won't need to log off if you don't set up a new user.

### 3.2.1.7. Exit

**Exit:** exit LEDStudio.

## 3.2.2. Control Menu



### 3.2.2.1. Play

**Play:** Start playing program file (**Step by Step**).

Note: If there is no .lsd file loaded, this option will gray out.

### 3.2.2.2. Play Last

**Play last:** play previous **Step**.

### 3.2.2.3. Play Next

**Play next:** play next **Step**.

### 3.2.2.4. Pause

**Pause:** pause playing file.

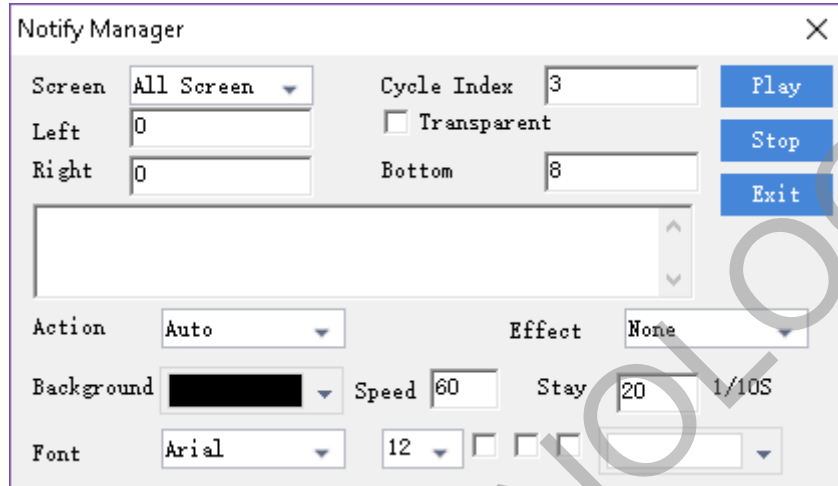
### 3.2.2.5. Stop

**Stop:** stop playing.

### 3.2.2.6. Notify

**Notify:** insert notice, when LEDStudio is playing programs.

When you click on the Notify option, a Notify Manager window will pop up, as follows



**Play:** start showing Notify Message

**Stop:** stop showing Notify Message

**Exit:** exit the window

**Screen:** choose which LED Screen to show Notify Message

**Cycle Index:** not yet put into use

**Left/Right/Bottom:** adjust the Notify Message position

**Transparent:** **only work when Background** color is Black. Set the black background to transparent. (Check the example shown below)

**Action:** how the Notify Message come into **Play Window**

**Effect:** effects for Notify Message

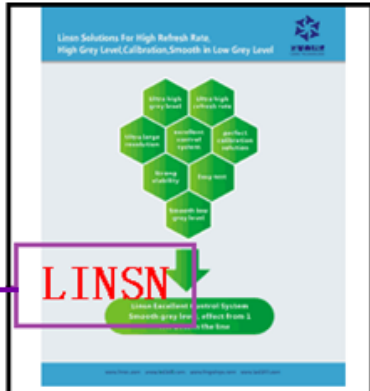
**Background:** background color for Notify Message

**Speed:** Notify Message coming in speed. The larger the value, the slower the speed

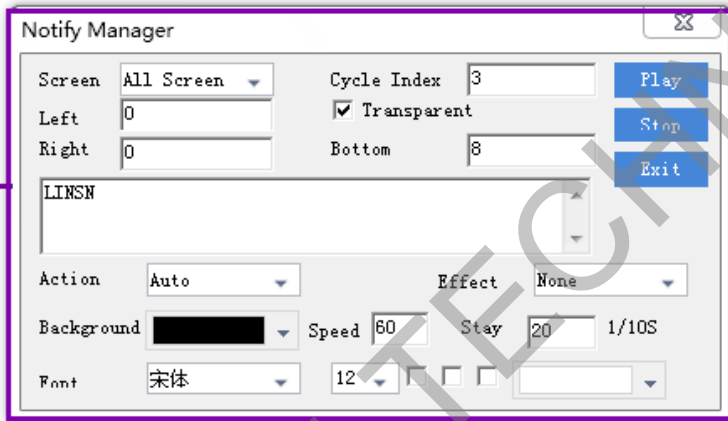
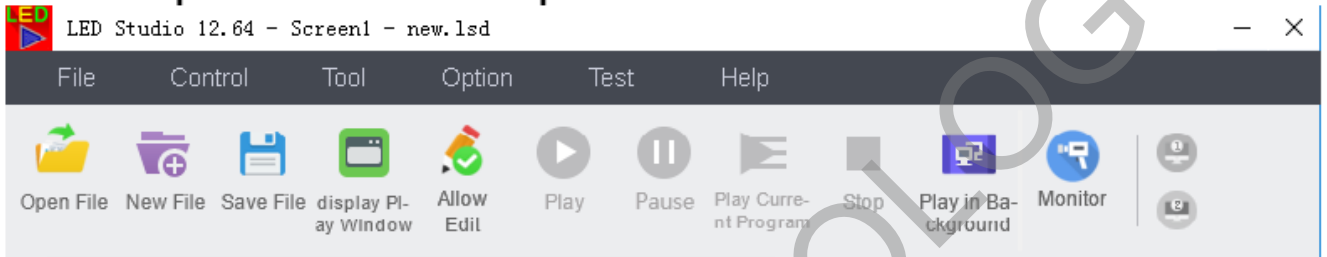
**Stay:** time duration for Notify Message to stay before next **Action** is taken place

**Font:** font setup for Notify Message

**Example** of using Notify

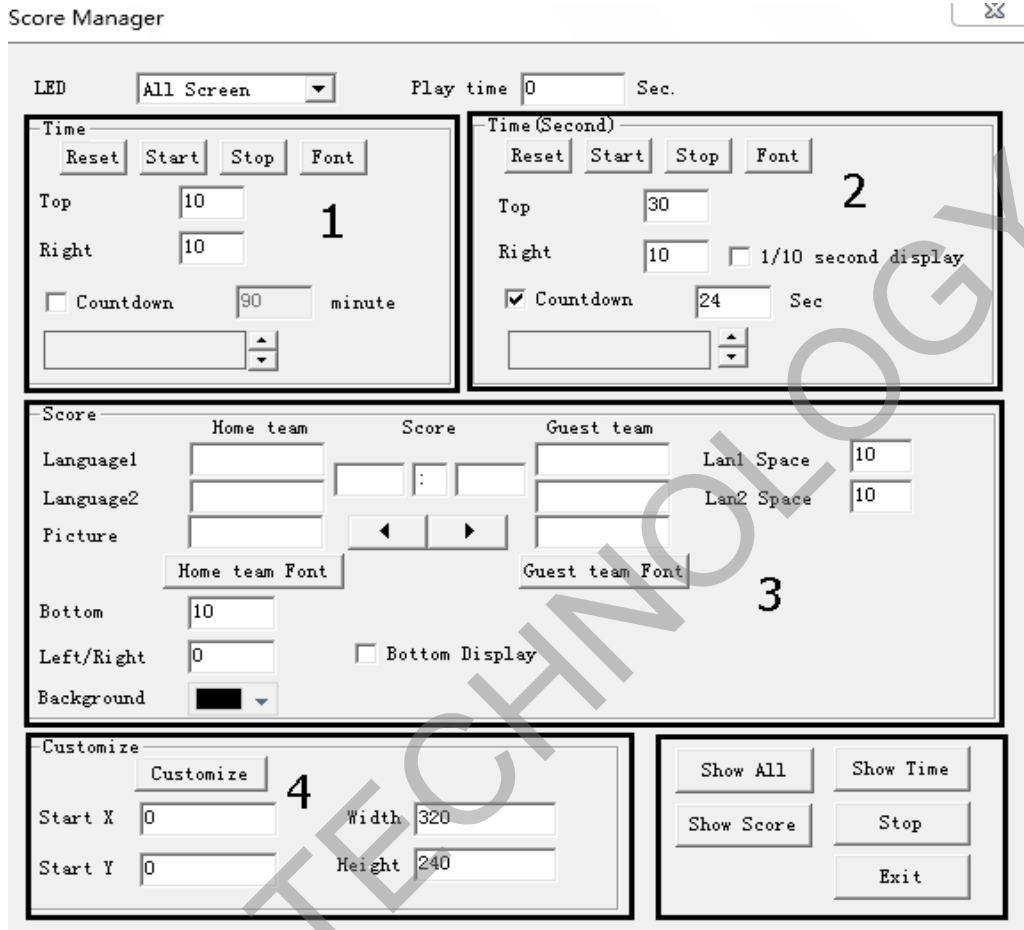


A post is displaying in the Play Window.  
You can insert a new message through Notify Manager without stopping the playing program



### 3.2.2.7. Score Manager

**Score manager:** display scores for competition games when LEDStudio is playing programs.



**LED:** choose which LED Screen to show the score

**Play time:** Not yet put into use

#### Part1 Time

**Reset:** reset the time to count/countdown

**Start:** start counting/countdown time

**Stop:** stop time counting/countdown

**Font:** font setting of time

**Top/Right:** set position of time (similar to set coordinate X, Y)

**Countdown:** check this option if needed

**Minutes:** time duration for count/countdown

**Part2 Time (Second)**

**Reset:** reset the time to count/countdown

**Start:** start counting/countdown time

**Stop:** stop time counting/countdown

**Font:** font setting of time

**Top/Right:** set position of time (similar to set coordinate X, Y)

**1/10 second display:** check this option to show millisecond

**Countdown:** check this option if needed

**Sec:** time duration for count/countdown

**Part3 Score**

**Home Team:** Team/Player name, in two languages

**Guest Team:** Team/Player name, in two languages

**Score:** input score

**Lan1 Space:** (language1) the distance of two players' names in showing

**Lan2 Space:** (language2) the distance of two players' names in showing

**Picture:** click the 'arrow' button to add pictures

**Font:** font settings

**Bottom:** set the position of score contents (player name, score)

**Left/Right:** set the position of score contents

**Background:** set the color of the display background

**Bottom display:** display Team/player pictures below score (check).

**Part4 Customize**

**Show All:** show both the time and score you set on the play window

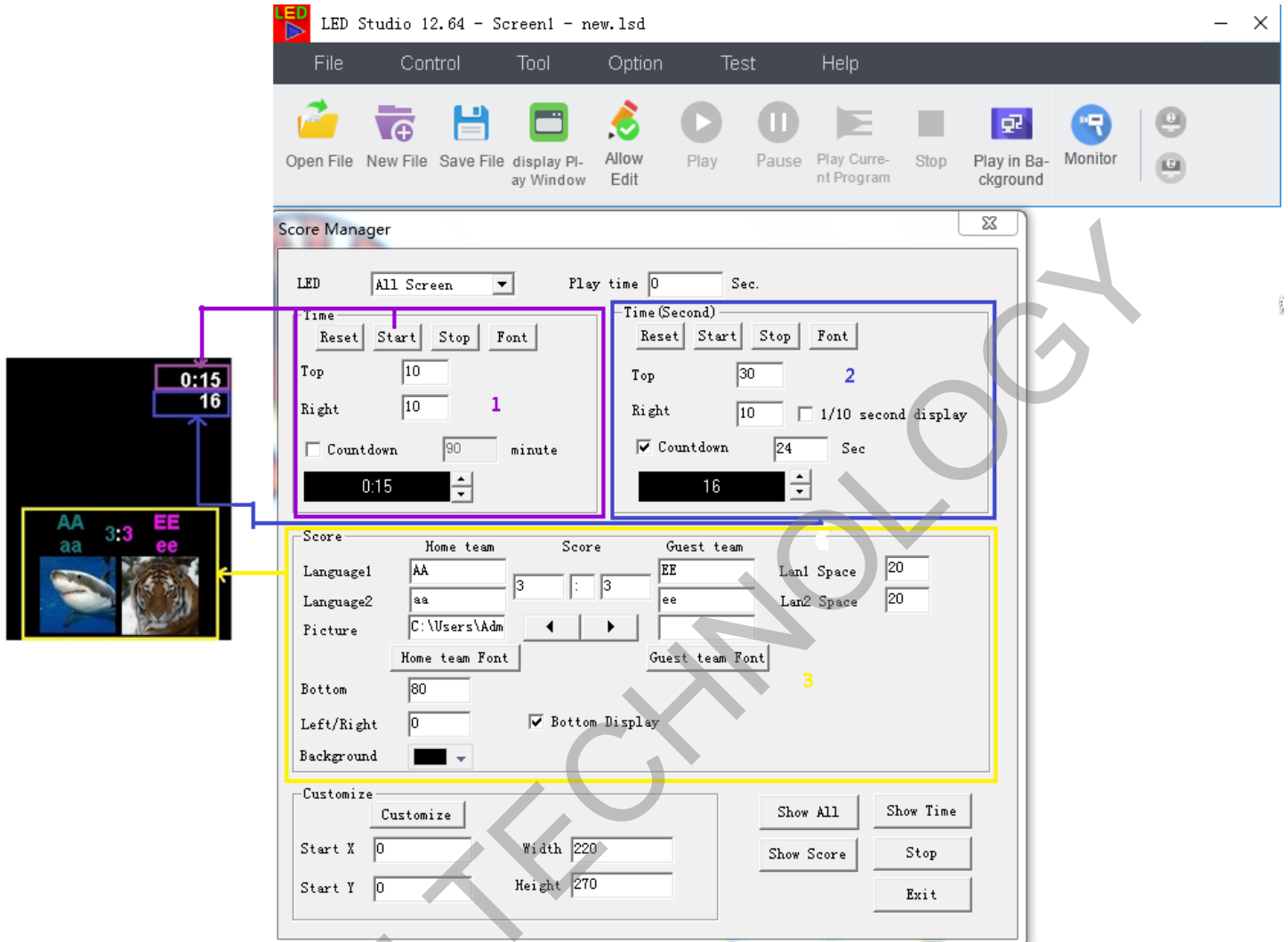
**Show Time:** only show the time you set on part1&2 to the play window

**Show Score:** only show the score you set on part3 to the play window

**Stop:** stop showing the score message

**Exit**

## Example of using Score Manager



The screenshot displays the LED Studio 12.64 software interface. The main window is titled "LED Studio 12.64 - Screen1 - new.led". The menu bar includes File, Control, Tool, Option, Test, and Help. The toolbar contains icons for Open File, New File, Save File, display Play Window, Allow Edit, Play, Pause, Play Current Program, Stop, Play in Background, and Monitor.

The Score Manager window is open, showing the following settings:

- LED:** All Screen
- Play time:** 0 Sec.
- Time Section:**
  - Buttons: Reset, Start, Stop, Font
  - Top: 10
  - Right: 10
  - Countdown:  90 minute
  - Current display: 0:15
- Time (Second) Section:**
  - Buttons: Reset, Start, Stop, Font
  - Top: 30
  - Right: 10
  - 1/10 second display:
  - Countdown:  24 Sec
  - Current display: 16
- Score Section:**
  - Home team: AA, Score: 3, Guest team: EE
  - Language1: aa, Language2: ee
  - Picture: C:\Users\Adm
  - Home team Font: [empty], Guest team Font: [empty]
  - Bottom: 80
  - Left/Right: 0
  - Background: [black]
  - Bottom Display:
- Customize Section:**
  - Buttons: Customize, Show All, Show Time, Show Score, Stop, Exit
  - Start X: 0, Width: 220
  - Start Y: 0, Height: 270

A preview window on the left shows the resulting LED display. It features a top section with "0:15" and "16" and a bottom section with "AA aa 3:3 EE ee" and images of a shark and a tiger. Colored boxes and arrows in the screenshot indicate the mapping between the software settings and the visual output.

### 3.2.2.8. Play PowerPoint File

**Play Power point file:** play PowerPoint file.

### 3.2.2.9. Stop PowerPoint File

**Stop PowerPoint file:** stop PowerPoint File.

### 3.2.2.10. Play VCD/DVD

**Play VCD/DVD:** play VCD/DVD in CD/DVD-ROM Drive.

### 3.2.2.11. Backup Program

**Backup program:** backup all files of current program .lsd file.

### 3.2.2.12. Manager for LED Screen Sever (online)

**Manager for LED Screen Sever:** to manage remote screen, please refer to [page24-28](#) for details.

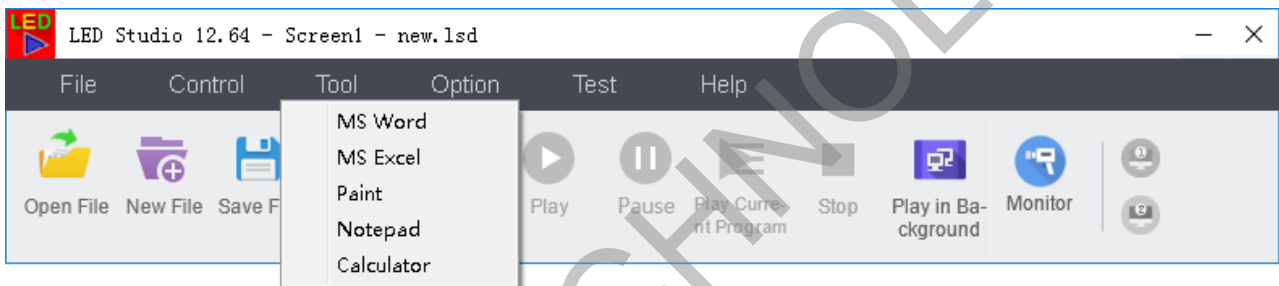
### 3.2.2.13. Manager for LED Screen Sever (offline)

**Manager for LED Screen Sever:** to manage remote screen, please refer to [page28-32](#) for details.

### 3.2.2.14. Insert Video

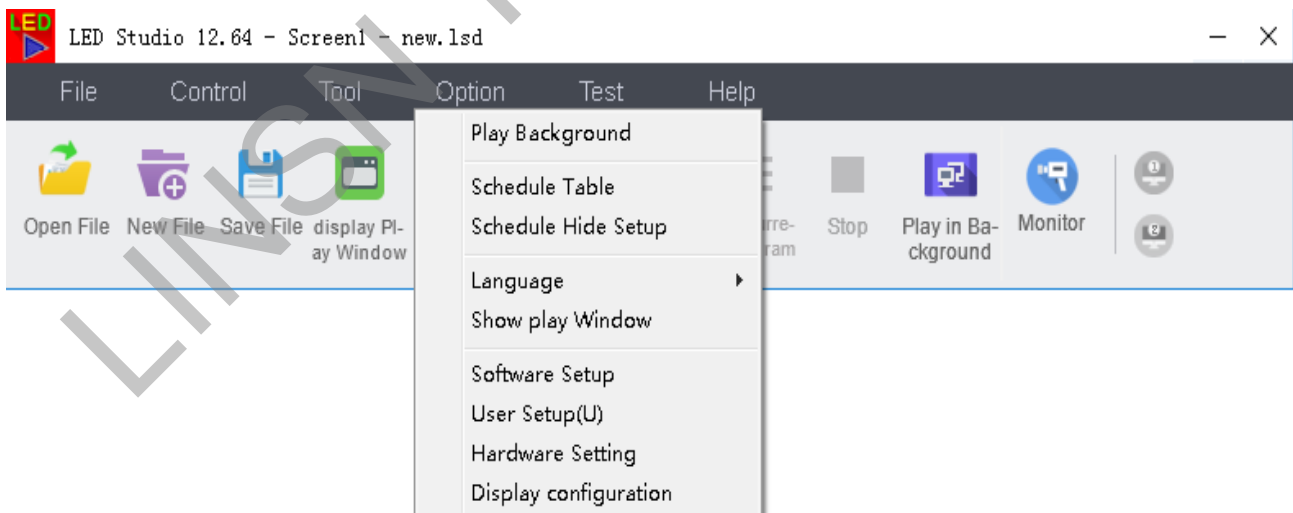
**Insert Video:** reserved

## 3.2.3. Tool Menu



**Short-cuts** of Microsoft Word, Excel, Paint, Notepad, Calculator. Click to open quickly.

## 3.2.4. Option Menu

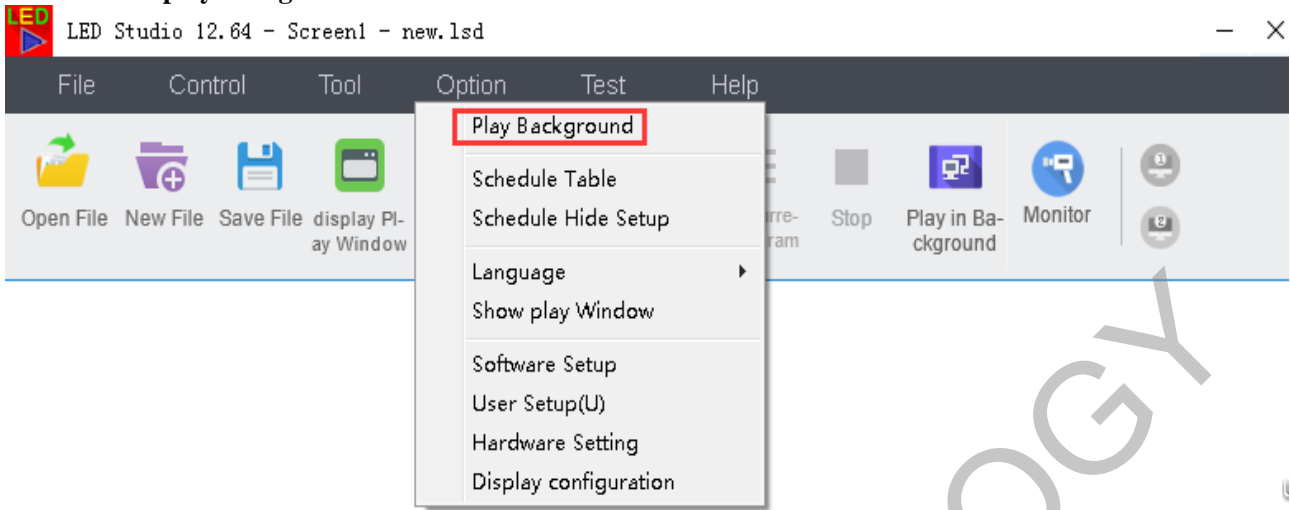


### 3.2.4.1. Play Background/Foreground

**Play Background:** Play background/foreground. Only when you set the graphics card and the sending card to **extended mode**

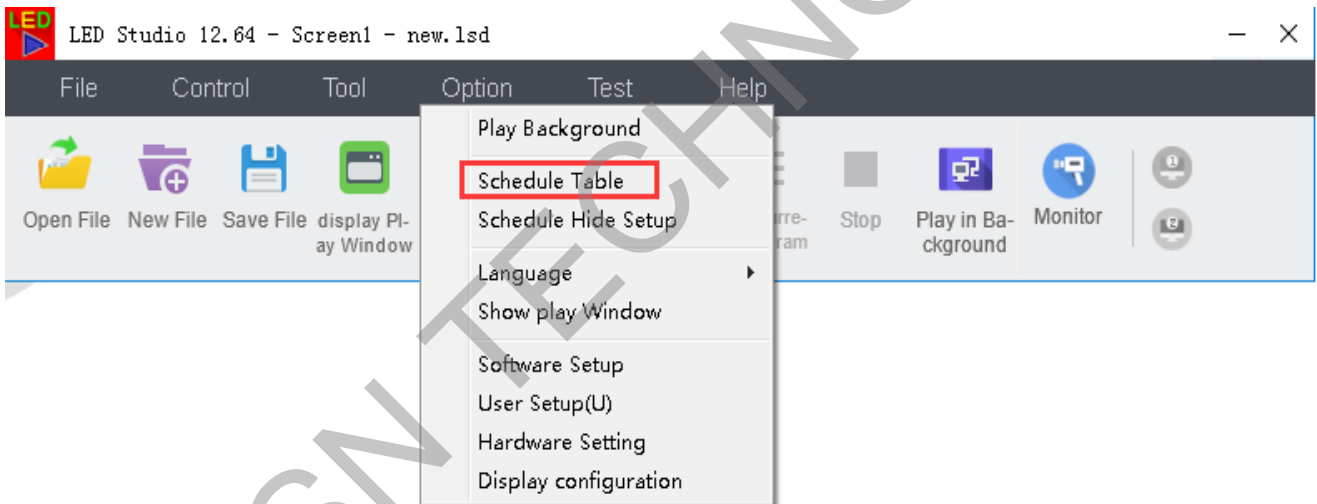
**Official website:** [www.linsn.com](http://www.linsn.com)

do you need to click **play background**.



### 3.2.4.2. Schedule Table

**Schedule Table:** To schedule commands to be carried out. For example, set the LED display brightness to a lower value at night time. Or play certain programs at preset time.





Scheduled Command Table

Serial No.	Command property	Screen No.	program file/value	Execution time	Valid date	Valid day

Start up scheduled command table

Send mode

Send to current screen only  
 Send to the selected screens  
 Send to all

Buttons: Send to Server, Edit, Add, Delete, Delete all, Exit

**Start up scheduled command table:** select to **enable** Scheduled Command

**Send to Server:** applied in **Remote LED Screen Manager Online** mode

Note: For more details, please refer to **Page24-28**

**Send to current screen only:** send the **Scheduled Command Table** to the current selected LED display

**Send to the selected screens:** select the LED display(s) to send the **Scheduled Command Table** to

**Send to all:** send to all LED displays listed in **Remote LED Screen Manager Online**

**Edit:** modify the selected Scheduled Command

**Add:** add a Scheduled Command

**Delete:** delete a selected Scheduled Command

**Delete all:** delete all listed Scheduled Command

**Exit:** Exit Scheduled Command Table Window

Serial No.	Command property	Screen No.	program file/value	Execution time	Valid date	Valid day	End Time

**Serial number:** the Scheduled Command list number

**Command property:** the Scheduled Command Name

**Screen Number:** the LED display that the Scheduled Command will take effect on

**Program file/value:** contents of the Scheduled Command

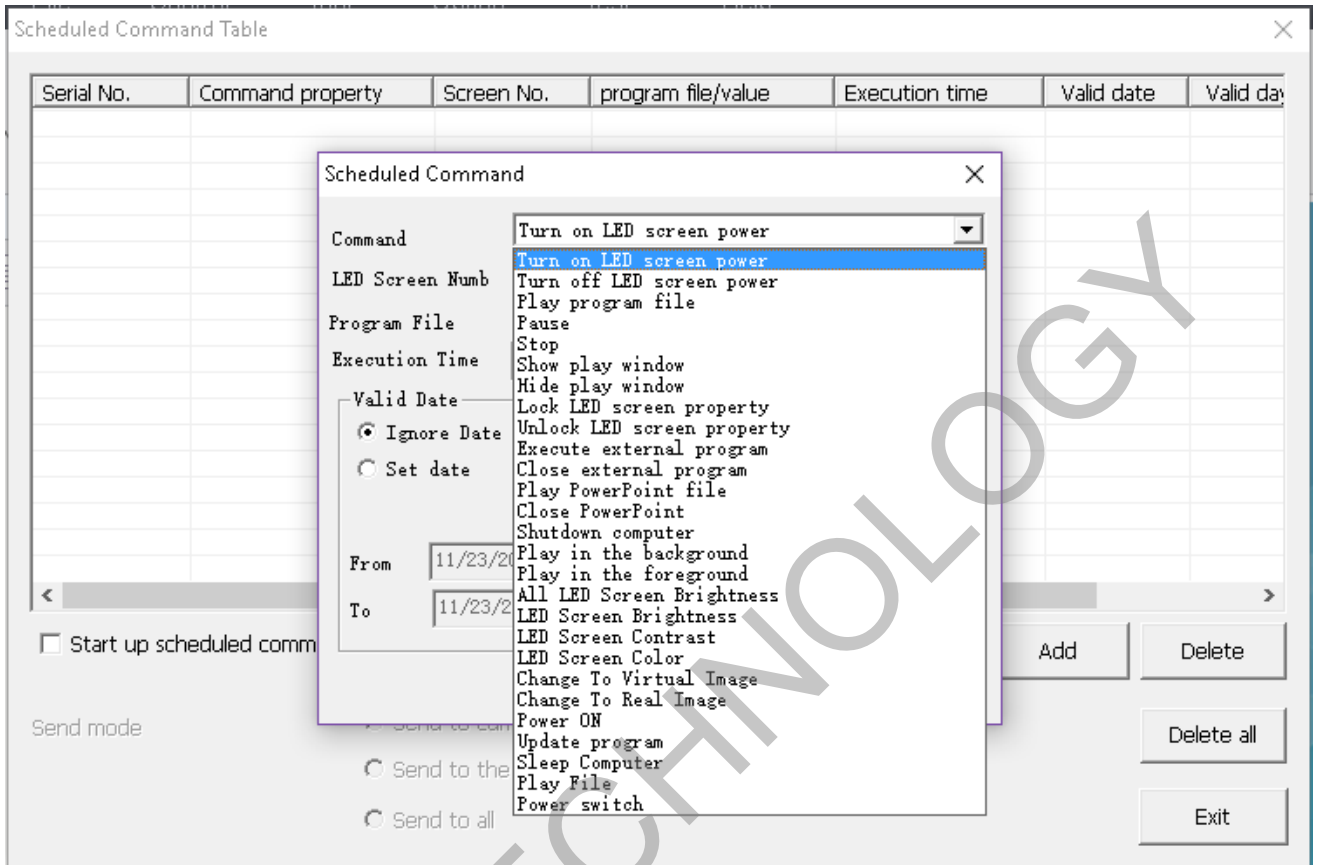
**Execution time:** time for the Scheduled Command to take effect

**Valid date:** time period that the Scheduled Command will take effect

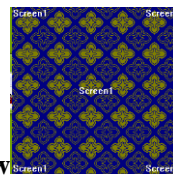
**Valid day:** day (Monday to Sunday) the Scheduled Command will take effect

**End Time**

After clicking the Add button, you will see the window below:



- **Turn on/off LED screen power:**
- **Play program file:** .lsd file
- **Pause, stop:** pause or stop at the execution time



- **Show/Hide play window:** show or hide the **Play Window**
- **Execute/close external program:** run or quit external .exe program played in LEDStudio (the .exe program should be tested and it works in LEDStudio)
- **Play/close PowerPoint file:** start or close PowerPoint file
- **Shutdown computer:** turn off the computer
- **Play background/foreground:** the graphics card and sending card should be set to extend mode when you need to use this function.
- **All LED Screen Brightness:** change the brightness of the LED screen at certain time
- **LED Screen Brightness:** change the brightness at a certain time
- **LED Screen Contrast:** change the contrast at a certain time
- **LED Screen Color:** change the color at a certain time
- **Change to Virtual Image:** If your LED screen is a virtual type, you can set a certain time to enable the virtual

–pixel mode

- **Change to Real Image:** If your LED screen is a virtual type, you can set a certain time to enable the real-pixel mode
- **Power ON:** turn on computer
- **Update program:** update program from server
- **Sleep computer:** put the computer in sleep mode
- **Play file:** choose the file and play

Note: After you set all the commands, please **choose the Start up scheduled command table option to enable the function to enable the function**

Scheduled Command Table

Serial No.	Command property	Screen No.	program file/value	Execution time	Valid date	Valid date

Start up scheduled command table

Send to Server Edit Add Delete

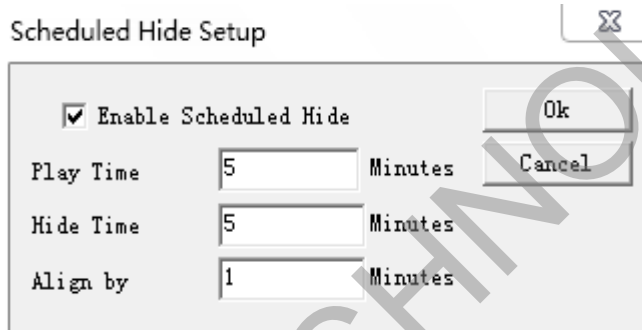
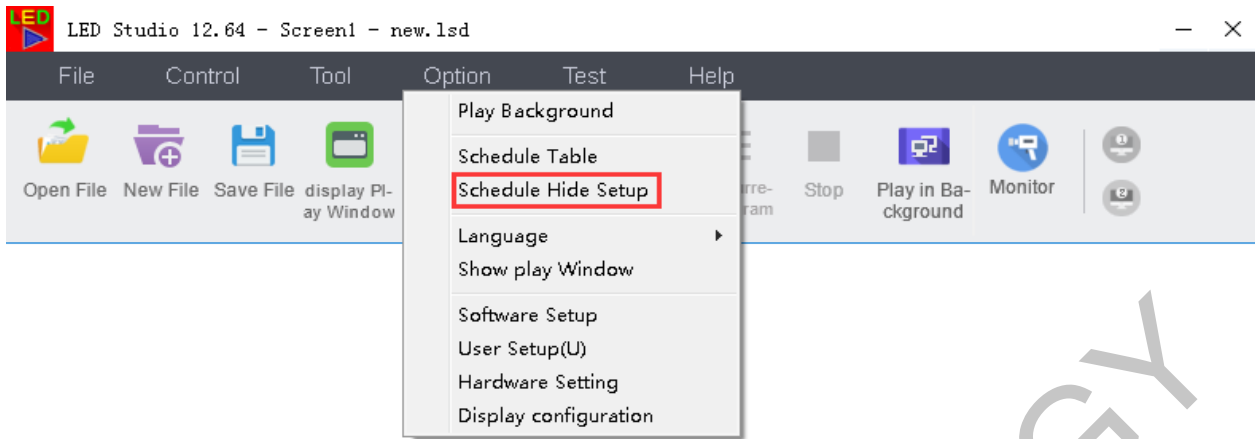
Send mode  
 Send to current screen only  
 Send to the selected screens  
 Send to all

Delete all

Exit

### 3.2.4.3. Schedule Hide Setup

Schedule Hide Setup:



**Enable Scheduled Hide:** enable/disable Scheduled Hide

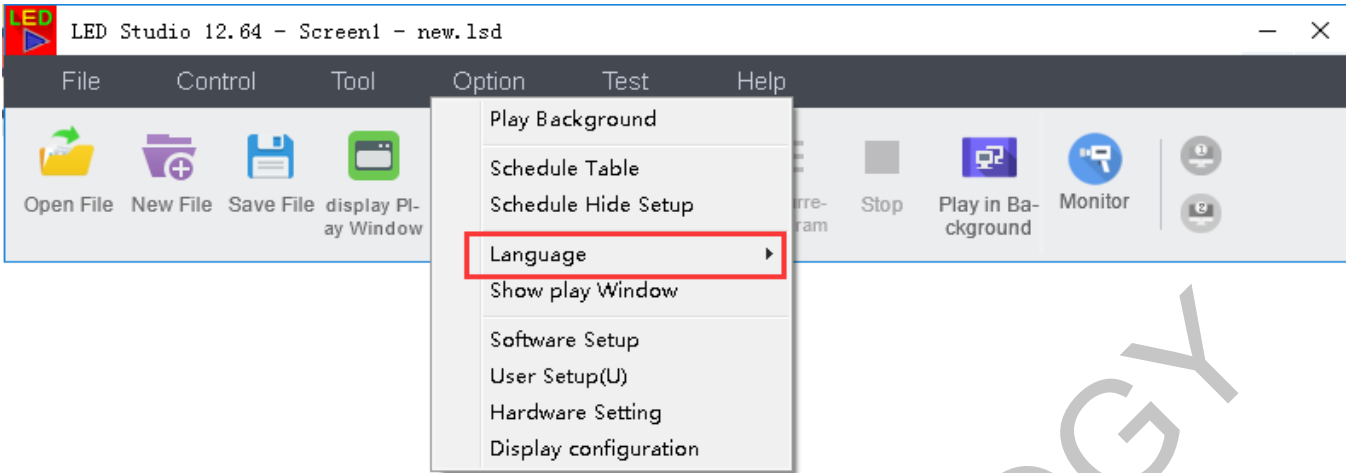
**Play Time:** show-up time duration for **Play Window**

**Hide Time:** hidden time duration for **Play Window**

**Align by:** time moment to trigger Hide Time. For example, Align by 11 Minutes means 0, 11, 22, 33, 44, 55minute within an hour will activate the Hide Time. After Hide Time, it is Play Time.

#### 3.2.4.4. Language

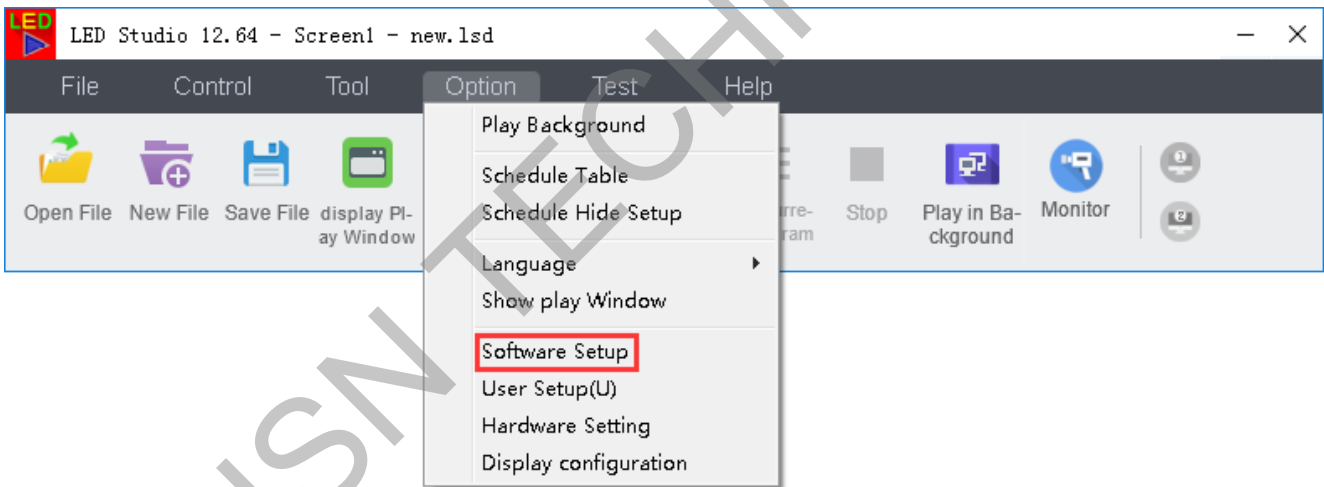
Change the LEDStudio interface language. LEDStudio supports the following languages: Simplified Chinese, Traditional Chinese, English, and Japanese.

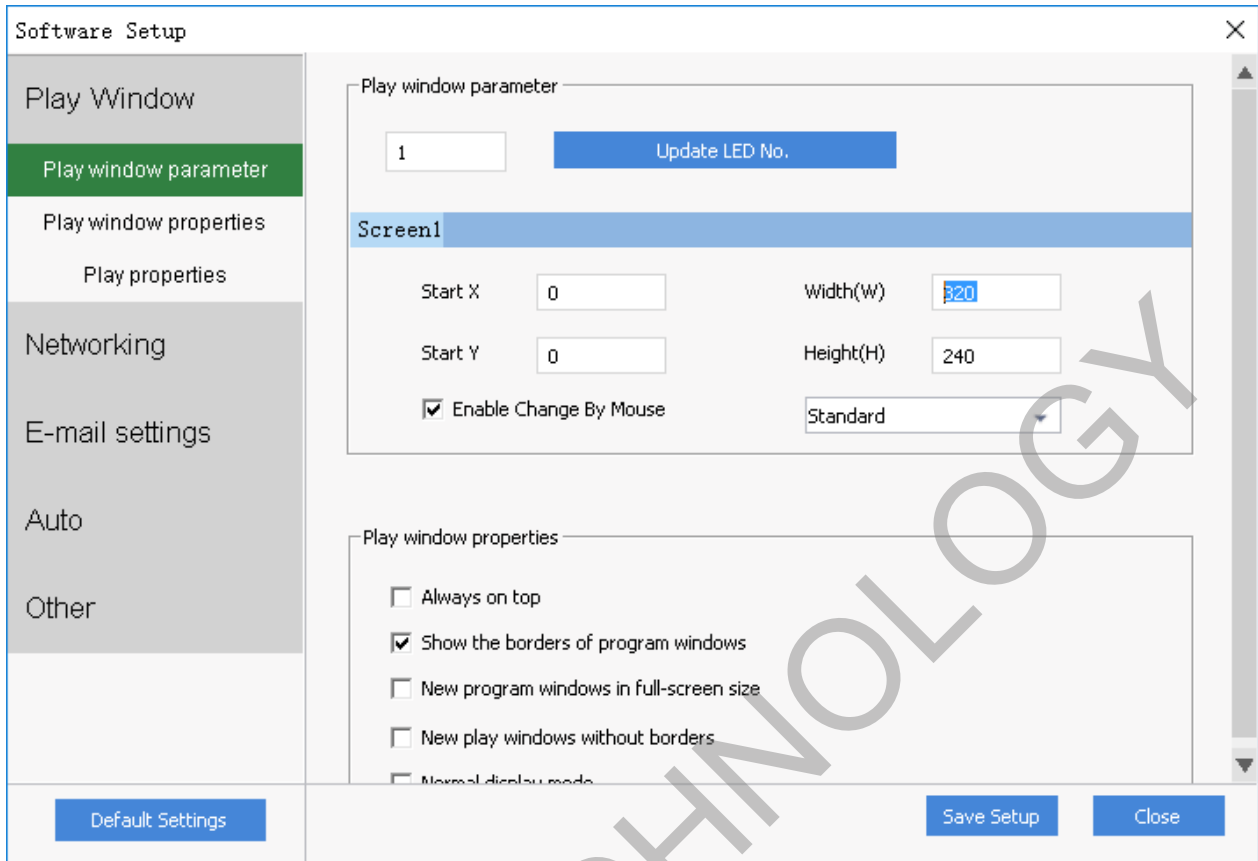


### 3.2.4.5. Show play window/Hide play window

**Show play window/Hide play window:** Hide the **Play Window** , LED display will show the part of computer desktop (desktop within the Screen Area)

### 3.2.4.6. Software Setup





### Tips:

If the software malfunctions, you can try clicking **Default Settings** on the above interface. After clicking it, all the parameters set in the software will be back to default values.

### 3.2.4.6.1. Play Window

#### Part1. Play window parameter:

Play window parameter

1 Update LED No.

---

Screen1

Start X	1189	Width(W)	320
Start Y	152	Height(H)	240

Enable Change By Mouse

Standard  
Standard  
 Inverted(180)  
 Right(90cw)  
 Left(90ccw)

**Update LED No:** add more play window if needed

**Start X/ Start Y:** the position of play window

**Width (W)/ Height (H):** the size of play window

**Enable Change By Mouse:** the Size, Position of each **Play Window** can be adjusted by mouse

**Standard/Inverted (180)/Right/Left:** direction of display contents



Standard



Inverted (180)

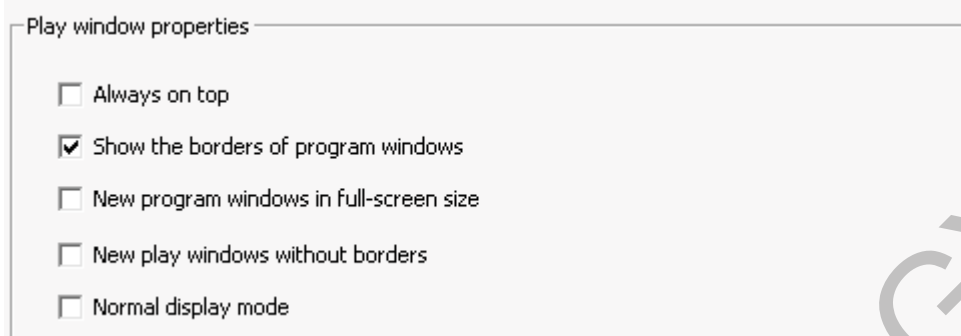


Right (90cw)



Left (90ccw)

### Part2. Play window properties

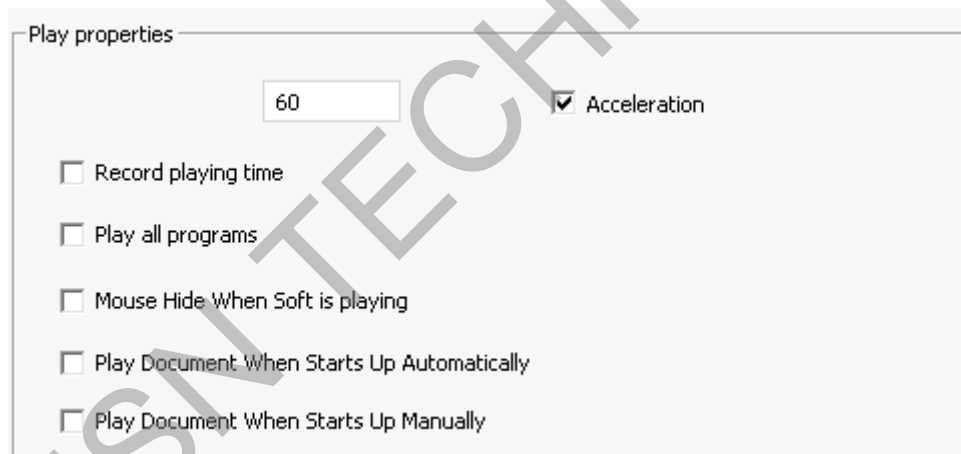


The screenshot shows a dialog box titled "Play window properties" with the following options:

- Always on top
- Show the borders of program windows
- New program windows in full-screen size
- New play windows without borders
- Normal display mode

- Always on top: the play window won't be blocked when selected
- Show the borders of program windows: the borders of the program windows will be shown when selected
- New program windows in full-screen size: program window display in full screen by default when selected
- New play windows without borders: the borders of the program windows are invisible by default when selected
- Normal display mode: graphics card mode

### Part3. Play properties



The screenshot shows a dialog box titled "Play properties" with the following options:

- 60
- Acceleration
- Record playing time
- Play all programs
- Mouse Hide When Soft is playing
- Play Document When Starts Up Automatically
- Play Document When Starts Up Manually

- Record playing time
- Play all programs
- Mouse Hide When Soft is playing
- Play Document When Starts Up Automatically
- Play Document When Starts Up Manually

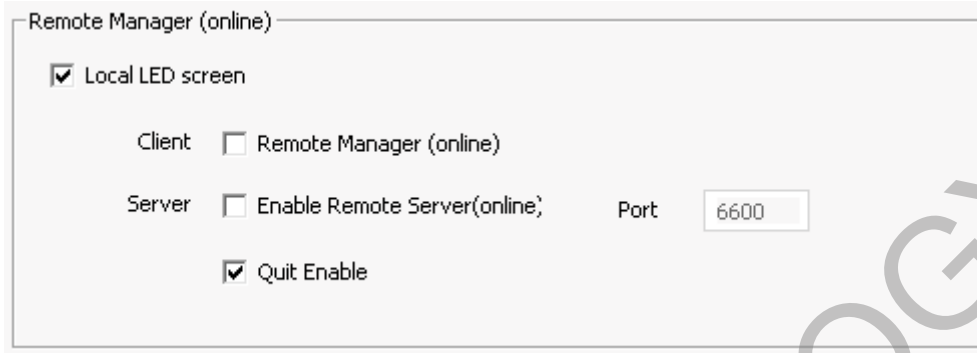
**3.2.4.6.2. Networking: Networking setting is used for the remote control of led display (computer).**



### 3.2.4.6.2.1. Remote Manager (online)/real time remote control

This function allows LEDStudio on client computer to fully control LED screen (LEDStudio on Server Computer).

**Note:** Client computer is the one used to remote control the server computer; server computer is the one that connects to the LED screen directly.



**Client**  **Enable Remote Server (online):** tick it to enable the function on the client computer.

**Server**  **Remote Manager (online):** tick to enable the function on the server computer, and the two entrances/button for the manager will be enable (see the bellowing picture)

**Port:** same port as **Server Computer** preset port

**Quit Enable:** If unable it, LEDStudio on server computer can't be closed.

#### Setup

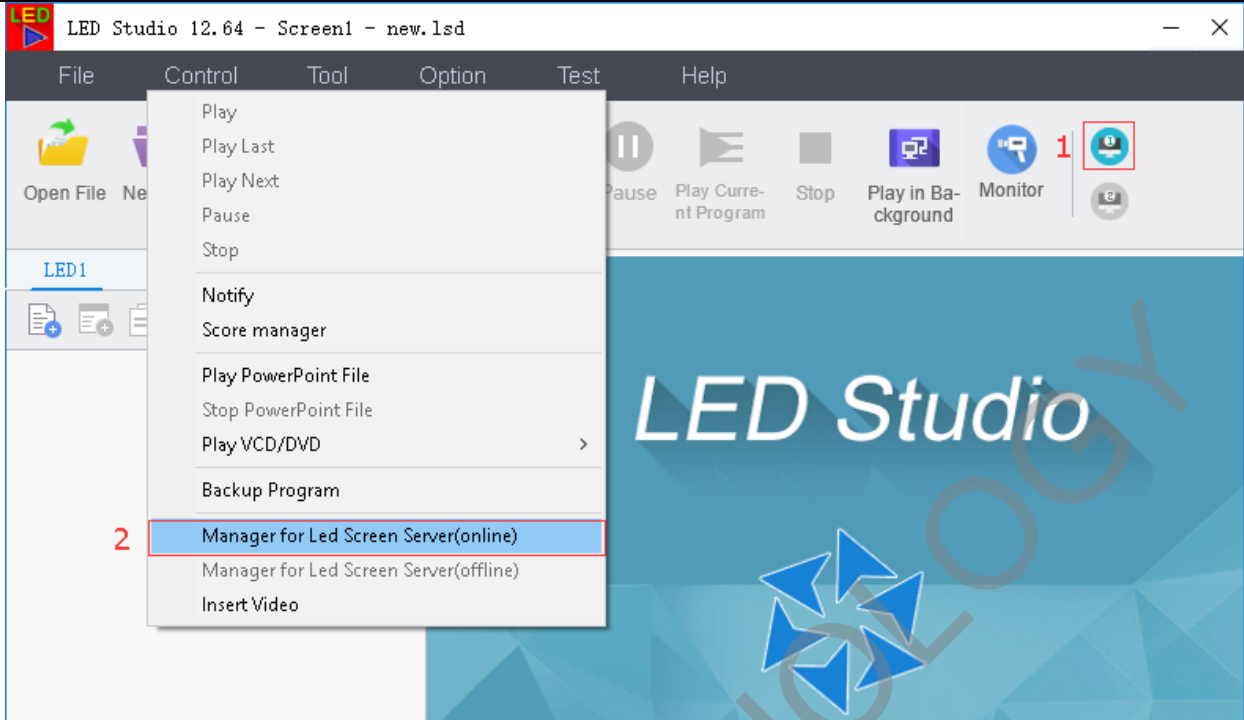
On sever computer (connects with LED screen):

1. Go to **Option->Software Setup->Networking->check Server Enable Remote Server (online)** option

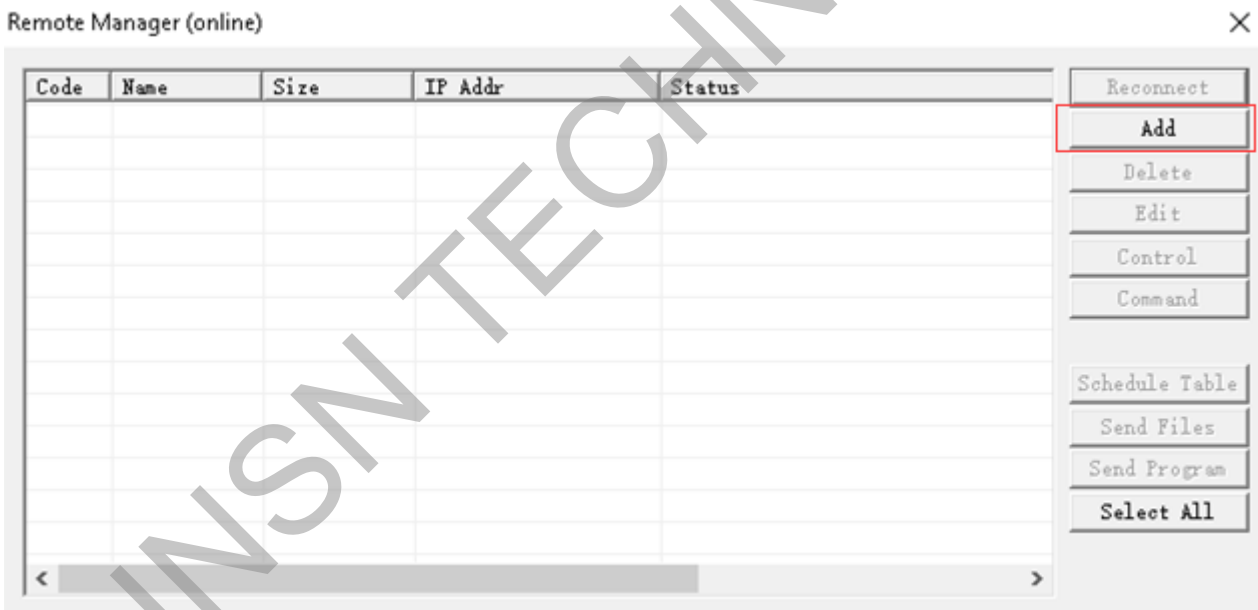
On client computer:

1. Go to **Option->Software Setup->Networking->check Client Remote Manager (online)** option

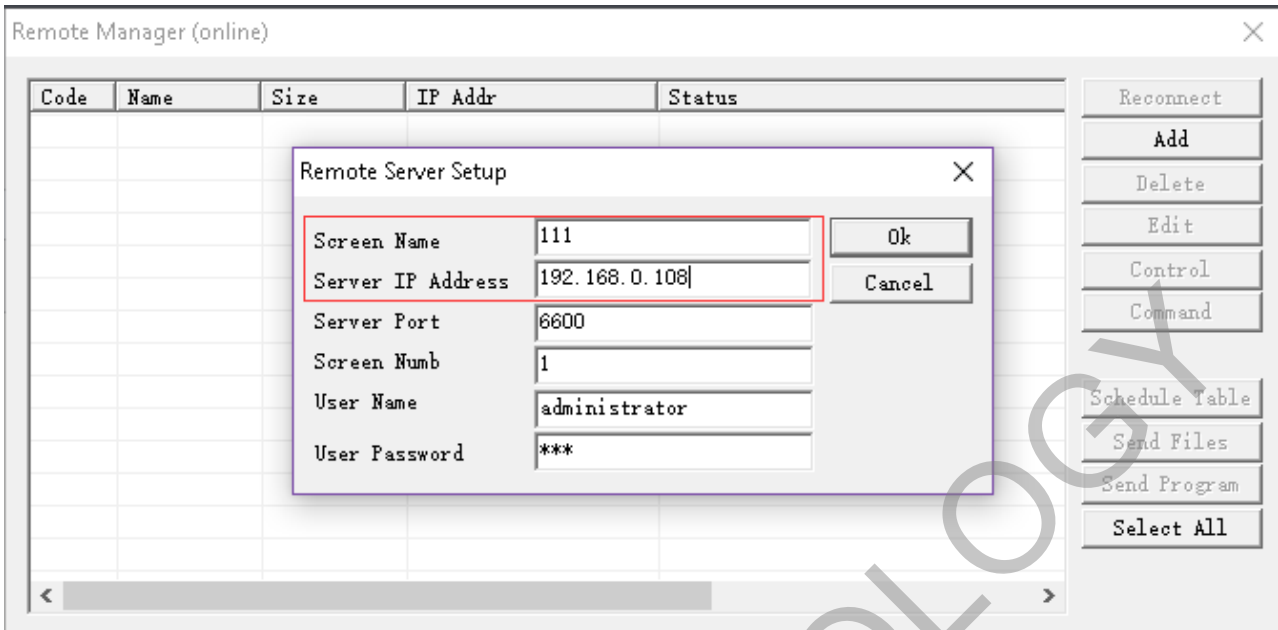
2. Click Remote LED Screen Manager (online)  button **OR** Go to **Control->Manager for Led Screen server**  
(As the following picture)



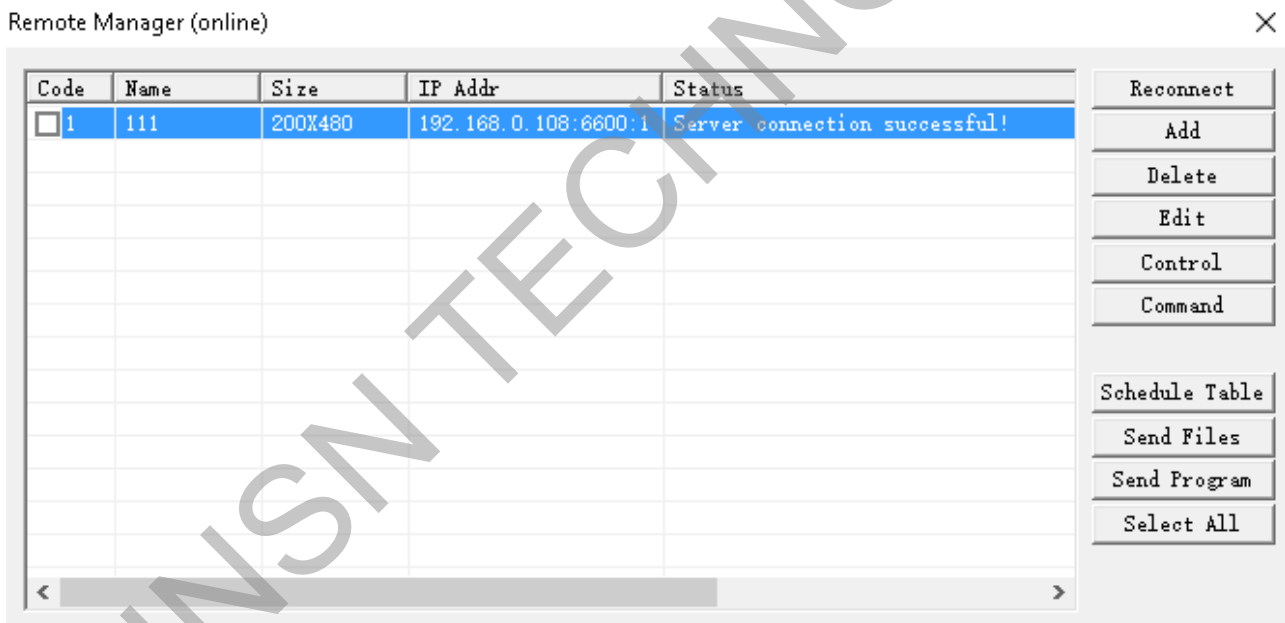
3. After the following manager interface pops up, click **Add** to set up the connection.



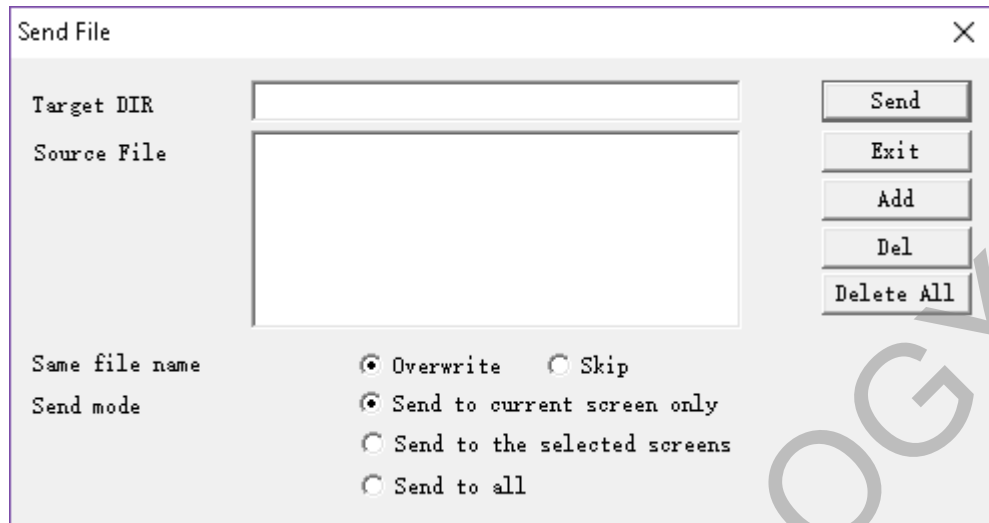
4. Input a name for your LED screen and the IP address of sever computer. Then click ok.



5. After selecting the desired sever computer, the rest of the options will be enabled.



- **Reconnect:** reconnect to the added sever computer.
- **Add:** add a new sever computer.
- **Delete:** delete a selected sever computer.
- **Edit:** edit the information of the sever computer.
- **Control:** access to the sever computer's desktop to realize remote desktop control.
- **Schedule Table:** set the schedule command table (refer to [page15](#)) for the server computer and send it to that computer
- **Send Files:** send the files from client computer to server computer.



**Target DIR:** Server Computer path to store incoming files from Client Computer

**Source File:** the outgoing files list

**Send:** send listed **Source File** to **Target DIR**

**Exit:** quite **Send File** window

**Add:** add a file to Source File

**Del:** delete a selected Source File

**Delete All:** delete all Source File

**Same file name**

**Overwrite:** if **Target DIR** has a file with the same name of **Source File**, **Source File** replaces the **Target DIR** file

**Skip:** if **Target DIR** has a file with the same name of **Source File**, **Source File** skips transmitting to **Target DIR**.

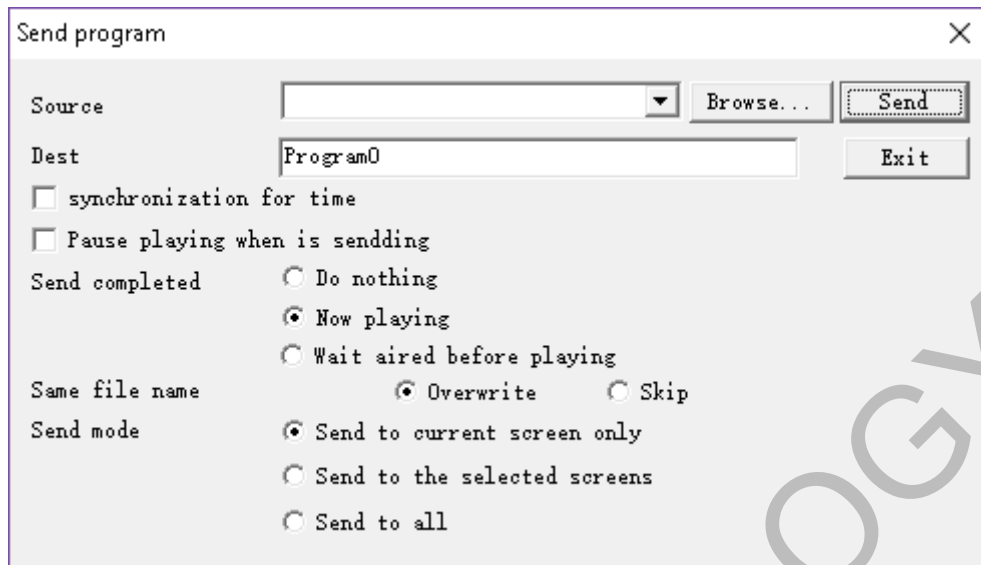
**Send mode**

**Send current only:** send the **Source File** to the current selected Server Computer

**Send by select:** select the Server Computer(s) to send the **Source File** to

**Send to all:** send **Source File** to all Server Computers listed in Remote LED Screen Manager Online

- **Send Program:** send .lsd file from Client Computer to Server Computer



**Source:** the outgoing .lsd file

**Dest:** Destination. **Server Computer** path to store incoming .lsd file from **Client Computer**

**Browse...:** browse the Client Computer to select the .lsd file

**Send:** send Source to Dest

**Exit:** quite **Send Program** window

**Synchronization for time:** set **Server Computer** time synchronous with **Client Computer**

**Pause playing when is sending:** Pause **Server Computer LedStudio** playing when **Server Computer** is receiving .lsd file from **Client Computer**

**Send completed**

**Do nothing**

**Now playing**

**Wait aired before playing**

**Same file name**

**Overwrite:** if **Dest** has an .lsd file with the same name of **Source**, **Source** .lsd File replaces the **Dest** .lsd file

**Skip:** if **Dest** has an .lsd file with the same name of **Source**, **Source** .lsd File skips transmitting the .lsd file

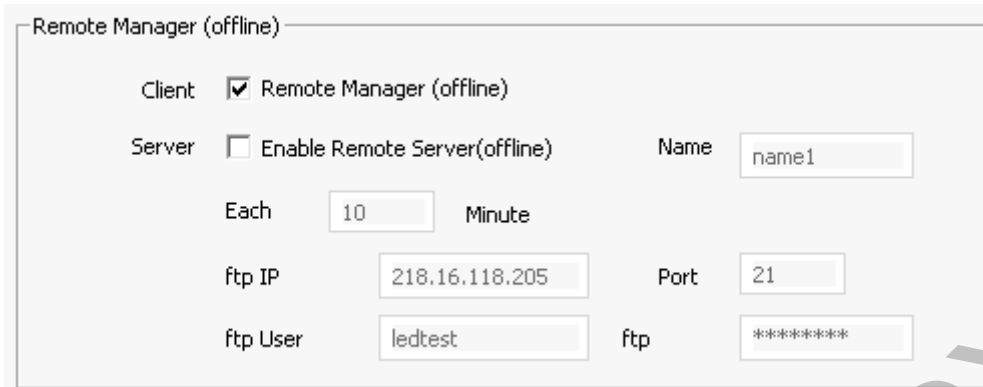
**Send mode**

**Send current only:** send the **Source** .lsd file to the current selected Server Computer

**Send by select:** select the Server Computer(s) to send the **Source** .lsd file to

**Send to all:** send **Source** .lsd file to all Server Computers listed in Remote LED Screen Manager Online

### 3.2.4.6.2.2. Remote Manager (offline)/FTP Server



**Setup:**


On the Server computer:

1. Go to **Option->Software Setup->Networking->** Check the **Server**  **Remote Manager (offline)** option
2. Input the FTP information: FTP IP, Port, FTP User (name), and FTP password

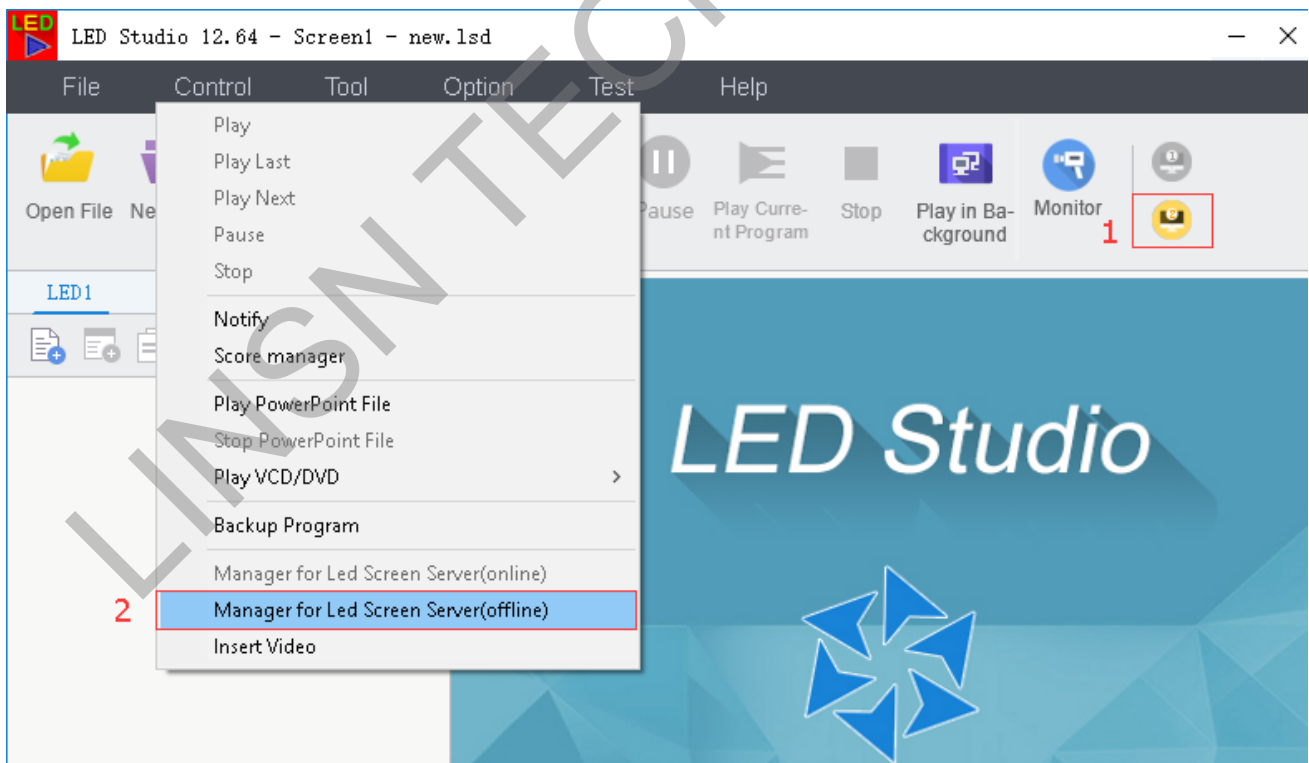
Each 10 Minutes means the LEDStudio on Client computer will fetch updates from FTP server every 10 minutes.

On the Client computer:

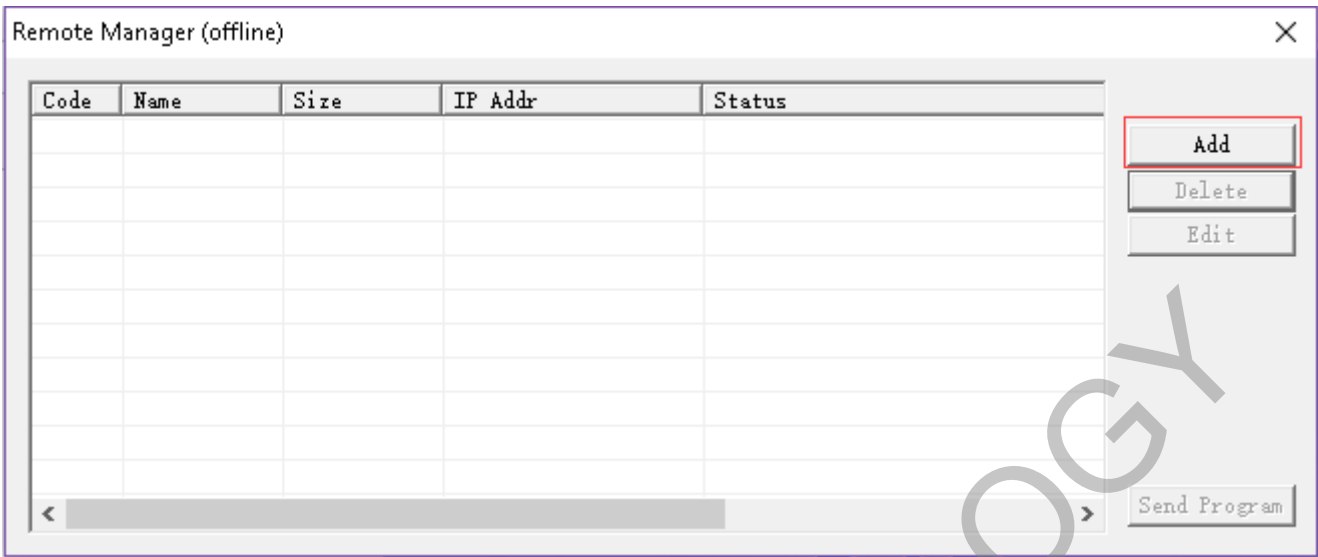
1. Go to **Option->Software Setup->Networking->** Check the **Client**  **Remote Manager (offline)** option

2. Click Remote LED Screen Manager (offline)  button **OR** Go to **Control->Manager for Led Screen**

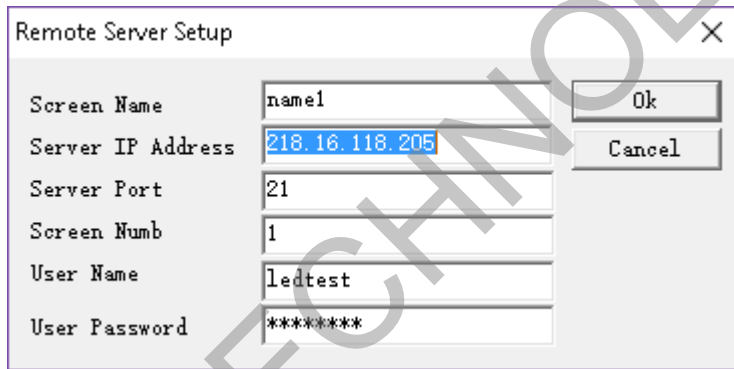
**server (offline)** (As the following picture)



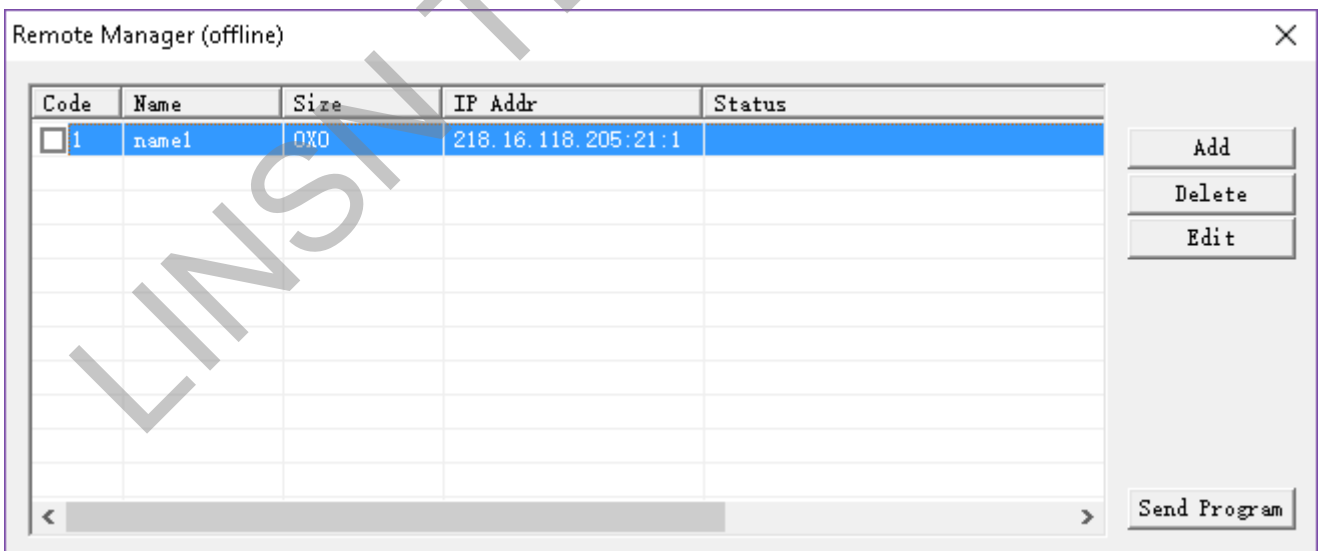
3. Click **Add** to add sever computer's address in the pop-up interface below.



4. Make sure the information is correct and click ok to connect with the server computer.



5. Select the desired server computer, and the rest button will be enabled.



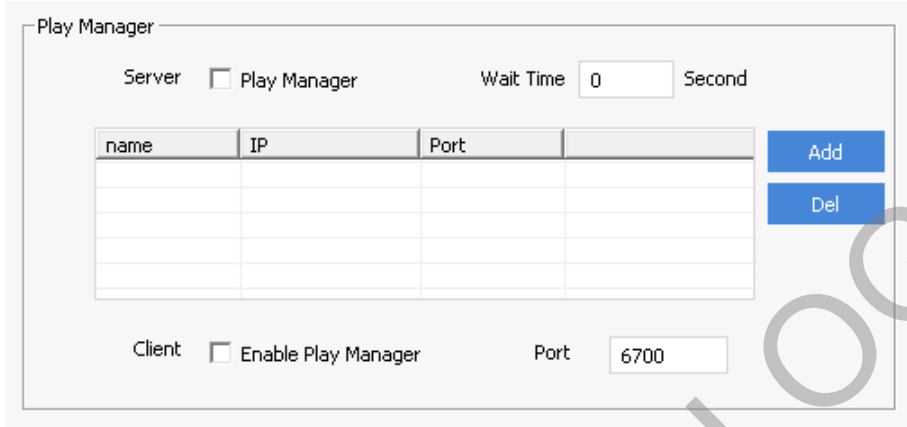
**Add:**add another FTP server

**Delete:**delete the selected FTP server

**Edit:**edit the selected FTP server

Send Program: refer to [page28](#)

### 3.2.4.6.2.3. Play Manager



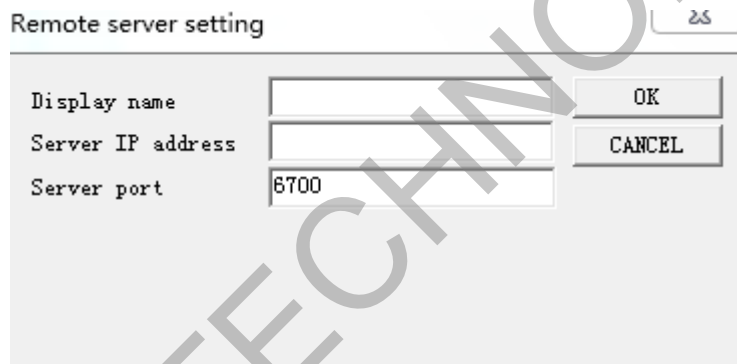
Play Manager

Server  Play Manager Wait Time  Second

name	IP	Port

Client  Enable Play Manager Port

**Play Manager:** works with **Online/real time remote control**



Remote server setting

Display name

Server IP address

Server port

OK CANCEL

### 3.2.4.6.2.4. TCP/IP Protocol

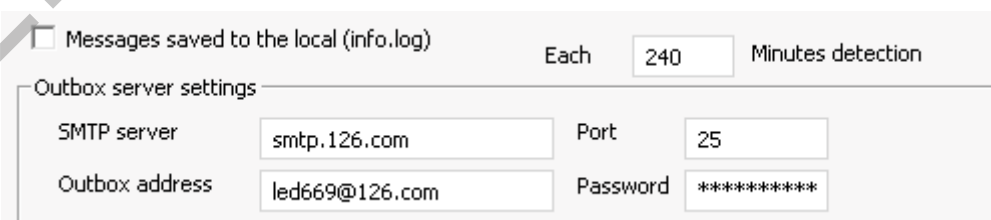


TCP/IP Protocol

Allows receive Port

**Allow receive:** For sending command to control the software

### 3.2.4.6.3. E-mail settings



Messages saved to the local (info.log) Each  Minutes detection

Outbox server settings

SMTP server  Port

Outbox address  Password

Messages saved to the local (info.log):



Each  Minutes detection :

**SMTP server:** the SMTP server address of outbox

**Port:** the SMTP server port of outbox

**Outer address:** the any valid email address for outbox

**Password:** the password of outbox email

**Note:** Because of server problem, this function can be used only in China

Inbox setting

Send e-mail every day

Inbox  Each  Minutes to send

**Send e-mail every day:** if ticked, one email one day

**Inbox:** the email address for receiving the mail (please clean up the inbox regularly, in case it is full)

Each  Minutes to send :

Email setting when software failure

pop-up message

Send email

Inbox

Fault display

<input type="checkbox"/> Recv card Volt	Min	<input type="text" value="0.0"/>	Max	<input type="text" value="0.0"/>	<input type="checkbox"/> Temperature	<input type="text" value="0.0"/>
<input type="checkbox"/> Voltage 1	Min	<input type="text" value="0.0"/>	Max	<input type="text" value="0.0"/>	<input type="checkbox"/> Humidity	<input type="text" value="0.0"/>
<input type="checkbox"/> Voltage 2	Min	<input type="text" value="0.0"/>	Max	<input type="text" value="0.0"/>	<input type="checkbox"/> Fan	<input type="text" value="0"/>
<input type="checkbox"/> Smoke	<input type="checkbox"/> Cable	<input type="checkbox"/> Door	<input type="checkbox"/> Card no answer			

**Pop-up message:** choose pop-up message to report fault alert

**Send email:** choose sending email to report fault alert

**Inbox:** enter an email address for receiving fault alert

**Recv card Volt (Min/Max):** choose to report voltage related fault alert

**Min/Max:** the software will send you a fault alert when the actual voltage exceeds the range you set

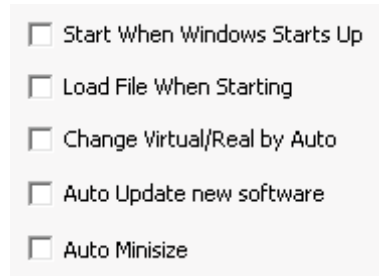
**Voltage 1 (Min/Max):** the software will send you a fault alert when the actual voltage exceeds the range you set

**Voltage 2 (Min/Max):** the software will send you a fault alert when the actual voltage exceeds the range you set

**Temperature:** the software will send you a fault alert if the actual temperature value is greater than the one you set

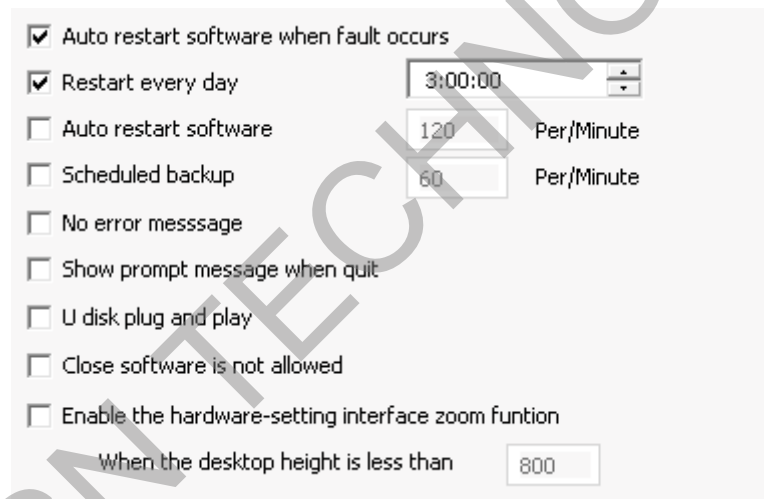
**Humidity:** the software will send you a fault alert when if the actual humidity value is larger than the one you set

### 3.2.4.6.4. Auto



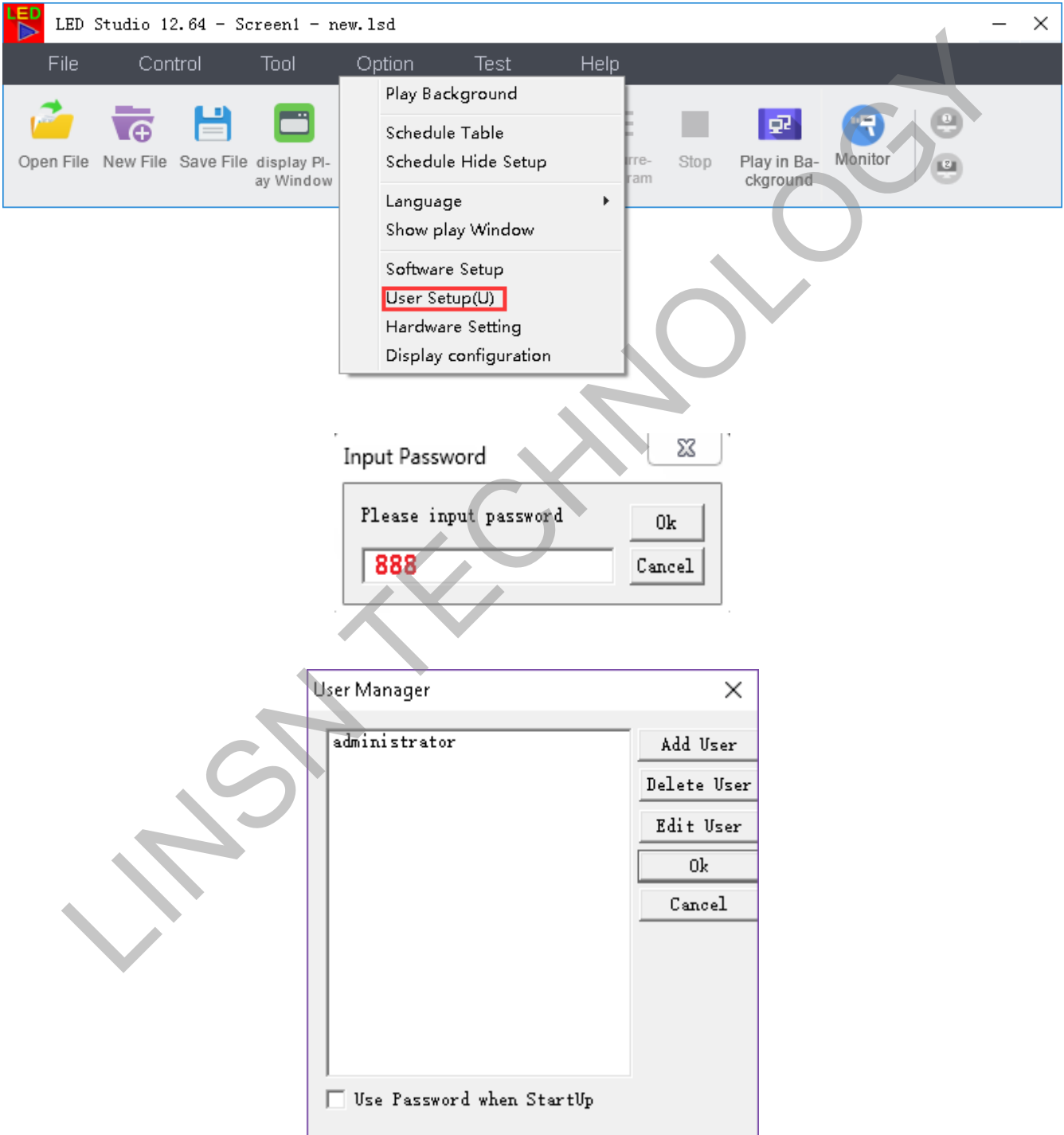
- Start When Windows Starts Up: open **LEDStudio** when Windows starts up
- Load File When Starting: Load .lsd file automatically when open LEDStudio
- Change Virtual/Real by Auto: for virtual **LED display**, playing letters in real-pixel mode for better visual effect, and playing image/video in virtual pixel mode; automatically switch.
- Auto Update new software: automatically update LEDStudio software
- Auto Minimize: Minimize LEDStudio automatically

### 3.2.4.6.5. Other



- Auto restart software when fault occurs: automatically restart LEDStudio when encounter errors
- Restart every day: scheduled restarting LEDStudio everyday
- Auto restart software: restart LEDStudio every preset minute(s)
- Schedule backup: automatically back up files of .lsd file every preset time
- No error messages: when fault occurs, no prompt allowed
- Show prompt message when quit: When quit the LEDStudio, a message will be popped out
- U disk plug and play: enable u disk plug and play function. LEDStudio load and play .lsd program from USB disk as priority
- Close software is not allowed: If enabled, the software can't be closed
- Enable the hardware-setting interface zoom function; When the desktop height is less than: Enable zooming the hardware-setting interface when the height of desktop is less than the certain value you set.

### 3.2.4.7. User Setup



**Add User:** to add a new user ID and password

**Delete User:** to delete user information

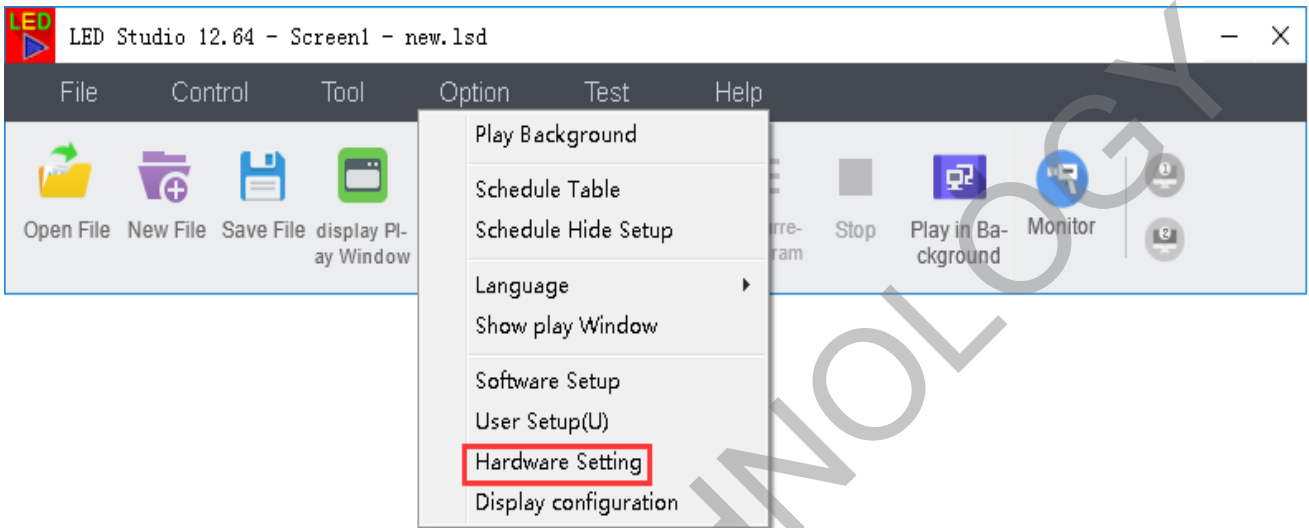
**Edit User:** to change password

**OK:** to confirm information

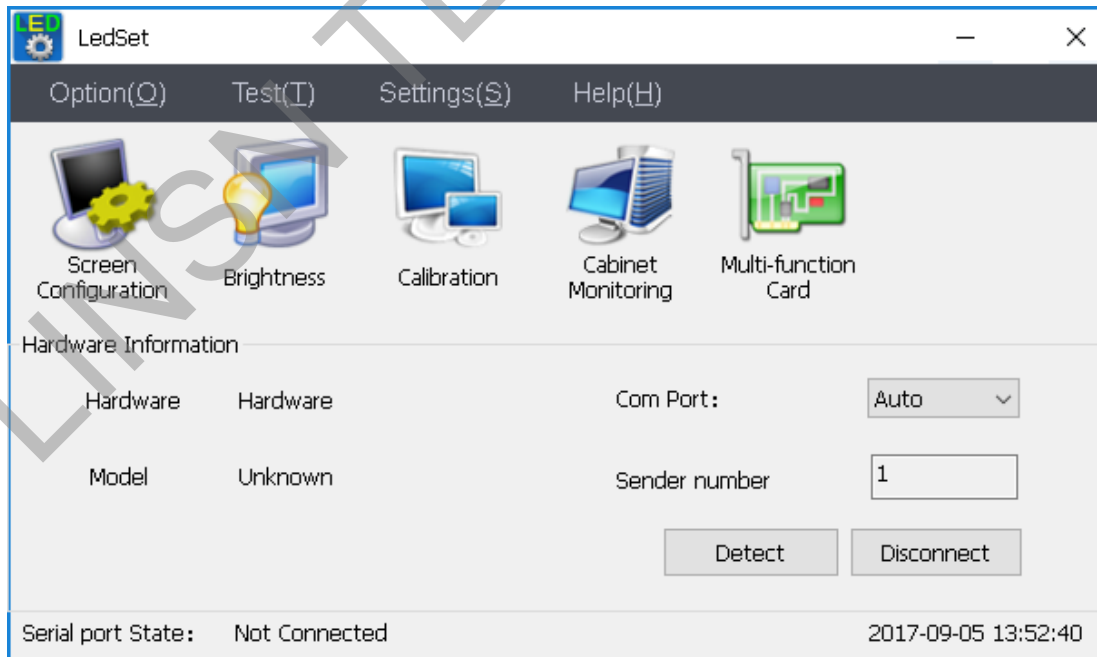
**Cancel:** to cancel operation

**Use Password when Start Up:** to require entering password when open LEDStudio

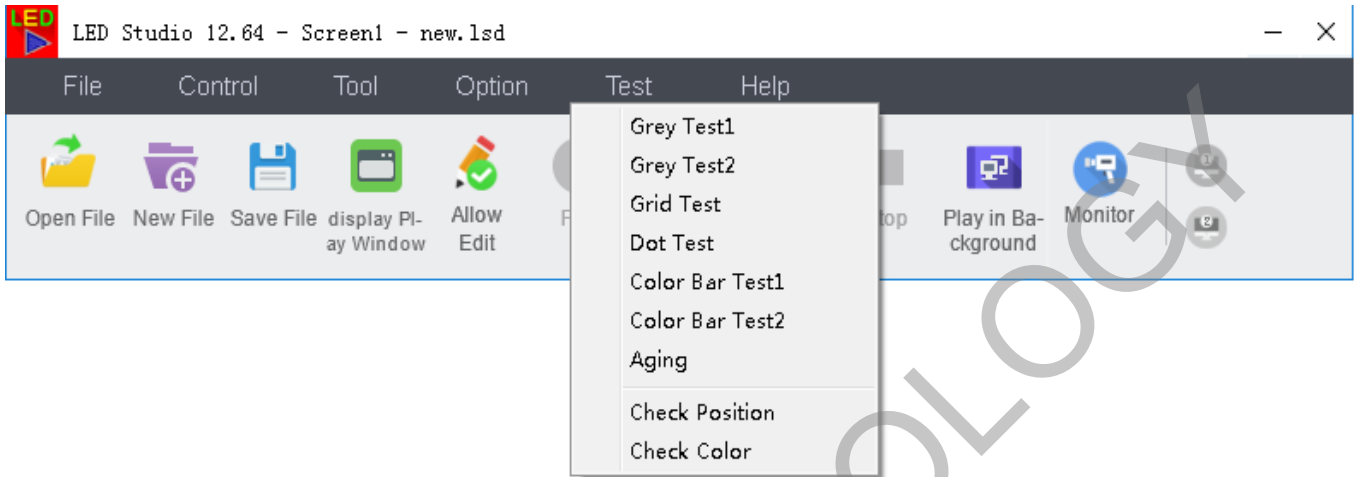
### 3.2.4.8. Hardware Setting



**Hardware Setting:** to send **.CON** file (Display Connection settings file) and **.RCG** file ( display driver for receiving card) to receiving cards



### 3.2.5. Test Menu

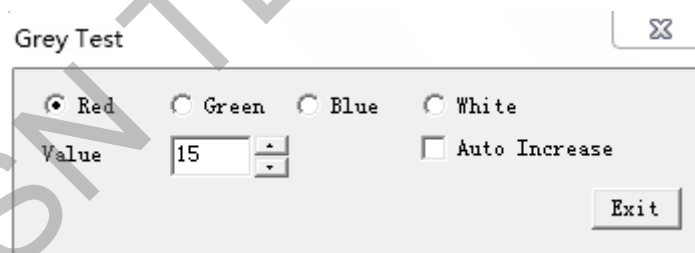


#### 3.2.5.1. Grey Test 1

**Grey Test1:** test Grey level from 0-255 in sequence of Red, Green, Blue, White

#### 3.2.5.2. Grey Test 2

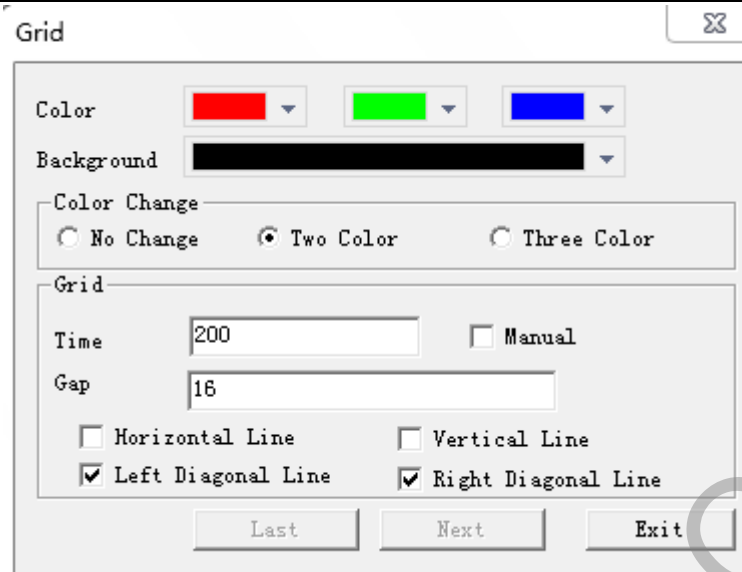
**Grey Test2:** select a color, a value (0-255) for testing



**Auto Increase:** continue testing next grey level up to 255. Then test again from 0 to 255.

#### 3.2.5.3. Grid Test

**Grid Test:** this can test the correctness of the image on screen. (Select three colors for testing and one static color as Background)



### Color Change

**No Change:** only the first color (Red color in the upper picture) runs in testing

**Two Color:** the first two colors run in testing (Red and Green)

**Three Color:** all three colors run in testing

### Grid

**Time:** in millisecond; the running speed of testing grid

**Gap:** the pixel numbers between two testing lines

**Horizontal:** testing line runs horizontally

**Vertical:** testing line runs vertically

**Left Diagonal:** testing line runs in bias way

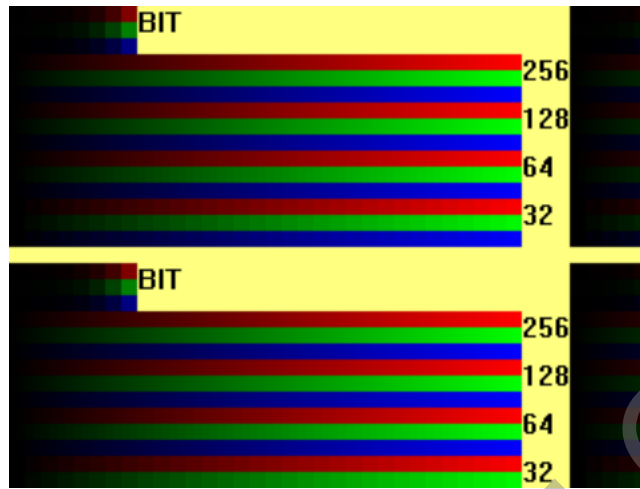
**Right Diagonal:** testing line runs in bias way

### 3.2.5.4. Dot Test

**Dot Test:** check for faulty pixels

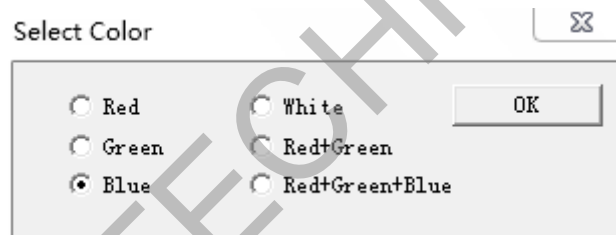


3.2.5.5. Color Bar Test 1



3.2.5.6. Color Bar Test 2

**Color Bar Test2:** Choose color for color bar test



3.2.5.7. Aging

Aging test is used for the aging LED screen and receiving cards

Aging ⌵

**Grid**

Test      Time            S

Spacing       Moving time            MS

Horizontal Line       Vertical Line

Left Diagonal Line       Right Diagonal Line

---

**Color**

<input checked="" type="checkbox"/> Color1	<input type="text" value=""/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color2	<input type="text" value="Red"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color3	<input type="text" value="Green"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color4	<input type="text" value="Blue"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color5	<input type="text" value="Yellow"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color6	<input type="text" value="Cyan"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color7	<input type="text" value="Magenta"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color8	<input type="text" value="Black"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color9	<input type="text" value="Gray"/>	Time	<input type="text" value="5"/>	S
<input checked="" type="checkbox"/> Color10	<input type="text" value="Dark Gray"/>	Time	<input type="text" value="5"/>	S

Aging  
 0: 0: 0  
 Number  
 0

---

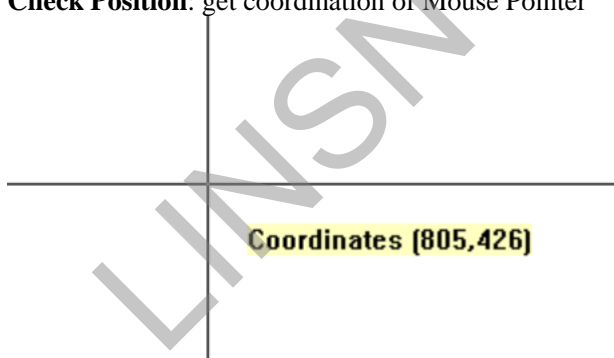
**Gray**

Test

Red     Green     Blue     White

### 3.2.5.8. Check Position

**Check Position:** get coordination of Mouse Pointer



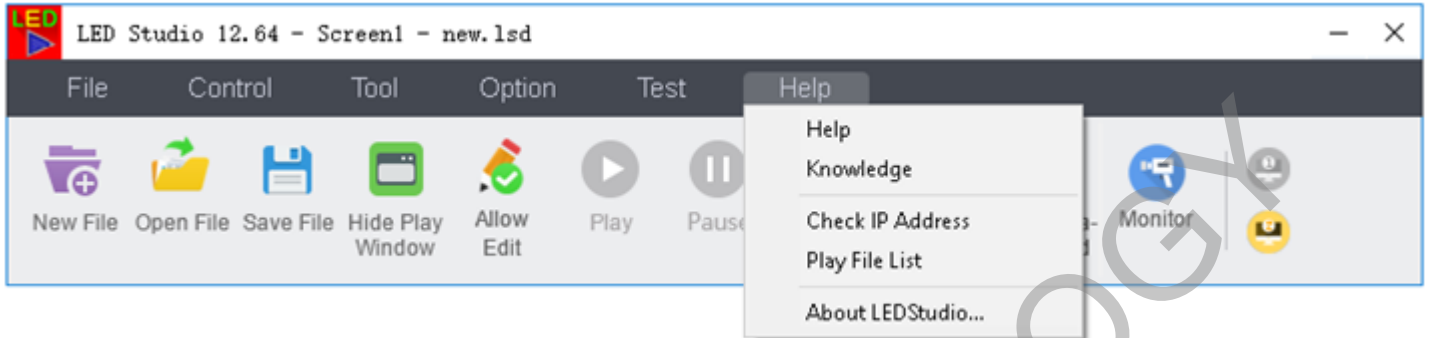
### 3.2.5.9. Check Color

**Check Color:** get RGB value



RGB[255,255,255]

### 3.2.6. Help Menu



#### 3.2.6.1. Help

**Help:** activate the LEDStudio manual

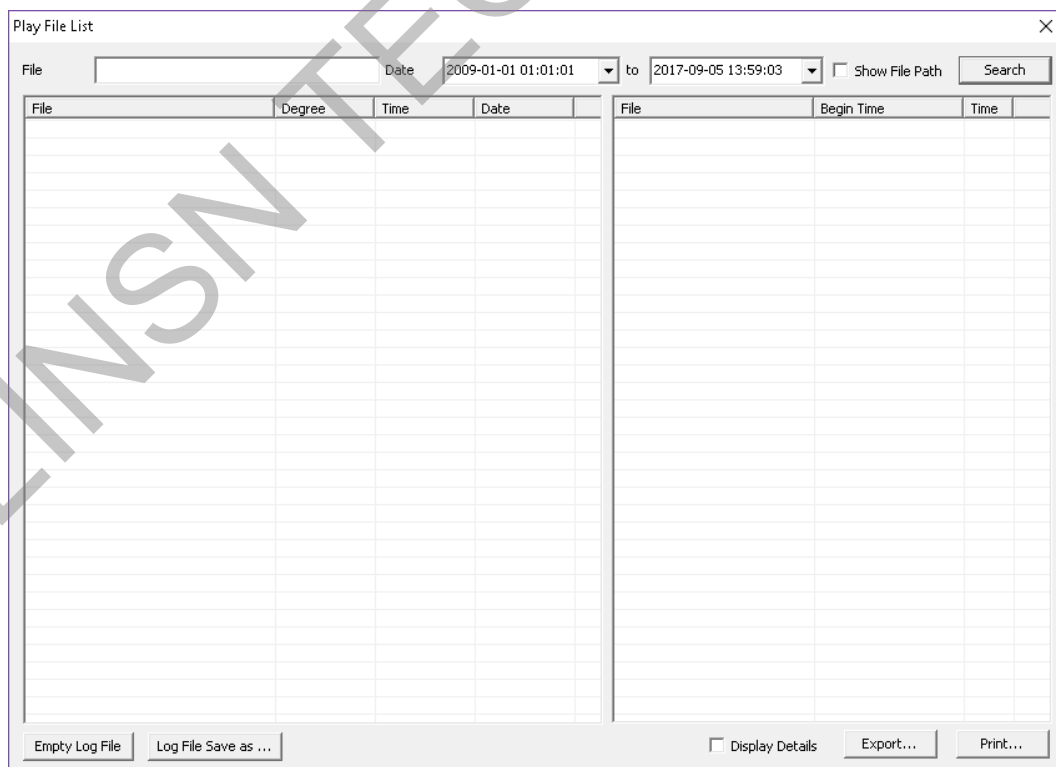
#### 3.2.6.2. Knowledge

**Knowledge:** some tips for LEDStudio

#### 3.2.6.3. Check IP Address

#### 3.2.6.4. Play File List

**Play file list:** check records that the file has played via LEDStudio



**File:** type in the File Name for search

**Date from..to:** select a period of time for search

**Show file path:** show the path of the file saved in the computer

**Search:** start searching and get record list

**File:** file name

**Degree:** how many times the file has been played

**Time:** total time the file played

**Begin time:** the starting playing time

**Time:** time duration the file has been played for

**Export:** export the search result in Microsoft Excel file format

**Print:** print the search result

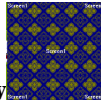
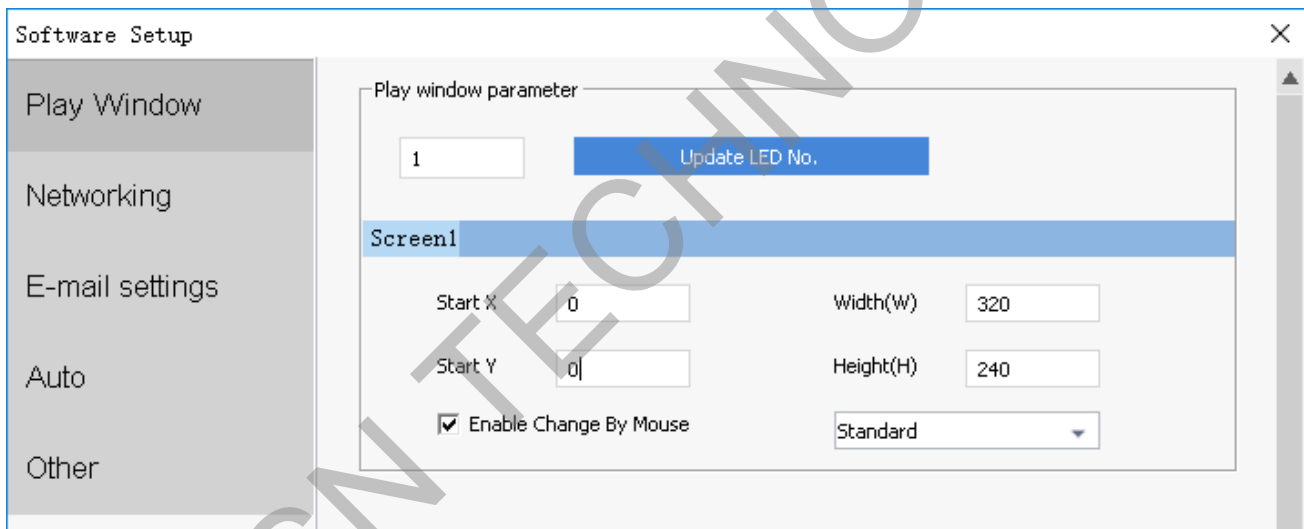
**Display detail:** when export or print the search result, including the info of **Begin time** and **Time** (12.43 version, it always shows details when **Print** or **Export**)

**Empty Log File:** Delete log file.

**Log File save as:** Save log file.

### 3.3. How to make a .lsd file

#### 3.3.1. Play Window Setup

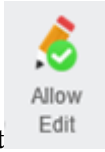


1) Go to **Option->Software setup->Set the Play Window** the same size as that of **LED Screen**.

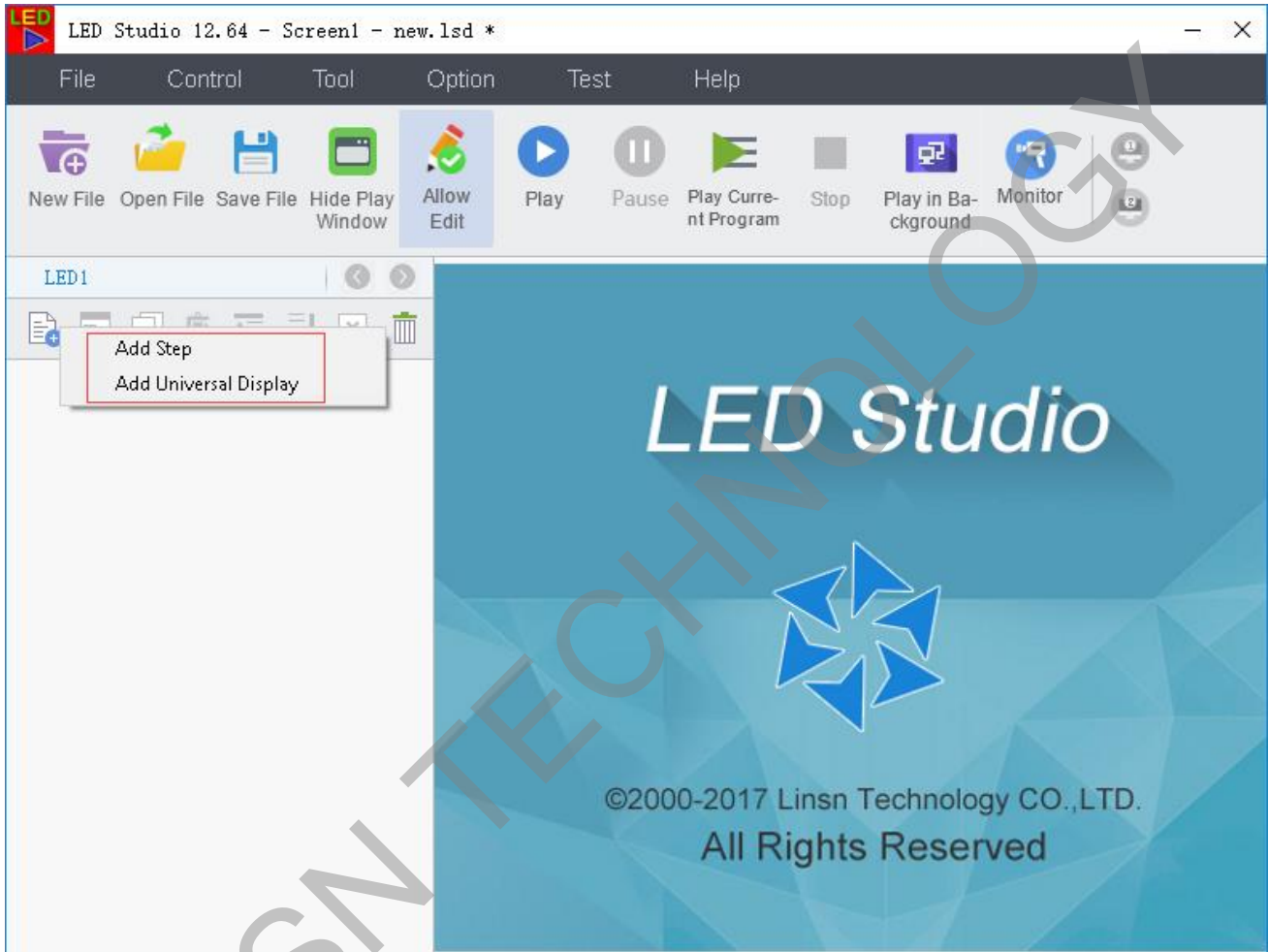
**Start X** and **Start Y** is (0, 0); **Width & Height**

### 3.3.2. Open a New Page of Program

#### 3.3.2.1. Add Step, Add Universal Display



Click **Allow Edit** icon, then **New Page of Program** icon



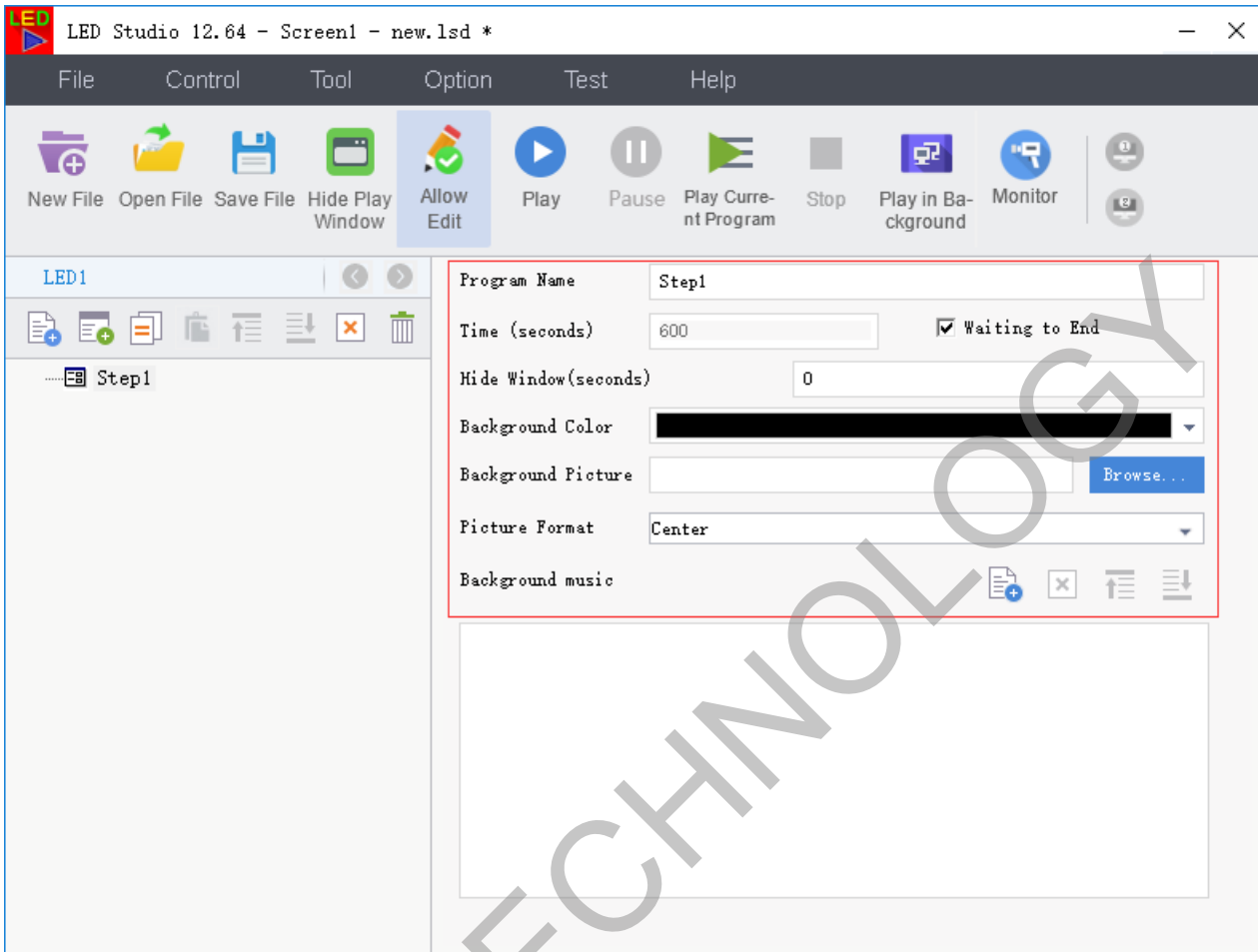
**Add Step:** Loop all the videos and pictures in the program

**Add Universal Display:** this kind of Step have loop play independently. **Universal Display** is always at an upper layer of **Add Step**. Usually for Company Logo, etc.

**Note:** each .lsd file can only have one Universal Display

**Time Window** usually put in **Universal Display** page, if Time Window put under **Step2** for example, then **Step 3** and following Steps will not be played, because Time will never stop. Then Step2 will always be played.

### 3.3.2.2. Step Settings



**Program Name:** Change the Step name (Default from Step 1, Step 2, and Step 3...)

**Time (second):** deselect **Waiting to End**, set time durations for the Step. For example, 60, means the **Step1** will be played in 60 seconds, then play **Step2**.

**Hide Window (Second):** Hide **Play Window** for preset seconds when **Step1** is finished. In the same time, **Step 2** is playing.

**Background:** Background color of **Play Window**

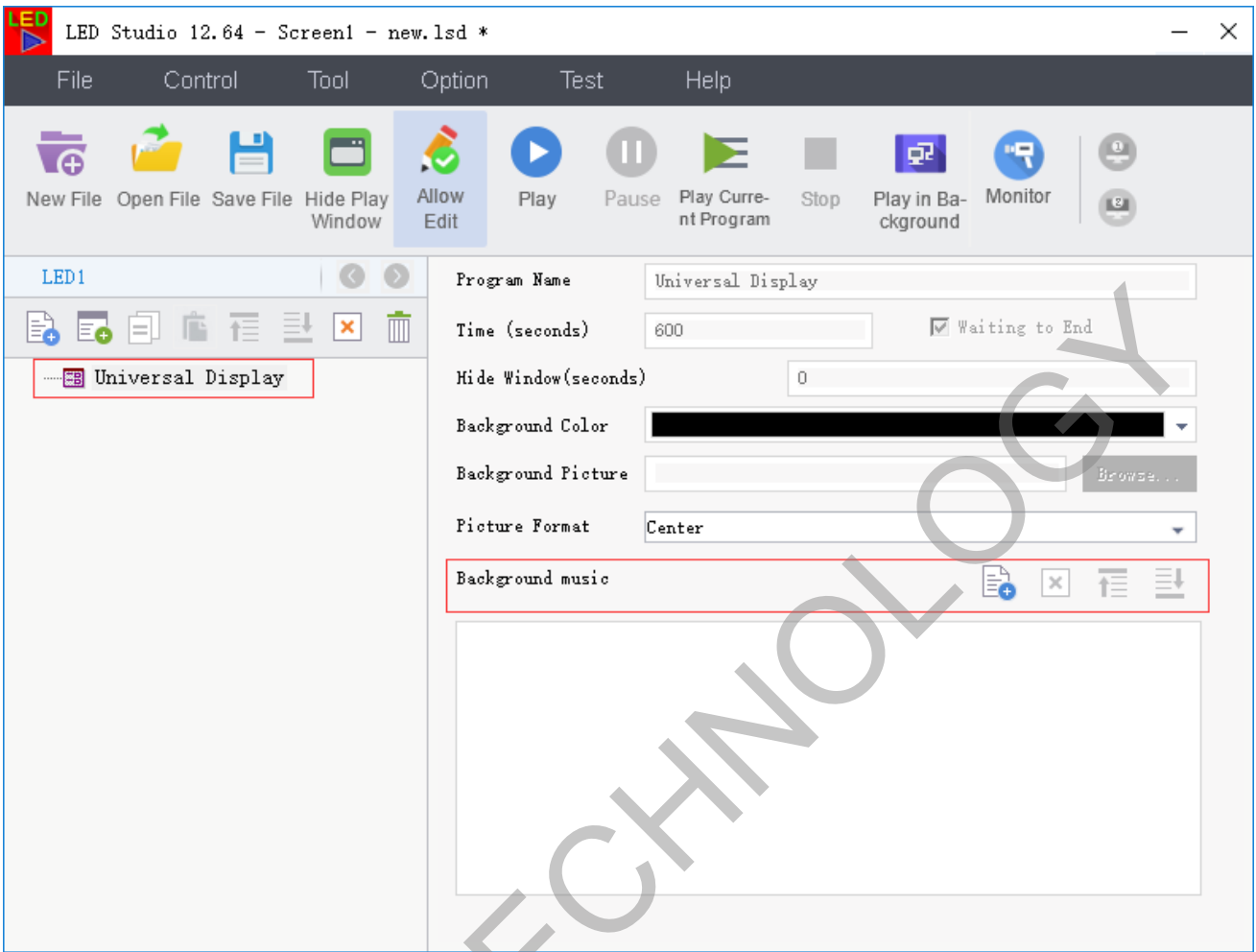
**Background:** Background picture of **Play Window**


**Picture:** Center/Zoom/Stretch/Title the background picture


**Background:** background music, loop play.

### 3.3.2.3. Universal Display Settings

**Universal Display Setting:** only adding Background Music is available. Normal program page plays in order, while overall program page plays continuously, without any time limits. (Such as time display)

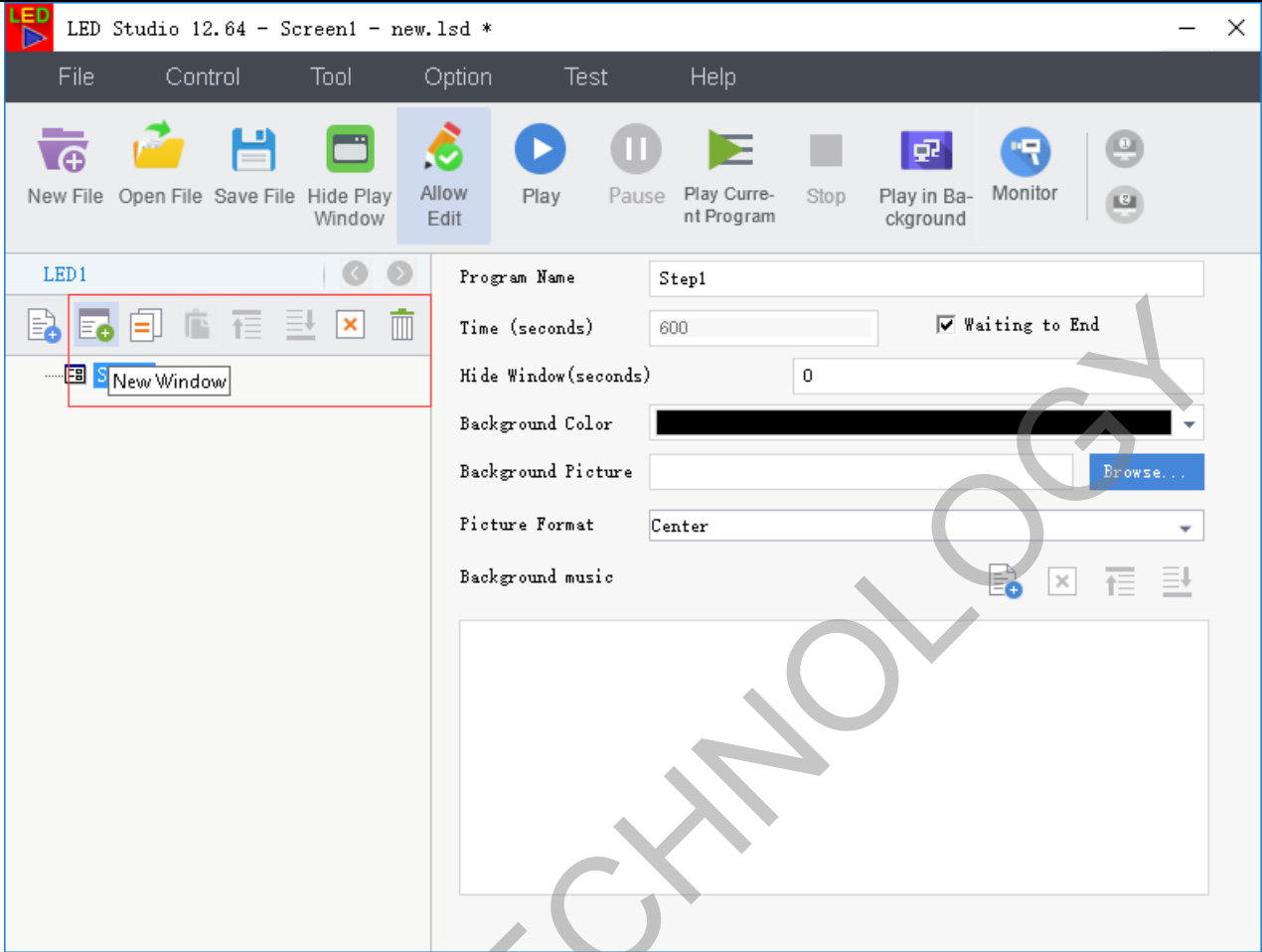


To delete a program page, use the delete button .

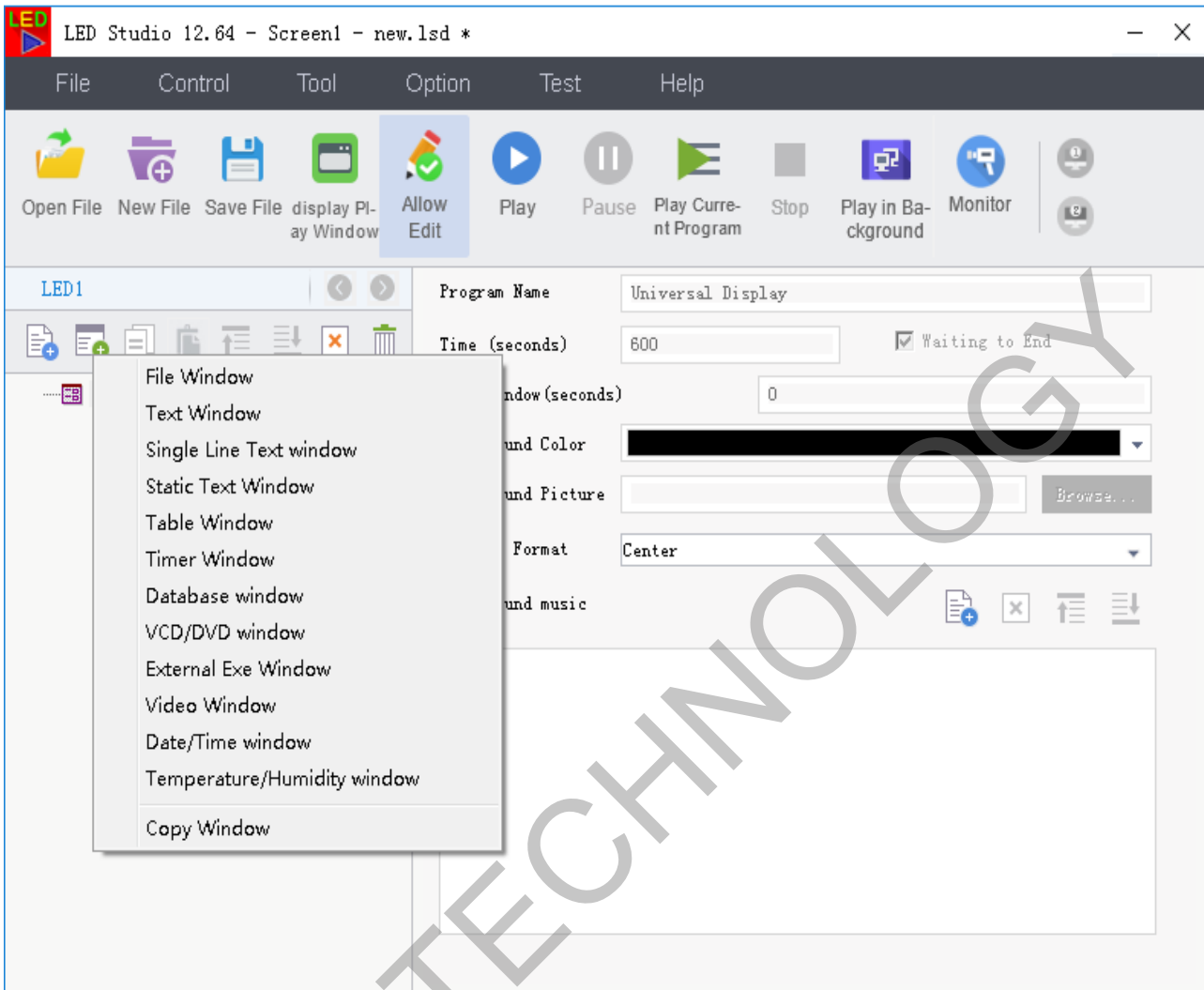
To change the order of page, use the moving button .

### 3.3.3. Add New Window

After a **Step** or **Universal Display** is added, the **New Window icon** , **Copy icon** , **Paste icon** , **Delete icon** , are activated. .



Click: **New Window** icon 

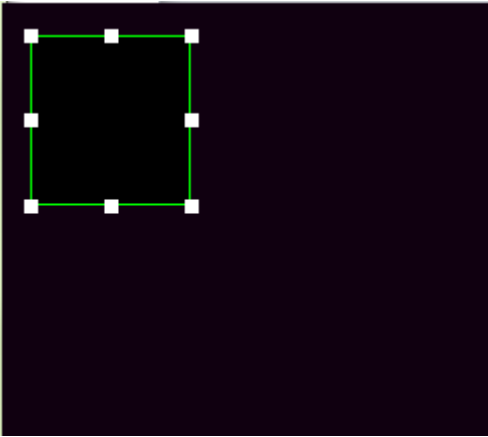


**Important Notes:**

Name	File	Frame	None		Standard
StartX	20	Width	160	<input type="checkbox"/> Lock	
StartY	20	Height	120	<input type="button" value="Timing"/>	

The above window appear in every **New Window**, it is **File Showing Area Setting Window**

**File(s) Showing Area Settings:** the **Showing Area** (the green rectangle) is inside the **Playing Window**. All files of **File Window** will show inside the **Showing Area**.



**Name:** Change the default name File

**Frame:** Frame of Showing Area; **None**, no frame line; **Single line**, one frame line; **Double lines**, two frame lines; **Three lines**, three frame lines

**Color:** Frame line color



**Start X:** set the X position of (X, Y) coordination for **Showing Area** in **Play Window**

**Start Y:** set the Y position of (X, Y) coordination for **Showing Area** in **Play Window**

**Width/Height:** Set the size of Showing Area

**Lock:** when lock, mouse pointer cannot drag to move or drag to resize the **Showing Area** inside the **Play Window**

**Timer:** designed for **Time Window**.

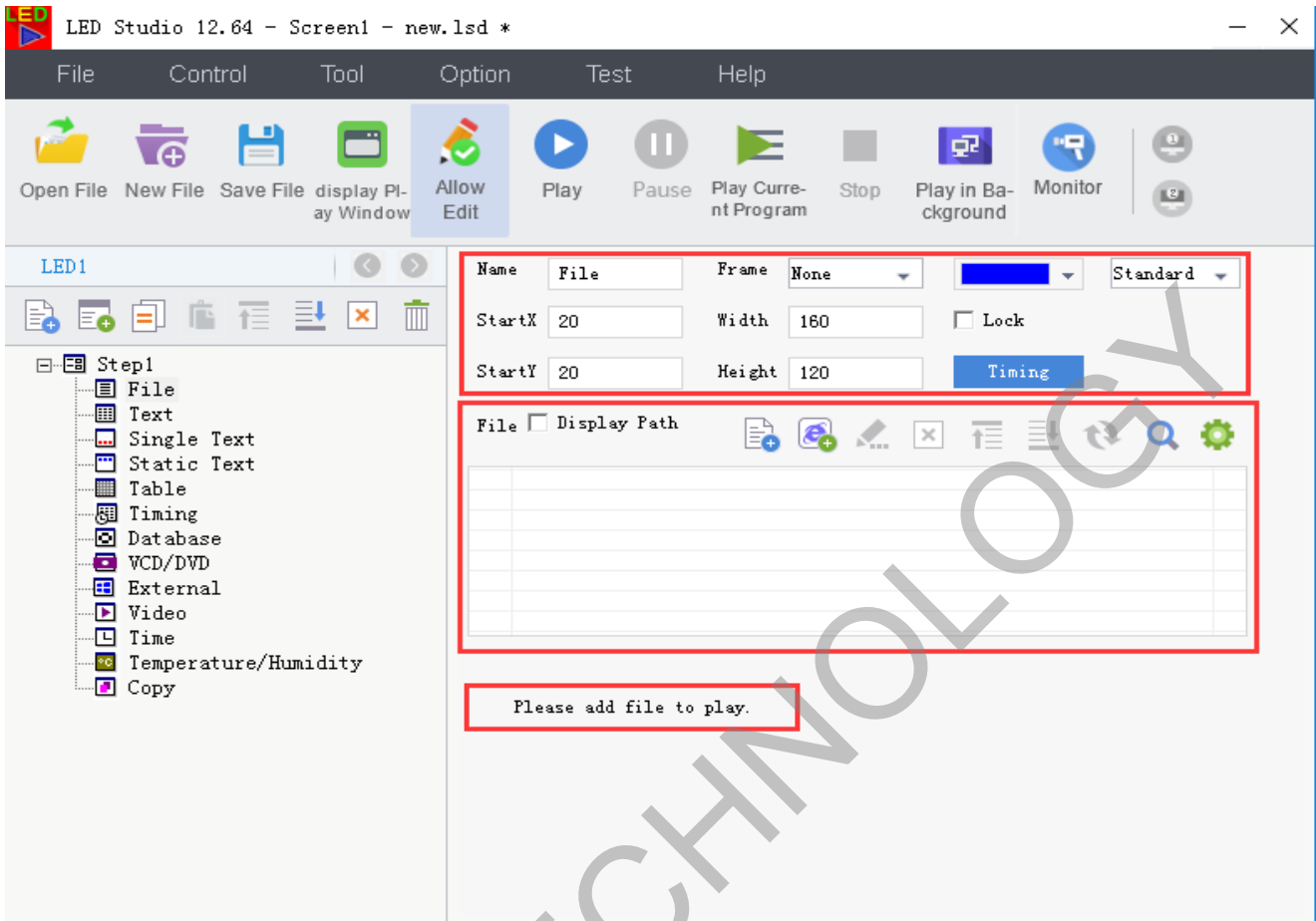
**Based on the PC time:** By 30 Minute 30 Sec means every 30 minutes of computer clock, **Time Window** appears for 30 seconds. **Time Window** is hidden besides that every 30 seconds.

**Based on the playing time:** by 30 Second 5 seconds means every 30 seconds of playing time, show **Time Window** for 5 seconds then hides **Time Window**

### 3.3.3.1. File Window

**File window:** play various files like documents, pictures, video etc.



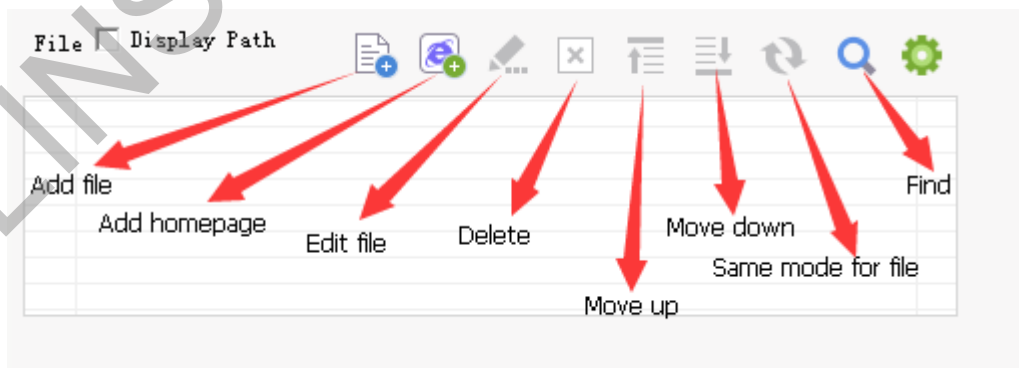


### 3.3.3.1.1. File(s) Showing Area Settings

File(s) Showing Area Settings: refers to [Important Notes](#)

### 3.3.3.1.2. File(s) Adding & Listing Window

Display Path: Showing the file path in the computer



**Add File:** click **Add File** icon to add a media file.

**Add Homepage:** add a web link to show web page in **Showing Area**

**Edit File:** edit the selected file. Open and edit

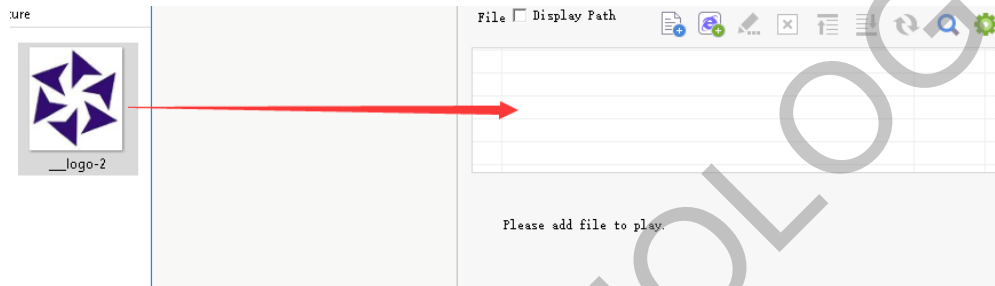
**Delete:** delete the selected file

**Move up/down:** change the order of the loaded files

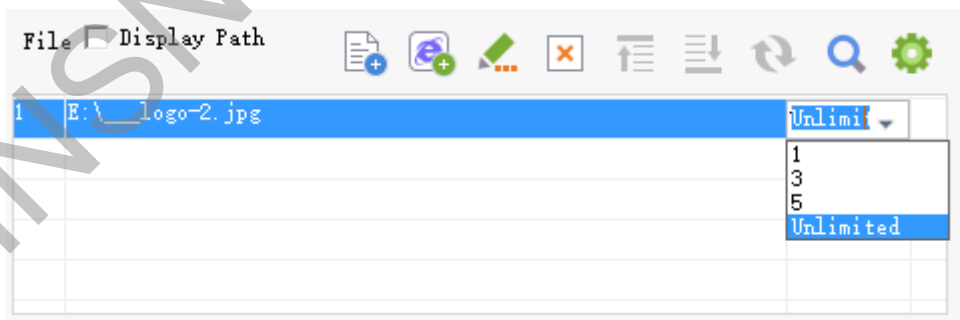
**Find:** find file(s) in the list

## Tips:

You can left-click the video or picture, and drag it to the blank area to insert file directly as the pictures shown below



**Unlimited:** After you insert pictures or videos, you will see **Unlimited** on the right column. It is for user to set play time, especially applying in advertising.

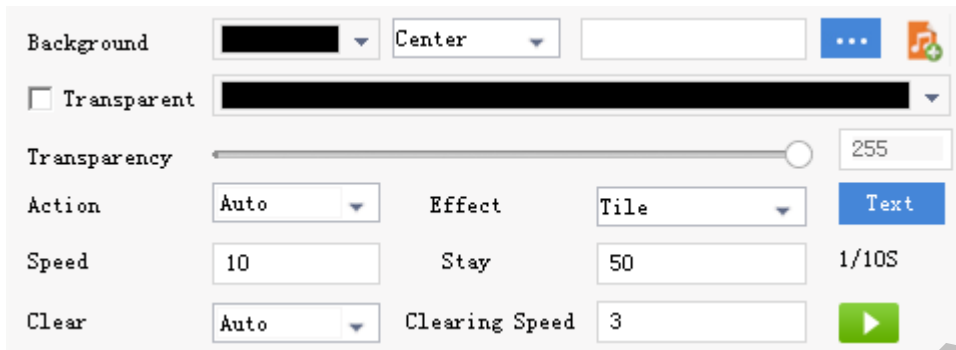


### 3.3.3.1.3. File Playing Settings

#### 3.3.3.1.3.1. Photo Playing Settings

**File Playing Settings:** settings for the selected file in the **File(s) Adding & Listing Window**

Note: All the settings only effect on the selected file



The above **File Playing Settings** is for **Pictures**.

**Background:** background color of **Showing Area**

**Center/Zoom/Stretch/Tile:** effects for background picture

**Background picture:** background picture for **Showing Area**

**Background music:** background music when playing the selected file

**Transparent:** Enable Transparent. The selected color will be filtered.

**Action:** how the pictures come in

**Effect:** zoom, stretch, center, tile

**Text:** add text

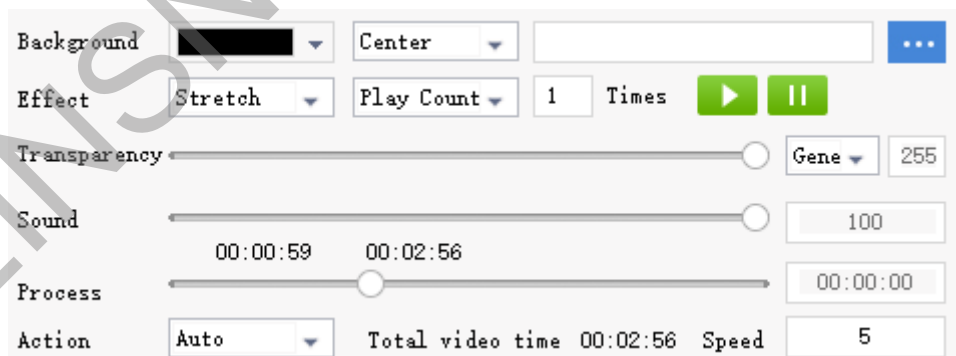
**Speed:** file coming in speed. The larger the value, the slower the speed

**Stay:** time duration for file to stay

**Clear:** how the file is cleared out

**Clr speed:** clear out speed. The larger the value, the slower the speed.

### 3.3.3.1.3.2. Video Playing Settings



**Background:** background color of **Showing Area**

**Center/Zoom/Stretch/Tile:** effects for background picture

**Effect:** Stretch/ Center/Zoom effect



: test play

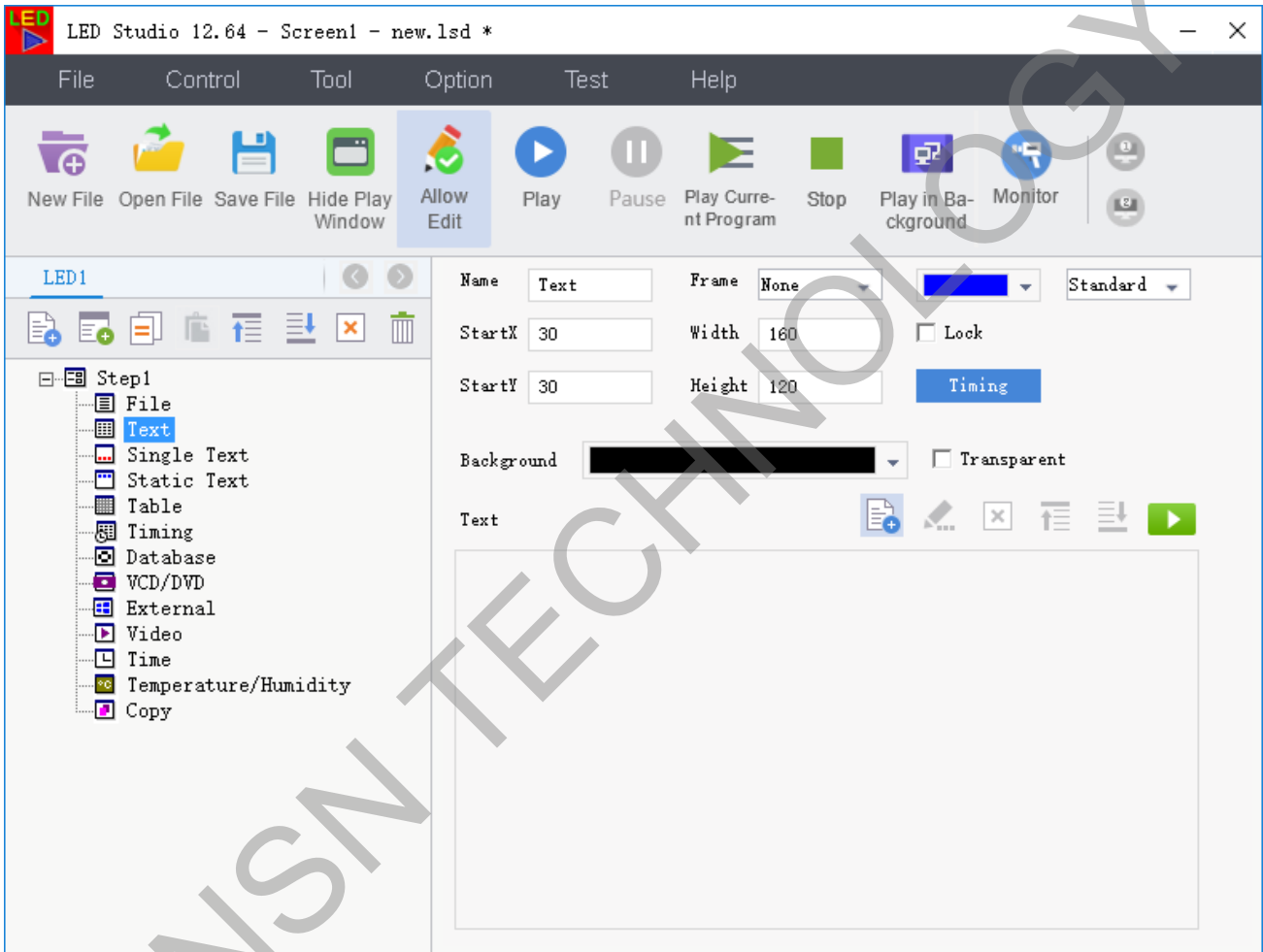
**Sound:** adjustment for the sound of the video, ranging from 0 to100.

**Process:** show current playing time of video

**Action:** how video come in

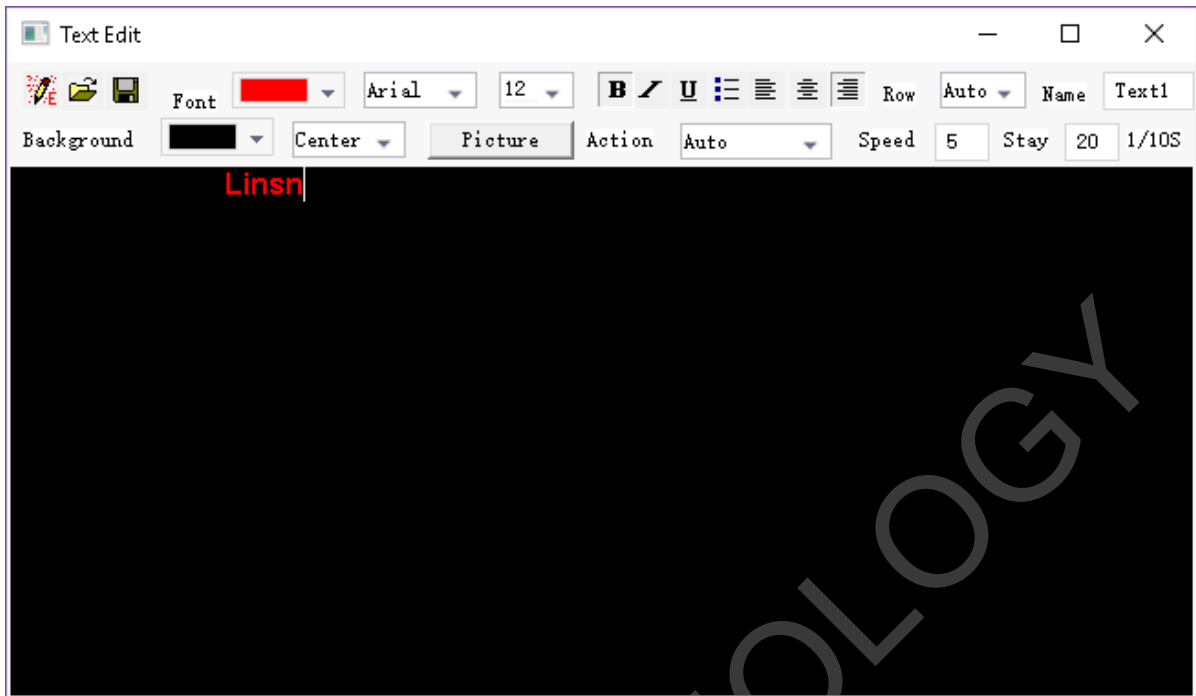
**Speed:** the coming in speed. The larger the value, the slower the speed


### 3.3.3.2. Text Window




**Transparent:** set the Showing Area background color to transparent








**Edit**  : show/hide the text window

**Open**  : open a .txt file

**Save**  : save as .txt file

**Font settings:** Font  Arial 12 **B**  **U**    :

**Name:** default as Text

Background  Center  Picture Action Auto  Speed 5 Stay 20 1/10S

**Background color**

**Picture:** picture, background picture.

**Center/zoom/stretch/tile** effects for background picture

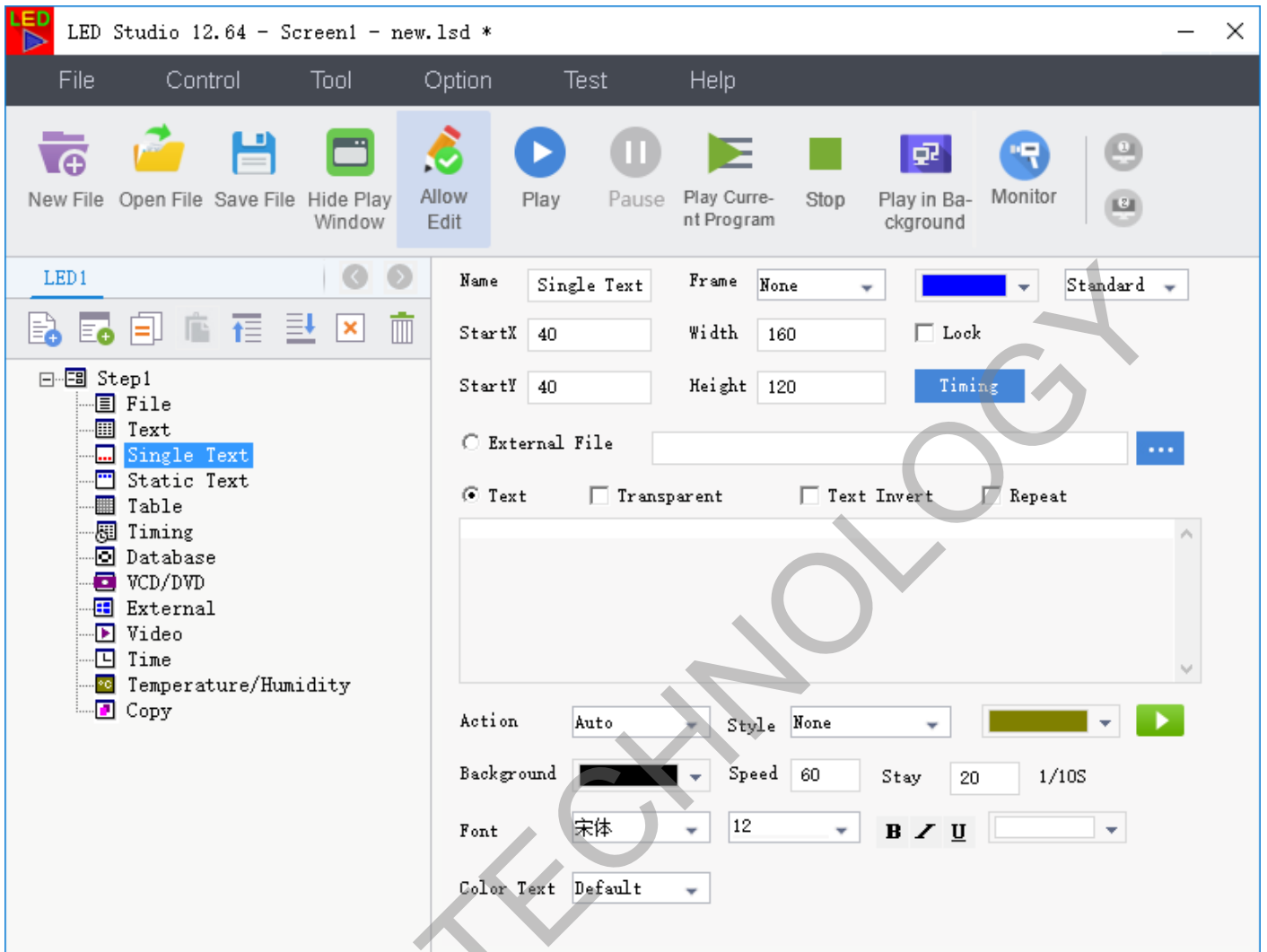
**Action:** action for background picture

**Speed:** background picture coming in speed. The larger value, the slower speed

**Stay:** time duration for background picture to stay

**3.3.3.3. Single Line Text Window**

**Single line text window:** to play single line text window



**Transparent:** only work when **Showing Area** background color is Black. Set the black color to transparent and show the **Step background color** instead.

**External File:** open a .txt file

**Text:** input text

**Action:** how the text comes in **Showing Area**

**Style:** add effects to the text. And the color for the effect.



**Background:** background color for the text

**Speed:** Text coming in speed. The larger the values, the slower the speed

**Stay:** time duration for text to stay

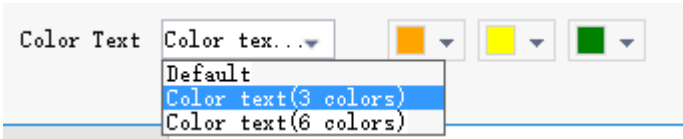
**Font:** Font settings for text

**Text invert:** abc ---- cba

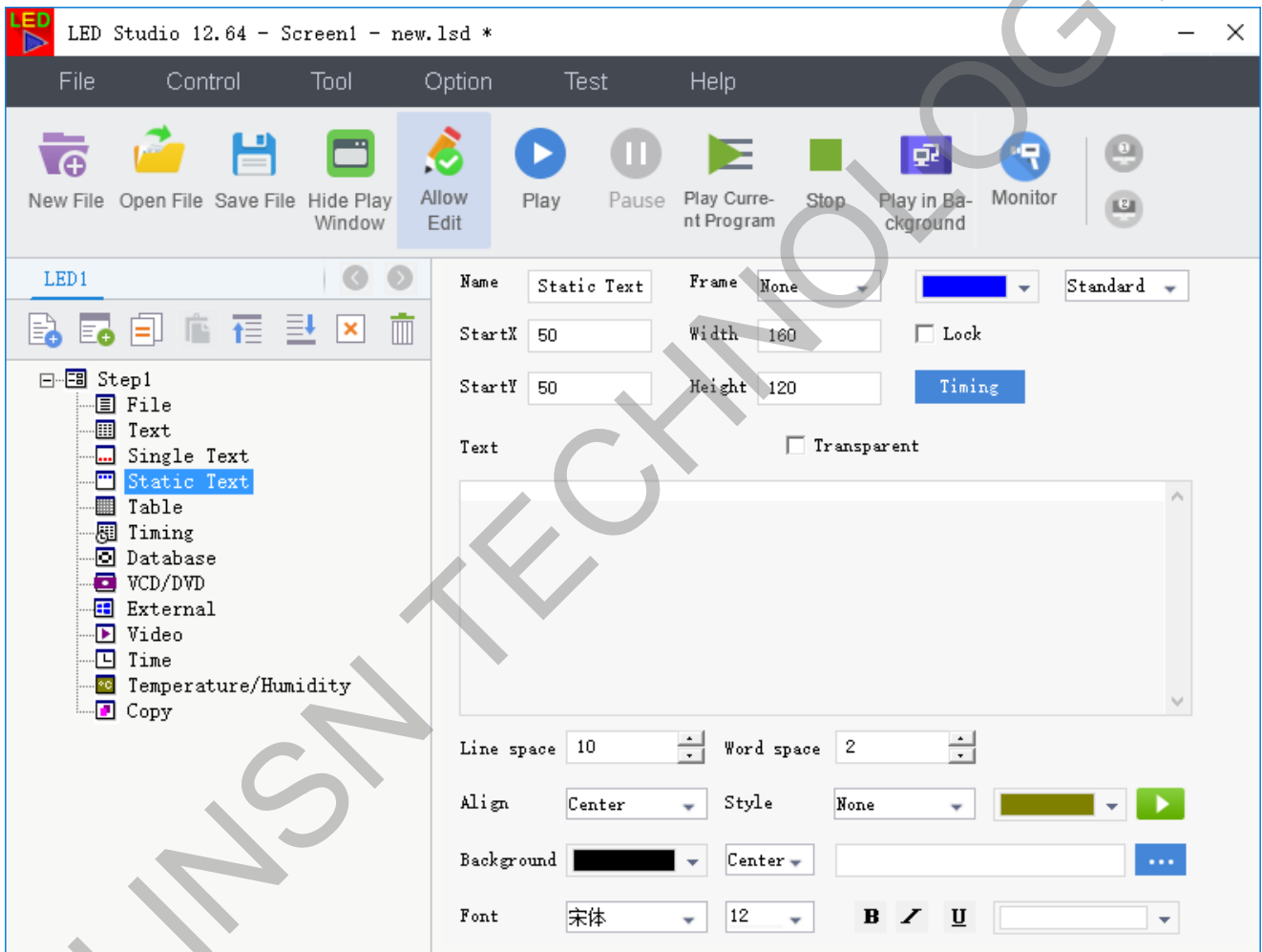
**Repeat:** abc---abcabcabcabcabc

**Official website:** [www.linsn.com](http://www.linsn.com)

**Color Text:** Set the text content in different color as the picture below, there are two modes: 3 colors and 6 colors.



### 3.3.3.4. Static Text Window



**Transparent:** only work when **Showing Area background color** is Black. Set the black color to transparent and show

**Step background color** instead.

**Text:** text input

**Line space:** space of text lines

**Word space:** space of neighboring words

**Align:** left/center/right/left & right

**Style:** add text effects and color of effect



: test play

**Background:** Background [Color Picker] Center [Dropdown] [Text Field] [More]

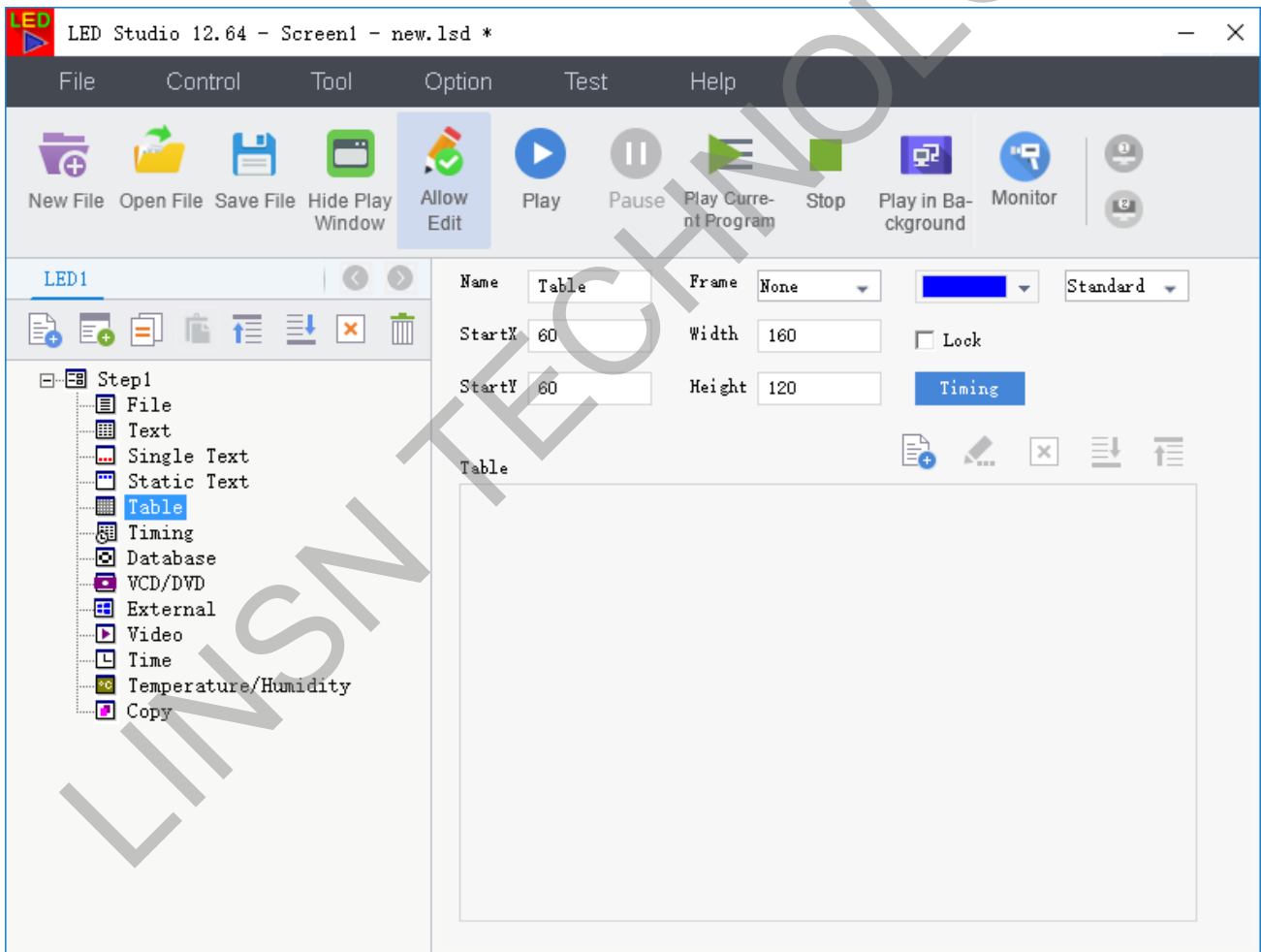
**Background color**

...: add background picture

**Center/zoom/stretch/tile** for background picture

**Font settings:** Font Arial 12 **B** **U** [Color]

### 3.3.3.5. Table Window



**Table Window:** Used for editing the play list data.

Add Table



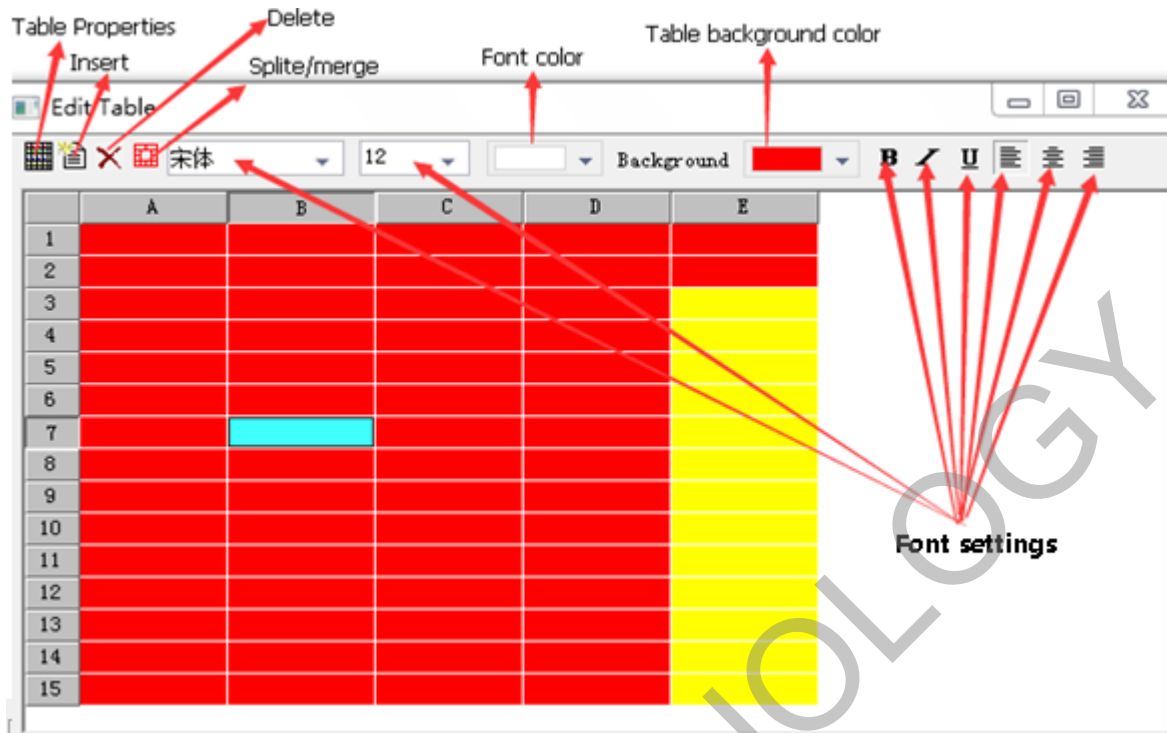
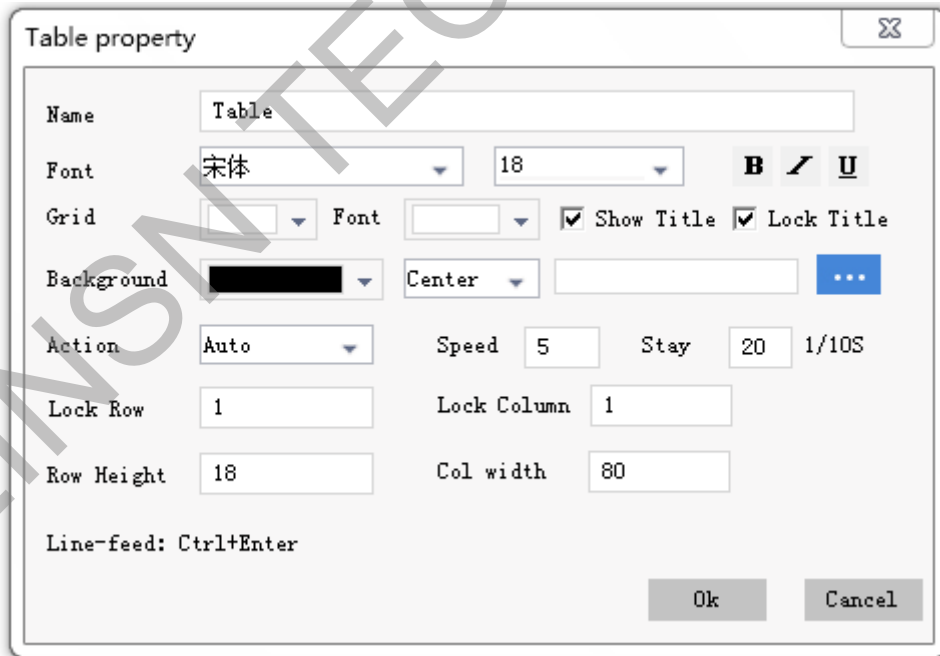


Table Properties:



**Name:** Title name of the table

**Official website:** [www.linsn.com](http://www.linsn.com)

**Font settings:** Title font settings

**Grid:** the table grid color

**Font color:** title font color

**Show Title:** Show/Hide Title

**Lock title:** when title is locked. Title stays still while Action effect taking place.

**Action:** table effects

**Speed:** table coming in speed. The larger the values, the slower the speed

**Stay:** time duration for table to stay

**Lock row:** for example, Lock Row 2, the second row will stay. This only works in Up/Down Action effects.

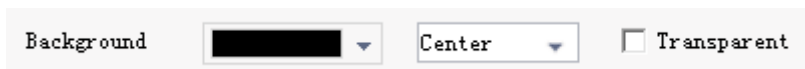
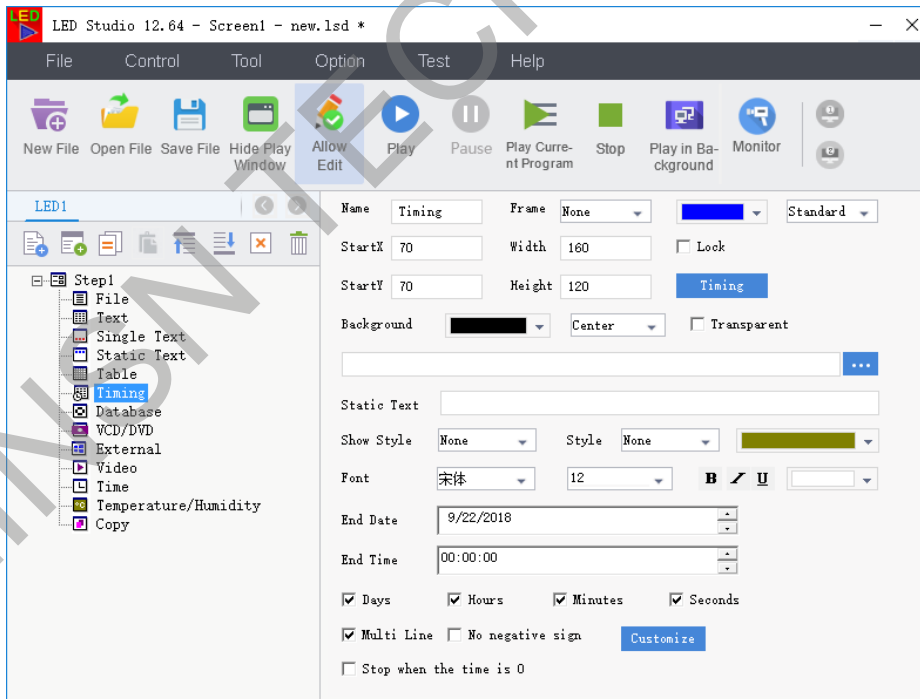
**Lock Column:** for example, Lock Column 2, the second column will stay. This only works in Left/Right Action effects.

**Ctrl + Enter:** start a new line within a single table

	A	B	
1			
2	abc cde		
3			
4			
5			

### 3.3.3.6. Timer Window

**Timer window:** Used for countdown




**Background:** background color for Timer

**Center/zoom/stretch/tile** for background picture

...: background picture for Timer

**Transparent:** only work when **Showing Area background color** is Black. Set the black color to transparent and show **Step background color** instead.

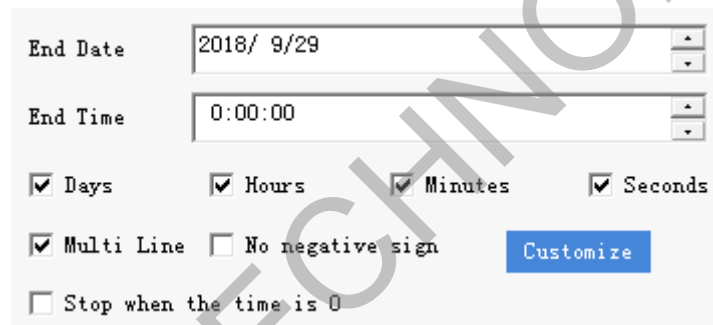


**Static Text:** text input

**Style:** add effects to text and color for effect



**Font settings** for Text.



**End Date:** Date for timer to countdown to

**End Time:** Time for timer to countdown to

**Days/Hours/Minutes/Seconds:** show/hide when countdown

**Multi Line:** enable or disable multi line showing

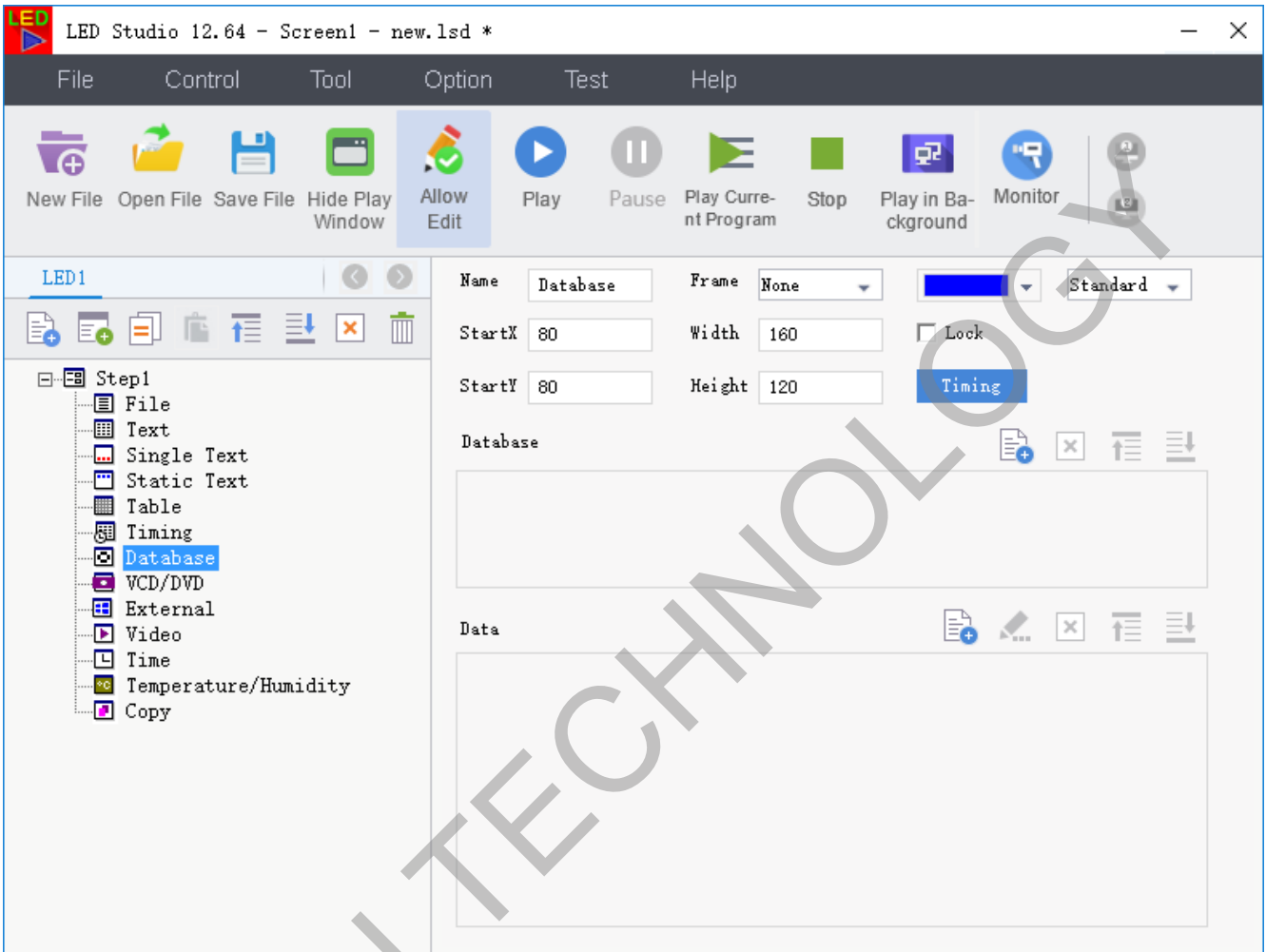
**No negative sign:** when countdown pass the End Time, do not show the – in the timer.

**Stop when the time is 0:** stop when Timer finish countdown

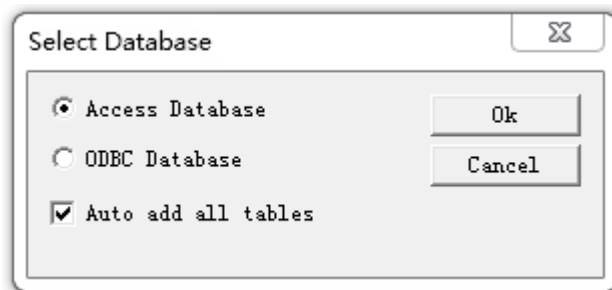
**Customize:** customize the time format for countdown

### 3.3.3.7. Database Window

**Database window:** it is used to play ACCESS database and ODBC driver data base.



Add Database 



Database Settings

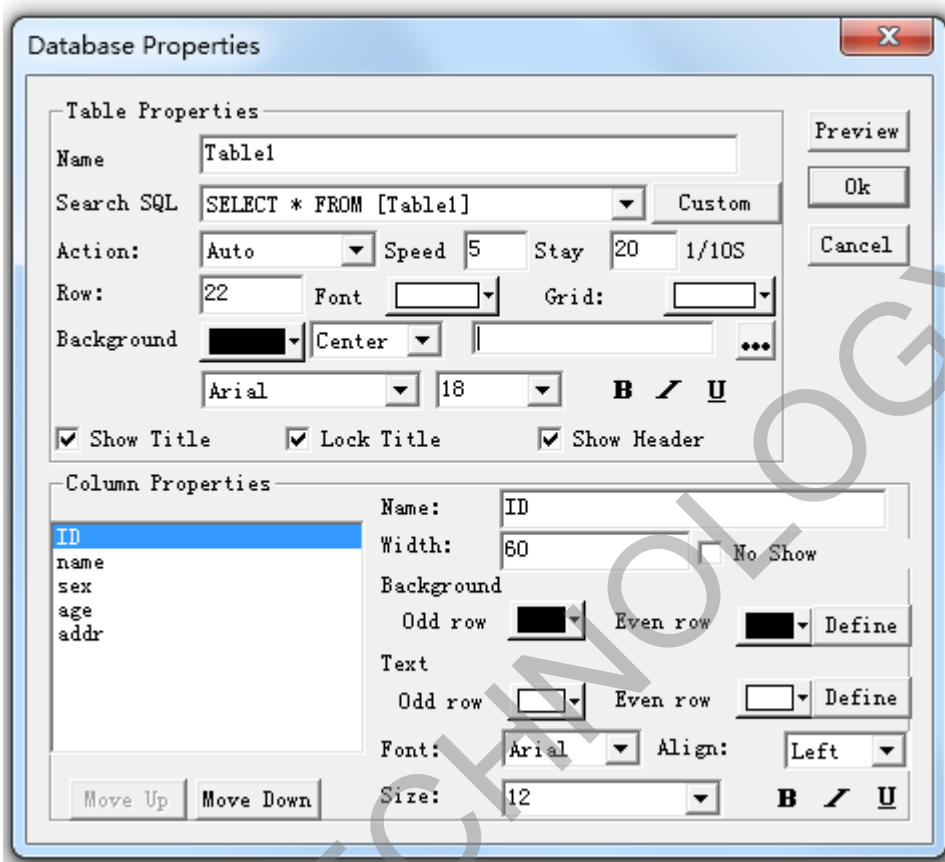
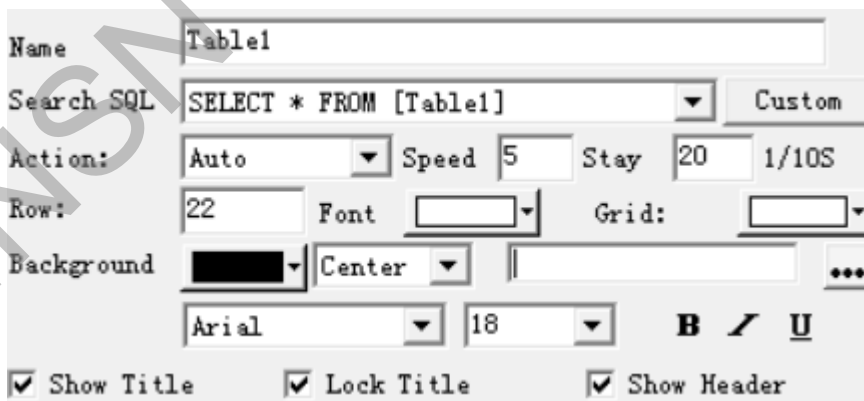


Table Properties



**Find SQL:** select the database that you need

**Scripti-:** Scripting

**Action:** effects for how the table comes in **Showing Area**

**Official website:** [www.linsn.com](http://www.linsn.com)

**Speed:** table's coming-in speed. The larger the value, the slower the speed

**Stay:** time duration for table to stay

**Row** (in pixels): the height for a row

**Font:** Table1 color

**Grid:** table grid color

**Backgr:** background color of table

...: add background picture for table

**Center/zoom/stretch/tile** for background picture

Font settings for Table1: 

**Show title:** hide/show Table title

**Lock title:** when title is locked. Title stays still while Action effect taking place.

**Show header:** show/hide the **Column** header

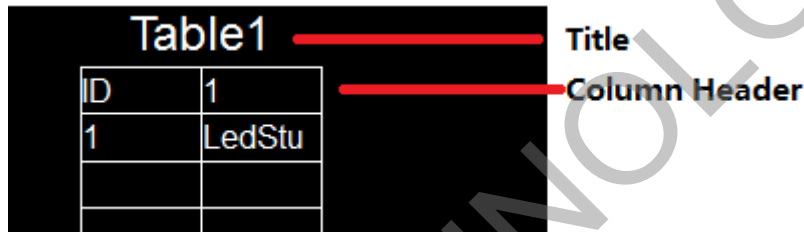
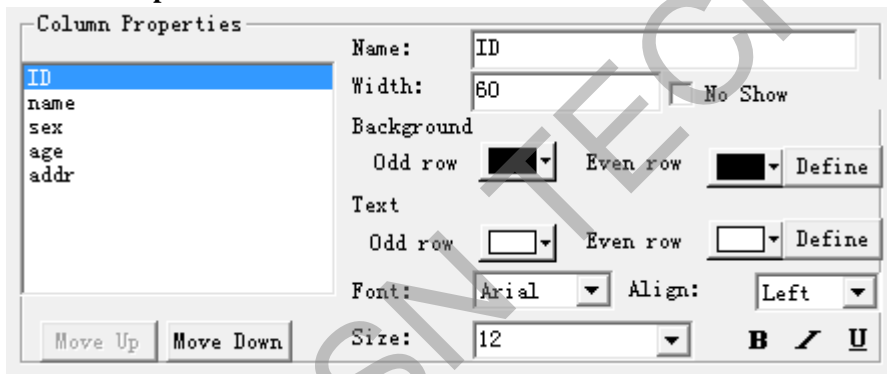


Table1	
ID	1
1	LedStu

## Column Properties



Column Properties

Column Name	Name	Width	No Show	Background	Text	Font	Align	Size	Style
ID	ID	60	<input type="checkbox"/>	Odd row: [Color] Even row: [Color] Define	Odd row: [Color] Even row: [Color] Define	Arial	Left	12	<b>B</b> / <i>I</i> / <u>U</u>
name									
sex									
age									
addr									

Buttons: Move Up, Move Down

**Name:** column name

**Width:** column width in pixels

**No Show:** hide the selected column



Background

Odd row: [Color] Even row: [Color] Define

Text

Odd row: [Color] Even row: [Color] Define

**Background odd:** background color of column header

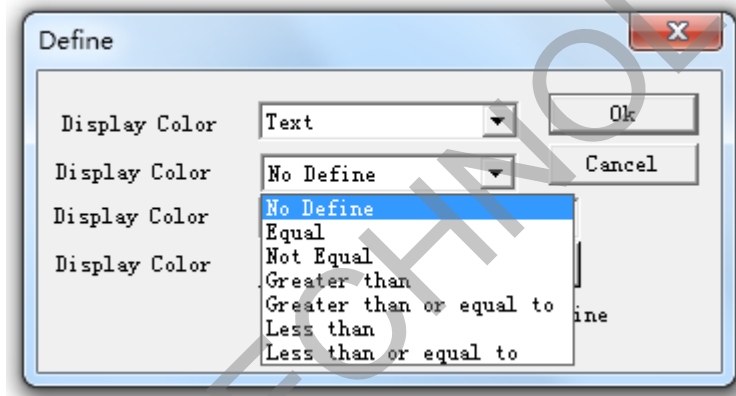
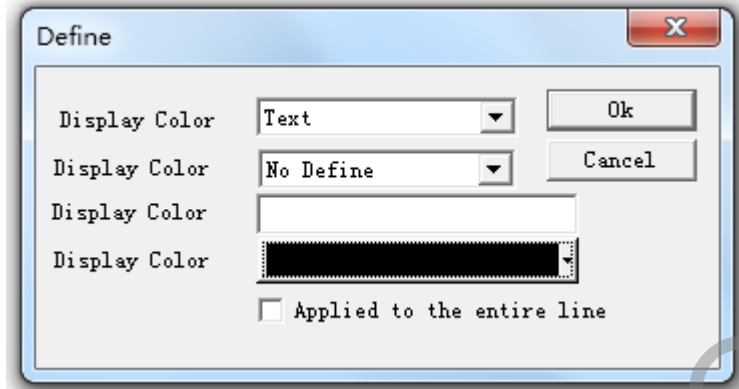
**Background even:** background color of column data

**Official website:** [www.linsn.com](http://www.linsn.com)

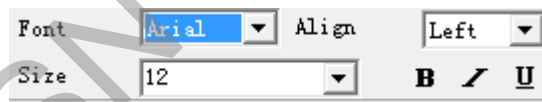
**Text odd:** column header font color

**Text even:** column data font color

**Define:** define a rule to apply color

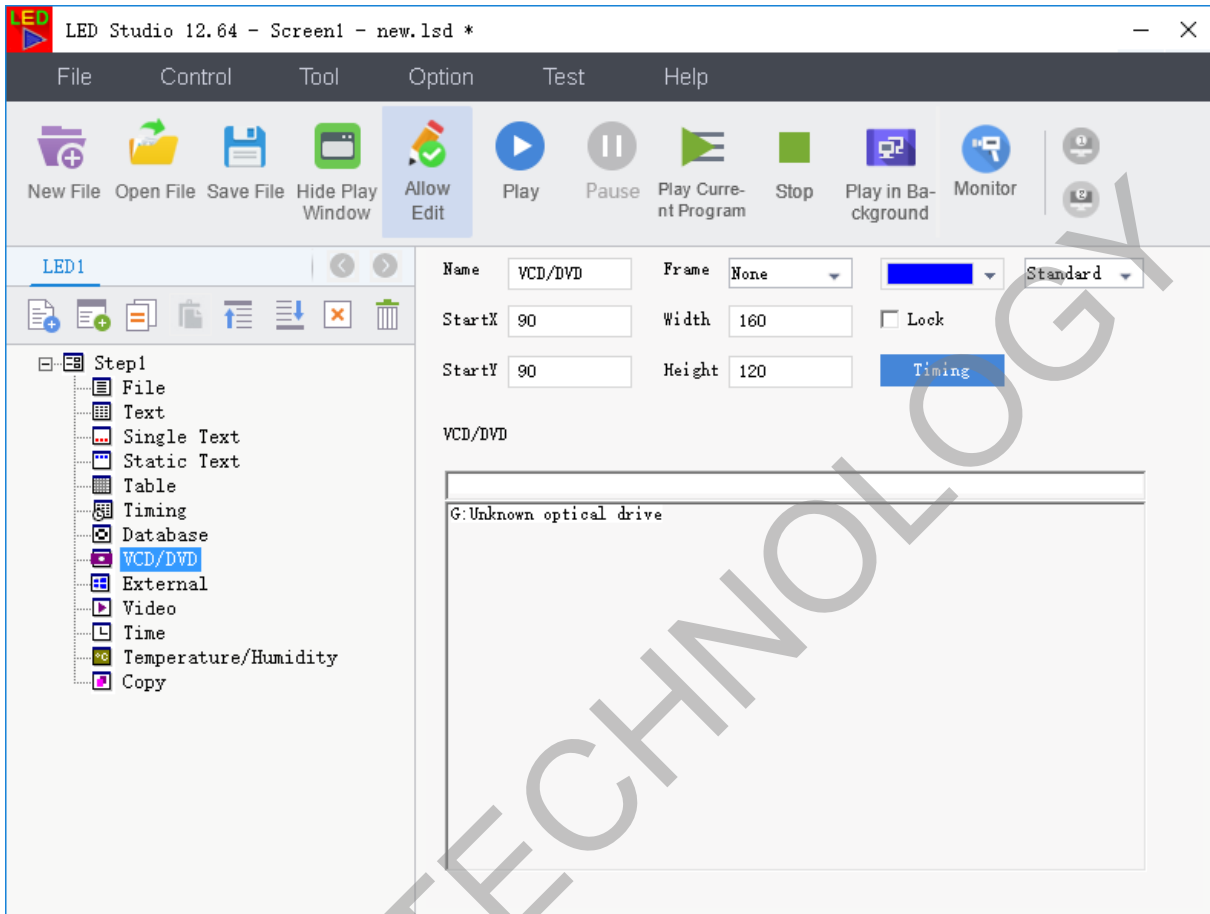


**Font settings** of selected column:



### 3.3.3.8. VCD/DVD Window

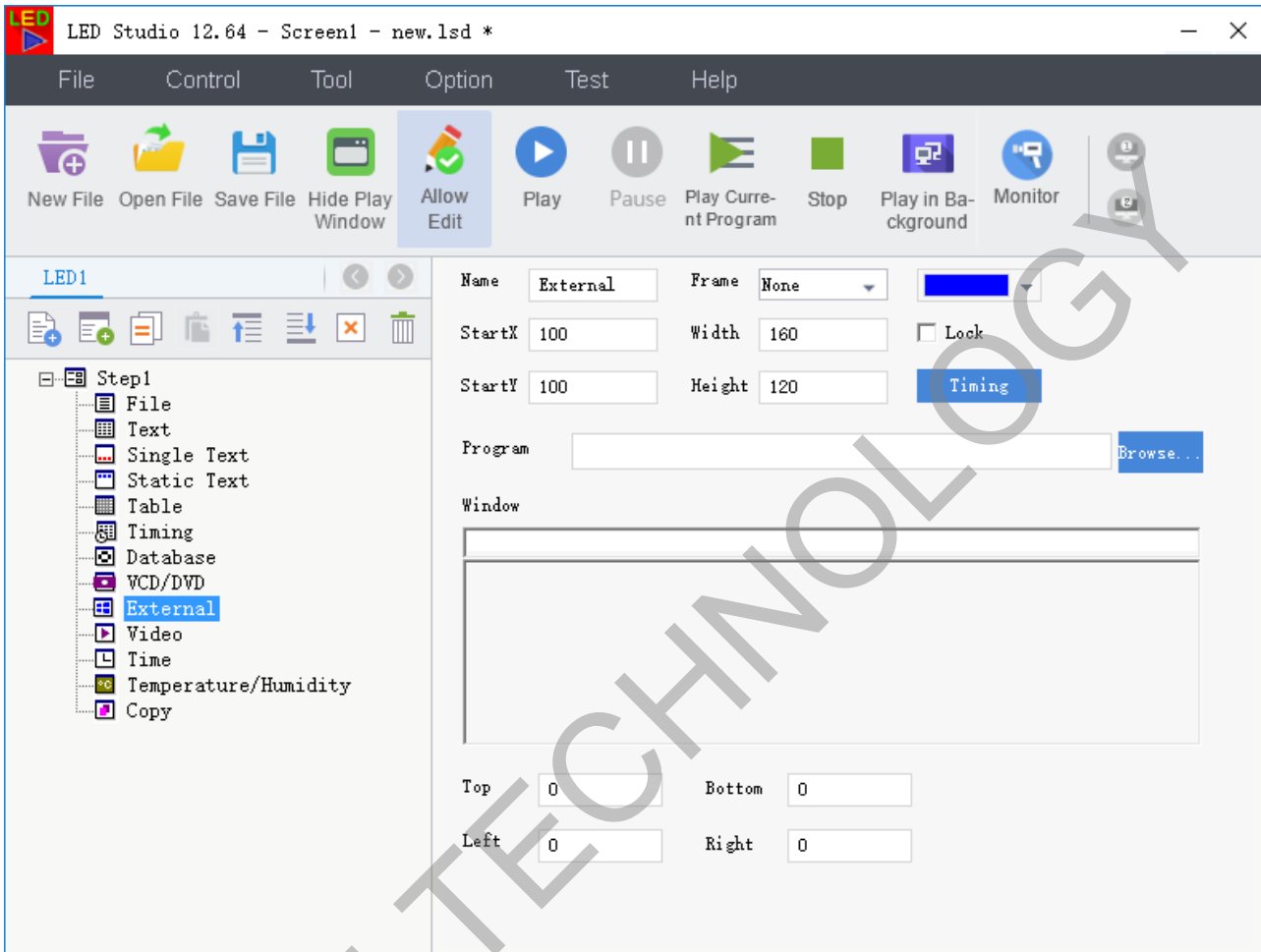
DVD/VCD window: play DVD/VCD in Showing Area





### 3.3.3.9. External Exe Window

**External Program Window:** run a .exe program inside Play Window



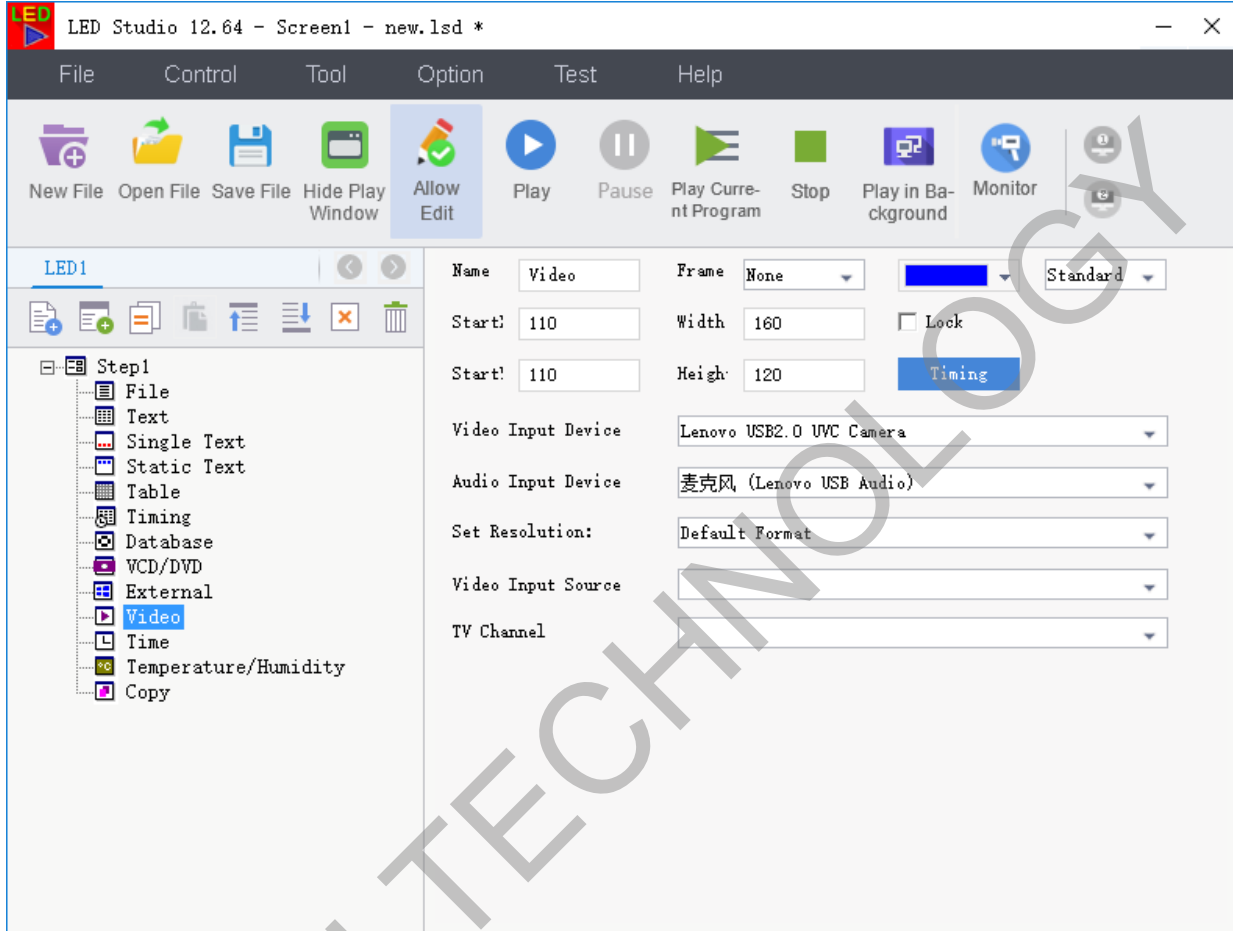
**Browse:** Browse to select an .exe program

**Window Name:** Select an .exe listed to run in Play Window

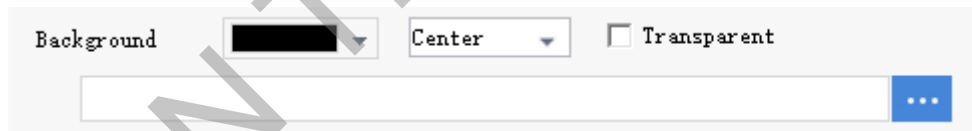
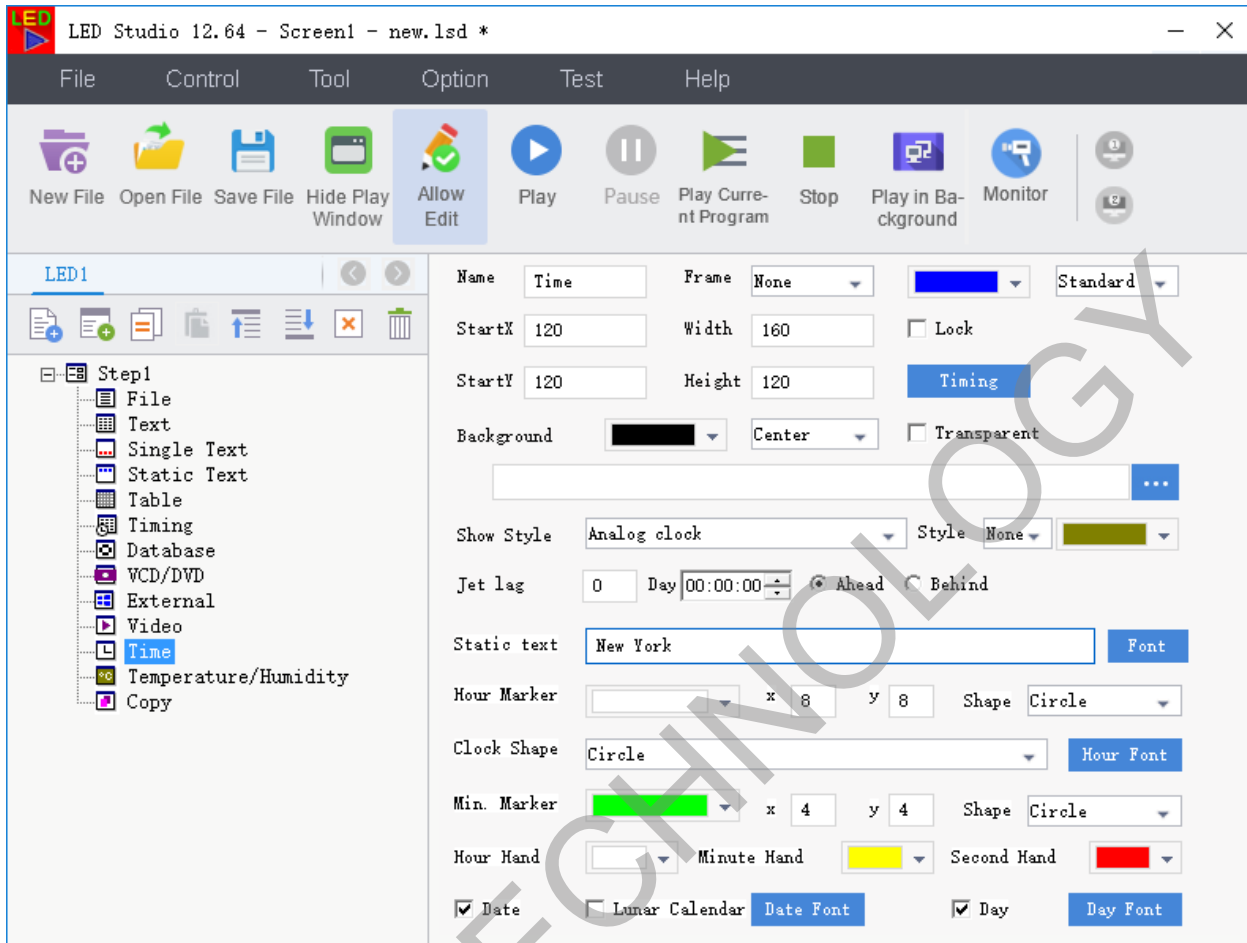
**Top/Bottom/Left/Right Margin:** set the position of the .exe program

### 3.3.3.10. Video Window

**Video Window:** Read Video/audio source from capture card and show on Play Window. LEDStudio will detect which video/audio sources are available from the computer. Select a source and show on Play Window.



### 3.3.3.11. Date/Time Window

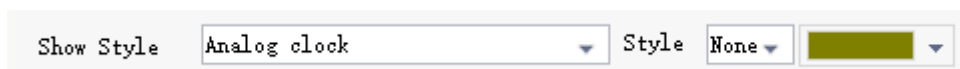


**Background color** for Time

**Center/zoom/stretch/tile** for background picture

...: background picture for Timer

**Transparent:** only work when **Showing Area background color** is Black. Set the black color to transparent and show **Step background color** instead.



**Style:** Time style

**Style:** effects for Time (not for Analog clock) and effect color

Static text

**Static text:** text show together with Time

The image shows a configuration window for a 'Static Text' element. At the top, there are fields for 'Name' (Static Text), 'Frame' (None), and a color selection dropdown (blue). Below these are 'StartX' (50), 'Width' (160), 'StartY' (50), 'Height' (143), and a 'Lock' checkbox. A 'Timing' button is also present. A 'Text' section includes a 'Transparent' checkbox and a large text area. The bottom section contains 'Line space' (10), 'Word space' (2), 'Align' (Center), 'Style' (None), a background color selection (black), and 'Font' (Arial, size 12) with bold, italic, and underline icons.

**Line space:** to adjust the space between two lines

**Word space:** to adjust the space between two words

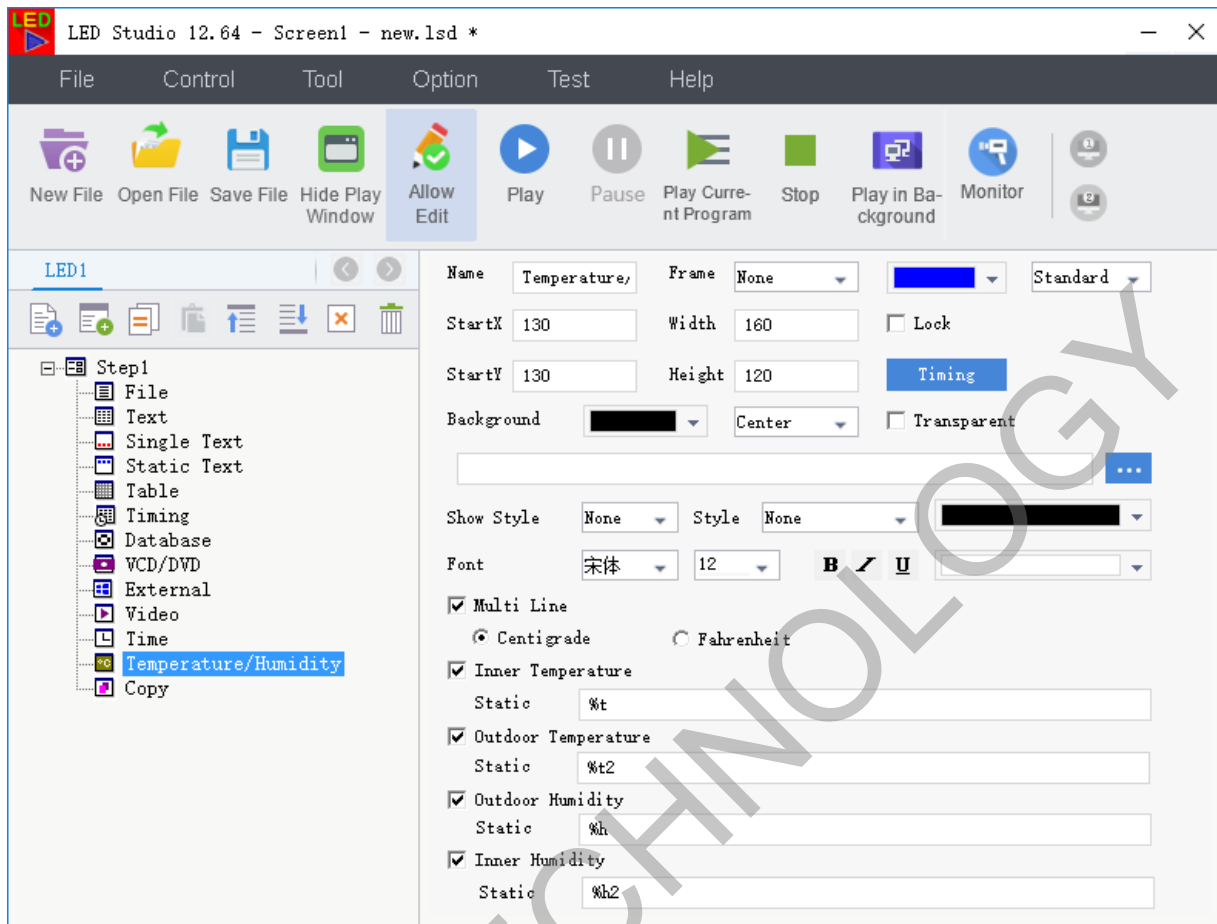
**Align:** left, right, center, left & right

**Style:** simple effect for the text

**Background:** to set color for the background

### 3.3.3.12. Temperature/Humidity Window

This is used to display temperature and humidity on LED screen.



**Background color:** background color of Temperature/Humidity

**Center/zoom/stretch/tile** for background picture

...: background picture for Temperature/Humidity

**Transparent:** only work when **Showing Area background color** is Black. Set the black color to transparent and show **Step background color** instead.



**Style:** add effects to text and color for effect



**Font settings** for Text.

**Multi-line:** show between multiple lines and single line

Multi Line

Centigrade       Fahrenheit

Show temperature in different unit

Inner Temperature  
Static    %t

Outdoor Temperature  
Static    %t2

Outdoor Humidity  
Static    %h

Inner Humidity  
Static    %h2

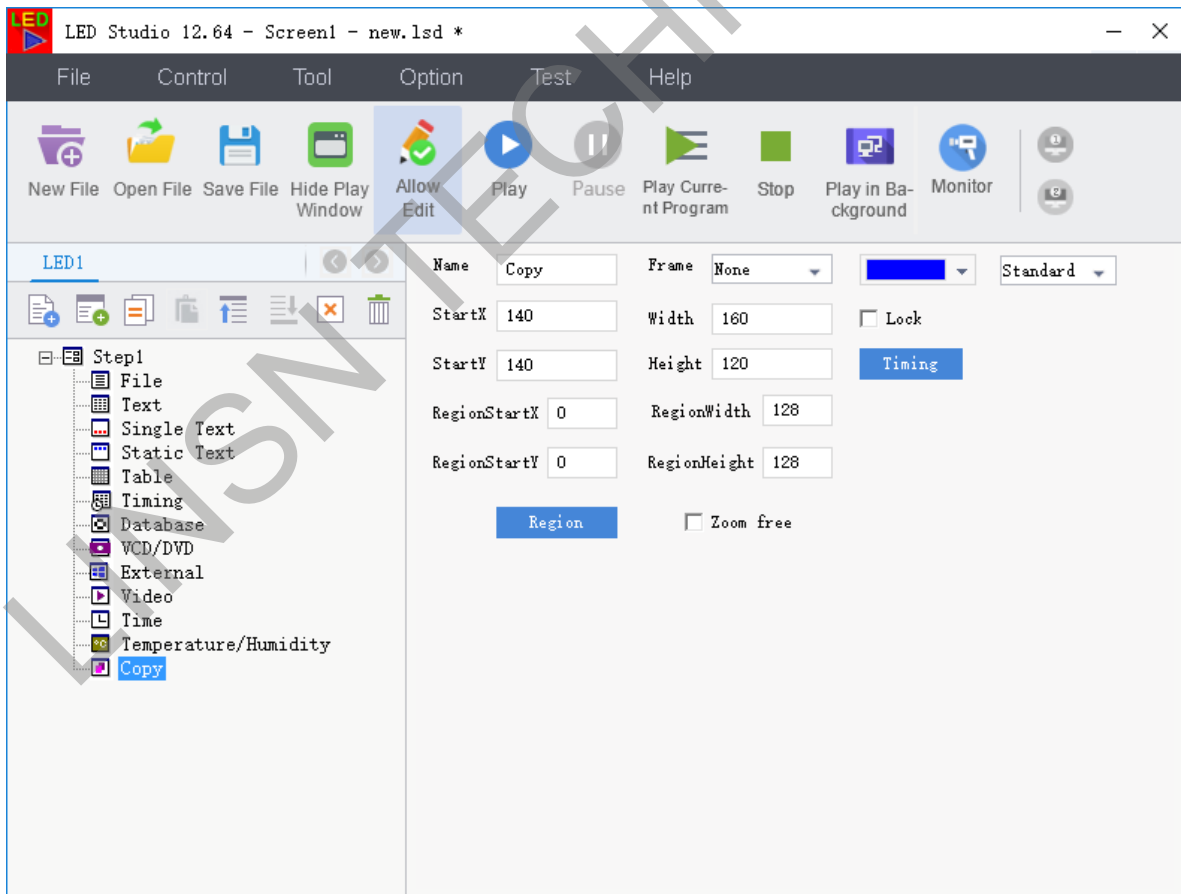
Add text before/after Temperature/Humidity Value

### 3.3.3.13. Copy Window

Start X, Start Y: set position of Copy Window

Width, Height: set size of Copy Window


Frame Extracting: for example: Per 10 extracting 5 pixels means in every 10 pixels, extract the last 5 pixels.



### 3.3.4. Save Program


Click saving button  or click File Menu, then the file can be saved.

### 3.3.5. Play Program

 : Play from the first program


**Tips:** After you click play button, the play  will be changed into an update button .

And you can edit the program while the videos/pictures are playing.

 : Play current program

 : Pause

 : Stop

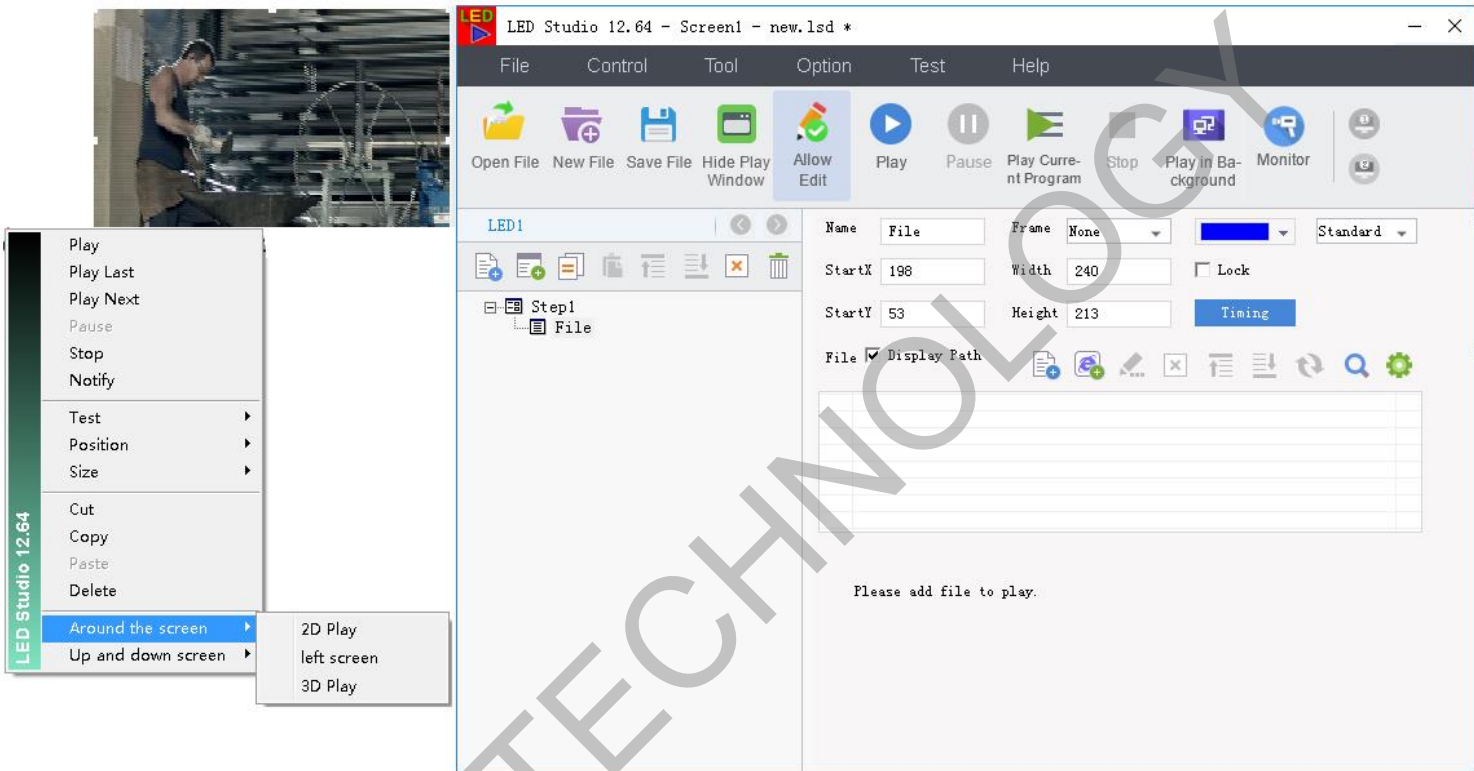
 : To play .lsd file a saved before.

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### 3.4. 3D Display

Load and open the 3D video source in LEDStudio, right-click on the video-> choose **Around the screen** or **Up and down screen** according to your video.

For example, choose **Around the screen** and select **3D Play** for the following video.



After choosing the **3D Play** effect, a 3D video would be generated through LEDstudio's algorithm as follow.



END