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Chapter1 Introduction

1.1 Features

LedStudio is a LED Display management software for Linsn LED Display Control System.

LedStudio functions in two ways:

To setup LED display with Linsn LED Display Control System;

To edit and play programs on LED Display.

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 provided by Graphics Card or Motherboard

A USB port



Chapter 2 Installation & Uninstallation

2. 1 Installation

Follow the following steps to install and run LedStudio.

1. Download LedStudio from www.linsn.com or get from the CD-Disk coming with the sending card.



2. Double-click the LEDStudio.exe LedStudio-...and flowing on-screen instruction to finish installation.



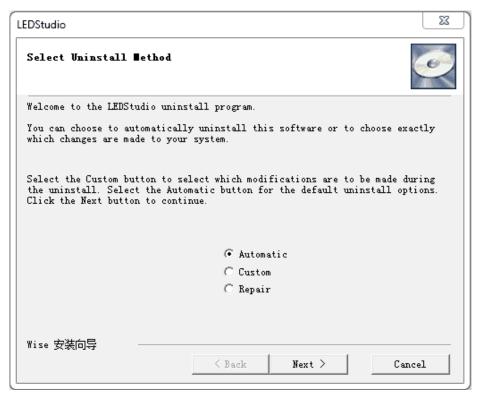
3. LedStudio program shortcut ICON LedStudio12 on desktop.

2. 2 Uninstallation



1. Co to Control Panel, click

- , find and select Led Software to uninstall
- 2. Select **Automatic**, click **Next** till finish uninstallation.



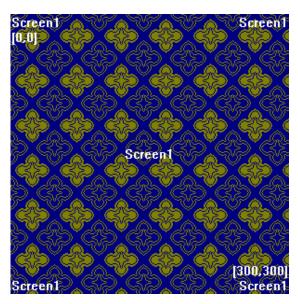


Chapter 3 How to Run Led Studio

3.1 LedStudio Interface

When you open Ledstudio, two windows will pop up:

•Play window



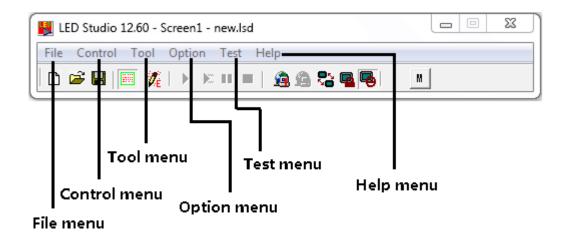
A simulated screen. Contents played by LedStudio will be shown on the above Window.

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.

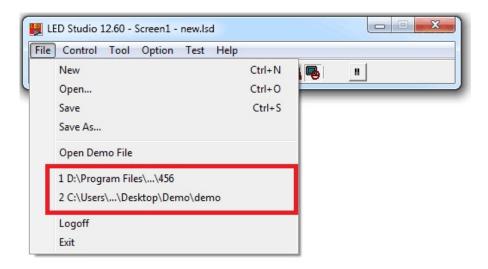
3.2.1.5 Open demo file

Open Demo File: open LedStudio demo file (when downloading LedStudio software, choose the **With demonstration file** one)



3.2.1.6 Open recent files

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



3.2.1.7 Log off

Log off: log off LedStudio to prevent further operation.

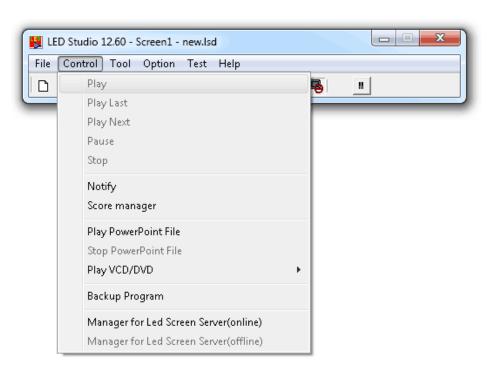
Note: This is related to the user setup option in Option menu.

You don't need to log off if you did not set the password requirement.

3.2.1.8 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.

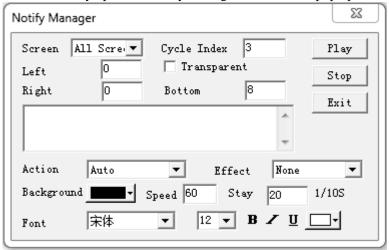
3.2.2.5 Stop

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. Transparent the black background color.(Check the example

shown below)

Action: How the Notify Message come into Play Window

Effect: Effects for Notify Message

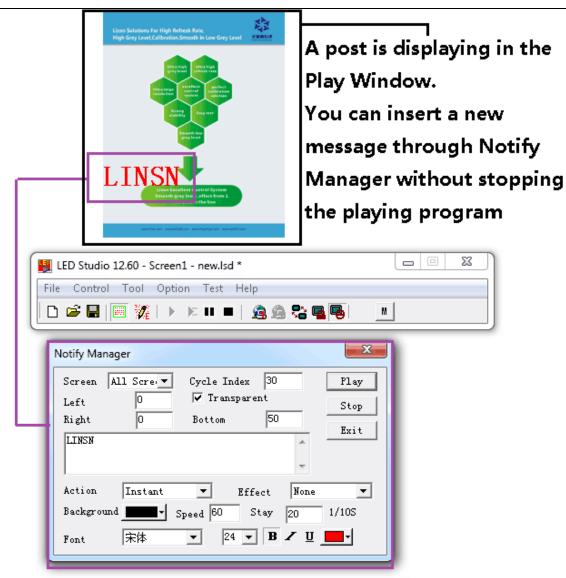
Background: background color for Notify Message

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

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

Font: Font settings for Notify Message

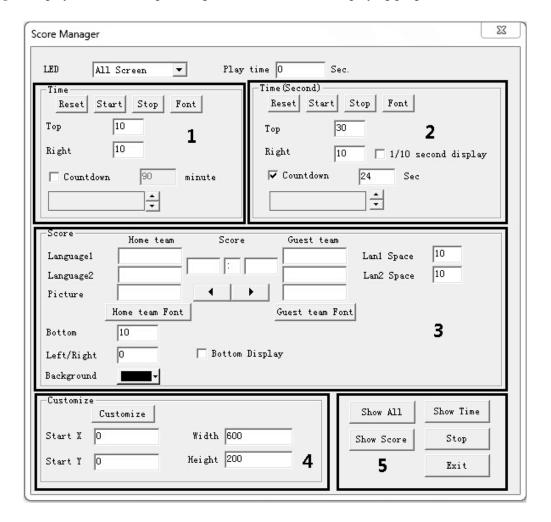






3.2.2.7 Score Manager

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



LED Screen: 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

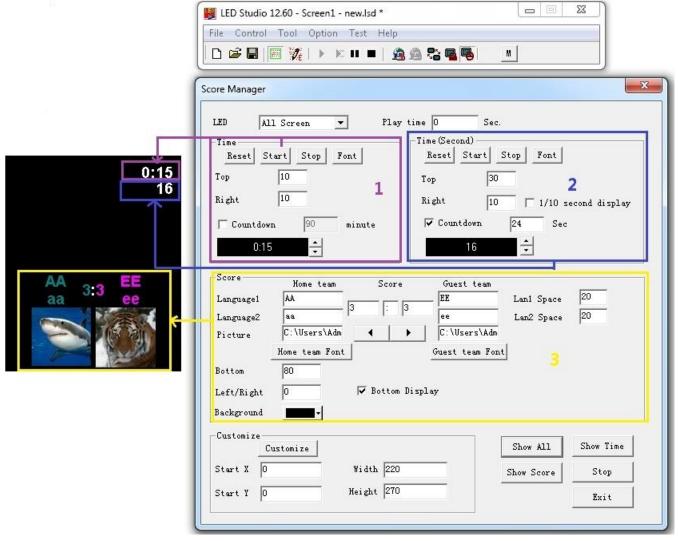
Bottom: set the position of score contents (player name, score) **Bottom display**: display Team/player pictures below score(check).

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





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

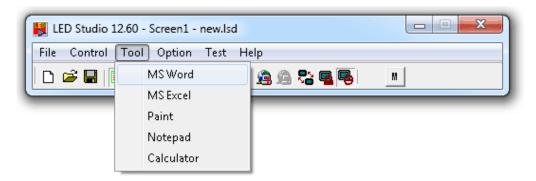
Backup program: backup all files of current program/.lsd file.

3.2.2.12 Manager for LED Screen Sever

Manager for LED Screen Sever: to manage remote screen, please refer to Option Menu, Software Setup, Networking for details.

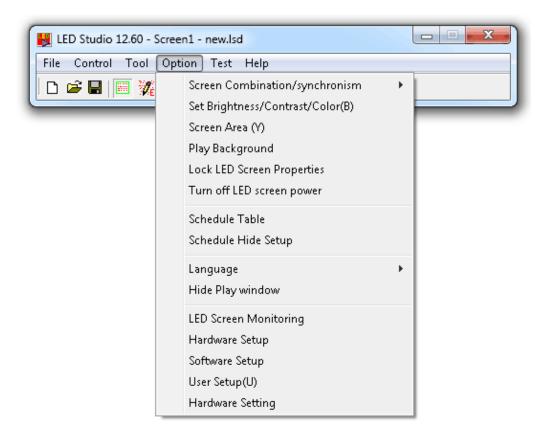


3. 2. 3 Tool Menu



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

3. 2. 4 Option Menu



3. 2. 4. 1 Screen Combination/synchronism

Screen Combination/synchronism: This is quick-Profiles-switch function.

First, Profile the led display combinations. When more than one led display is controlled by LedStudio, these led displays can be set as INDEPENDENT, CLONE, SIDE BY SIDE to form A bigger led display, etc.

Note: You don't have to use this even when more than one led screen is controlled.

Go to Software Setup, select Multi-LED Combination/synchronism, Click Combination/synchronism Setting



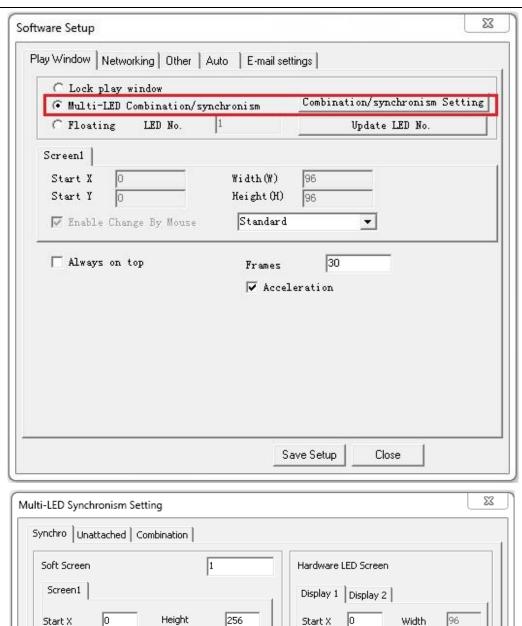
96

Exit

Height

Del





Name: Profile name

Update Name: change the Profile name and click update name to refresh

Synchro

Add: add one Profile

Del: delete the selected Profile

Exit: Exit Combination/synchronism Setting

Start Y

Name

256

Update Name

Start Y

Add

Width



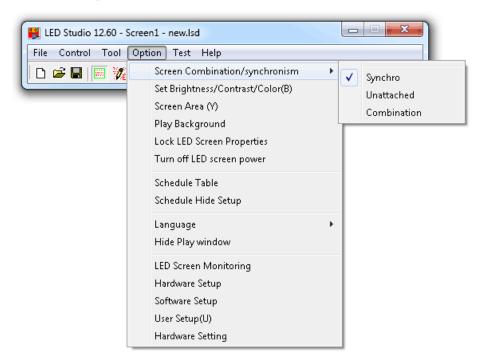


Soft Screen: set numbers of Play Window/Simulated Screen

Hardware LED Screen: read the numbers of Led display from Display Connection

(one **Red** rectangle means one Hardware LED Screen)

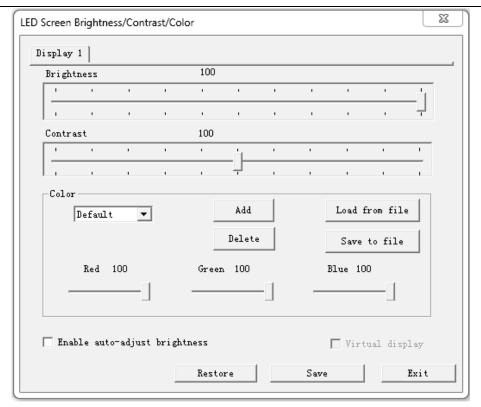
Start X: set the X position of (X, Y) coordination for the selected Soft Screen of Display **Start Y:** set the Y position of (X, Y) coordination for the selected Soft Screen of Display Now, the preset **Profiles** can be quickly switched.



3. 2. 4. 2 Set Screen Brightness/ Contrast/ Color

Screen Brightness/ Contrast/ Color: manually adjust the selected Display brightness, Contrast, Color





Brightness: 0-100, total 101 grades manual brightness adjustment

Contrast: 0-100, total 101 grades manual contrast adjustment

Color: User Color, each color of RGB has 0-100, total 101grades manual color adjustment; and three preset color choices.

Enable Adjust Bright Auto: Enable if a Function Board is applied for automatic brightness adjustment

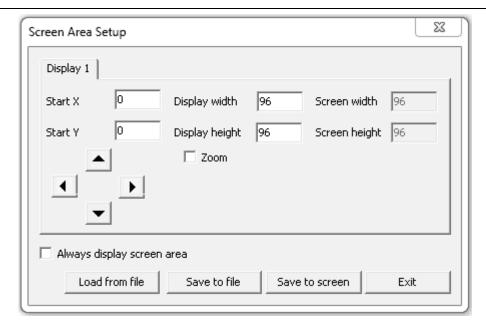
Virtual Display: switch between virtual and none-virtual mode for virtual led display. Note: For virtual led display, if **Virtual Display** does not enable, the virtual led display will be considered as real pixel led display, and only has 1/4 of visual size working. For example, a 384*256 virtual led display, will work as 192*128.

3. 2. 4. 3 Screen Area

Screen Area is the area copied to led display. Contents inside the Screen area will be copied to led display.

Note: if the Screen Area is gray, go check 3.2.4.12 Hardware Setup Note





Display1/Display2/Display3/Display4: led display name

Start X: set the X position of (X, Y) coordination for screen area **Start Y:** set the Y position of (X, Y) coordination for screen area **The arrow icon**: adjust the strart X, start Y, by 1 pixel at a time. **Display width**: the selected led display width of **Play Window Display height**: the selected led display height of **Play Window**

Screen width: the width of selected led display Screen height: the height of selected led display

Always display screen area: enable this; the screen area/red rectangle

will be always visible.

Zoom Display: enable Zooom Display, the Display width and Display height will change from **gray color to** editable.

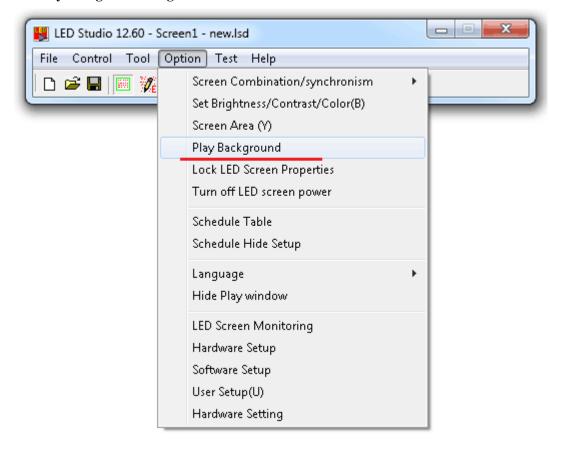
Set the display width and display height larger than the screen width and screen height.

For example:

- 1. enable Zoom Display
- 2. set display width 300, and display height 300
- 3. disable Zoom Display, and eable Zoom Display again, the red rectangle is now 300, 300
- 4. Click save to screen, the 300, 300 red rectangle contents will be copied and resize to fit the led display of 256,192.



3. 2. 4. 4 Play background/foreground

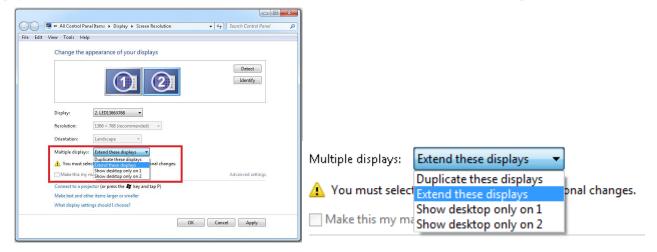


Play background/foreground play: Play background/foreground. Only when you set the graphics card and the sending card to **extended mode** do you need to click **play background**.

1. How to enable Play Background

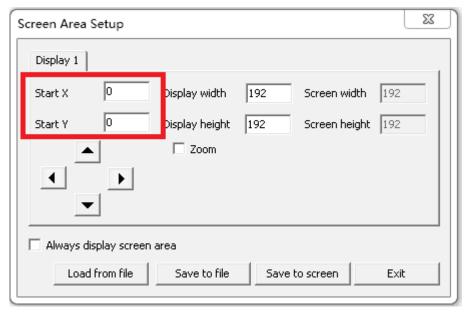
Take a 1366*768 computer monitor for example:

1. set the graphics card in extend mode(In most case, right click on your desktop--choose **screen resolution**(or enter any other page on which you can set the resolution of your monitor)--choose **Extend these displays** option





2. execute foreground play/play foreground is to set the (X,Y) of **Screen Area** to the Start X and StartY of Screen Area preset setting.



3. Exit foreground play/Play background: set the (X,Y) of Screen Area will not be seen in the computer monitor.

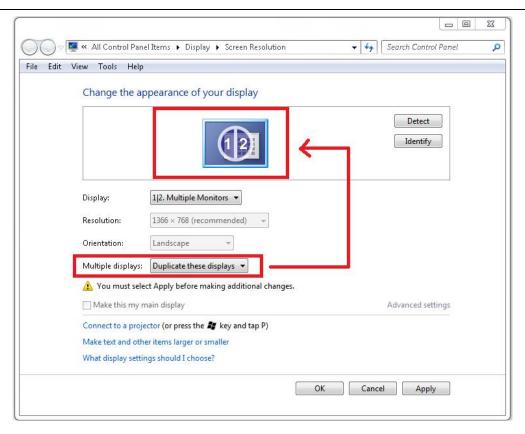
Important: when proceeding **Play Background**, choose **Floating** in Option Menu, Software setup, Play Window. If Lock to LED Screen is selected, Play Window cannot be moved.

2. How to exit Play Background mode:

1. Select duplicate these displays instead of extend these displays

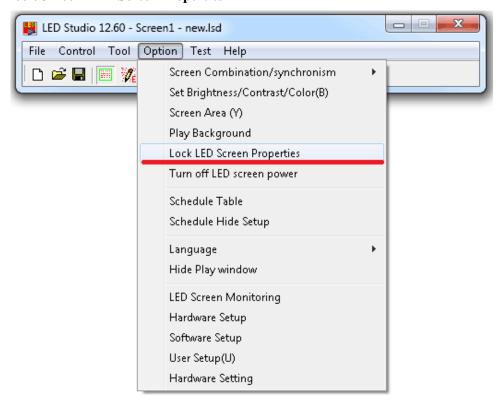


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3. 2. 4. 5 Lock/Unlock LED Screen Properties

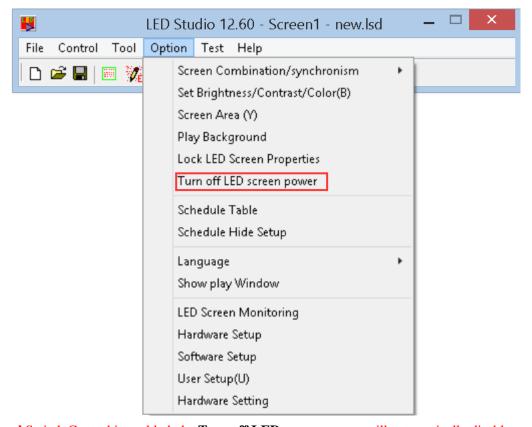


Lock: freeze-frame on led display, and Play Window continues playing.

Unlock: led display continues playing synchronously with Play Window



3. 2. 4. 6 Turn on/off LED Screen power



Note: when Manual Switch Control is enabled, the Turn off LED screen power will automatically disable.

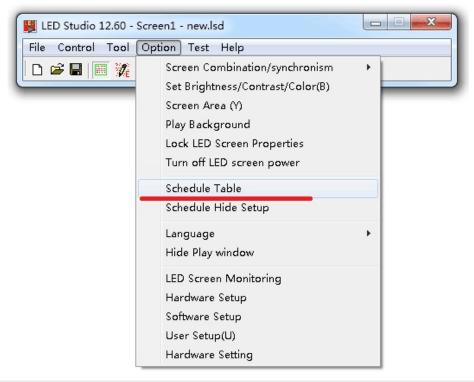
Turn on/off LED screen power: with Function Board remote power control applied, this function is for remote turning on/off LED screen power from LedStudio

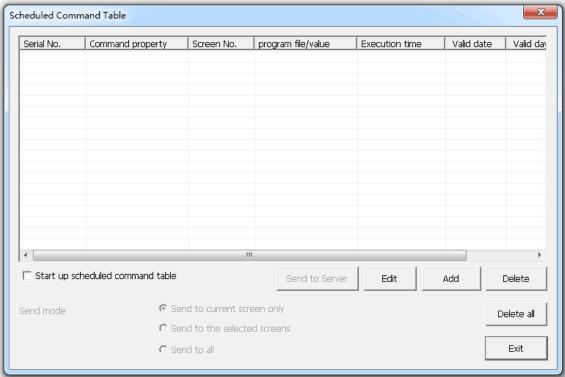
Without Function Board remote power control applied, this function is for turning on/off the sending card signals.



3. 2. 4. 7 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 curtain programs at preset time.









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

Note: Send to Server details, please refer to Page49

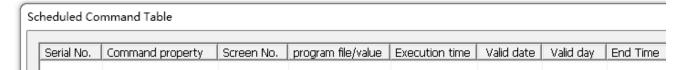
Send current only: send the Scheduled Command Table to the current selected led display

Send by select: 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 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

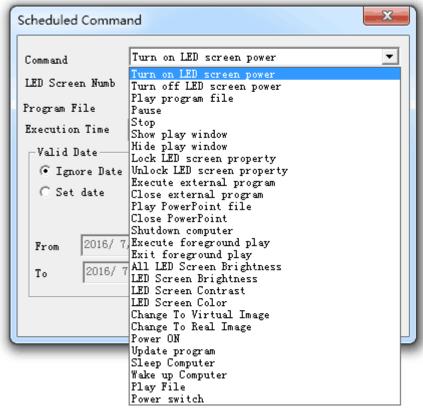
Program file/value: contents of the Scheduled Command

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

Click Add button you will see the below window:





Turn on/off LED screen power: with Function Board remote power control applied, remote turn on/off LED screen power from LedStudio

Without Function Board remote power control applied, turn on/off the sending card signals.

Play program file: .lsd file

Pause, stop: pause or stop at the execution time



Show/Hide play window: show or hide the Play Window

Lock LED screen property: freeze-frame on led display, and Play Window continues playing

Unlock LED screen property: led display continues playing synchronously with Play Window

Execute/close external program: run or quite external .exe program in LedStudio **Play Window** (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

Execute/Exit foreground play: Play background/foreground. Take a 1280*768 computer monitor for example:

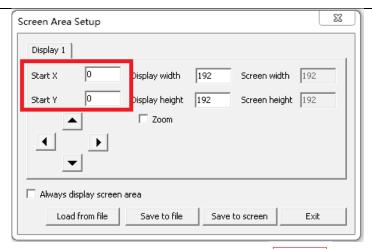
Set the Graphic card in extended mode;

execute foreground play/play foreground is to set the (X,Y) of **Screen Area** Area preset setting.

to the Start X and StartY of Screen







Exit foreground play/Play background: set the (X,Y) of **Screen Area** to (1366,0). The **Play Window** will not be seen in the computer monitor.(take the resolution of your monitor is 1366*768 for example)

LED Screen Brightness: adjust the led display brightness.

0-100, total 101 grades manual brightness adjustment

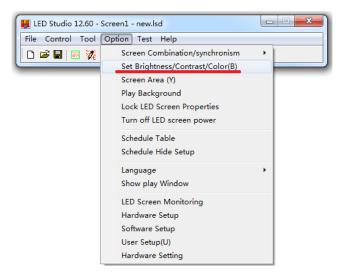
All LED Screen Brightness: adjust all the led display brightness

0-100, total 101 grades manual brightness adjustment

LED Screen Contrast: adjust the led display contrast.

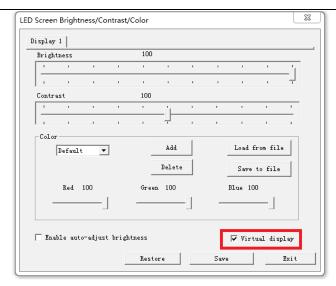
0-100, total 101 grades manual contrast adjustment

LED Screen Color: switch among the color temperature of **User Color** (0), **9300K** (1), **6500K** (2), **5000K** (3). Please refer to Set Brightess/Contrast/Color



Change to Virtual/Real Image: switch between virtual and none-virtual mode for virtual led display (when playing letters on virtual led display, better visual quality in real mode) refer to Virtual Display in Option, Set Brightess/Contrast/Color





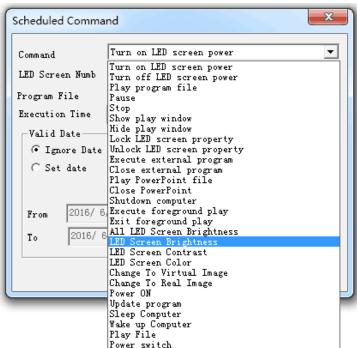
Note: For virtual led display, if **Virtual Display** does not enable, the virtual led display will be considered as real pixel led display, and only has 1/4 of visual size working. For example, a 384*256 virtual led display, will work as 192*128.

Power on: turn on computer

Update program: update program from server **Sleep computer**: put the computer in sleep mode

Wake up computer: wake up the computer from sleep mode

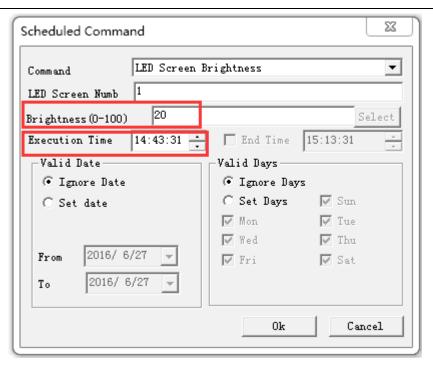
Example for creating a Schedule command



Click the Add button, the above interface will pop up, choose the option you need to set in the command properties drop-down list.

Take adjusting brightness for example





Select LED Screen Brightness in the Command option, input the the value of the brightness you need to adjust to, and set a Execution time.

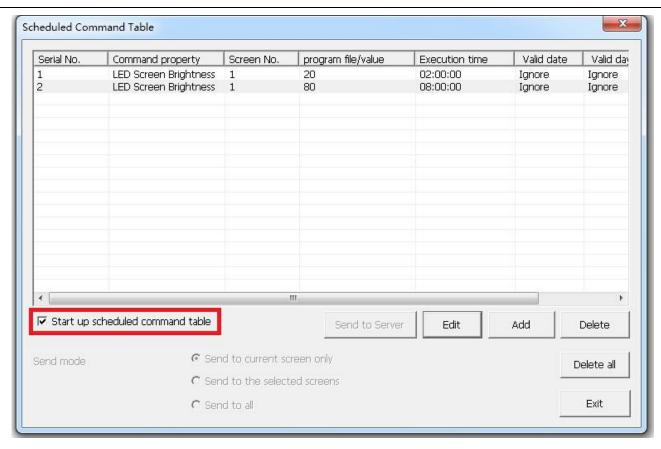
Note. (The End Time option is gray out for the brightness setting) You can only set the brightness value at a certain time, after that the brightness would be the same as the one you set all the time.

If you want to set the brightness of the led screen to 20 during 3am to 8am, you need to set two command. First set the brightness to 20 at 3:00, and set the brightness to other value at 8:00am.

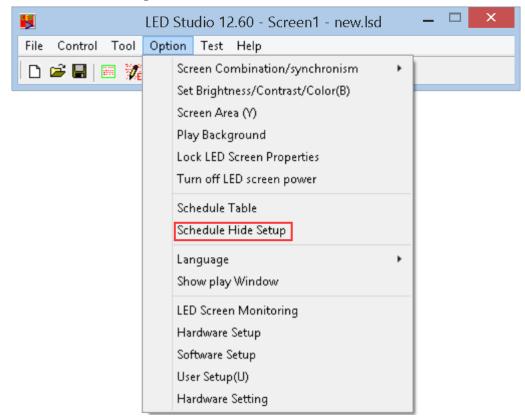
In the schedule table, you can also set the certain period for the option by selecting set date or set days.

After you set all the command, please choose the start up scheduled command table option to enable the function





3. 2. 4. 8 Schedule Hide Setup





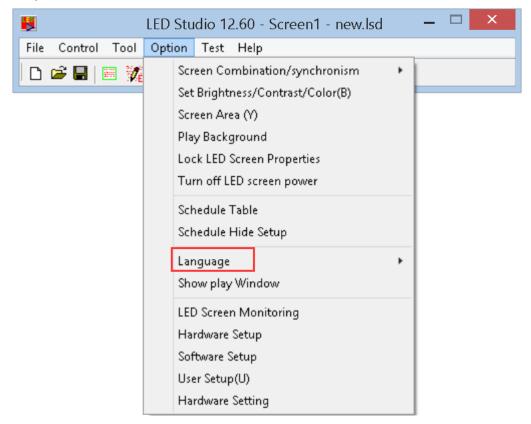
Scheduled Hide Setup				
✓ Enable :	Scheduled Hide	ı	0k	
Play Time	5	Minutes	Cancel	
Hide Time	5	Minutes		
Align by	1	Minutes		

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. 9 Language

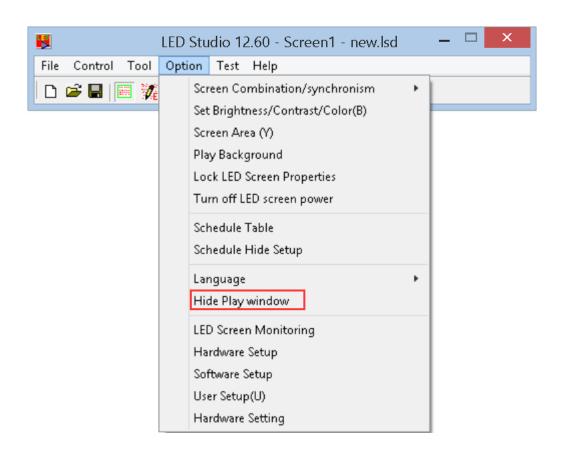
Change the LedStudio interface language. Ledstudio supports many interface languages, including: Simplified Chinese, Traditional Chinese, English, French, Japanese, Korean, Russian, Thai, Spanish, Polish, Italian, Portuguese, Turkish, Dutch, Greek, Bulharian, Arabic, Romanian and Deutsch.







3. 2. 4. 10 Hide/Show Play Window

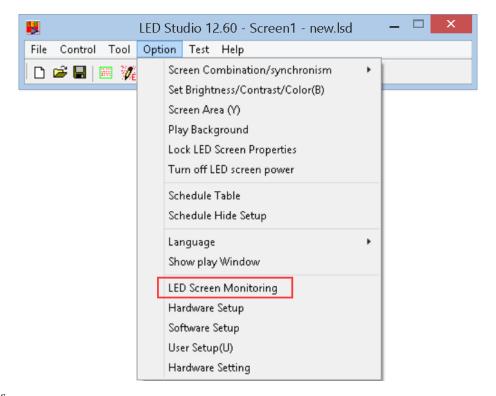




Hide Play Window: Hide the **Play Window**, **led display** will show the part of computer desktop (desktop within the Screen Area)

3. 2. 4. 11 LED Screen Monitoring

LED Screen Monitoring is control panel of Function Board/Card.



Monitoring Settings





LED Scre	een Monitoring	_ 🗆 🗙
Monitoring for screen Monitoring for Card/Cabinet		
Brightness Current brightness O Sensitivity Fog Current O Warning Level 127 Status off Power off when warning Humidity Inner Outdoor Outdoor	Temperature Inner Outdoor Amend Fan-on temperature Air conditioning-on temperature Fan Status Air conditioning Status Off Unit C Celsius Fahrenheit	Speed Fast
Switch Control		
Manual □ 1 PowerSw1 □ 2 Pow	verSw2	
Rename 4 FanSw1 5 AirC	onSw1 6 FanSw2	
□ Delay □ 7 AirConSw2 □ 8 Fans	Sw3 9 AirConSw3	
Power off when close LEDStudio		
Load from file Save to file Save		Slow

Brightness:

Current Bright: the current brightness read by external light sensor in Function Board

Min Bright: set the minimum brightness for auto- adjust brightness

Sensitivity: set the sensitivity value for light sensor

Fog

Current: Current value

Warning Level: warning value

Statues: on/off

Power off when warning: if enable, power relays on Function Board will be disconnected when warning level reaches

warning value.

Humidity:

Inner: Internal Humidity Value
Outdoor: External Humidity Value

Temperature:

Inner: the temperature value detected by internal temperature sensor **Outdoor**: the temperature value detected by External temperature sensor

Amend: if detected temperature differs from the environment temperature, amend the value.



www.linsn.com

Fan-on temperature: Set the temperature value to activate the fan relays of Function Board. Temperature is detected by

internal temperature sensor

Air conditioning-on temperature: Set the temperature value to activate air condition. Temperature is detected by internal

temperature sensor Fan Status: on/off

Air conditioning status: on/off

Switch Control

Manual: Manually switch on/off the power relays Rename: rename the names of power relays

Delay: when switch on/off the power relays, it delays 1 to 4 seconds.

Power off when close LEDStudio: if ticked, power replays will be switched off when the LEDStudio is closed t

Save to file: save settings as a .dat file

Load from file: load the settings from saved .dat file

Monitor card/box: read and show feedback data from every receiving card

Temperature: Temperature value

Humidity: humidity value **Smog:** the status of smog

Brightness: the brightness value

Fan1/Fan2: status of fan. 0 for off, 1 for on

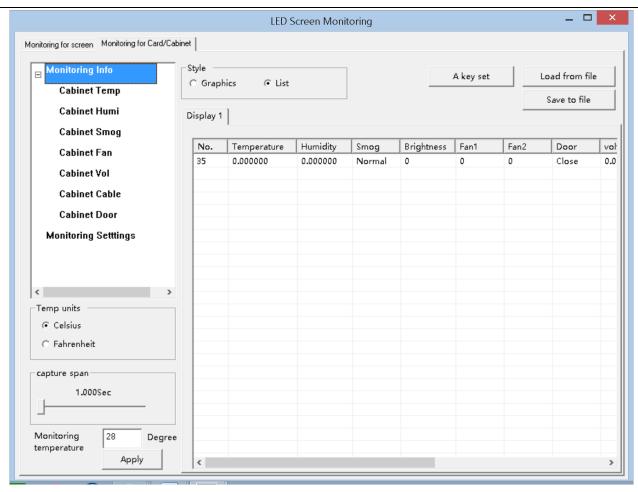
Door: the status of cabinet's door **Voltage**: the value of voltage

Unit: show value of temperature in Celsius or Fahrenheit

Monitoring temperature: set temperature value for monitoring

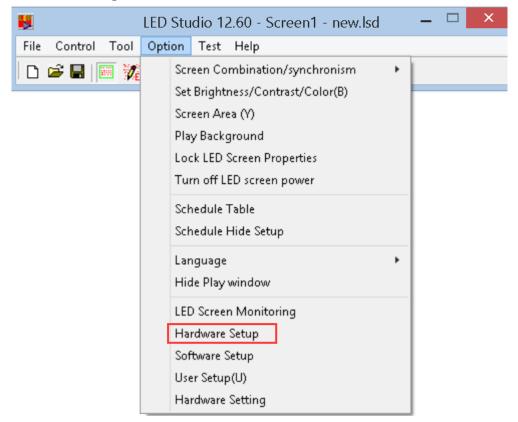


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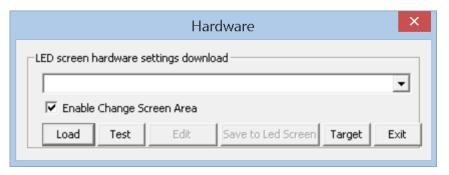


3. 2. 4. 12 Hardware Setup



Hardware Setup: to send **.CON** file (Display Connection setting file) and **.RCG** file (led display Driver for receiving card) to receiving cards





Load: to select the correct .CON file

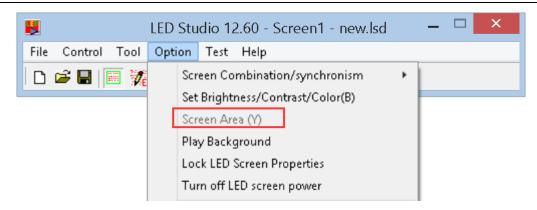
Test: test the selected .CON file on receiving cards

Enable Change Screen Area: allow the .CON file to change the size of Screen Area

Note: if Enable Change Screen Area is not ticked. The Screen Area will be Gray color as following screen shot.



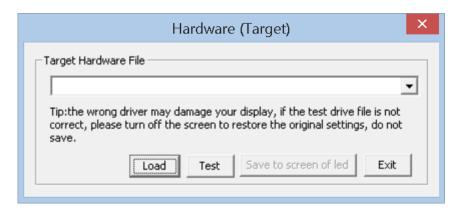




Save to Led Screen/led display: test before saving the .CON is required. If test result is correct, save to flash memory of receiving cards

Target: activate the window for uploading .RCG file





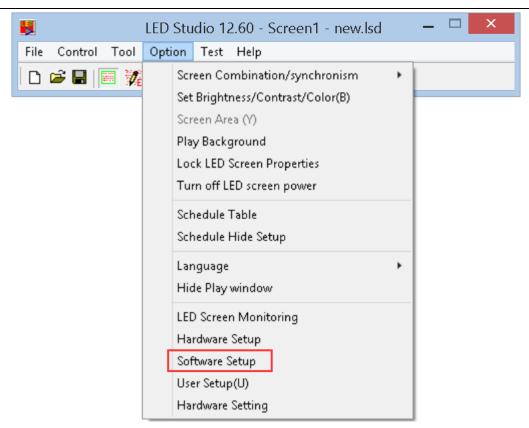
Load: to select the correct .RCG file

Test: test the selected .RCG file on receiving cards

Save to screen of led: test before saving the .RCG is required. If test result is correct, save to flash memory of receiving cards

3. 2. 4. 13 Software Setup





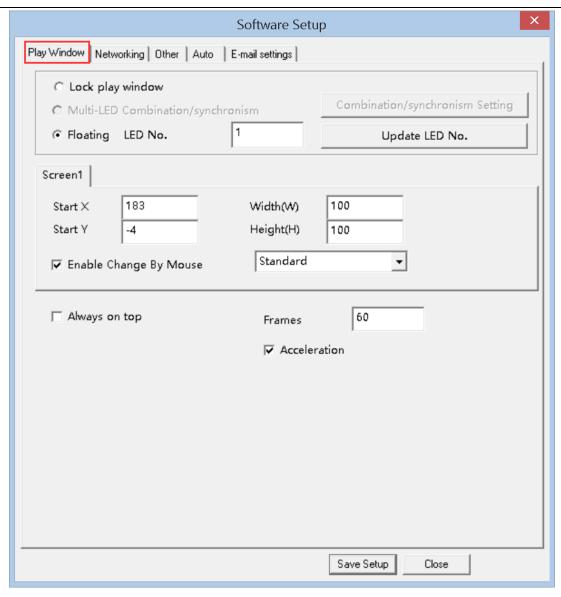
3.2.4.13.1 Play Window



Play Window Setting:







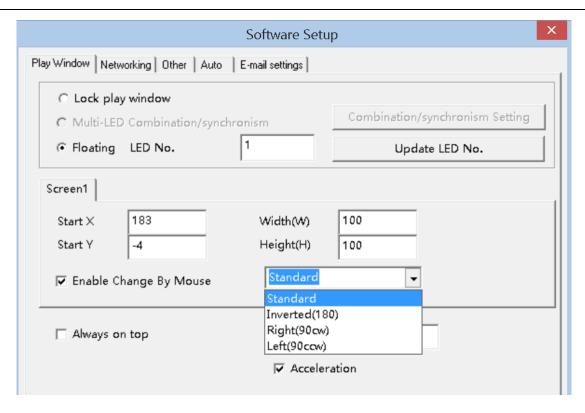
Always on top: if enable, Play Window will always on top

Frames: Set frames per second **Accelerator**: enable accelerator

Save Setup: save settings of Play Window









Standard



Inverted (180)



Right (90cw)



Left (90cw)



3.2.4.13.1.1 Lock to LED Screen

Lock to LED Screen: different from Lock LED Screen Properties.

It sets:

- 1. all Play Windows at (0, 0) position, and can't be edited
- 2. Size same as **Display Connection setting**. All **Play Windows** are locked so cannot be dragged by mouse.

3.2.4.13.1.2 Floating

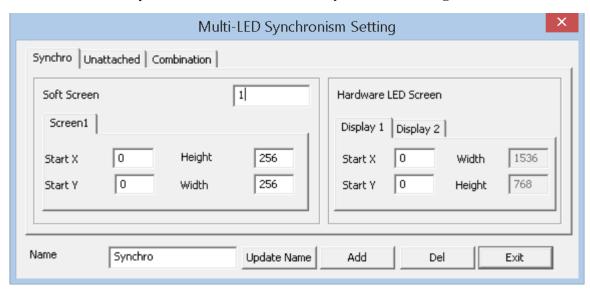
Floating: Play Window can be adjusted at

- 1. The quantity of Play Windows, in LED Numb, set Play Window quantity, click Update LED Numb
- 2. Start X, Start Y, of each **Play Window** (Screen1/Screen2...)
- 3. Size of each Play Window
- 4. Enable Change by Mouse: the Size, Position of each Play Window can be adjusted by mouse

3.2.4.13.1.3 Multi-LED Combination/synchronism

Multi-LED Combination/synchronism: set Profiles for Screen Combination/synchronism. Please refer to Screen Combination/synchronism (3.2.4.1). Note: Display QDY in Display Connection should be 2 or more.

Select Multi-LED Combination/synchronism. Click Combination/synchronism Setting



Name: Profile name

Update Name: change the Profile name and click update name to refresh

Add: add one Profile

Del: delete the selected Profile

Exit: Exit Combination/synchronism Setting



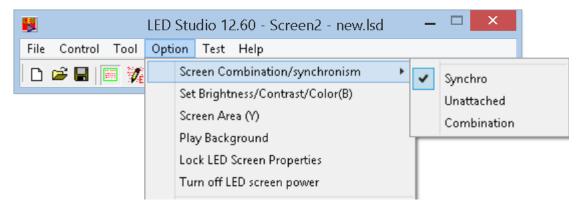
Soft Screen: set numbers of Play Window/Simulated Screen



Hardware LED Screen: read the numbers of Led display from Display Connection means one Hardware LED Screen)

(one Red rectangle

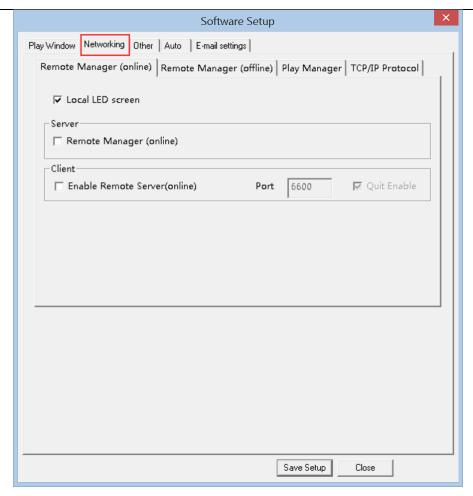
Start X: set the X position of (X, Y) coordination for the selected Soft Screen of Display **Start Y:** set the Y position of (X, Y) coordination for the selected Soft Screen of Display Now, the preset **Profiles** can be quickly switched.



3.2.4.13.2 Networking

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





3.2.4.13.3.1 Online/real time remote control

1. Define

Online remote control/real time remote control: allow the **Client Computer** to fully control the LEDStudio on the **Server Computer**.

Computer that directly connects to the led display is Server Computer

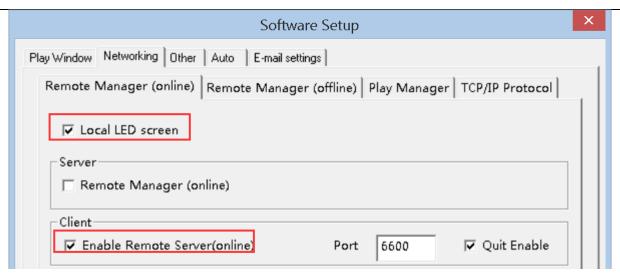
Computer that remotely controls the **Server Computer** is **Client Computer**

All the Server Computers can be controlled by the Client Computers in the local area network. If the **server computer** and **client computer** are not in local area network, the server computer must be local dial-up internet access.

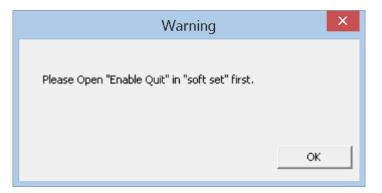
2. Settings

1. LedStudio settings on Server Computer: enables Local LED screen and Client Enable Remote Server(online), save setup

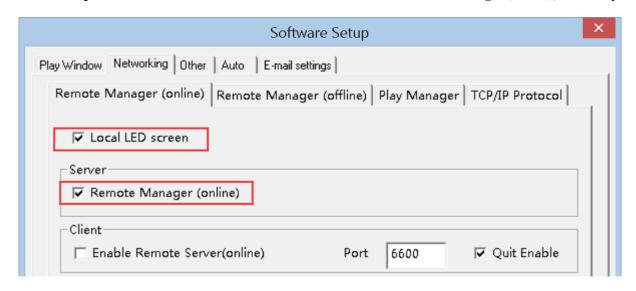




Note: Quit Enable, if unable it, LedStudio on server computer cannot be closed.



2. Client computer LedStudio, enable Local LED screen and Client Remote Manager (online), save setup.

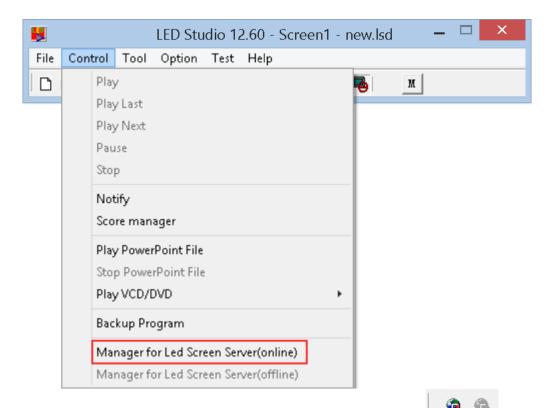


3. Client computer LedStudio, Remote LED Screen Manager(Online) Icon changes from inactivated status to activated status

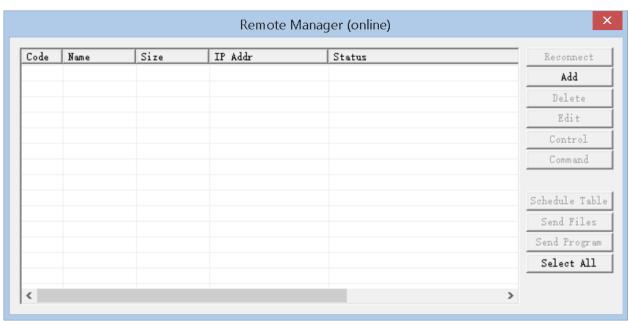




And Manager for Led Screen Server (online) is activated.



4. Client Computer LedStudio, Click Remote LED Screen Manager (Online) Icon , or Manager for Led Screen Server (online) under Contrl Menu, then the following window appears





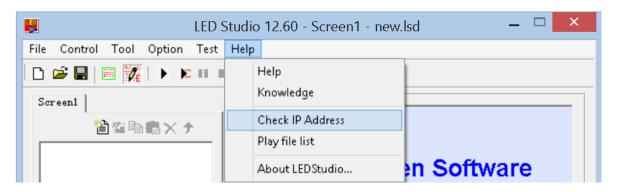
Click Add

Remote Server Setup				
Screen Name Server IP Address Server Port Screen Numb User Name User Password	6600 1 administrator	Ok Cancel		

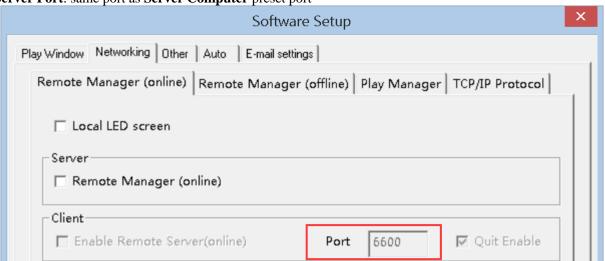
Screen Name: Type in the led display name (or leave it empty)

Server IP: Type in Server Computer's IP.

Tip: use the Check IP Address in Help Menu to check the Server Computer's IP



Server Port: same port as Server Computer preset port



Screen Numb: type in a number

User Name: the LedStudio User name of Server Computer

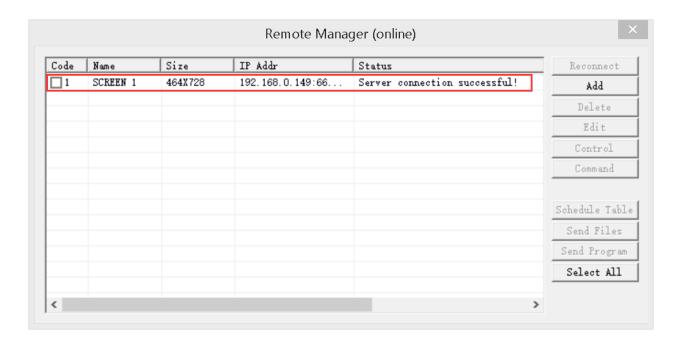
User Password: the LedStudio User password of Server Computer

Click Ok



3. Available Operations after Setting Up

When Client Computer and Server Computer is connected, in Client Computer LedStudio will have the following window.



1. Reconnect/Add/Delete/Edit/Control

Reconnect: try reconnecting to the added **Server Computer**

Add: add another Server Computer

Delete: delete a selected Server Computer

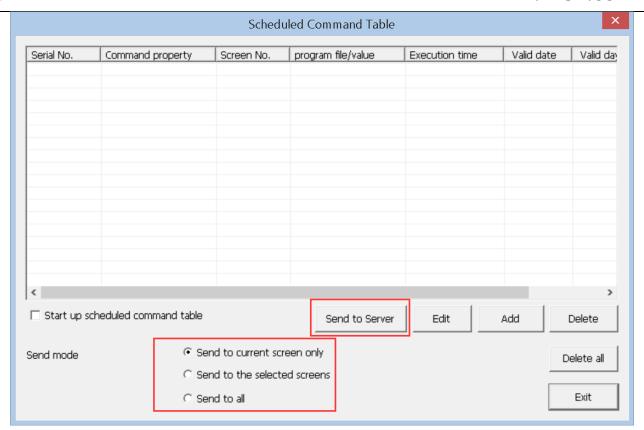
Edit: change info of selected Server Computer

Control: access to the **Server Computer**, realize Remote Desktop Control.

Command: send command to Server Computer

2. Schedule Table

Schedule Table: set Schedule Command Table (refer to 3. 2. 4. 7 Schedule Table) and send to Server Computer LedStudio



Send to current screen only: send the Scheduled Command Table to the current selected Server Computer Send to the selected screen: select the Server Computer(s) to send the Scheduled Command Table to Send to all: send to all: send to all Server Computers listed in Remote LED Screen Manager Online

3. Send Files

Send Files: send files from Client Computer to Server Computer

	Send File	X
Target DIR Source File		Send Exit Add Del
Same file name Send mode	C Overwrite	

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**

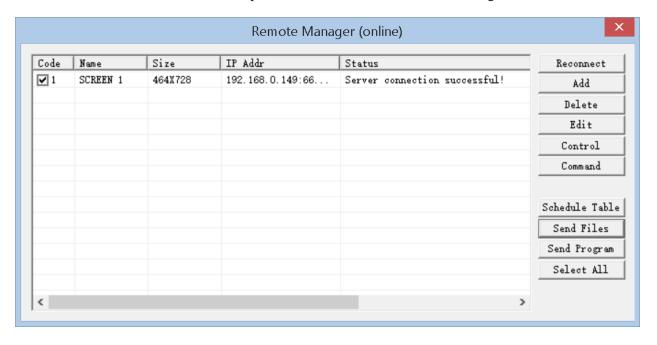
DIR file

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

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



4. Send Program

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



Send program ×				
Source	C:\Vsers\L\Desktop\Screen1.lsd Browse Send			
Dest	ProgramO Exit			
synchronization for time				
Pause playing when is sendding				
Send completed	C Do nothing			
	• Now playing			
	C Wait aired before playing			
Same file name	Overwrite			
Send mode	 Send to current screen only 			
	C Send to the selected screens			
	C Send to all			

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

Auto Play after receive the program: Server Computer LedStudio load and play the incoming .lsd file immediately when finishing receiving.

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

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

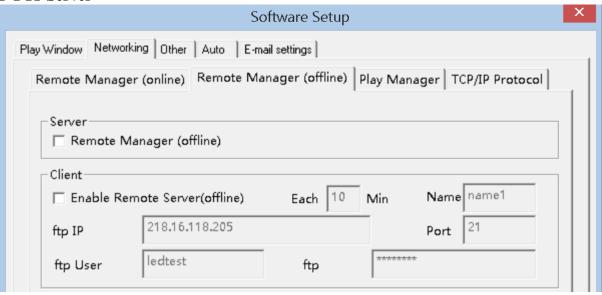
Send current only: send the Source .lsd file to the current selected Server Computer

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

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



3.2.4.13.3.2 FTP Server



1. Define:

Client Computer LedStudio uploads settings and files to FTP Server, then Server Computer LedStudio downloads and carries out.

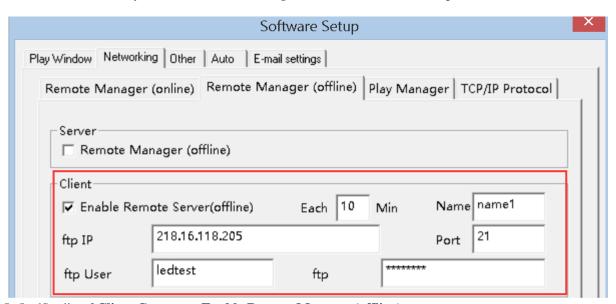
Computer that directly connects to the **led display** is **Server Computer**

Computer that remotely controls the **Server Computer** is **Client Computer**

Before **Settings**, the **FTP Server** should be setup and ready.

2. Settings:

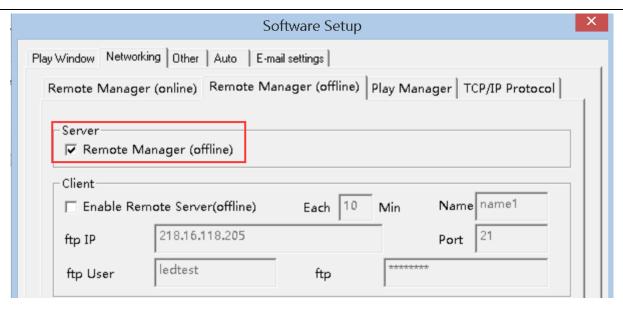
Enable Remote Server (offline) in LedStudio of Server Computer
 Type in the FTP info: FTP IP, Port, FTP User (name), FTP Password
 10 Minute: means every 10 minutes Server Computer LedStudio will fetch updates from FTP server



2. In LedStudio of Client Computer Enable Remote Manager (offline)



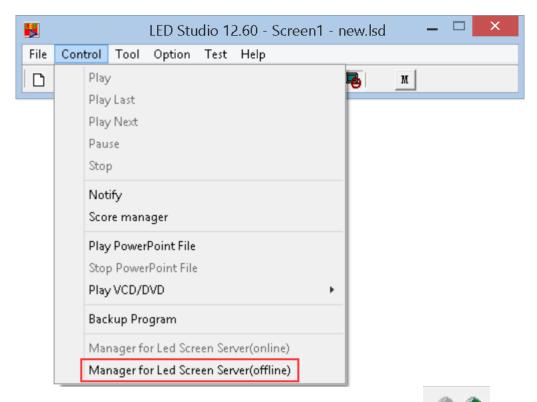




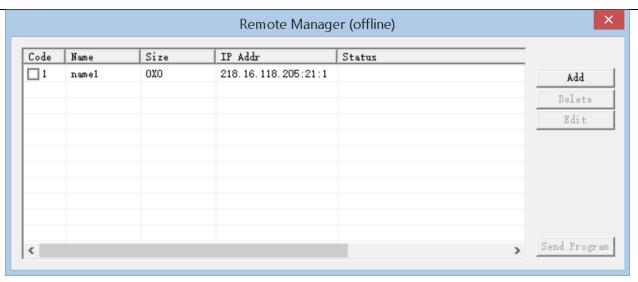
3. Then in Client Computer LedStudio Remote LED Screen Manager(offline) Icon changes from inactivate to activate



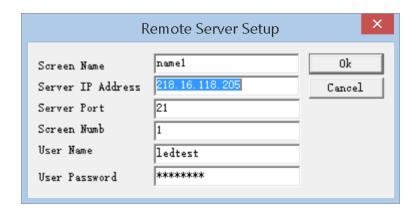
And Manager for Led Screen Server (offline) is activated.



4. Client Computer LedStudio, Click Remote LED Screen Manager (offline) Icon Screen Server (offline) under Contrl Menu, then the following window appear



Click Add



Type in the **same FTP Server info** as the **Server Computer Screen Name**: Name for the Server Computer Led Display

Server IP Address: the same IP address as in Server Computer (ftp IP)

Server Port: Same as Server Computer

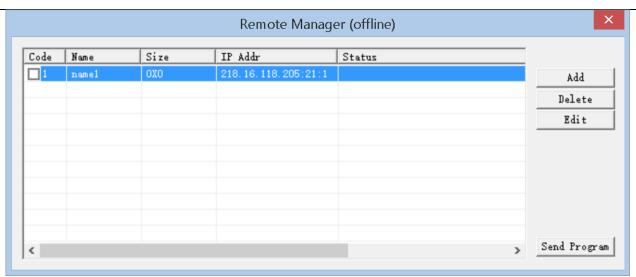
Screen Num: type in a number

User Name: the LedStudio User name of ftp

User Password: the LedStudio User password of ftp

Cick OK





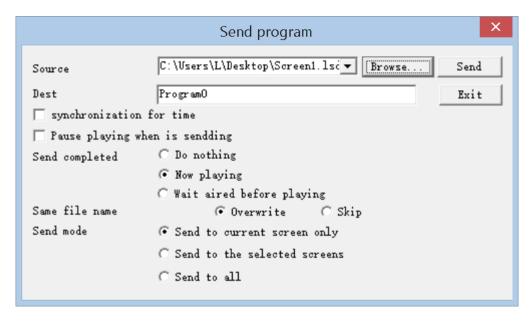
Add: add another FTP server

Delete: delete the selected FTP server **Edit**: edit the selected FTP server

3. Available Operations

1. Send Program

Send Program: send .lsd program from Client Computer to FTP Server Computer



Source: the outgoing .lsd file

Dest: Destination. FTP 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 FTP Server Computer

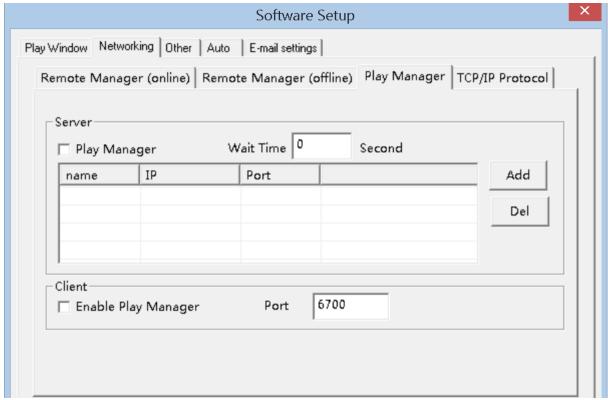
Same file name Overwrite: if Dest has an .lsd file with the same name of Source, Source .lsd File replaces the Dest .lsd



file

Same file name **Skip**: if **Dest** has an .lsd file with the same name of **Source**. Isd File skips transmitting the .lsd file **Send current only**: send the **Source** .lsd file to the current selected **FTP Server Computer Send to the selected screens**: select the **FTP Server Computer(s)** to send the **Source** .lsd file to **Send to all**: send **Source** .lsd file to all **FTP Server Computers** listed in **Remote LED Screen Manager (offline)**

3.2.4.13.3.3 Play Manager



Play Manager: works with Online/real time remote control

1. Define:

Computer that directly connects to the **led display** is **Server Computer** Computer that remotely controls the **Server Computer** is **Client Computer**

Purpose: Set all the listed Server Computers Play/ Stop synchronously



2. Settings:

Note: Server Computers are set online remote control/real time remote control

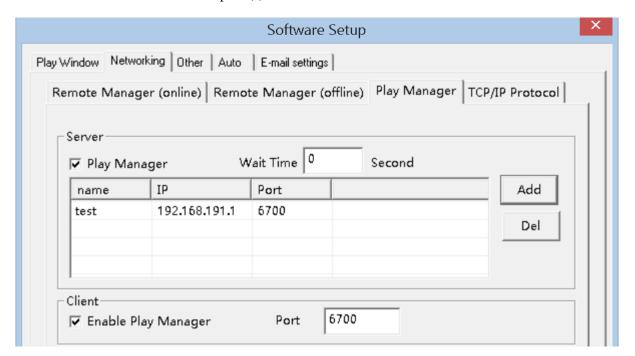
1. Server Computers Enable Play Manager



Client—		
▼ Enable Play Manager	Port	6700

2. Client Computer Enable Play Mnager

Add: add the Server Computes to the list **Del**: Delete the selected Server Computer(s)



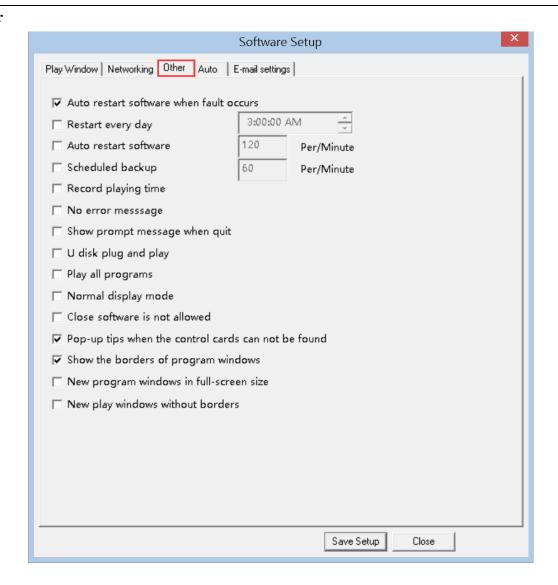
3. Save Setup.

Click Play/Stop, all the listed Server Computers will Play/Stop synchronously





3.2.4.13.4 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)

Scheduled Backup: automatically back up files of .lsd file every preset time

Record playing time: record the playing time

No error message: 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 disck as priority

Play all programs: If enabled, all programs will be played at the same time

Normal Display: For No-Sending Card Mode Only. LedStudio capture the contents of **Screen Area** and send directly to receiving cards.

Close software is not allowed: If enabled, the software can't be closed

Pop-up tips when the control cards can't be found: A message will be popped out when the the

control cards can't be found

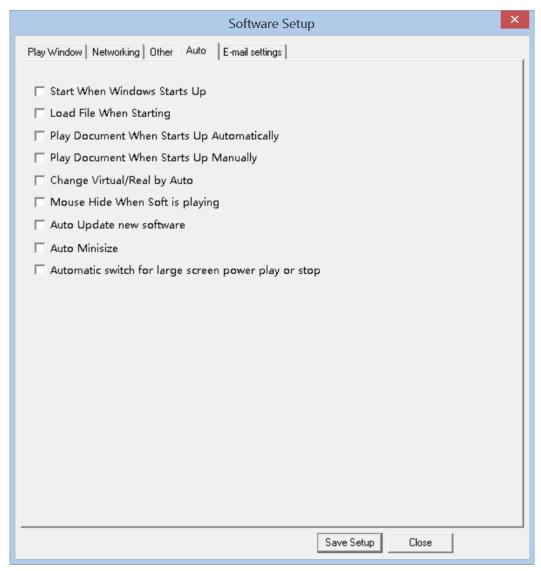
Show the borders of program windows: Show the borders of play window, so the size of play window can be changed by mouse

New program windows in full-screen size: the new program windows will be created in full-screen size

New play windows without borders: the new created play windows don't have borders



3.2.4.1.5 Auto



Auto settings:

Start when Windows Starts up: open LedStudio when Windows starts up

Load File when Starting: Load .lsd file automatically when open LedStudio

Play Document when starts up automatically: start playing files of .lsd file automatically

Play Document when starts up manually: start playing files of .lsd file when click play

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.

Mouse hide when soft is playing: hide the mouse pointer in Play Window when Play Window is playing.

Auto update new software: automatically update LedStudio software

Auto minimize: Minimize LedStudio automatically

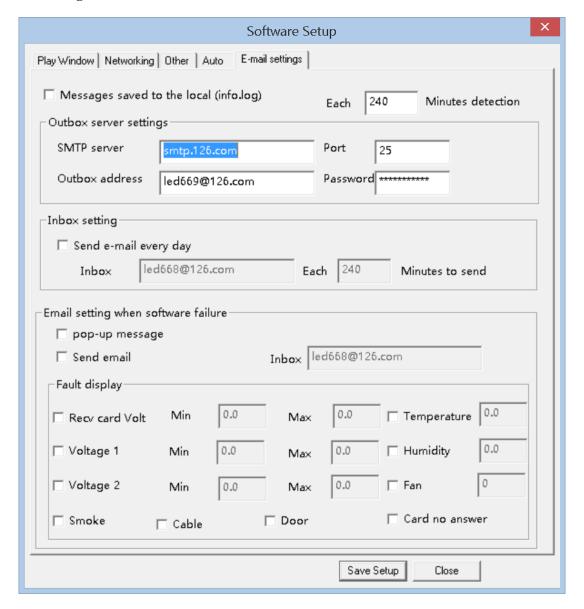
Automatic switch for large screen power play or stop: the power of screen automatically power on/off according to the



status of programs

Save Setup: save settings

3.2.4.1.6 Email settings



Outbox server settings:

SMTP server: the SMTP server address of outbox

Port: the SMTP server port of outbox

Outbox address: the any valid email address for outbox

Password: the password of outbox email

Inbox settings:

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)

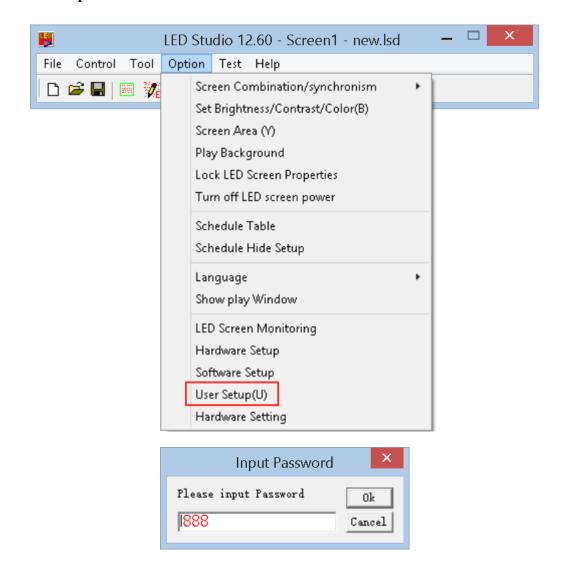
Each** minutes to send: the interval time for receiving mail

Email setting when software failure: the email setting when a fault occurs to receiving cards



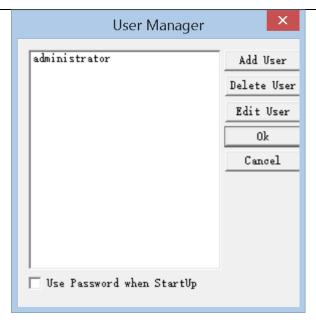
Fault display: setting the monitoring data for alert email. If ticked, email will be sent automatically when detected value is less that min value or more than max value.

3. 2. 4. 14 User Setup





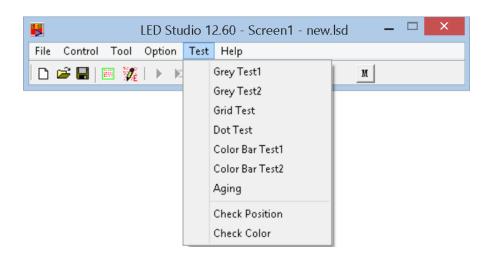




Add User: add a new user account for LedStudio Delete User: delete a selected User account Edit User: Edit the selected User account info

Use Password when Startup: when open LedStudio, it asks password to unlock.

3. 2. 5 Test Menu



3. 2. 5. 1 Grey Test 1

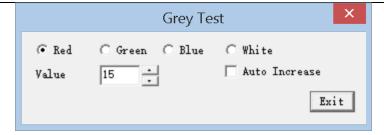
Grey Test1: test Grey level from 0-255 in sequence of Red, Green, Blue, White

3. 2. 5. 2 Grey Test 2

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



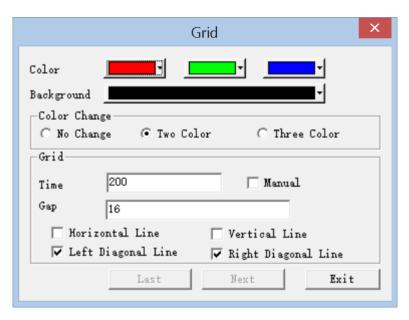




Auto Increase: continue testing next grey level up to 255. Then test again from 0 to 255.

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

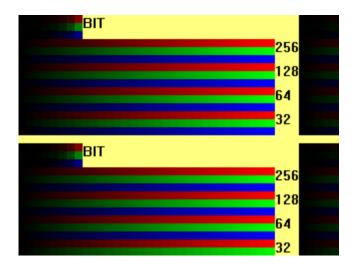
Dot Test: check for bad pixels





3. 2. 5. 5 Color Bar Test 1

Color Bar Test1:



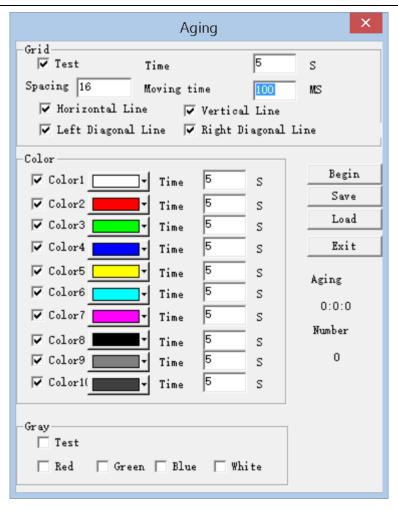
3. 2. 5. 6 Color Bar Test 2

Color Bar Test2: Choose color for color bar test

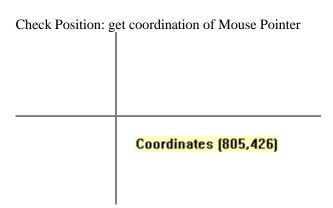


3.2. 5. 7 Aging

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



3. 2. 5. 8 Check Position

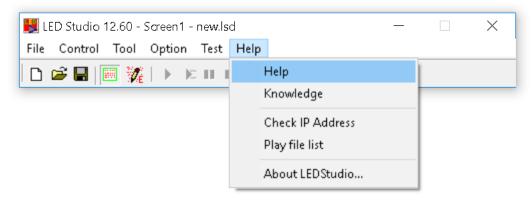


3. 2. 5.9 Check Color

Check Color: get RGB value



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

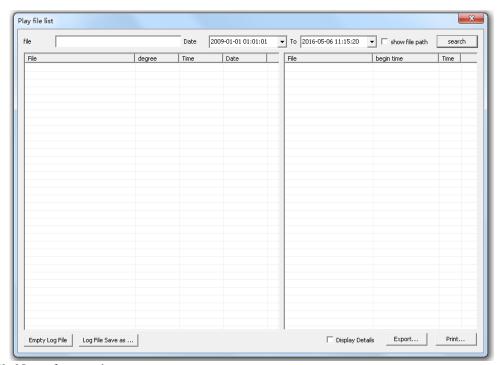
Check IP Address: get the IP Address of computer

3. 2. 6. 4 About LEDStudio

About LedStudio: show LEDStudio Version

3. 2. 6. 5 Play File List

Play file list: can 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

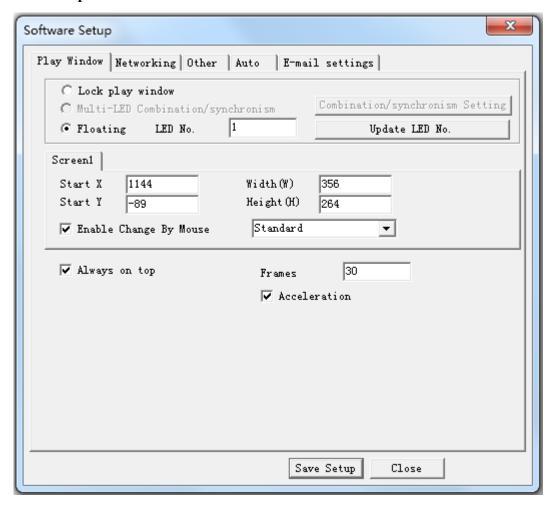
Print: print the search result

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







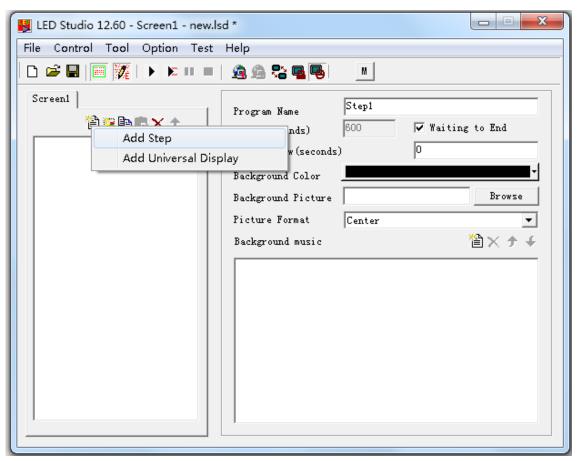
Start X and Start Y is (0, 0); Width & Height

2) Select **Lock to LED Screen**. LedStudio will set the Play Window size according to .CON file and Or Select **Floating** to adjust Play Window manually. (Refer to **Software Setup Play Window**) page 39

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: Program can play cycle

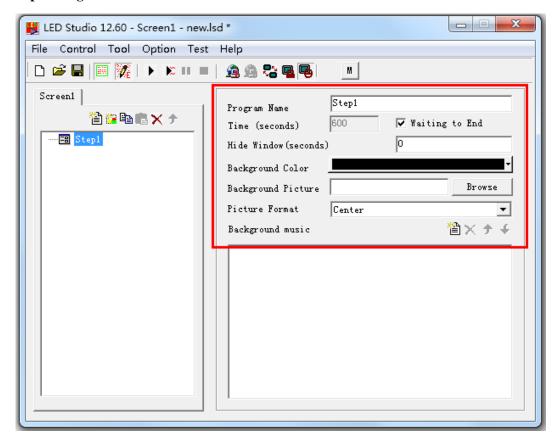
Add Universal Display: this kind of Step have loop play independently. **Universal Display** is always at an upper layer of **Add Step**. Usually for Company Logo,etc.

Note: only one Unversal Display in an .lsd file

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, 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**.

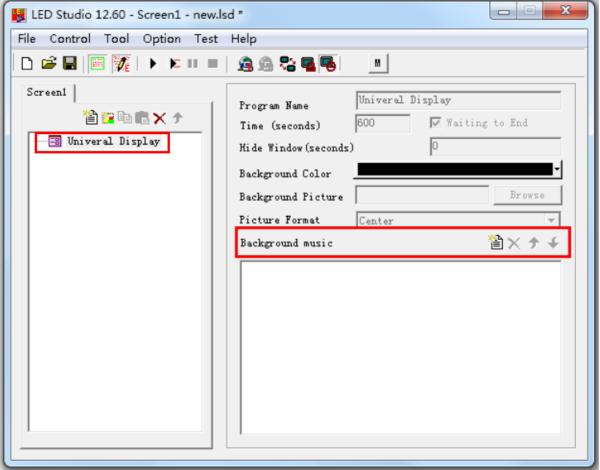
Hide Window (Second): Hide Play Window for preset seconds when Step1 is finished. In the same time, Step 2 is playing.

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 Unversal 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)



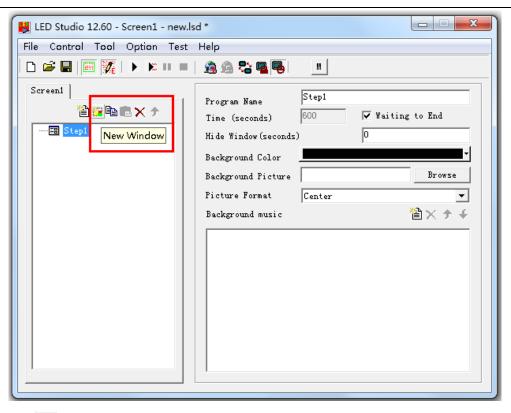
To delete a program page, use the delete button X.

To change the order of page, use the moving button \uparrow , \checkmark .

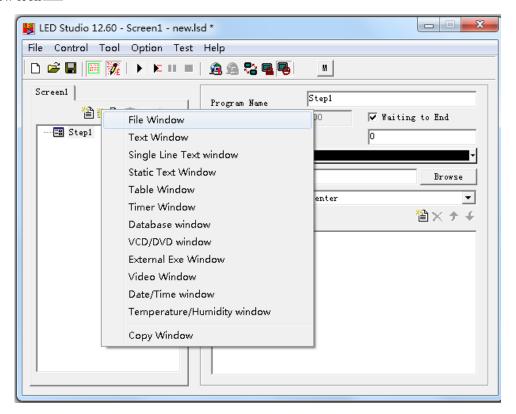
3. 3. 3 Add New Window

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





Click: New Window icon



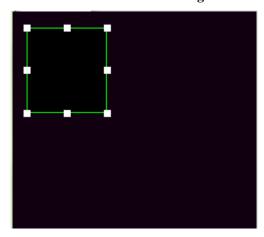


3. 3. 3. 0 Important Notes:

Name File	Frame None 🔻	Standard 🔻
StartX 20	Width 178	Lock
StartY 20	Height 132	Timer

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

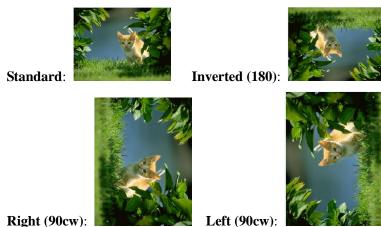
File(s) Showing Area Settings: the Showing Area (the green rectangle) is inside the Playing Window. All files of File Window will show inside the Showing Area.



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

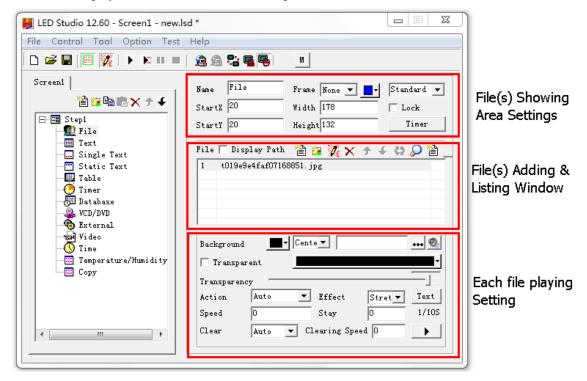


seconds. Time Window is hidden besides that every 30 seconds.

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.

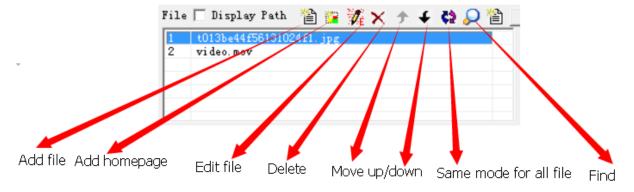


3. 3. 3. 1.1 File(s) Showing Area Settings

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

Edit File: edit the selected file. Open and edit

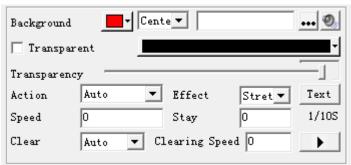
Delete: delete the selected file **Find**: find file(s) in the list

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 effects 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

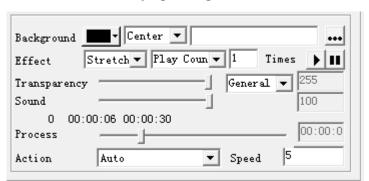
Text: add text

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

Stay: time duration for file to stay **Clear**: how the file is cleared out

Clr speed: clear out speed. The larger value, the slower 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: the Center/Zoom/Stretch/Tile effect

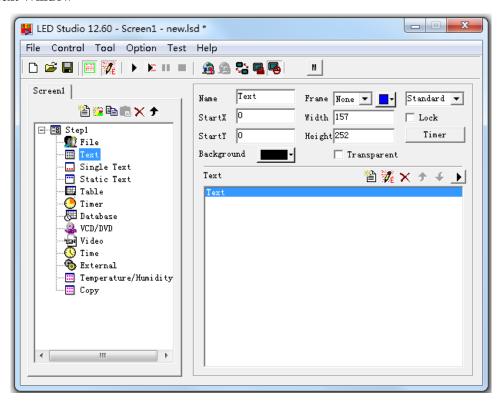
: test play

Sound: 0-100. Adjust the sound of the video **Process**: show current playing time of video

Action: how video come in

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

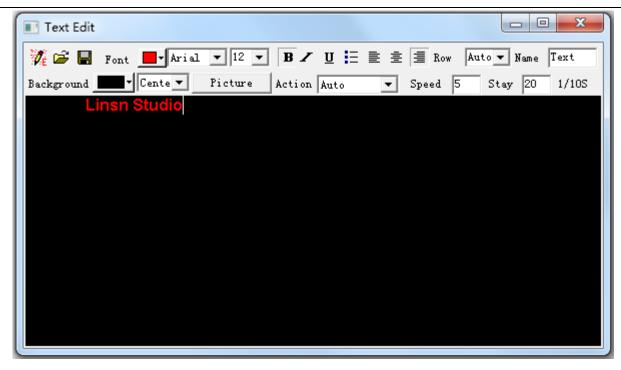
3. 3. 3. 2 Text Window



Transparent: Transparent the Showing Area background color









Background color

Pict: picture, background picture.

Center/zoom/stretch/tile effects for background picture

Action: action for background picture

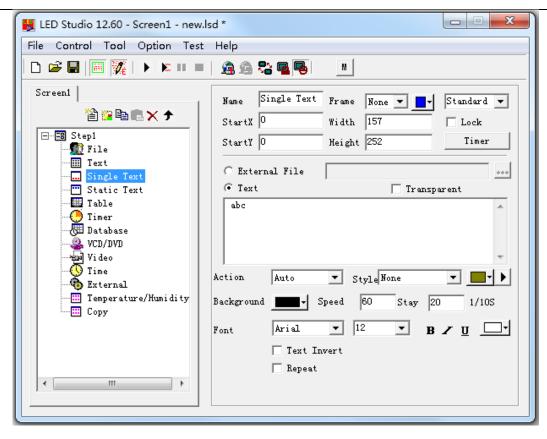
Speed: background picture coming in speed. The larger value, the slower speed

Stay: time duration for background picture to stay

3. 3. 3 Single Line Text Window

Single line text window: to play single line text window





Transparent: only work when **Showing Area** background color is Black. Transparent the black color 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.

: test play

Background: background color for the text

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

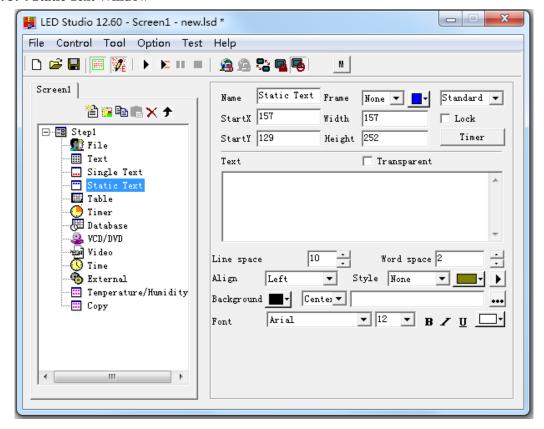
Stay: time duration for text to stay

Font: Font settings for text **Text invert**: abc ---- cba

Repeat: abc---abcabcabcabcabc



3. 3. 4 Static Text Window



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

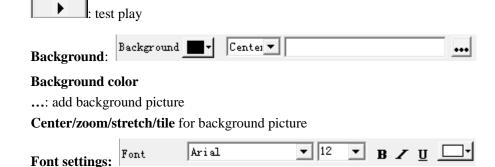
Text: text input

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





3. 3. 3. 5 Table Window

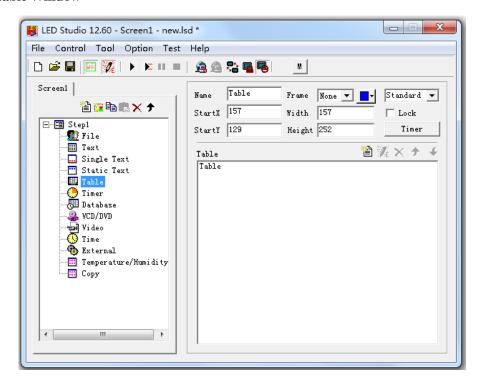


Table Window: Used to edit the play list data.

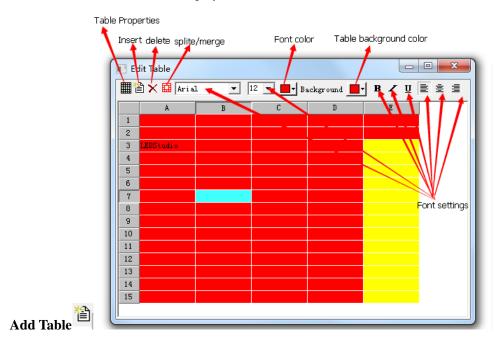
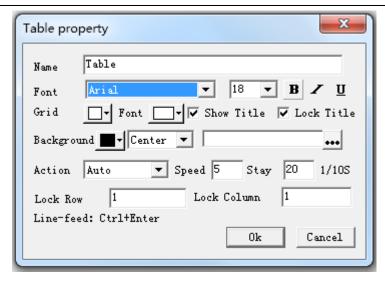


Table Properties:





Name: Title name of the table 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

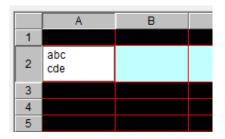
Speed: table coming in speed. The larger value, the slower speed

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.

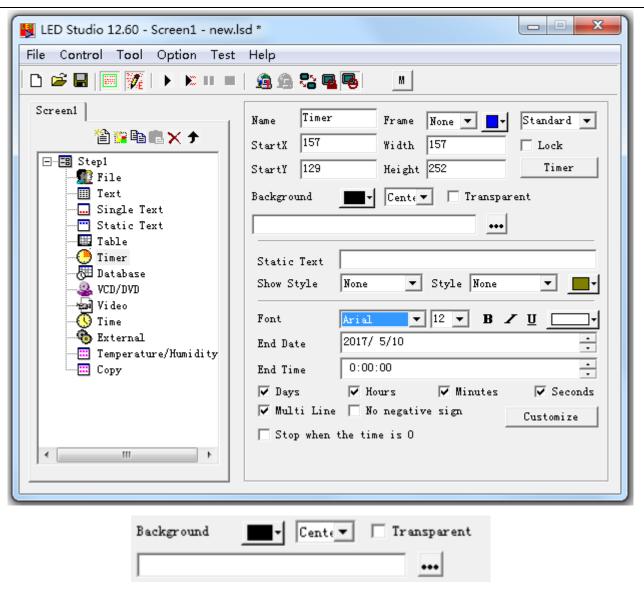
Ctrl+Enter: start a new line within a single table



3. 3. 6 Timer Window

Timer window: Used for countdown





Bkg: 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. Transparent the black color and show **Step background color** instead.



Static Text: text input

Style: add effects to text and color for effect







End Date	2017/ 5/10		•
End Time	0:00:00		
✓ Days	✓ Hours	✓ Minutes	Seconds
✓ Multi Line	☐ No negative	sign	Customize
Stop when	the time is O		

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.

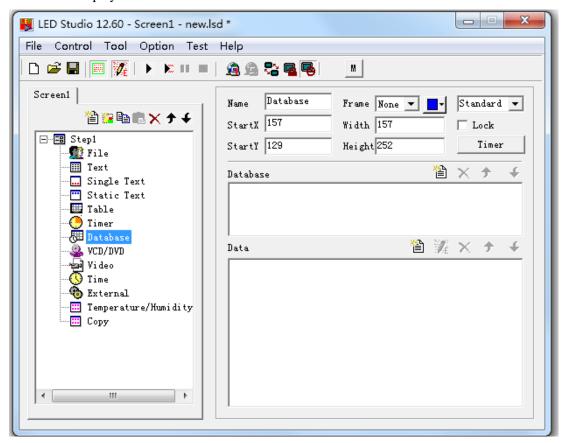
Zero stop: stop when Timer finish countdown

Customize: customize the time format for countdown



3, 3, 3, 7 Database Window

Database window: Used to play ACCESS database and ODBC driver data base.





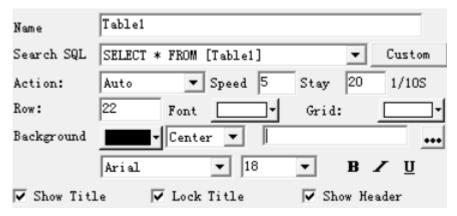


Database Settings



Database Prope	erties	X	
Search SQL Action: Row: Background	Table1 SELECT * FROM [Table1]	eview Ok	
Show Title Lock Title Show Header			
ID name sex age addr	Text	efine	
Move Up	Font: Arial ▼ Align: Left Move Down Size: 12 ▼ B ✓	<u>U</u>	

Table Properties



Find SQL: select the database that you want

Scripti-: Scripting

Action: effects for how the table comes in Showing Area

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

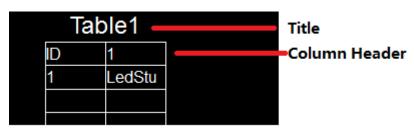
Font settings for Table 1:

Arial ▼ 18 ▼ **B Z** <u>U</u>

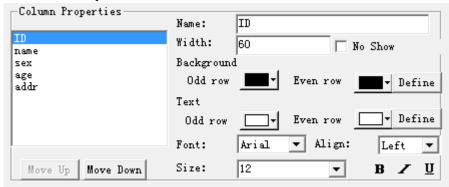
Show title: hide/show Table title

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

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



Column Properties



Name: column name

Width: column width in pixels

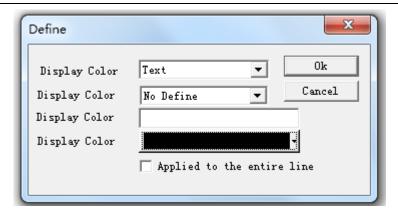
No Show: hide the selected column

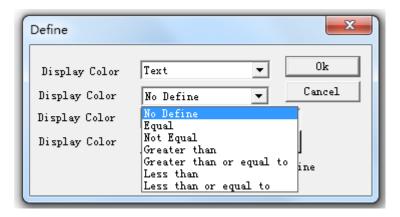


Background odd: background color of column header **Background even**: background color of column data

Text odd: column header font color **Text even**: column data font color **Define**: define a rule to apply color







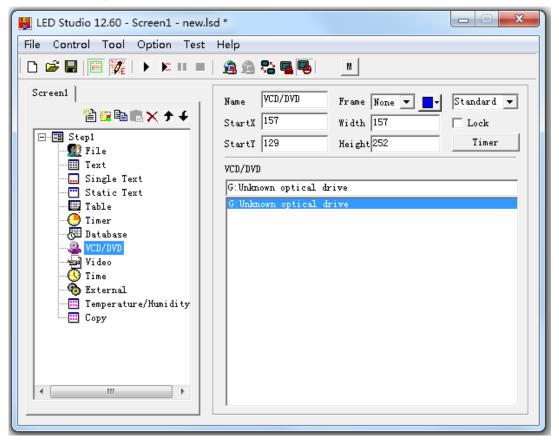
Font settings of selected column:





3. 3. 3. 8 VCD/DVD Window

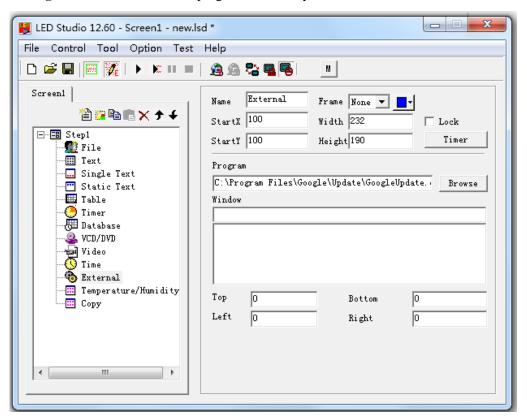
DVD/VCD window: play DVD/VCD in Showing Area





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 a .exe listed to run in Play Window

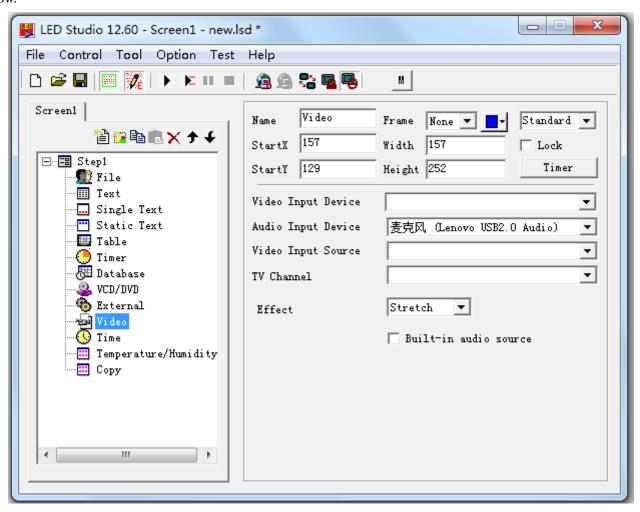
Top/Bottom/Left/Right Margin: set the position of the .exe program



3. 3. 3. 10 Video Window

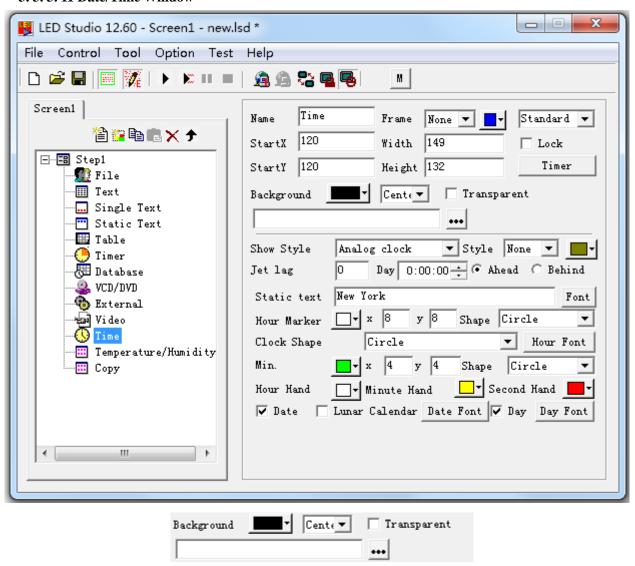
Video Window: Read Video/audio source from capture card and show on Play Window

LEDStudio will detect what video/audio sources are available from the computer. Select a source and show on Play Window.





3. 3. 3. 11 Date/Time Window

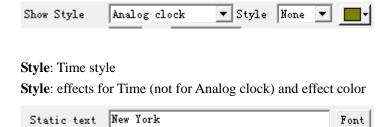


Background color for Time

Center/zoom/stretch/tile for background picture

...: background picture for Timer

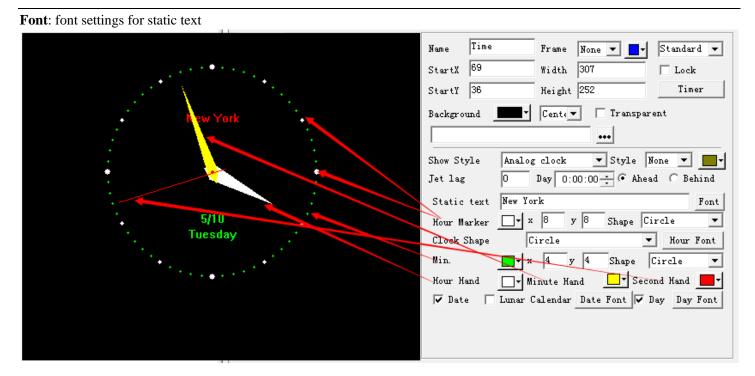
Transparent: only work when **Showing Area background color** is Black. Transparent the black color and show **Step background color** instead.



Static text: text show together with Time



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Time Day Ahead/Behind: adjust the Time Ahead or Behind computer time

Hour X, Y: width and height for Hour

Minute X, Y: width and height for Minute

Clock: shapes for Analog clock

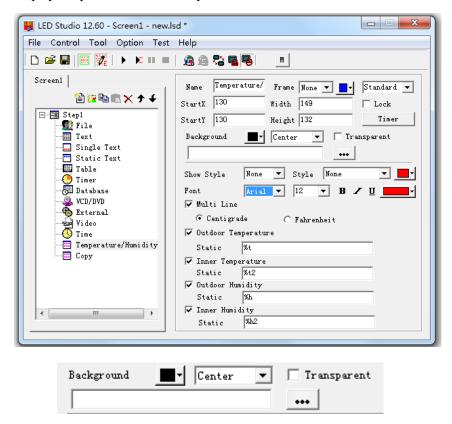
Hour Font: font setting when shape is Digit

Date/Day: show/hide Date/DayDate Font/Day Font: font settings



3. 3. 3. 12 Temperature/Humidity Window

This is used to display temperature and humidity.



Background color: means the backgroungd 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. Transparent the black color and show **Step background color** instead.



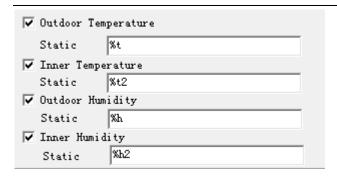
Font settings for Text.

Multi-line: show between multi-line and single line



Show temperature in different unit





Add text before/after Temperature/Humidity Value

3. 3. 3. 13 Copy Window

StartX, StartY: 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
- : Play current program
- II : Pause
- : Stop
- : To play .lsd file a saved before.



4.4 3D Display

Load and open the video 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.

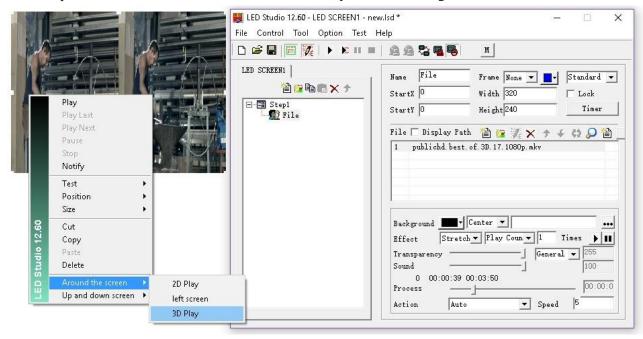


Figure 1 Settings for around the screen type video

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

