LEDStudio
User’s Manual

V12.64
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Chapter 1 Introduction

1.1. Features

LEDStudio V12.64 is a LED Display software for Linsn LED Display Control System. By using LEDStudio V12.64 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 LEDStudio V12.64

Compared to the classic LEDStudio V9.6-12.63, this new version 12.64 has the following features:

● You can add videos/pictures by dragging them to the certain area, see Tips at page 49
● 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 page 54
● One-click to set the whole software back to factory mode, see Tips at page 22.
Chapter 2 Installation

2.1. Installation

Follow the steps below to install and run LEDStudio V12.64

1. Download LEDStudio V12.64 (contains LedSet installer) from 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 manual)

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

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.
3.2.4. Pause

Pause: pause playing file.

3.2.5. Stop

Stop: stop playing.

3.2.6. 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

---

Official website: www.linsn.com
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

Official website: www.linsn.com
Part 2 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

Part 3 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).

Part 4 Customize

- Show All: show both the time and score you set on the play window
- Show Time: only show the time you set on part 1 & 2 to the play window
- Show Score: only show the score you set on part 3 to the play window
- Stop: stop showing the score message
- Exit

Official website: www.linsn.com
Example of using Score Manager

Score Manager

LED: All Screen
Play time: 0 Sec.

Time (Second)
Top: 30
Right: 10
Countdown: 5 Sec

Score
New team
Score
Guest team
Language: AA
Language: ee
Picture: Picture
Language: ee
Language: ee
Picture: Picture

Customize
Start X: 0
Width: 220
Start Y: 0
Height: 220
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
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.

---

**Official website**: www.linsn.com
### Scheduled Command Table

<table>
<thead>
<tr>
<th>Serial No.</th>
<th>Command property</th>
<th>Screen No.</th>
<th>Program file/value</th>
<th>Execution time</th>
<th>Valid date</th>
<th>Valid day</th>
<th>End Time</th>
</tr>
</thead>
</table>

- **Start up scheduled command table**: select to enable Scheduled Command
- **Send to Server**: applied in Remote LED Screen Manager Online mode
- **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 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**

**Official website: www.linsn.com**
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.

### 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, 55 minute 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. Then, 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

Part 1. Play window parameter:

<table>
<thead>
<tr>
<th>Play window parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Update LED No." /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screen1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start X: 189</td>
</tr>
<tr>
<td>Start Y: 152</td>
</tr>
<tr>
<td>Width (W): 320</td>
</tr>
<tr>
<td>Height (H): 210</td>
</tr>
<tr>
<td>Enable Change By Mouse</td>
</tr>
</tbody>
</table>

- **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 (90cw)**
Part 2. Play window properties

<table>
<thead>
<tr>
<th>Play window properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Always on top</td>
</tr>
<tr>
<td>Show the borders of program windows</td>
</tr>
<tr>
<td>New program windows in full-screen size</td>
</tr>
<tr>
<td>New play windows without borders</td>
</tr>
<tr>
<td>Normal display mode</td>
</tr>
</tbody>
</table>

- 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

Part 3. Play properties

<table>
<thead>
<tr>
<th>Play properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
</tr>
<tr>
<td>Acceleration</td>
</tr>
<tr>
<td>Record playing time</td>
</tr>
<tr>
<td>Play all programs</td>
</tr>
<tr>
<td>Mouse Hide When Soft is playing</td>
</tr>
<tr>
<td>Play Document When Starts Up Automatically</td>
</tr>
<tr>
<td>Play Document When Starts Up Manually</td>
</tr>
</tbody>
</table>

- 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).
3.2.4.2.1. 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.

![Remote Manager (online) settings]

- **Client** (*Remote Manager (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 server 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 server computer. Then click ok.
5. After selecting the desired server computer, the rest of the options will be enabled.

- **Reconnect**: reconnect to the added server computer.
- **Add**: add a new server computer.
- **Delete**: delete a selected server computer.
- **Edit**: edit the information of the server computer.
- **Control**: access to the server computer’s desktop to realize remote desktop control.
- **Schedule Table**: set the schedule command table (refer to page 15) 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: quit Send File window

Add: add a file to Source File

Delete: 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

Official website: www.linsn.com

20171128
Send program

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
Skip
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 server computer’s address in the pop-up interface below.

Official website: www.linsn.com
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

Official website: www.linsn.com
3.2.4.6.2.3. Play Manager

Play Manager: works with Online/real time remote control

Remote server setting

- Display name
- Server IP address
- Server port: 6700

TCP/IP Protocol

- Allows receive: For sending command to control the software

3.2.4.6.3. E-mail settings

- Messages saved to the local (info.log)
- Outbox server settings
  - SMTP server: smtp.126.com
  - Outbox address: led569@126.com

Messages saved to the local (info.log):

Official website: www.linsn.com
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

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)

Email setting when software failure

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
Recy 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
- Restart every day: 3:00:00
- Auto restart software every preset minute(s)
- Scheduled backup: 60 Per/Minute
- No error messages: when fault occurs, no prompt allowed
- Show prompt message when quit
- U disk plug and play
- Close software is not allowed
- Enable the hardware-setting interface zoom function: When the desktop height is less than 800

- 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

Official website: www.linsn.com
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 Test 1: test Grey level from 0-255 in sequence of Red, Green, Blue, White

3.2.5.2. Grey Test 2

Grey Test 2: 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

<table>
<thead>
<tr>
<th>Select Color</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Green</td>
<td>Red+Green</td>
</tr>
<tr>
<td>Blue</td>
<td>Red+Green+Blue</td>
</tr>
</tbody>
</table>

3.2.5.7. Aging

Aging test is used for the aging LED screen and receiving cards
### 3.2.5.8. Check Position

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

Coordinates (805,426)

### 3.2.5.9. Check Color

**Check Color:** get RGB value

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Official website: [www.linsn.com](http://www.linsn.com)
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
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 Picture: Center/Zoom/Stretch/Title the background picture

Background music: 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**, and **Delete icon**, are activated.
Click: New Window icon
Important Notes:

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

Standard: Inverted (180):

Right (90cw): Left (90cw):

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 webpage 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.

3.3.3.3. File Playing Settings
3.3.3.3.1. 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.

### 3.3.1.3.2. Video Playing Settings

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

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

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

**Official website: www.linsn.com**
3.3.3.2. Text Window

**Sound**: adjustment for the sound of the video, ranging from 0 to 100.

**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

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

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

Open: open a .txt file

Save: save as .txt file

Font settings:
Name: default as Text

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

Official website: www.linsn.com
**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.

![Play button] : test play

**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----abcdefabcdefabcdef

**Official website:** 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.

![Color Text](image)

3.3.3.4. Static Text Window

![Static Text Window](image)

**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

**Official website:** www.linsn.com
Word space: space of neighboring words
Align: left/center/right/left & right
Style: add text effects and color of effect

Background:

Background color
...: add background picture
Center/zoom/stretch/tile for background picture

Font settings:

3.3.3.5. Table Window

Table Window: Used for editing the play list data.

Add Table
Table Properties:

Table property

<table>
<thead>
<tr>
<th>Name</th>
<th>Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font</td>
<td>宋体 18 B U</td>
</tr>
<tr>
<td>Grid</td>
<td></td>
</tr>
<tr>
<td>Background</td>
<td>Black  Center</td>
</tr>
<tr>
<td>Action</td>
<td>Auto Speed 5 Stay 20</td>
</tr>
<tr>
<td>Lock Row</td>
<td>1</td>
</tr>
<tr>
<td>Lock Column</td>
<td>1</td>
</tr>
<tr>
<td>Row Height</td>
<td>18</td>
</tr>
<tr>
<td>Col width</td>
<td>80</td>
</tr>
</tbody>
</table>

Name: Title name of the table

Official website: www.linsn.com

20171128
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

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.
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
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
Background: 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

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

Official website: www.linsn.com
Define a rule to apply color

**Text odd**: column header font color

**Text even**: column data font color

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

---

**Font settings** of selected column:

<table>
<thead>
<tr>
<th>Font</th>
<th>Arial</th>
<th>Align</th>
<th>Left</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---
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.

**Video Window**

- **File**
- **Control**
- **Test**
- **Option**
- **Help**
- **New File**
- **Open File**
- **Save File**
- **Hide Play Window**
- **Allow Edit**
- **Play**
- **Pause**
- **Play Current Program**
- **Stop**
- **Play in Background**
- **Monitor**

**Video Input Device**: Lenovo WEBC.0 WEBCamera

**Audio Input Device**: 

**Set Resolution**: Default Format

**Video Input Source**: 

**TV Channel**: 

Official website: www.linsn.com
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

Official website: www.linsn.com
Static text: text show together with Time

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

---

**Official website:** www.linsn.com
Show temperature in different unit

- **Inner Temperature**
  - Static

- **Outdoor Temperature**
  - Static

- **Outdoor Humidity**
  - Static

- **Inner Humidity**
  - Static

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.
3.4. 3D Display

Load and open the 3D video source in LEDStudio, right-click on the video-&gt; 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.