

# LED Player 3 MANUAL

Version: 3.2.5

# **CONTNETS**

1. SUMMARY	
2. INTRODUCTION	2
2.1. SUPPORTED OPERATION ENVIRONMENT	2
2.2. INSTALLATION AND UNINSTALLATION	2
2.3. WORK INTERFACE INTRODUCTION	3
3. MAIN FUNCTIONS AND BASIC OPERATIONS	6
3.1. ANIMATION PLAYBACK FUNCTION AREA	6
3.2. PLAYLIST	6
3.3. PLAYBACK PREVIEW AREA	8
3.4. PROPERTY SETTING	9
3.5. STATUS BAR	
3.6. EXPORT AND IMPORT THE PROGRAM LIST	11
4. ANIMATION EDITING	12
4.1. PREVIEW PLAYING	12
4.2. MATERIAL SETTING	12
4.3. COLOR SCROLL EDITOR	13
4.4. MATERIAL EDITOR	14
5. PROJECTS	17
6. MAPPING	
6.1. CREATE A NEW MAP	18
6.2. QUICK MAPPING	
6.3. IMPROT THE MAPPING.DAT FILE	19
6.4. IMPROT THE DXF FILE	19
6.5. IMPORT THE FORM FILE (POSI.TXT)	
6.6. EDIT THE MAPPING BY MAP SOFTWARE	
7. MATERIAL	20
7.1. THE PROPERTY OF MATERIAL	20
7.2. THE TEST AND BUILT-IN ANIMATIONS	21
7.3. INPUT VIDEO AND PICTURE	21
7.4. ADVANCED ANIMATION	21
7.5. THE SCREEN RECORDING AND THE FLASH RECORDING	22
7.6. TEXT	23
7.7. AUDIO CONTROL ANIMATION (ON-LINE)	24
7.8. THE CLOCK ON-LINE	25
8. SETTINGS	26
8.1. HARDWARE SETTINGS	26
8.1.1. PROJECT SETTINGS	26
8.1.2. CONTROLLER SETTINGS	26
8.1.3. CHIP SETTINGS	27
8.1.4. NETWORK	28
8.1.5. OUTPUT SETTINGS	28
8.1.6. ADVANCED SETTING	28
8.2. SOFTWARE SETTINGS	28
8.2.1. SOFTWARE BASIC SETTING	29
8.2.2. DISPLAY SETTINGS	29
8.2.3. ETHERNET SETTINGS	30

# **CONTNETS**

8.2.4. AUDIO CONTROL SETTINGS	30
8.2.5. MORE - CHIP ANIMATION DELAY	31
8.3. THE ADVANCED SETUP OF CONTROLLER	31
8.3.1. CONTROLLER REPLICATION	31
8.3.2. PORT REPLICATION	32
8.3.3. THE CHANNEL SETTING OF SHIP	32
8.3.4. ASSIGN SN CONTROLLER	32
8.4. COM AND POINT PARAMETER ADJUSTMENT	33
8.5. THE CHIP SETTINGS	33
8.6. START UP	34
8.7. ADJUST THE SYNCHRONIZATION TIME	35
8.8. COLOR ADJUST	35
8.8.1. PROGRAM COLOR ADJUST	35
8.8.2. GLOBAL COLOR ADJUST	36
8.9. VIDEO CAPTURE	36
8.10. TIMING BRIGHTNESS TASK	37
8.11. SETTING OF TIME CONTROL	38
8.12. COLOR SETTING FOR THE FORTH CHANNEL	38
8.13. LANGUAGE	40
8.14. PROJECT ENCRYPTION	40
9. OUTPUT	41
9.1. OUTPUT SD FILE	41
9.2. OUTPUT MP FILE	41
9.3. VIDEO FILE	42
9.4. COPY THE SD FILE	42
9.5. OUTPUT THE MAP	42
9.6. CLOUD CONFIGURATION	43
10. DEBUG	44
10.1. ONLINE DEBUGGING	44
10.2. ADDRESSING	44
10.2.1. ADDRESS OPERATION	44
10.2.2. UCCESSFULLY ADDRESSED AND SET PARAMETERS	45
10.3. CHECK ON-LINE STATUS OF CONTROLLERS	47
10.4. NETWORK DIAGNOSIS	47
11. EXTERNAL CONTROL	48
11.1. CONTROL DMX512 CONSOLE	48
11.2. UDP CONTROL	48
11.3. CLOUD CONTROL	48
12. TOOLS	49
12.1. CONVERTING THE SIZE OF ANIMATION	49
12.2. CONVERTING THE FORMAT OF ANIMATION	50
12.3. CONVERTING THE COLOR OF ANIMATION	50
12.4. CONVERTING THE VEDIO	50
12.5. CONVERTING THE PROGRAM	51
12.6. THE CALCULATOR, NOTES AND PAINTING	51
13. HELP	52

# **CONTNETS**

13.1. ABOUT LED PLAYER	52
13.2. SOFTWARE LICENSING	52
13.3. UPDATE	52
13.4. HELP DOCUMENTS	52
14. MAP TOOL	53
14.1. FILE	53
14.2. TOOLS	
14.2.1. SELECT	
14.2.2. CABLING	54
14.2.3. REGULAR CABLING AND SELECT	55
14.2.4. DISTANCE	56
14.2.5. CLIPBOARD	56
14.2.6. DELETE	56
14.2.7. CHANGE LINE DIRECTION	57
14.2.8. OVERTURN	
14.2.9. MODEL	
14.3. IMAGE	59
14.4. IMPORT	59
14.5. TEXT	60
14.6. EXPORT	60
14.7. CONTROLLER SELECTION	60

# 1. SUMMARY

LED PLAYER is software used on LED Lighting Animation and project design. Friendly interface and easily operated. MAIN FUNCTION:

#### Animation:

- 1. There are 17 different testing effects and 55 lists full color effects.
- 2. Through the advanced special effects, can list the material change mode and color editing, to further meet the needs of the user gorgeous effect..
- 3. It has a powerful text output function, a number of words.
- 4. Direct import of mainstream video formats is supported.

#### Playlist:

Project -> Program -> Windows -> Material list/Material, clear operation logic, flexible setting of multi-screen, linkage effect.

### Material editor:

User can adjust the playback time and overlay style of the material freely, edit the effect, list the mixing mode and so on, and software can produce a rich variety of combination and overlay effect.

#### Project parameters:

Open hardware setting, the user can list the controller model, chip model, network card and output type as required, which is convenient to relist and modify in one step.

#### > File editor:

Arbitrarily adjust the size, grayscale, file format and color of the effect parameters.

#### Control functions:

Easy to list up and control the timing output of lamps, with a variety of collocation.

# 2. INTRODUCTION

### 2.1. SUPPORTED OPERATION ENVIRONMENT

Operating system	Windows 7 SP1/ Windows 8.1/ Windows 10(32-bit / 64-bit).
Drive component	Microsoft.NET 4.7 or later, WinPcap 4.1.3 (must be installed to run the software).
Language support Simplified Chinese, Traditional Chinese, English (all other languages are shown in English	
Running path	Only support [desktop] and non-system disk folders, do not support running on U disk.

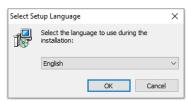
### 2.2. INSTALLATION AND UNINSTALLATION

Contact us or get the LED Player software installation package directly from our official website.

1. Double-click to run the software installation package.



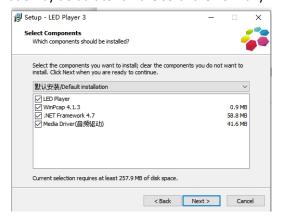
2. Select installation language.



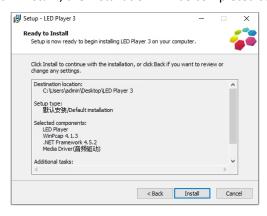
installation.



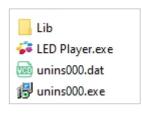
3. Follow the software installation wizard to continue the 4. Select to install the driver components, please select installation by default to run the software normally.



5. Click "install", the installation will be completed soon.



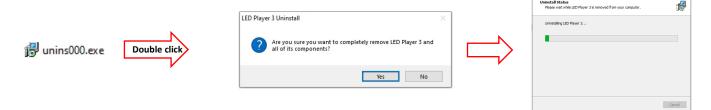
6. The installation is successful and a folder is generated.





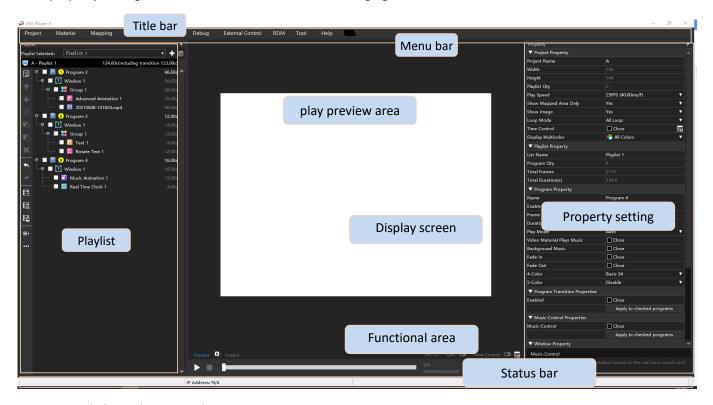
Double-click "LED Player.exe" Player.exe in the installation path to run the software.

Double-click "uninst LED Player.exe" to uninstall the software and all its components.



#### 2.3. WORK INTERFACE INTRODUCTION

The working interface consists of seven functional areas:title bar,menu bar,playlist,play preview area,functional area ,property setting and status bar,as shown in the following figure.



Title bar: Shows LEDPlayer3.0.

Menu bar: There are 9 menus, including projects, cabling, materials, setting, output, debugging, external control, tools, and help. Click the corresponding sub-menu appears in the menu. Click the sub-menu to open the corresponding function. For more information, refer to Table 2-1 sub-menu function list

Playlist: Display the playlist of the current project, which consists of projects, program, windows, and material lists/material levels. The toolbar is displayed at the bottom, including modifying the sequence of program, expanding or folding program list, and clearing cache files.

Play Preview Area: Display the "playback screen" of the actual project size, the effect of playing the "playlist", and lists the multi-screen "window area".

Functional area: Control the playback status and display proportion of the "preview area", and operation item synchronization switch time control switch.

Property setting: Display and lists the level attributes of the current project, including project attributes, program attributes, window attributes, material attributes, and material property.

Status bar: Display and lists the level attributes of the current project, including project attributes, program attributes, window attributes, material attributes, and material property.

Table 2-1 sub-menu function list:

	Order	Details
Menu		
Pr	New .	Create a new project.
Project	Import	Import and open existing projects.
	Recently	Remember the most recently opened item, you can change it by selecting.
	More	Open the folder of the current project.
	New	Open the Map Cabling Tool and create a new empty Cabling File.
	Quick Mapping	Regular rectangular mapping, using 16 built-in S, Z type mapping fast mapping.
Mapping	Import Map	Import the layout diagram in map. dat format.
opin	Import DXF	Read the DXF files and import and convert them accordingly into cables that are
σ		recognized by the LED Player.
	Import Form	Advanced application, special mapping, list by our company.
	Edit Map	Open the Map cabling tool to modify the current cabling.
	Test Animation	Output 17 lists of test materials.
	Built-In Animation	Output of 55 lists of built-in full color pattern materials.
	Advanced Animation	Set and call the ribbon, free to edit the pattern material.
	Screen Record	Real-time capture of the screen image of the computer screen, and convert and save
7	Sercen necord	the inherent format of LED Player.
Material	Colorful Character	Set and call the ribbon, free to edit text material.
erial	Picture	Read the image and store it in the project.
	Flash Record	Read converted.swf files with saved LED Player native format.
	Media	Read converted video with saved LED Player native format.
	Audio Control	Set and call ribbon, edit audio control material at will.
	Rotate Text	Set a text animation that can run around a circle.
	Clock	Read the computer time and present it as a clock.
	Hardware	Set the hardware parameters of the project, including controller type, chip type, etc.
	Software	Set the software parameters of the project, including buffer, display scale, network
	Software	setting, chip delay setting, etc.
	Controller	Controller replication, port replication, list controller channel sequence, SN controller
	Controller	partition, etc.
	Com & Point	
	Parameter	Single port or single point brightness and channel order can be list.
	Adjustment	
	Chip	The built-in properties of the chip can be list, including power on, current, forwarding,
10	Citip	automatic address parameters, etc.
Settings	Start Play	Select a different mode to start running the LED Player.
ings	Synchronization	Adjust the synchronization time difference.
		Add the best of the control of the DCDW to make the control of the control of
	Program Color Adjust	Adjust the brightness gamma of the RGBW to make the material more aesthetic.
	Global Color Adjust	Adjust the brightness gamma of the RGBW to make the material more aesthetic.  Adjust the brightness gamma for the entire project.
	-	
	Global Color Adjust Video Capture	Adjust the brightness gamma for the entire project.
	Global Color Adjust	Adjust the brightness gamma for the entire project.  Using the video data of the switchboard to carry out multiple linkage.
	Global Color Adjust Video Capture Brightness	Adjust the brightness gamma for the entire project.  Using the video data of the switchboard to carry out multiple linkage.  Set the project to adjust the animation brightness on time to achieve different
	Global Color Adjust Video Capture	Adjust the brightness gamma for the entire project.  Using the video data of the switchboard to carry out multiple linkage.  Set the project to adjust the animation brightness on time to achieve different brightness in different time periods.
	Global Color Adjust Video Capture Brightness	Adjust the brightness gamma for the entire project.  Using the video data of the switchboard to carry out multiple linkage.  Set the project to adjust the animation brightness on time to achieve different brightness in different time periods.  Advanced application, can encrypt the project to protect the interests (with custom
	Global Color Adjust Video Capture Brightness Encrypt Project	Adjust the brightness gamma for the entire project.  Using the video data of the switchboard to carry out multiple linkage.  Set the project to adjust the animation brightness on time to achieve different brightness in different time periods.  Advanced application, can encrypt the project to protect the interests (with custom hardware).

Menu	Order	Details
	SD File	Converts the selected program compression into a "*.bin" file that can be read by the
		offline controller.
Output	MP File	To compress and divide the selected program into multiple segments of specified size.
	Video File	Convert the program material to.avi/.mp4 video files.
	Copy to Card	Copy the "*.bin" file to the SD card.
7	Мар	Output the direction indicator diagram of the lamp.
	LED Map	Output lamp position arrangement diagram.
	Cloud Config.	The cloud control configuration file is generated and uploaded to the cloud platform for download and update.
	Online Debug	Debugging the lamp layout on site, judging the connection and transmission status of lamp layout and signal.
	Lamps of addressing	Addressing DMX512 lamps in parallel.
Dek	State detection	Check the connection status of the EN controller.
Debugging	SD Addressing	Suitable for specific master control, list and save the address and parameters of the chip, need to output to the SD controller.
54		The packet loss rate of communication between LED Player and master control was
	Network Diagnostic	counted, and the communication situation between software and master control signal
		was judged.
	Serial Port	Advanced application.
Exte	DMX	When enabled, LED Player output animation and speed can be controlled through DMX512 console.
External Control	UDP	Through UDP protocol, can realize any device control LED Player output animation and speed.
ntrol	Cloud	After the software is bound to the cloud platform, the LED Player software can be remotely controlled through the cloud platform.
	LAN	Advanced application.
	E/ IIV	Advanced application. After LED Player obtains the UID of the driver, it can use the UID
		code to query the status of its driver and monitor the current, temperature, setting
RDM	RDM	DMX address and other information of all drivers in the whole system in real time, so
<b>S</b>		as to realize the function of "remote device management" and provide a more
		convenient method for the maintenance of the project.
	Size Converter	Convert effects of different sizes to each other.
	Format Converter	Effect files that convert to different formats.
	Color Converter	Set the color of the original effect material.
	Video Converter	Capture video parts, convert and store them in LED Player native format.
Tools	Program Converter	Convert the specified program and store it as LED Player native format.
Sis	Calculator	Call the calculator that opens the computer.
	Notes	Call to open the computer's notepad.
	Painting	Call the drawing tool that opens the computer.
	Firmware Update	Advanced application.
	MADRIX	Output the map file which used in the Madrix software.
	About LED Player	Displays developer information and copyright information.
Ħ.	Software Licensing	Advanced application.
Helps	Update	Check and upgrade software versions.
	Document	Open our company's official website to get the software operation book.
	Reset Default	Restore the default layout of the main screen.

# 3. MAIN FUNCTIONS AND BASIC OPERATIONS

# 3.1. ANIMATION PLAYBACK FUNCTION AREA

Controls the playback status of the playback preview area and the display size of the playback screen.



Icon	Designation	Comment
	Play	Play the animation. In the playback state, select the "Project" -
		"Program" - "Window" - "Material" in the "Playlist" to be played, and
		the corresponding animation can be played.
m	Pause	Click to pause the playback, click again, the current animation
ш		continues to play. Or switch other nodes to resume playback.
	Stop	Stop playing the animation. Click again, and replay the animation.
		The frame number and time of the animation currently played by the
9,78	Play progress bar	project, program, window, material list and material. Adjusting the
	riay progress bar	playback progress bar in the non-synchronous state can jump to play in
		real time.
<u>୍</u> ଦ୍ର ©୍	Adaptive scaling	The playback screen adapts to the size of the "play preview area".
<b>⊙</b> (	Amplification	Click once, play the screen to increase the display scale.
<b>13</b>	100% showed	Restore the size of the playback screen to the item size size display, that
		is, the 100% display scale.
Q	Narrow	Click once to play the screen and reduce the display scale.
	According to the proportion	Displays the current screen size ratio. The zoom limit is 50% and the
200%		zoom limit is based on the display resolution of the device on which the
		LED Player is currently running.
	Toggle preview play / output play	Switch the current play mode. [Preview] edit the preview effect, you can
Preview Dutput		edit the properties while playing. [Output] real-time control lamp, does
		not support real-time editing program list.
	Control synchronous switch	Set the same effect and frame speed, connect the external GPS or BTS
Sync 🔾		device, after activating the synchronization, it can realize the
		synchronous playback of multiple devices.
Time Control	Switch to real time	Open this function, enter the timing control state, vice versa for
	control / timing control	real-time control. (Offline project does not have this setting.)
區	Edit Time Playlist	Click and enter into the time control set window.
(88,17)	Light point coordinates	Displays the coordinates of the current mouse pointer.

# 3.2. PLAYLIST

Set the playback content of the current project. You can choose to switch between "project", "program", "window", "material list" and "material" for playback, and displays the animation duration / number of frames.

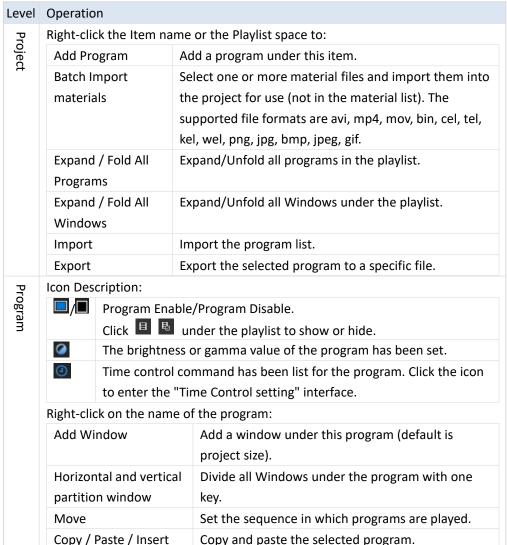
Click the material name enter [Animation Editing] edit materials on the page.

Project composition	A complete project consists of four levels: Project, Program, Windows, and Materials / Materials.
Level relationship	Project->Program->Window->(Material list)->Material.
Project	Only one item exists, play it in order.
Play list	Add multiple playlists to a project.



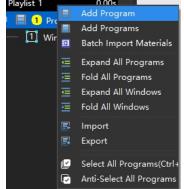
Show	Add programs under the project (up to 100) and play them in sequence.
Windows	Add Windows under a single program (up to 70), which can be played in multiple Windows simultaneously.
Material list	Add a list of fodder (up to 30) to a single window, At the same time, multiple materials can be added into a single material list (up to 30), which can be played in sequence.
Material	Add material (up to 30) to a single window and play it in sequence.

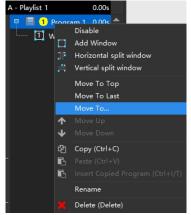
<sup>\*</sup>The relationship between the material list and the material: the material list under the program is at the same level as a single material. At the same time, multiple materials are combined into one material list.

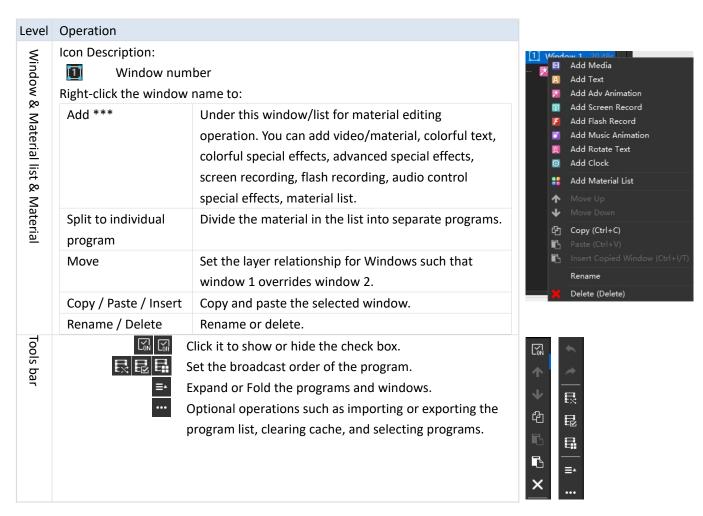


Rename or delete.

Rename/Delete

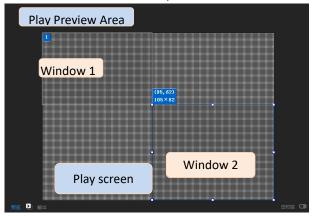






### 3.3. PLAYBACK PREVIEW AREA

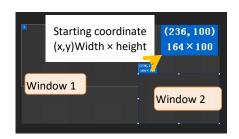
Display the screen size and writing position of the actual project, play the effect of "playlist". You can list the region of "multi-screen" window freely.



Window size:

By default, a new window is created based on the project size. The position is adjusted as follows:

- 1. Click the name of the window or click the window in the play screen, and the window border turns blue.
- 2. Place the mouse on the edge to stretch directly, supports <Ctrl> key equal ratio stretching.
- ▶ Multiple windows of different sizes can be list under the same program.



#### Window location:

Right-click the window to list the position of the window in multiple alignment modes.

You can enter a value in the properties field.

"Red Box" means locked, immovable position. "Locked Location" in "window properties" is enabled as blue box state, not locked bu default.

#### Preview of video file playback:

Click the play button or trigger the <space> key of the keyboard to play the effect of corresponding program / window / material. (The actual position selected in the playlist shall prevail.)

Similarly, ■ or the <space> key of the keyboard can stop playing.

In project properties, you can list whether the mapping mask is enabled.

Align Left
Align To Center
Align Right
Align Top
Align Bottom
Align Top Left

Origin X-Axis	-39
Origin Y-Axis	-27
Width	597
Height	248



### 3.4. PROPERTY SETTING

Fade in / Out

Display and list properties, including project properties, program properties, window properties, material list properties, and material properties.

Click different locations in the playlist to view and list properties.

Level	Property	Instructions
	Width / Height	Size of the playback screen (project cabling).
	Playlist Qty	Total number of playlist.
	Play Speed	Set the playback rate of the item.
	Show Mapped Area	When enabled, the wired area displays images.
Project	Show Image	When enabled, it can be previewed when playing, otherwise the screen is black (it does not affect the output), which is enabled by default.
	Loop Mode	Set the project will loop through the playback material.
	Time Control	Set timing control switch animation command.
	Display Multi-color	Toggle the preview display of different channels.
	List Name	The name of the playlist, can be directly input text setting.
	Program Qty.	Total number of program.
Playlist	Paylisi Total Frames	The total number of frames of all material effects for the project.
	Total Duration	The total duration (in seconds) of all material effects for the project.
	Name	The name of the program, can be directly input text setting.
	Enable	Highlight, that is to enable the program.
	Frame Qty	The number of frames of the program.
Pro	Duration(s)	The duration of the program (in seconds).
Program	Play Mode	Set up different ways to play the program.
3	Video material	When playing a video, output its audio synchronously.
	plays the music	
	Background	Set the soundtrack of the material to synchronize the
	Music	output music when the video is playing.

▼ Duning Duning	
▼ Project Property	
Project Name	A
Width	
Height	
Playlist Qty	
Play Speed	25FPS (40.00ms,
Show Mapped Area Only	Yes
Show Image	Yes
Loop Mode	All Loop
Time Control	Close
Display Multicolor	All Colors

▼ Playlist Property		
List Name	Playlist 1	
Program Qty		
Total Frames		
Total Duration(s)		

▼ Program Property			
Name	Program 1		
Enable	Enable		
Frame Qty			
Duration(s)	20.48		
Play Mode	Auto		
Video Material Plays Mu	si Close		
Background Music	Close		
Fade In	Close		
Fade Out	Close		
4-Color	Disable		
5-Color	Disable		

Set the entry / exit states of the animation change process.

Level	Property	Instructions		
	4/5/6-Color	Only be enabled and set under the 4/5/6-channel lighting fixture.	▼ Program Transition Propertion  Enabled  Mode  Duration(s)	Enable Gradual  1.5
	Transition	Set the special effects and time of program cutscenes.	Duration(s)	Apply to checked programs
	Music-Control	Enable music to control the brightness or speed of the animation.		
	Music-Control Type	Set the sound control mode (only support "frame extraction" and "speed change 1" offline).  Frame Frame Skip by volume.  Speed 1 Accelerating change by frequency.  Speed 2 Accelerating change by volume.  Brightness Lighten and dim according to the volume.	▼ Music-Control Properties Music-Control Music-Control Type Static Volume Highest Speed Flash	Enable  Speed Changed 1  0  V  10  Close  Apply to checked programs
	Static Volume	The decibel value without sound.		
	Highest Speed	The highest speed.		
	Flash	Enable and the animation flashes the specified color at a set-interval and duration		
	Name	The name of the window, can be directly input text setting.	▼ Window Property	
	Origin Axis	The upper-left corner coordinates of the window.	Name Origin X-Axis	Window 1
	Width / Height	The size of the window.	Origin Y-Axis Width	0 \$\div \frac{1}{2}\$
€	Play Times	The number of times the current window animation loops.	Height Play Times	144
window	Lock Position	Lock the window so that it cannot be moved.	Lock Position Mixing Type	□ Enable Cover ▼
WC	Mixed Type	Sets the image effect when multiple Windows overlap.  There are coverage, black transparent, darkening, lightening, multiply, screen, overlay, soft light, hard light, vivid light, transparent mask.		
	Name	The name of the material list / material.	▼ Property of Materi	al List
Mate	Delay Frame of Entry	The number of frames of delayed approach.	Material List Name Delay Frame of Entry	Group 1 0
<u>fial</u>	Frame Qty.	The frames of material.	▼ Item Property	
list {	Adjust Color	Enable it to make the effect file more beautiful.	Material Name	20210608-101824.mp4 2415
Material list & Material	Fill Mode	Set the file display mode, provide none, tile, center, stretch four options.	Frame Qty Adjust Color Mixing Type	Enable Cover
<u>ia</u>	Mixing Type	Set the material overlay blending material.	Fill Mode Recording Area	Stretch X=0,Y=0,W=1006,H=8
	Recording Area	Set the location and size of the material file to read.	Recording Area	Set

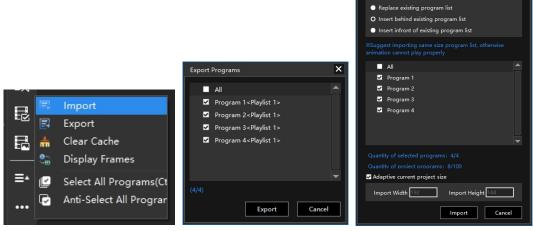
# 3.5. STATUS BAR

Display the setting status information of the project. Including displaying the frame speed, hardware information such as controllers and chips, IP addresses, and enabling the synchronization function.

Frame Speed: 25.00 FPS (40ms)	Controller Model: EN-508 Chip Model: Extended
Properties	Instructions
Frame Speed	The frame rate currently list for the project, in frames per second and ms/ frames.
Hardware Information	The data of controller model and chip model list by the project are derived from [Hardware setting].
IP Address	IP address of the control signal output network adapter.
GPS/BTS Time	It displays the current synchronization time, when the device detects a BTS/GPS module.

# 3.6. EXPORT AND IMPORT THE PROGRAM LIST

To avoid loss or error when copying programs, LED Player supports one-click output and import program list.



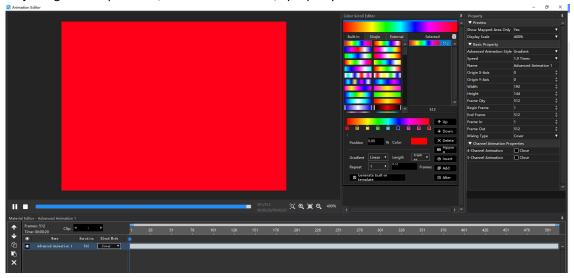
Operation is as follows.

Exporting program List.

- 1. Select the programs you want to export.
- 2. Click Export to export the program list and save the \*.swpl file in the project file. Importing program List.
- 1. Select the programs you want to import.
- 2. Select whether to keep the original program list.
- 3. Select the programs you want to import.

# 4. ANIMATION EDITING

Double-click the playlist material or material name list to enter into the animation editor window. It consists of the four major regions of "preview", "color scroll editor", "property" and "material editor".



Preview: Preview the effects of the footage in real time.

Color Scroll Editor: Set the color of material.

Property: View and set the material properties.

Material Editor: View the material or material list. Specific view a frame animation effect, free to adjust the

playback time and material set overlay style.

# 4.1. PREVIEW PLAYING

Preview the effects of the footage in real time. The screen size is equal to the window size. In the stopped state, right mouse click on the screen to adjust the window position. Click [▶] to play all the effects of the footage in the edit area by frame scale. In any playing state, double click on a material in the editing area to play the material in a loop only.



#### 4.2. MATERIAL SETTING

View and set the material properties. The seven material types refer to "7 MATERIALS".

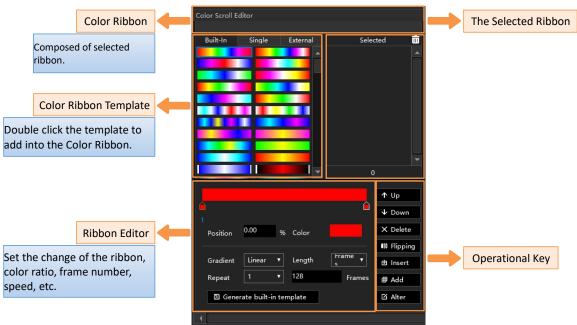
Click the "Material Name" in the edit area to view the properties. The seven materials have different attributes.

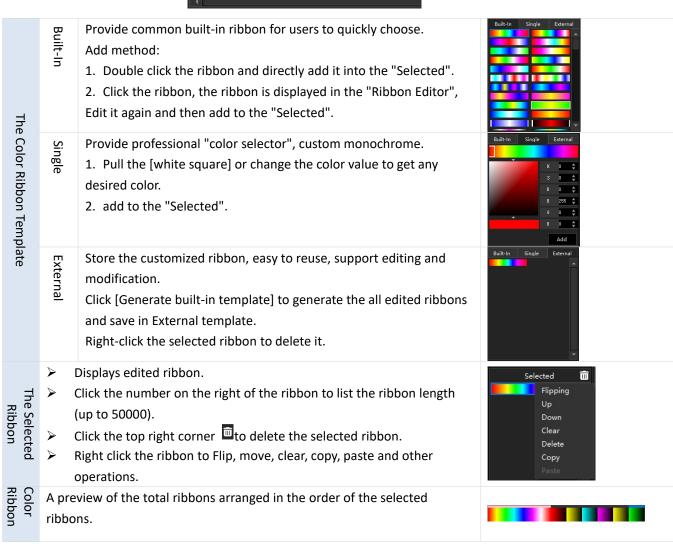
For materials of "Advanced Special Effects" and "Text", please refer to "7.3 Advanced Animations" and "7.5 Text" for specific effects production.

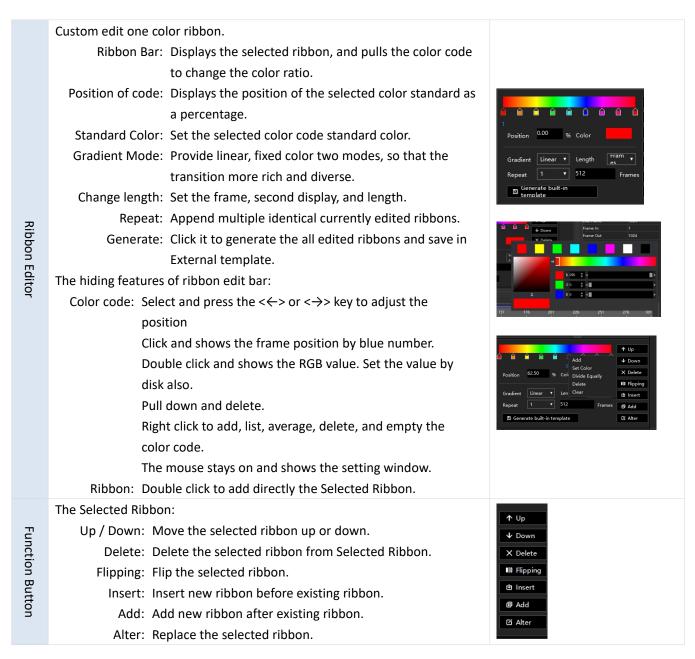


### 4.3. COLOR SCROLL EDITOR

Customize the style and length of the color ribbon and apply it to the [Advanced Animations] and [Text] material.

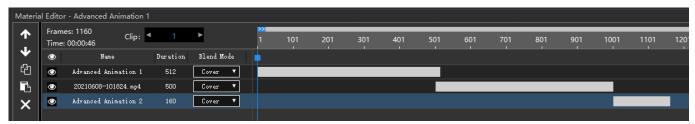




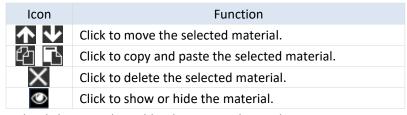


### 4.4. MATERIAL EDITOR

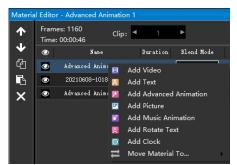
In the material list, you can view a frame animation of material. Freely adjust the playback time, the overlay style, edit, set the mixing mode, etc. to produce a rich variety of combination and overlay effects.



Material can be operated on:



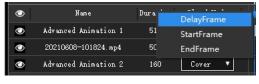
Right-click material to add Video, Text, Advanced Animation, Picture, Music Animation, Rotate Text, Clock.



#### Hidden features:

Long press the material name: feel free to move the material.

Right click the title bar: set delay frame, start frame, and end frame.

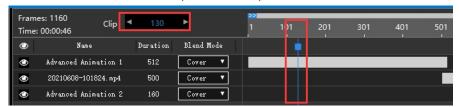




Frame scale: By scaling and moving the frame scale, you can more accurately locate and manipulate the frame number of the material.

Click and move to scale the size of the frame count scale. The shorter is, the smaller the frame count scale will show. The smallest frame can be precisely reduced to one frame.

Move downward, can move a specific frame position near, and view the contents of a frame.



Axis: View the a frame animation.

The operation is as follows:

Move to locate a certain frame, or input a certain frame into to digital automatic positioning. And the animation of the corresponding frame will be seen in the Preview Window.

Priority: During the overall playback, move and preview. Click at this time, and it will continue directly from this frame

Frame bar: shows the number of frames of the material.

#### Operation:

Move: Click and move the frame bar, that is, to change the playing time of the material. Hold down the <Ctrl> key to move the material, it can automatically welt (scale is 1).

Editing: When the mouse stays over both ends of \_\_\_\_\_\_, it will turn into the arrow icon ←. Click it to move the position of the clip. The white part is the retained content, and the gray part is the cut out content. The values represent the start and end frames. The clipping function affects the actual output.

Overlay: Free movement of the material position can make the overlapping parts between the materials form a superposition. with the blending mode, produce a rich variety of superposition effect.

Blend: The color channel blending of the overlay between the materials produces a variety of variations.

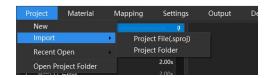
Frames: 2915 Time: 00:01:57 **(** Name Duration Cover 0 Advanced Animation 1 Black Transparent 20210608-101824.mp4 2415 Darken Advanced Animation 2 Lighten Overlay Hard Light Vivid Light Transparent Mask

P1 is the material layer 1, P2 is the material layer 2, and P3 is the blend effect of two materials. (R, G, B) values correspond to the red, green, blue channel values respectively.

Options	Instructions	Material P1 (255,100,150)	Material P2 (200,150,100)	Overlay Blend P3
Cover	Default option to show only its own layer.		MAN OF THE PARTY O	

Options	Instructions	Material P1 (255,100,150)	Material P2 (200,150,100)	Overlay Blend P3
Black Transpare nt	Make the black layer transparent and hollow out.	HELLO	*	HELLO
Darken	After comparing the channels of the two layers, take the minimum value.	and the stand		(255,200,100,100)
Lighten	After comparing the channels of the two layers, take the max value.	and the second		(255,255,150,150)
Multiply	The product of two values divided by 255. So when you mix it with white, you take the primary color, X times 255/255 is equal to X			(255,200,58,58)
Screen	Any color and black color filter, the primary color is not affected. Filter any color and white to get white. Filtering with other colors will produce a bleaching effect.			
Overlay	If the Next material channel value is more than 128, the enhanced version of the filter mode. Otherwise, the enhanced version of the Multiply mode.	and the state of t		
Soft Light	If the previous material channel value exceeds 128, the base image lights up. If it is below 128, it darkens.	The state of the s		
Hard Light	If the previous material channel value exceeds 128, the filter mode is executed. Otherwise it is executed.			
Vivid Light	If the previous material channel value exceeds 128, the color burn mode is executed. Otherwise it is executed.	and the second second		

# 5. PROJECTS



New: Create a new project.

Import: Import an existing project file (.sproj) or a project folder that contains a list folder.

Recently opened: Displays the most recently opened project. Click to open the most recently opened project.

Open project folder: Open the current project folder to view file information.

When the LED Player software is opened for the first time, a new project window will pop up. Or click [New] under <Project> menu to open it.

Name: Set the name of the project.

Width/Height: Size of the item (or size of the mapping).

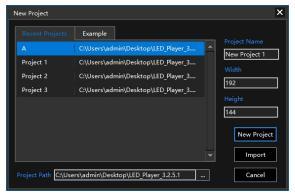
Path: The location of the project files.

Recent projects: Displays the list of project paths that have been

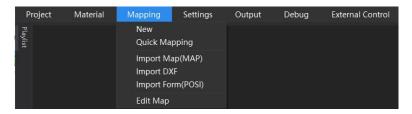
opened recently. Click to switch them on.

Import: Import other projects.

Example: We provides some built-in example projects. And through which users can better understand how to make LED Player software more colorful effect.



# 6. MAPPING



### 6.1. CREATE A NEW MAP

When special mapping screens (such as N-type mapping, phantom characters, cable-stayed Bridges) need to be applied, call up the MAP software for drawing. And the project can be imported in real time after mapping is completed. (For detailed operation, please refer to this manual "MAP TOOLS").

Click the menu [Mapping] - [New] to bring up the MAP software.

# 6.2. QUICK MAPPING

Regular rectangular wiring, providing 16 kinds of wiring methods commonly used in engineering for fast wiring. Click [Mapping] - [Quick Mapping] to open the interface.

List according to the screen size of the actual project:

Width/Height: The dimension of the mapping.

Controller model: Only the controller model can be viewed. To

modify the controller, click the menu [Settings] -

[Hardware settings] to set.

Drive pixel: lists the number of drive points for a single port.

Direction: 16 kinds of conventional S and Z routing mode

can be selected.

As shown in the "Wire distribution description"

below. Applicable to regular screens only.

Preview: Intuitively see the size of the mapping, direction,

each port with the drive points, etc.

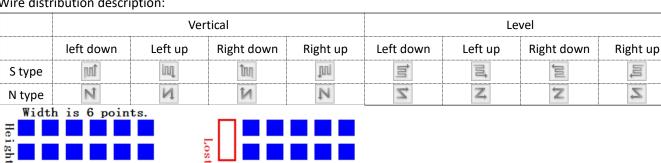
Mouse operation hide function:

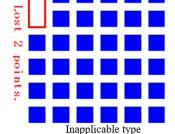
Up/down rolling wheel to zoom in / out the mapping preview.

Press on the right button to move the location of the mapping preview.

Wire distribution description:

Applicable regular type





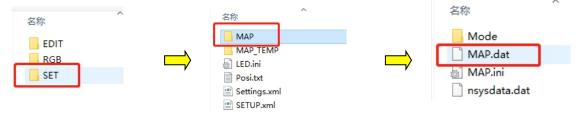
#### Examples of mapping:

Project	Size	Driver Pixels
10 pieces 1M tubes, 6 sections per meter	Width: 60 points (6 sections * 10 pieces) Height: 1 points (1 M tube)	60 pixels
5 lines, 6 pieces 1M 8 sections tubes of each line	Width: 5 points (5 lines) Height: 48 points (8 sections *6 pieces)	240 pixels

### 6.3. IMPROT THE MAPPING.DAT FILE

Import the "MAP.dat" file drawn by MAP software.

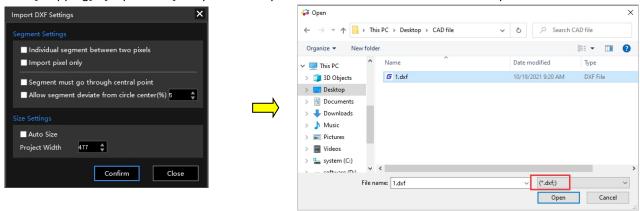
Click "Mapping" - "Import Map" to open.



### 6.4. IMPROT THE DXF FILE

Read the DXF file, and enter the MAP cabling software. Import and convert it into points that can be recognized by the LED Player accordingly.

Click [Mapping] - [Import DXF] to open. DXF import conditions need to be list before import.



# 6.5. IMPORT THE FORM FILE (POSI.TXT)

Advanced application, special mapping, list by our company.

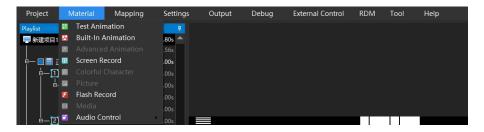
#### 6.6. EDIT THE MAPPING BY MAP SOFTWARE

Jump into the MAP software to edit the current cabling.

Click [Mapping] - [Edit Map] to jump into the Map Software.

No matter the previous routing was done with MAP software or with quick routing, you can edit the mapping diagram again after open MAP software.

# 7. MATERIAL



# 7.1. THE PROPERTY OF MATERIAL

Property	Instructions	
Mapped area	Public property, for the "material preview window" setting.	
Display Scale	Sets the display scale to adjust the size of the preview.	
Animation Style	Chooses different effects style.	
Speed	Sets the playback speed of the effect. The larger the number, the faster the speed. the general default is 1 and the effect is the most smooth.	
Name	Displays and modifies the name of the current animation.	
Origin Axis (Coordinate)	Displays and modifies the starting coordinates of the preview screen where the current footage is located. It can also be changed by moving material in the stopped state.	
Width / Height	Displays and sets the size of the footage. It can also be changed by moving material in the stopped state.	
Frames Qty.	Displays the number of frames of the current animation.	
Begin / End Frame	Sets the start and end frame order of the footage.	
Frame In / Out	Sets the input and output frame sequence for the footage.	
Play Type	Sets the number of times the effect appears to play.	
Mixed type	The color channel blending of the overlay between the materials produces a variety of variations. The mixed result refer to "MATERIAL EDITOR".	
Mirror Mode	Set animations according to different mirroring modes, including None, Horizontal Mirroring, Vertical Mirroring, Quadrangle Mirroring, and Copy.	
Transition Color	Background color before or after effect appears	
Capture Axis (Coordinate)	Displays and sets the starting coordinate of the animation intercept.	
Capture Size	Displays and sets the effect size for intercepting retention.	
Fill Mode	Set the file display mode, provide none, tile, center, stretch four options.	
4/5-Channel Animation	Only be enabled and set under the 4/5/6-channel lighting fixture.	
Grayscale	After channel parameters are enabled, grayscale RGB ratio parameters can be adjusted. The larger the parameter, the closer the color to gray. The smaller the parameter, the closer the color is to black.	



#### 7.2. THE TEST AND BUILT-IN ANIMATIONS

Generate 14 set of test effects and 96 set of built-in effects for easy invocation.





Generate: Click the menu [Material] - [Test Animations] / [Built-in Animations] to open the selection

box. Click the image of the corresponding animations to select ([Inverse] or [All] can be used).

Click [OK], the material is previewed and generated in project | RGB

Import to the playlist: Method 1: Right-click [Project] - select [Import Programs] and select what you want in the project's RGB folder.

Method 2: right-click "Windows" / "materials", select [Add Media], and select what you want in the project's RGB folder.

[Monochromatic output]: Click to see 96 set of pattern animations, convert the selected animations into monochromatic output. Select the color to be transformed and click [build].

After successfully importing the material to Play-List, double-click the material name to enter the Animation Edit interface. Set the material again in the "Properties Settings". Refer to "THE PROPERTY OF MATERIAL".

### 7.3. INPUT VIDEO AND PICTURE

Input video or picture, and store to the specified RGB folder.

Supports "AVI, MP4, MOV" video format import, and "BMP, JPG, JPEG, GIF, PNG" image format import. Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Add Media] to pop the record window.

Method 2: In the "Playlist", right-click "Material Group" and select [Add Media] to pop the record window.

If the same program needs to play more than one HD video at the same time, it is recommended to use a high-performance computer with a memory of 8GB or above.

Set the material again in the "Properties Settings". Refer to "THE PROPERTY OF MATERIAL".

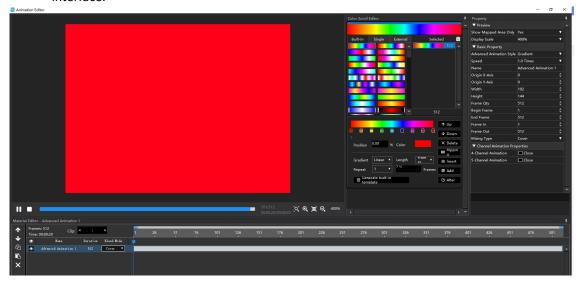
#### 7.4. ADVANCED ANIMATION

Users set their own special animations mode and other material properties, call ribbon editing, editing patterns at will. Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Add Adv Animation] to enter the "Animation Edit" interface.

Method 2: In the "Playlist", right-click "Material Group" and select [Add Adv Animation] to enter the "Animation Edit"

interface.



Ribbon editing: customize the style and length of the ribbon, and change the color of the material of advanced special effects in real time. Refer to "COLOR SCROLL EDITOR".

The "Properties Settings" of material refer to "THE PROPERTY OF MATERIAL".

# 7.5. THE SCREEN RECORDING AND THE FLASH RECORDING

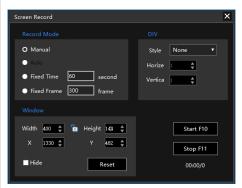
Easily capture images played on a computer, convert it to the LED Player format and store it in the specified RGB folder. Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Screen Record] to pop the record window.

Method 2: In the "Playlist", right-click "Material Group" and select [Screen Record] to pop the record window.

Function	Instructions		
D	Manual	Click "Start F10" and "Stop F11" to record the animation.	
Record	Auto	Record the animation for a specified time.	
Mode	Fixed Time / Frame	Record the animation of specified number of time / frames.	
DIV	Style	Set animations according to different mirroring modes, including None, Horizontal Mirroring, Vertical Mirroring, Quadrangle Mirroring, and Copy.	
	Horizontal / Vertical	On the basis of setting mirror mode, copy again horizontally or vertically.	
	Width / Height	Sets the size of the screenshot window.	
Window	X / Y	Displays and modifies the starting coordinates of the preview screen where the current footage is located.	
	Hide	Tick to hide the screenshot window.	
	Reset	Click to reset the window size and position.	
	Start	Click to start recording animation.	
State	Stop	Click to stop recording.	
	00:00 / 0	Displays the total time and frames of the recorded effect.	





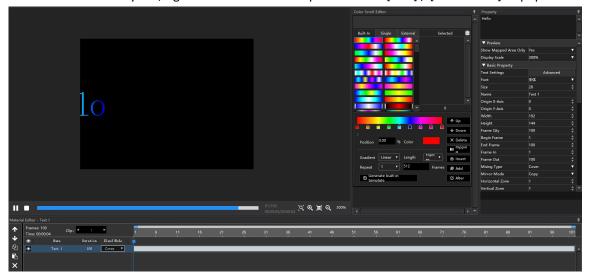
# 7.6. TEXT

Set text output to the playback screen, call ribbon editing, editing patterns at will.

Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Text] / [Rotate Text] to pop the record window.

Method 2: In the "Playlist", right-click "Material Group" and select [Text] / [Rotate Text] to pop the record window.



Ribbon editing: customize the style and length of the ribbon, and change the color of the material of advanced special effects in real time. Refer to "COLOR SCROLL EDITOR".

Property	Instructions				
Input box	Enter the text shown on the screen.				
The "Properti		Settings" of material refer to "THE PROPERTY OF	<b>▼</b> Format		
Property	MATERIAL".		Text Settings	Advanced	
	Font	Set the font according to system font library.	Font Size	Microsoft Sans Serif	<b>▼</b>
			Bold	Close	
	Space	Sets the spacing between text or between lines of	Italic	Close	
Format	'	text.	Text Space	0	
romat	Stretch	Stretch font size horizontally.	Row Space	0	*
	Color Speed	Sets the speed at which text fills the gradient.	Horizontal Stretch Vertical Stretch	0	
	· ·		Color Speed	1.0	*
	Color Style	Sets the direction of ribbon filling.	Color Style	Move Left	•
	Enter / Exit	The direction in which the text moves into the			
	Mode	scene.	Enter Mode	Debris	•
Animation	Enter / Exit	The time in which the text moves into the scene.	Enter Time(s)	2.0	\$
Ammadon	·	The time in which the text moves into the seeme.	Hold Time(s)	10.0	<b></b>
	Time		Exit Mode	Debris	<b>V</b>
	Hold Time	Sets the duration of the text in the scene.	Exit Time(s)	2.0	Ŷ
	Orientation	Sets the way of the word.	▼ Display Mode		
	Text Inverse	The order in which text content appears.	Show Orientation	Horizontal	•
Display	Mirror	The text appears after mirroring.	Text Inverse	Close	
Display	IVIIIIOI		Mirror Horizontal Offset	Close	
	Offset	The font position is offset horizontally/vertically in	Vertical Offset	0	*
	Oliset	the playback screen area.			
	Special Effect	Design text bold and shadow.	▼ Special Effect		
Special	•		Special Effect	Border + Shade	<b>Y</b>
	Border Size /	The width / color of the text stroke.	Border Size Border Color	1 255,255,255 (	₹ <b>B</b>
	Color		Shade Color		<b>8</b> ,
Effect	Shade Color /	Color / Alpha / Offset of the text shadow.	Shade Alpha	50	\$
	Alpha / Offset	, , , , , , , , , , , , , , , , , , , ,	Shade Offset	3	*
	Radius	Sets the font distance from the center point.			
	Naulus	sets the font distance from the center point.			

# 7.7. AUDIO CONTROL ANIMATION (ON-LINE)

Add and design the audio control animation.

Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Music Animation] to pop the record window.

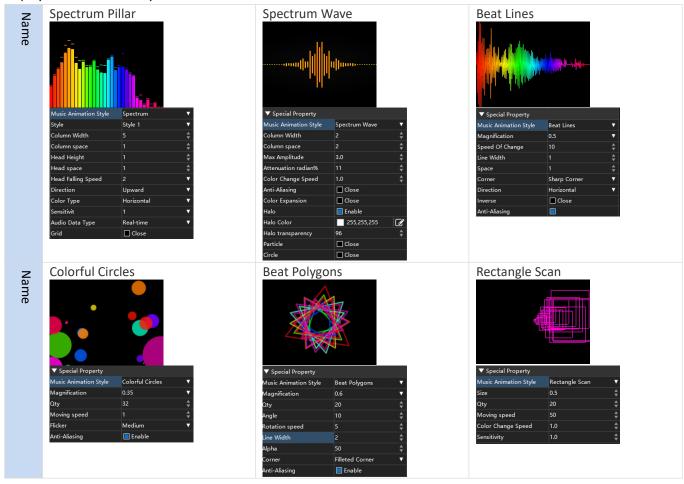
Method 2: In the "Playlist", right-click "Material Group" and select [Music Animation] to pop the record window.



Ribbon editing: customize the style and length of the ribbon, and change the color of the material of advanced special effects in real time. Refer to "COLOR SCROLL EDITOR".

The "Properties Settings" of material refer to "THE PROPERTY OF MATERIAL".

There are 6 animations for choose. The computer needs to enable the "sound card" and plays music. Led player will display the animation only when the audio control data is read.



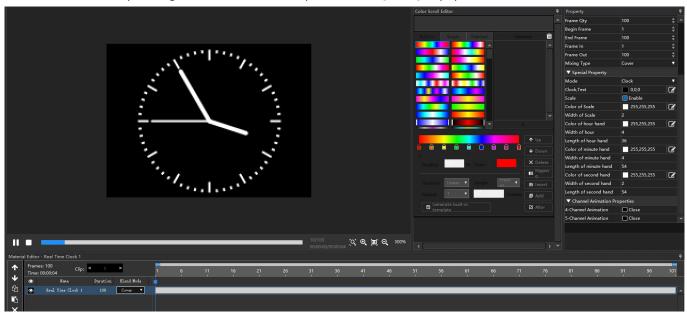
# 7.8. THE CLOCK ON-LINE

 $Read\ the\ computer\ time\ and\ present\ it\ as\ a\ clock,\ Only\ applicable\ to\ software\ real-time\ control\ projects.$ 

Two ways to open.

Method 1: In the "Playlist", right-click "Window" and select [Clock] to pop the record window.

Method 2: In the "Playlist", right-click "Material Group" and select [Clock] to pop the record window.



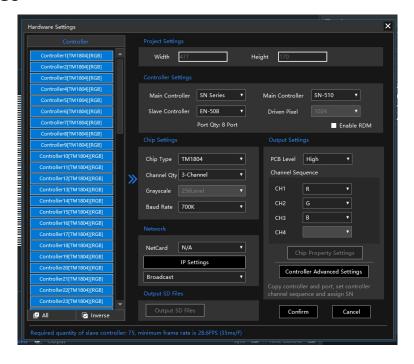
The "Properties Settings" of material refer to "THE PROPERTY OF MATERIAL".

# 8. SETTINGS

# 8.1. HARDWARE SETTINGS

View and list controller, chip, output and other hardware parameters, also includes network setting and output SD files and other options, convenient for users to list all information in one step.

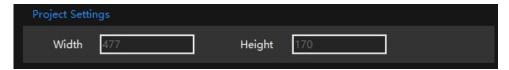
Click [settings] - [Hardware] to open the window.



#### 8.1.1. PROJECT SETTINGS

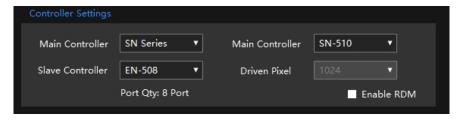
View and list the width and height of the project (the width and height of the mapping).

If you have used MAP cabling software or quick cabling, this is read-only and you cannot modify the width and height of the project.



### 8.1.2. CONTROLLER SETTINGS

View and list controller type, model and drive pixels each port.



Support master control and sub-control:

Series	Main controller	Slave Controller
PC series	PC	EN-401 EN-402 EN-408 EN-508 EN-608
MP series	MP-210	EN-401 EN-402 EN-408 EN-508 EN-608
	MP-260	EN-401 EN-402 EN-408 EN-508 EN-608
	MP-380	EN-401 \ EN-402 \ EN-408 \ EN-508 \ EN-608
SN series	SN-500	EN-401 EN-402 EN-408 EN-508
	SN-510	EN-401 EN-402 EN-408 EN-508
	SN-410	EN-401 EN-402 EN-408 EN-508
MQ series	MQ-300	EN-401 EN-402 EN-408 EN-508

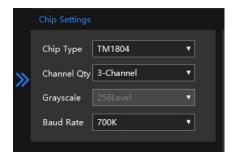
Series	Main controller	Slave Controller
SY series	SY-302	
	SY-408	
	SY-418	
	SY-322	
	SY-324	
	SY-328	
	SY-202	
	SY-204	
	SY-208	
SW series	SW-301	
LoRa Series	LM-100	LR-101、LR-418

Driver points: lists the driver points of the single output of the project. The default value is 1024.

Only view cabling items in the MAP cabling software and need to access the MAP software to modify the items. EN-608 controller does not support status detection, IP setting, controller replication, project encryption functions.

#### 8.1.3. CHIP SETTINGS

Select the PCB type and gray according to the projects. Gray level combined with the chips and the project needs to be list. Generally the higher the gray level, the more delicate the color, but the main control of each road can take less points.



#### Chip list:

Manufacturer	Chip
Ssskway (SW)	SW-D
Titan (TM)	TM1804, TM512AD, TM512AC0, TM512AC2, TM512AC3, TM512AC4, TM512AB3, TM512AL1, TM1809, TM1812, TM1814, TM1913, TM1914/TM1914A, TM1914(Test Main Channel), TM1914(Test Slave Channel), TM1934D, TM1803
Szucs (UCS)	UCS512A, UCS512B, UCS512C, UCS512C4, UCS512CN, UCS512D, UCS512EH, UCS1903N, UCS1903B, UCS1904, UCS1909(B), UCS1912, UCS2903, UCS2904(B), UCS2909, UCS2912, UCS5603A, UCS5603B, UCS8903, UCS8904, UCS8912
Sunmoon (SM)	DMX512AP, SM16511, SM16512, SM16520(P), SM17512P, SM17500P, SM17522P, SM16500P, SM16703P, SM16709P, SM16712P, SM16704PB, SM16714P, SM16813(P), SM16823, SM16824, SM18522P, SM18522PH
Genesis (GS)	GS8512, GS8206, GS8205, GS8219, GS8513, GS8515
Hichips (Hi)	Hi512A0, Hi512A4, Hi512A6, Hi512D, Hi512E
Worldsemi (WS)	WS2811, WS2812, WS2818
Leixin (LX)	LX1003, LX3203
Teralane (TLS)	TLS3001
DMS (P)	P9883
Jercio (XT)	XT1506S
MXW	MT1809C, MT1806, MT1815
(QED)	QED512P
Others	BS0815, BS0825, BS0825(18mA), LPD1889, BS0901, GW6312
Common	Standard DMX (250K), Extended DMX (500K)

#### **8.1.4. NETWORK**

#### 8.1.4 Network setting

Set the output net card, refer to "ETHERNET SETTINGS"...



### 8.1.5. OUTPUT SETTINGS

Set the effective output level and channel order.

PCB level: Default is high. Do not suggest changing the option by

customer.

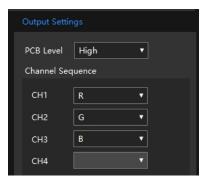
Channel Sequence: Select the correct color for the specific channel.

Controller This is advanced function. Please don't change the

advanced setting: setting arbitrarily, otherwise, it would cause the system

out of control.

Before setting, please consult our technical.



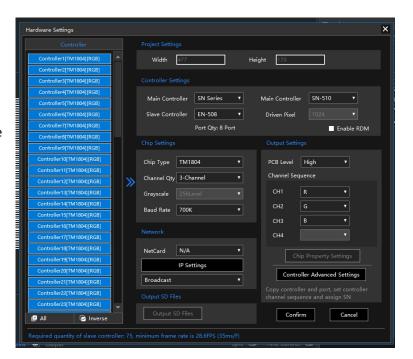
#### 8.1.6. ADVANCED SETTING

In the same system, user can set the ID of controllers (item of controllers should be the same), PCB type and R/G/B Channel. (One controller only drive one type of lighting.)

Click the small button [«] on the left of the setting window to bring it up.

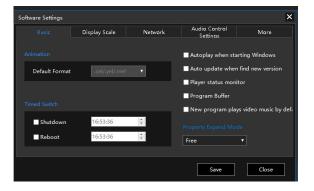
This is advanced function. Please don't change the setting arbitrarily, otherwise, it would cause the system out of control.

Before setting, please consult our technical.



### 8.2. SOFTWARE SETTINGS

Set the software parameters of the project, including basic setting, display scale, network setting, audio control setting, more setting, etc.



#### 8.2.1. SOFTWARE BASIC SETTING

Animation: Display and set the format of animation.

<u>Timed Switch</u>: Set computer shutdown or restart instruction, only access to the computer's project support.

Note: if set the time of Shutdown / Restart at the same time, the computer will not automatically restart after shutdown.

<u>Autoplay when starting Windows</u>: Once checked, the LED Player will be turned on automatically after the computer is logged into the system.

Note: Need to list computer to minimum security.

<u>Auto update when find new version</u>: After checking, the LED Player will be automatically detected and upgraded in the network.

<u>Player's status monitor</u>: After checking, the running state of LED Player will be monitored regularly.

<u>Program Buffer</u>: Converting a program to a buffer file specific to the LED Player can significantly improve playback performance.(If the parameters cannot be checked, please conduct project mapping first.)When ticked and buffering is completed,  $\forall$  will appear in the lower left corner of the program icon and automatically start playing; Unchecked, play the program directly.

<u>Plays video music by default</u>: After checking, "Video Material Plays Music" will be enabled by default for subsequent imported video programs, and the original video sound effects will be played automatically.

#### Note:

- 1. Since changing the content of the program needs to be buffered again, please try to turn this function on after setting the playlist.
- 2. "Brightness" is invalid for buffered files.
- 3. If the effect files are replaced in the RGB folder, it is necessary to manually restart the software and re-buffer it.
- 4. When the project on the disk space less than 2G, can not be buffered.

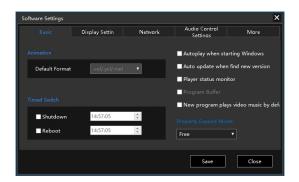
<u>Property Expand Mode</u>: Set how the properties interface should be displayed.

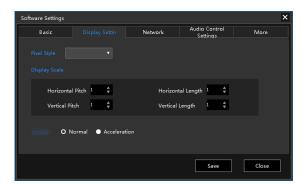
### 8.2.2. DISPLAY SETTINGS

Adjust the size of the playing area according to needs. Generally, the software will adjust automatically according to installation. The player will show the enlargement times of points and the

display points distance. The unit is Pixel.

Points distance in level=level distance-level points width. Vertical points distance=vertical distance-vertical points height.





#### 8.2.3. ETHERNET SETTINGS

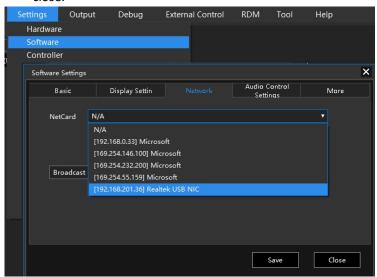
**Only be used in Ethernet PC on-line controller.** You can realize synchronization playing effects via cables connected to computer and controller. The operation below.

1. Make sure the computer with network card with cable sort. Connect computer to controller via cables. Check the network: computer (right click) – Properties – Device Manager – Network adapters



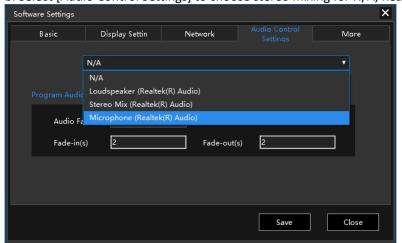
2. Select network card.

Software - Remind frame (if the software doesn't get the network card, this frame will pop.) — Confirm - Ethernet Setting - Single network card (network card set as "Realtek RTL8139/810x Family Fast Ethernet NIC") - Save to close.



#### 8.2.4. AUDIO CONTROL SETTINGS

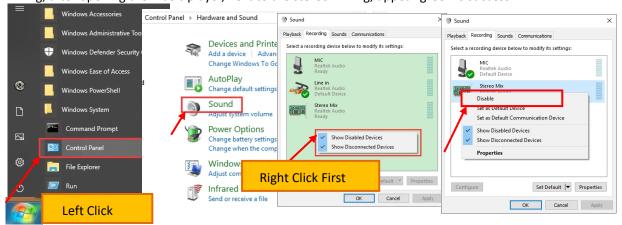
- 1. Audio control port setting of player.
- a. Open the player, and click the [Settings] [Software].
- b. Select [Audio Control Settings] to choose stereo mixing for N/A, Realtek High Definition Audio.



Microphone = sound control Stereo mix = sound control

Note: if there is no stereophonic mix in the option, On the other hand: open the control panel  $\rightarrow$  sound  $\rightarrow$  recording  $\rightarrow$ 

press the right mouse button in the blank  $\rightarrow$  make a "display of disabled devices"  $\sqrt{\rightarrow}$  right button selection after stereo mixing, after opening the music player, next to the stereo mixing, appear green is success.

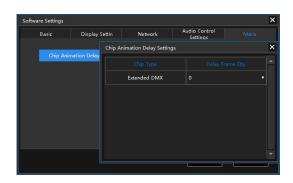


- 2. Play music in the computer, the music effects will show in the play area.
- 3.It will show the volume data if automatic switched with picture/music animation is enable. And if the volume is less than the setting, it will play the picture animations.

#### 8.2.5. MORE - CHIP ANIMATION DELAY

If one project uses several PCB Types of lighting fixtures which drived by several controllers, then the effect would play incontinuous caused by its IC difference. In this moment, user can manual set the delay time for the specific IC which to obtain sync effect.

Note: After select this function, effects in the lightings would be N frame delay when compared to the effects in LED Player, but the effects in lightings are continuous.



## 8.3. THE ADVANCED SETUP OF CONTROLLER

Controller replication, port replication, list controller channel sequence, SN controller partition, etc. Click [setting] - [Controller Advanced setting] to open the interface.

#### 8.3.1. CONTROLLER REPLICATION

Copy and use the data from the other controller to simplify LED Player design animation.

Click [setting] - [Controller Advanced setting] - [Controller Duplicate] to open the interface.

New Slave Set the number of controllers that need to be

copied.

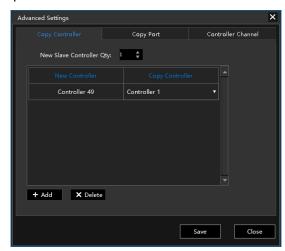
New Controller Add the maximum ID in the project. It will be

starting from 6, if there are 5 controller in the

wiring.

Copy Controller Only for copying the ID in the wiring. 1 to 5 is

valid if there are 5 controller in the wiring.



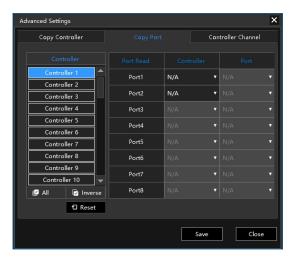
#### 8.3.2. PORT REPLICATION

We can specify either port to copy data from other ports.

Click [setting] - [Controller Advanced setting] - [Port Replication] to open the interface.

For PC control system, click "Save" to copy the port.

For SD card controller system, ports cannot be copied. Animation should be generated to bin file first. Only insert the SD card with the new bin file to controller, controller could be in a normal operation. Select the controller and the port that need to be copied.



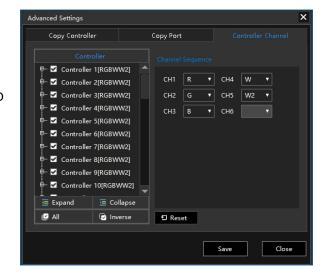
#### 8.3.3. THE CHANNEL SETTING OF SHIP

Set the channel color of chip.

Click [setting] - [Controller Advanced setting] - [Controller Channel] to open the window.

The selected controller / port can be set in channel order.

If single point/single port setting is required, refer to "COM AND POINT PARAMETER ADJUSTMENT".



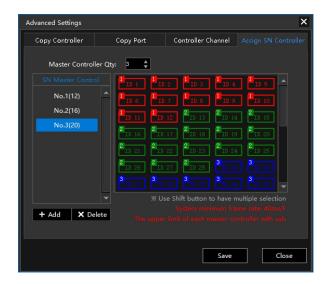
#### 8.3.4. ASSIGN SN CONTROLLER

Sets the number of intelligent control master control slave controls.

Click [setting] - [Controller Advanced setting] - [SN Controller Partition] to open the interface.

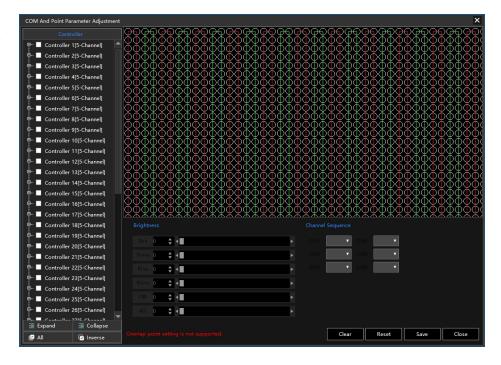
#### Operation:

- list the total console number, click [+ increase] / [× delete], or click the small triangle ▲/▼ on the right of "the number of consoles", you can increase or decrease the total control number.
- 2. Divide control ID3 and ID4 to connect to the third master controller. After selecting the third master controller, click ID3 and ID4. The same goes for other operations.



## 8.4. COM AND POINT PARAMETER ADJUSTMENT

Adjust the brightness and channel sequence of the single pixel / port. Click [setting] - [Com and Point Parameter Adjustment] to open the window.



# 8.5. THE CHIP SETTINGS

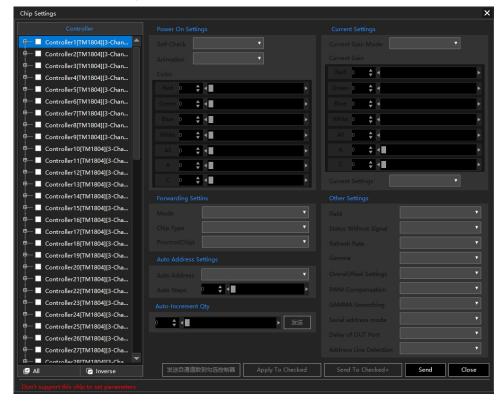
Some LED driver chips have built-in feature setting, you can specify the controller / port to list different chip parameters.

Click [settings] - [Chip] to open the window.

Different chips have different characteristic setting, including power on, current, forwarding, etc.

The white font on the interface indicates that it can be list. And while the gray font indicates that it can not be list, as if this parameter setting is not supported for some chips with no characteristics.

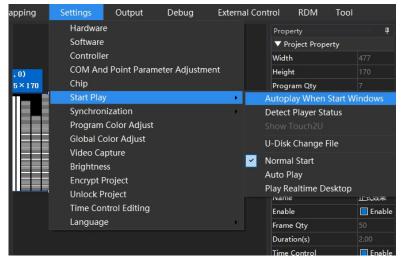
Note: for advanced applications, please do not list it at will to avoid abnormal engineering output. Or list up, first consult our technical personnel.



# 8.6. START UP

Select a different mode to start running the LED Player.

Click [setting]- [Start Play] to open it. In the drop-down menu that pops up, tick the desired way to run the software.



Boot Mode	Instructions
Auto play when	After selection, software would auto run once open the computer.
start windows	
Detect player	After checking, open the LED Player to automatically monitor the status of the Player.
status	
U disk for files	After selection, please run the LED Player and insert the U Disk that contain a SET of RGB folder. When the LED Player read the SET or RGB folder of the U Disk, the animation in the LED Player would stop to play and the LED Player will copy the SET or RGB folder of the U Disk to itself. When the new animation are copied completed, the computer would reboot, then the LED Player would run the new animation. It is suggested to copy the original SET and RGB folder before select this option. Normally, "Change File with U Disk" work with "Auto Play", especially, when the host computer doesn't connect with a monitor. (It would be convenience to change animation or project setting.)
Normal start	After select "Normal", the
	display window would not    Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material Mapping Settings Output Debug External Control RDM Tool Help   Project Material M
	show effect when open the
	Software in the next time.    It D Payer 12   500   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   10
Auto Play	After select "Auto Play", effects  Plo Reger 3  ×  Project Material Marging Settings Output Debug External Control RDM Tool Help
	would be auto play when open
	the software in the next time.



## 8.7. ADJUST THE SYNCHRONIZATION TIME

Adjust the synchronization time difference.

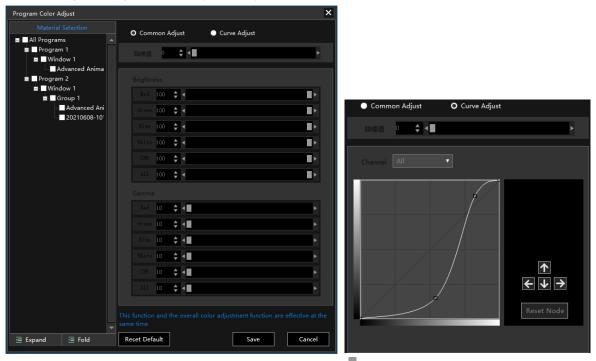
Click [setting] -[Synchronization] to open the interface for setting. The setting is valid in real time.



## 8.8. COLOR ADJUST

#### 8.8.1. PROGRAM COLOR ADJUST

The brightness gamma of color can be list uniformly on the selected material to make the effect file more beautiful. Turn this feature on in "Material Properties" - "Tune". Adjust the material, the material name will be blue. Click [settings] - [Program Color Adjust] to open it.



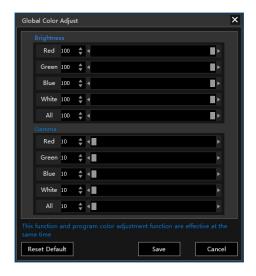
Common Adjust: Adjust brightness and gamma by dragging

Curve Adjust: A total of four nodes of curve adjustment can be adjusted. Click the node in the figure and drag it for adjustment, or click  $[\leftarrow]$   $[\uparrow]$   $[\rightarrow]$   $[\downarrow]$  for fine tuning.

#### 8.8.2. GLOBAL COLOR ADJUST

Sets and converts the color of the animation file Click [setting] - [Global Color Adjust] to open it.

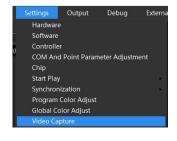
Can adjust the brightness and GAMMA according to the actual situation of the lighting fixtures. The on-line control system is [output] in real time and effective. And the SD card intelligent control system needs to synthesize SD.bin and replace the SD card files.



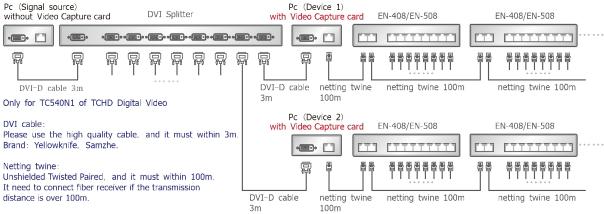
## 8.9. VIDEO CAPTURE

With Video Capture method, Animation, video or interaction in 1920x1080 high resolutions can be captured or output to the Device, then the multi-devices can show synchronous effect or continuous effect.

Click [Settings] - [Video capture] to open the setup window.

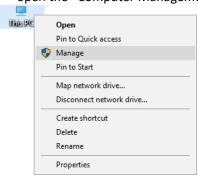


#### CONNECTION DIAGRAM:

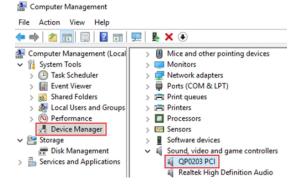


#### Operation:

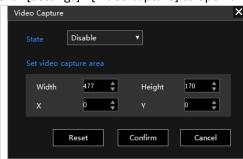
- 1. Please install "CODECS1.1.0.xxx.exe" and "DRIVER.QP0203.xxxx.exe" to the PC that have installed Video Capture card. After install the controls, please restart the PC.
- 2. After restart the PC, please inspect the Video Capture Card if in a proper installation. (The below settings are operated in WIN10-64bit.)
- 1) Right click "This PC" and select "Manage" to open the "Computer Management".



2) Check the device: QP0203 PCI will be found in the Device Manager, and there is nothing unusual with it.



3. Click [Settings] - [Video capture] to open the setup window.



Width / Height: the width / height to read the signal source. In the initial used, the value is defaulted to be the size of LED Player.

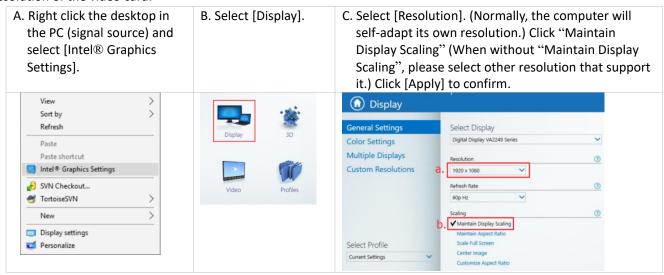
Suggestion: The size ratio should be in proper setting; otherwise the effect would be distorted.

X / Y: the initial position in the top left corner in horizontal to read the signal source. The default setting for the initial used is (0,0).

4. Click [Play], then play area would show signal source effect.

PC (signal source) support the format of video, picture and animation, etc. and multi-device can receive the image from signal source automatically and display it synchronously.

5. Please make sure the resolution of signal source (without connected the computer monitors) is the same as the resolution of the video card.



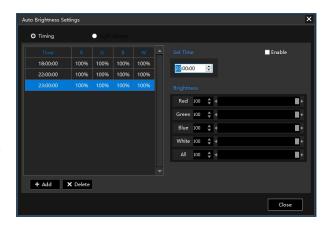
## 8.10. TIMING BRIGHTNESS TASK

Set the output brightness value of the online control item in the specified time.

Click [setting] - [Brightness] to open the setup window. Operation:

- Click [+ Add] / [× Delete] to add or delete the current time list.
- 2. Click the time to manually enter/click the setting.
- 3. Drag to adjust the overall brightness value..
- 4. check "Enable" that is effective, the lighting fixtures in the specified time can be corresponding to change.
- 5. Click [Output] in the main interface to play, you can see the output effect of timing adjust of brightness.

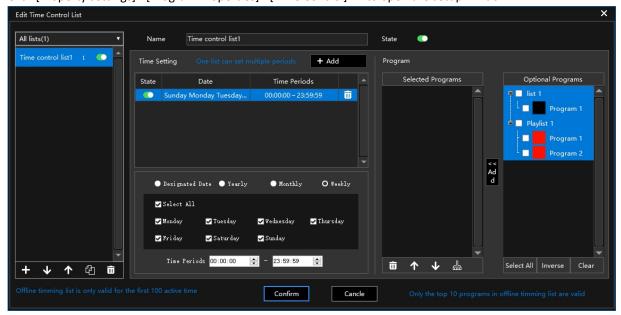
Note: The setup are only valid for online control items.



### 8.11. SETTING OF TIME CONTROL

Set a specific effect to be played at a specific time.

Click [Property settings] - [Program Properties] - [Time Control] to open the setup window.



### Setup:

- Click to add a new list. / Click to delete selected list.
- ◆ ↑ Click to move the list position.
  - Click to copy selected list.
  - State Enable or disable the list.
- + Add Click to add a new time information.
  - Date Set the time, Offers year, month, day, festival and other options
- Program Select the program to be broadcast at this time, Supports select all, inverse, and clear operations.
- Confirm Click to save the setup.

### **Enable program timing control:**

Finishing the setup, click 🔳 change to 🔲.

When the setting finished in PC system, click to become in order to activate time control list. Click to run the effects in time control list only.

When the list is well set in SD card system, please just merge the SD.BIN file and copy it into SD card.

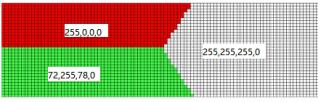
**The priority:** Program ranking determines the ranking of time control list, that is, it represents the actual priority of time control. The higher the ranking, the higher the priority.

**Quantitative Restrictions:** For SD card timing controller, maximum number of time control list will be 100 as well, but 10 types of effects can be set in each list.

## 8.12. COLOR SETTING FOR THE FORTH CHANNEL

When the project lists the four-channel chip, the output effect of the fourth channel is list in the main interface [Program Properties] - [Four Color Mode] (both offline and online are supported). You can select the four-color display from "project properties" - "four-color display mode" to view the effect.





Time Control

Enable

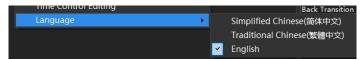
I.G.: Divide the screen into 3 areas. And set 3 color fixing areas, area 1 is red (255,0,0), area 2 is white (255,255,255), area 3 is green (72,255,78). Grayscale formula: Gray=R\*0.299+G\*0.587+B\*0.114 as shown:

Energy Saving 01  Energy Saving 02  Fill Light 01	If RGB exceeds the set value, RGB is light off and W takes the average value. (The standard value is 0.) If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.) W takes the average value of	Are Are Are Are	ea 1: 255, 0, 0 ea 2: 255, 255, 255 ea 3: 72, 255, 78 ea 1: 0, 0, 0 ea 2: 0, 0, 0 ea 3: 0, 0, 0 ea 1: 0, 0, 0	Area 1: Area 2:	0 0 0 85 255 135
Energy Saving 02 Fill Light 01	RGB is light off and W takes the average value. (The standard value is 0.)  If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.)  W takes the average value of	Are Are Are Are Are	ea 3: 72, 255, 78  ea 1: 0, 0, 0  ea 2: 0, 0, 0  ea 3: 0, 0, 0	Area 3:  Area 1: Area 2:	0 85 255
Energy Saving 02 Fill Light 01	RGB is light off and W takes the average value. (The standard value is 0.)  If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.)  W takes the average value of	Are Are Are Are	ea 1: 0, 0, 0 ea 2: 0, 0, 0 ea 3: 0, 0, 0	Area 1: Area 2:	85 255
Energy Saving 02 Fill Light 01	RGB is light off and W takes the average value. (The standard value is 0.)  If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.)  W takes the average value of	Are Are Are	ea 2: 0, 0, 0 ea 3: 0, 0, 0	Area 2:	255
Fill Light 01	average value. (The standard value is 0.)  If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.)  W takes the average value of	Are Are Are	ea 3: 0, 0, 0		
Fill Light 01	value is 0.)  If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.)  W takes the average value of	Are Are		Area 3:	125
Fill Light 01	If RGB exceeds the set value, RGB is light off and W takes the gray value. (The standard value is 0.) W takes the average value of	Are	ea 1: 0, 0, 0		135
Fill Light 01	RGB is light off and W takes the gray value. (The standard value is 0.) W takes the average value of	Are	.u 1. 0, 0, 0	Area 1:	76
-	gray value. (The standard value is 0.)  W takes the average value of		ea 2: 0, 0, 0		255
-	is 0.) W takes the average value of	Ale			180
-	_		ea 3. 0, 0, 0	Alea 3.	100
			ea 1: 255, 0, 0		85
	RGB.		ea 2: 255, 255, 255		255
		Are	ea 3: 72, 255, 78	Area 3: 1	135
Fill Light 02	If the light of RGB is insufficient	Are	ea 1: 255, 0, 0	Only the area 1 is compens	sated a
	(grayscale value is less than	Are	ea 2: 255, 255, 255	it is insufficient.	
	120), W shall be compensated	Are	ea 3: 72, 255, 78	Area 1:	76
	according to the graying				0
	formula.				0
Basic 01	If two values in R, G and B are	Are	ea 1: 255, 0, 0	Area 1:	0
	not the same, W is the	Are	ea 2: 255, 255, 255	Area 2:	0
	minimum value in RGB.	Are	ea 3: 72, 255, 78	Area 3:	72
Basic 02	If two values in R, G and B are	Are	ea 1: 255, 0, 0	As R of the area 2 = G, so V	V is 0.
	not the same, W is the		ea 2: 255, 255, 255	Area 1:	
	maximum value in RGB.		ea 3: 72, 255, 78	Area 2:	0
				Area 3:	
Basic 03	If two values in R, G and B are	Are	ea 1: 255, 0, 0	As R of the area 2 = G, so V	V is O.
	not the same (only need two of		ea 2: 255, 255, 255	Area 1:	
	them to be different), W is the		ea 3: 72, 255, 78	Area 2:	0
	average value in RGB.		, , , , , , , , , , , , , , , , , , , ,	Area 3:	135
Basic 04	Only when RGB is equal, and W	The RGB of area 2 is	s equal, so it is light off.	Area 1:	0
245.6 6 .	is equal to RGB too. Then RGB is		ea 1: 255, 0, 0		255
	light off.		ea 2: 255, 255, 255	Area 3:	0
	iigiit oii.		ea 3: 0, 0, 0	Aica 5.	O
White Light	W is the gray value of RGB, and	Are	ea 1: 0, 0, 0	Area 1:	76
Animation	RGB is light off.		ea 2: 0, 0, 0	Area 2:	255
			ea 3: 0, 0, 0	Area 3:	180
Lighting	Only W is bright, and the W	Are	ea 1: 0, 0, 0	Area 1:	100
J - U	value is specified externally		ea 2: 0, 0, 0	Area 2:	100
	variation opposition externally		ea 3: 0, 0, 0	Area 3:	100
Special 01	When RGB is greater than the	Are	ea 1: 255, 0, 0	Area 1:	76
-1-2	specified value, all channels will		ea 2: 255, 255, 255	Area 2:	255
	be bright. W is the gray		ea 3: 72, 255, 78	Area 3:	180
	value.(Standard value is 0.)	Are	La J. 12, 233, 10	Aled 3:	100
Same Gray Light	W is equal to RGB only if RGB		ea 1: 255, 0, 0	Area 1:	0
	values are equal.	Are	ea 2: 255, 255, 255	Area 2:	255
		Are	ea 3: 72, 255, 78	Area 3:	0
Fixed White Light	RGB keeps the same, and W	Are	ea 1: 255, 0, 0	Area 1:	100
	takes a specified value.	Are	ea 2: 255, 255, 255	Area 2:	100
	•	Are	ea 3: 72, 255, 78	Area 3:	100
4-Color Mix	RGB keeps the same, and W	Are	ea 1: 255, 0, 0	Area 1:	76
. JOIOI WIIA	takes the gray value.		ea 2: 255, 255, 255	Area 2:	255
	tanes the Bruy value.		ea 3: 72, 255, 78	Area 3:	180

OPTION	EXPLAIN	CHANNEL 1st 2nd 3rd	CHANNEL 4 <sup>th</sup> (Area 1,2,3)
4-Color Semi Mix	If R * G *B > 0, W takes the gray value.	Area 1: 255, 0, 0 Area 2: 255, 255, 255 Area 3: 72, 255, 78	Area 1: 0 Area 2: 255 Area 3: 180
High Light	W takes the maximum value in RGB.	Area 1: 255, 0, 0 Area 2: 255, 255, 255 Area 3: 72, 255, 78	Area 1: 255 Area 2: 255 Area 3: 255
Low Light	W takes the minimum value in RGB	Area 1: 255, 0, 0 Area 2: 255, 255, 255 Area 3: 72, 255, 78	Area 1: 0 Area 2: 255 Area 3: 72
Designated Channel	W is specified to be equal to one of the RGB.	Area 1: 255, 0, 0 Area 2: 255, 255, 255 Area 3: 72, 255, 78	Specify as R  Area 1: 255  Area 2: 255  Area 3: 72
All Color Needed	Work only if RGB values are bigger.	Area 1: 0, 0, 0 Area 2: 255, 255, 255 Area 3: 72, 255, 78	Area 1: 0 Area 2: 255 Area 3: 180
All Color Custom	RGBW are designated external.	Be 100.  Area 1: 100, 100, 100  Area 2: 100, 100, 100  Area 3: 100, 100, 100	Be 100.  Area 1: 100 Area 2: 100 Area 3: 100
All Color Disabled	RGBW set 0.	Area 1: 0, 0, 0 Area 2: 0, 0, 0 Area 3: 0, 0, 0	Area 1: 0 Area 2: 0 Area 3: 0

# 8.13. LANGUAGE

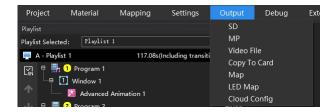
Set the display language for the LED Player, Simplified Chinese, Traditional Chinese and English are currently supported.



# 8.14. PROJECT ENCRYPTION

Encrypt the project to protect the project. This option is an advance application. If need more requirement, please contact our technical. In this option, the encrypted projects and the unencrypted projects cannot be used universally. If need us to program effects, please send the SET folder to us for arrangement.

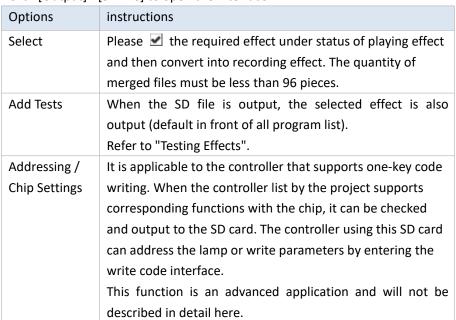
# 9. OUTPUT

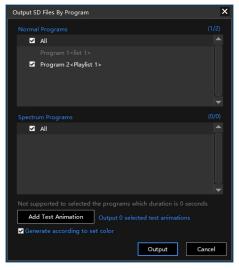


## 9.1. OUTPUT SD FILE

Generates SD.bin/N5.bin format effect file that the intelligent control controller can read. This file is encrypted which cannot open and modify directly.

Click [Output] - [SD File] to open the interface.





## 9.2. OUTPUT MP FILE

Read the effect and cut it into multiple effects of the same or different size to save in the specified folder. Click [Output] - [MP File] to open the window.



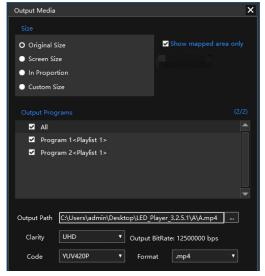
New Open the video file which is needed to transfer.

Output	Click and jump i	Click and jump in the Output MP file window refer to "OUTPUT MP FILE".						
	File Name	Show the video file routes which is reading.						
File Info.	Video size	Show the size of playing video.						
	Frame Count	Length of video.						
Record Settings	Set the starting / ending point of effect which needs to be converted; or move 🖸 to set the point							
	Information	Display the width, height, position name and coordinates of the recording edit						
Area Settings		box, and support stretching in the preview box by hand with the mouse.						
	Add / Delete	Add or delete recording areas.						
	Width/height	Set the size of recording area.						
Record Range	X / Y	Set the location of recording area.						
	Path	Generate effect file in RGB specified location.						

# 9.3. VIDEO FILE

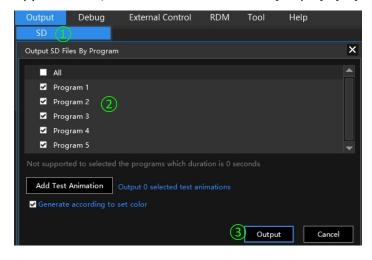
Select the animation file of the software, and output the video converted into AVI format.

Click [Output] - [Video File] to output.



## 9.4. COPY THE SD FILE

Copy the SD.bin /N5.bin file into SD Card. Click [Output] - [SD] and copy the file into SD card according to hints.



- 1 Click "SD" of "Output" in LED Player.
- 2 Select the program need to output.
- (3) Click "Output".

## 9.5. OUTPUT THE MAP

Output engineering installation and pixel map.

Click [Output] - [Map] or [LED Map], and the diagrams are save in the project folder.

# 9.6. CLOUD CONFIGURATION

The cloud control configuration file is generated and uploaded to the cloud platform for download and update. Click [Output] - [Cloud Config] to open the window and Select the required configuration information.



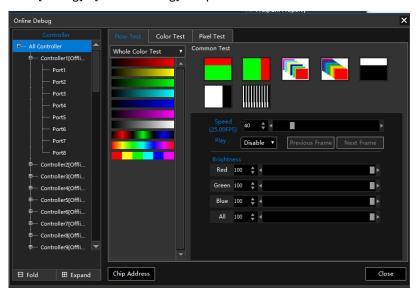
# 10. DEBUG



## 10.1. ONLINE DEBUGGING

In the on-line control project, debug the lighting fixtures on site and judge the connection and transmission status of the lamps and signals.

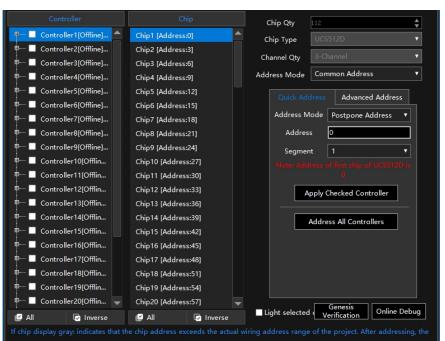
Click [Debug] - [Online Debug] to open the interface.



## 10.2. ADDRESSING

### 10.2.1. ADDRESS OPERATION

Access the controller correctly and open LED Player. Click [Debug] - [Address] to open the interface. After setting the chip address drove by the controller, click "Address All Controllers" to save address data into controllers.





Hardware	Controller	Shows the number of controllers in the project.  [Online] Indicates that the controller is connected properly.  [Offline] Indicates that the controller will not be able to address the lighting fixtures.  [Forbidden] Indicates that the driven chip is not DMX. It can be set at "Hardware" of "Settings".							
are	Chip	Shows the number of chips and address information. Maximum 960 chips per port.  If the chip address is beyond the actual wiring of project, the selected chip will not "light up".							
	Online Debug	Click and jump into the One Debug interface.							
	Chip Oty.	The number of single drive points set by Hardware Settings.							
	Chip Type	The chip set by Hardware Settings.							
	Channel Qty.	The channel set by Hardware Settings.							
	Address Mode	"Common Address" and "Auto-Increment"							
	Address Mode	"Unselect", "Postpone Address", "Use Same Address".							
Chip Address Settings		Unselect: When saving the current chip address parameter, the address of others will not change accordingly.							
dress		Postpone Address: When saving the current chip address parameter, the subsequent will automatically change according to the original channel value.							
Setting		Use Same Address: When saving the current chip address parameter, all chips are set the same address.							
	Address	Set the selected chip address. The chip list will be updated automatically after it is fill in the address.  Note, Please do not fill in the value exceeding total chips to avoid abnormal output.							
	Segment	Sets the number of pixels driven by the selected chip. The chip list is automatically updated after it be selected the number of segments.							
	Address All Controllers	Send the address parameters to all controllers.							
Addres	Advanced Address	Apply Checked Controller: Click to save the address parameter of the checked controllers.							
SS A		Address Current Port: Click to address the lighting fixture of current port.							
oplic		Address Current Controller: Click to address the lighting fixture of current controllers.							
lress Application		Address Checked Controller: Click to address the lighting fixture of the checked controllers.							
		Address All Controllers: Click to address the lighting fixture of all controllers. It would be addressed correctly if the controller is offline.							
_	Check it and click	the chip under a port. The chip will light up RGB (of RGBW). And the location of this chip							
Ligh	can be seen in the	e LED Player preview area.							
Light-up	Please ensure tha	it the data of LED Player is consistent with the address of the actual lighting fixture.							
3	(It is recommended that the luminaire be addressed once before lighting up.)								

## **10.2.2. UCCESSFULLY ADDRESSED AND SET PARAMETERS**

Chip Lighting color after power on	Lighting color	Addressed		Byte + No signal + No signal		Current parameter		Self-Channel Setting	
	First	Other	First	Other	First	Other	First	Other	
		chip	chip	chip	chip	chip	chip	chip	chip
UCS512A	White	Blue	Blue	-	-	-	-	-	-
UCS512A1	White	Blue	Blue	-	-	-	-	-	-
UCS512A2	White	Blue	Blue	-	-	-	-	-	-
UCS512B3	White	Blue	Blue	-	-	-	-	-	-

	Lighting color	Addressed		Byte + No signal + No signal		Current parameter		Self-Channel Setting	
Chip	after power on	First chip	Other chip	First chip	Other chip	First chip	Other chip	First chip	Other chip
UCS512C	Custom	White	White	-	-	-	-	-	-
UCS512C0	-	White	White	-	-	-	-	-	-
UCS512C3	Custom	White	White	Red	Red	-	-	-	-
UCS512C4	Custom	White	White	Red	Red	-	-	-	-
UCS512CN	Custom	Yellow	White	Yellow	Power on	-	-	-	-
UCS512D	Custom	Yellow	White	Yellow	Power on	Yellow	Red	-	-
UCS512E0	Custom	Yellow	White	Yellow	Power on	-	-	Yellow	Green
UCS512EH	Custom	Yellow	White	Yellow	Power on	Yellow	Red	Yellow	Green
UCS512G4	Custom	Yellow	White	White (Or custom)	White (Or custom)	White	White	-	-
UCS512G6	Custom	Yellow (Or custom)	White (Or custom)	White (Or custom)	White (Or custom)	White	White	-	-
DMX512AP	-	White	White	-	-	-	-	-	-
SM16512	-	Green	Green	-	-	-	-	-	-
SM16511	-	Green	Green	-	_	-	-	-	-
SM16520	-	Green	Green	-	-	-	-	-	-
SM16500	Custom	Red	Green	Red	Power on	-	-	-	-
SM17500	Custom	Red	Green	Red	Power on	Red	Yellow	Red	Purple
SM17512	Custom	Red	Green	Blue	Blue	-	-	-	-
SM17522	-	Red	Green	Red	Blue	Red	Yellow	-	-
SM18522P	-	Red	Green	Red	Blue	Red	Yellow	-	-
SM18522PH	-	Red	Green	Red	Blue	Red	Yellow	-	-
SW-D	-	Yellow	Green	-	-	-	-	-	-
Hi512A4	Custom	Red	Green	Red_	Green	-	-	-	-
Hi512A6	Custom	Red	Green	Red	Green	-	-	-	-
Hi512A0	-	White	White	White	White	-	-	-	-
Hi512D	-	Red	Green	Green	Green	Green	Green	-	-
Hi512E	-	Red	Green	Green	Green	Green	Green	-	-
TM512AB3	White	Blue	Blue	-	-	-	-	-	-
TM512AL1	White	Blue	Blue	-	-	-	-	-	-
TM512AC0	-	White	White	-	-	-	-	-	-
TM512AC2	Custom	White	White	-	-	-	-	-	-
TM512AC3	Blue	White	White	-	-	-	-	-	-
TM512AC4	Blue	White	White	-	-	-	-	-	-
TM512AD	Blue	Yellow	White	Yellow	Power on	Yellow	Red	-	-
GS8512	Custom	Red	Cyan	-	-	-	-	-	-
GS8513	Red+Cyan	Red	Cyan	-	-	-	-	-	-
GS8515	Red+Cyan	Red	Cyan	-	-	-	-	-	-

# 10.3. CHECK ON-LINE STATUS OF CONTROLLERS

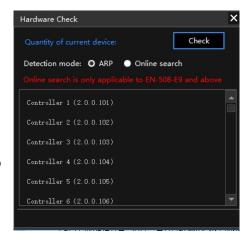
Check the connection status of the EN controller.

Click [Debug] - [Check Status] to open the setup window.

Click "Check" to automatically detect the state of controllers.

The hardware that is properly connected is displayed in green. At the same time, the network segment of the computer network card is detected. If an invalid network segment is detected, the system prompts you to set a network adapter.

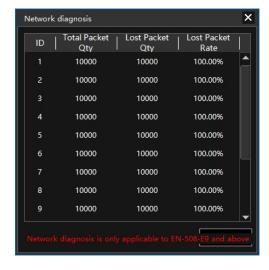
Note: Please confirm whether the IP of the computer has been set to the static IP address "2.0.0.98".



## 10.4. NETWORK DIAGNOSIS

Check the network status between computer and EN controller. Click [Debug] - [Network Diagnosis] to check.

The lower the packet loss rate, the higher the communication quality. Note: Please confirm whether the IP of the computer has been set to the static IP address "2.0.0.98".



# 11. EXTERNAL CONTROL



## 11.1. CONTROL DMX512 CONSOLE

(With our customized hardware) When enabled, LED Player output animation and speed can be controlled through DMX512 console.

Click [External Control] - [DMX] to open the interface and set the channel corresponding function of DMX console.



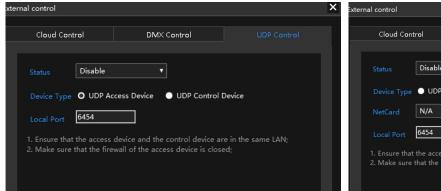
## 11.2. UDP CONTROL

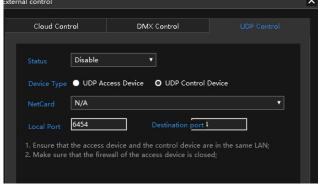
Through UDP protocol, can realize any device control LED Player output animation and speed.

Click [External Control] - [UDP] to open the interface and set.

#### Requirements:

- 1. All equipment should be in the same LAN.
- 2. Only one host can be configured on a LAN.
- 3. One device can only enable two LED players at the same time.
- 4. The number of frames and files of the effect need to be consistent.





## 11.3. CLOUD CONTROL

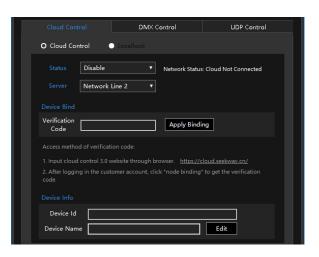
After the software is bound to the cloud platform, the LED Player software can be remotely controlled through the cloud platform.

Click [External Control] - [Cloud] to open the interface and set.

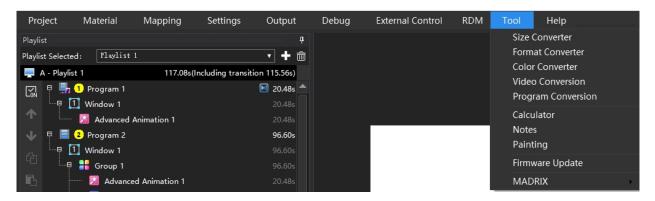
Only when enabled can the software be controlled by the cloud platform.

The server shall be selected according to the information provided by our company.

Enter the verification code provided by the cloud platform in the verification code. Click "Apply binding" to link.



# **12. TOOLS**



## 12.1. CONVERTING THE SIZE OF ANIMATION

Convert effects of different sizes to each other.

Click "Tools" - "Size Conversion" to open the convert window.

Note: Apply to \*.cel/.yel/.mel file only, \*.bin/.yin/.min will become messy code after transformation.

If the effect in \*.bin/.yin/.min format requires to convert the size, please convert the effect file from

File Size Conversion

Final Width 96

O Center

None

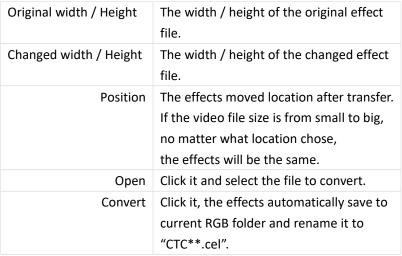
\*.bin/.yin/.min to \*.cel/.yel/.mel by the player, then convert the size of effect.

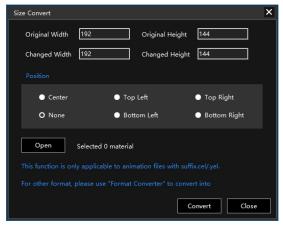
Initial Width
It shows the effects' width on initial player.
Initial Height
It shows the effects' height on initial player.
Final Width
It shows the effects' width on the modified player.
Final Height
Location
The effects moved location after transfer.
If the video file size is from small to big,

no matter what location chose, the effects will be the same.

Open Click it, select the effects need to transfer. Open confirm. the effects automatically save to current RGB folder and rename it to "CTC\*\*.cel".

If need to transfer in large quantity, please multi-choose to transfer in the open dialogue.





Initial Height 32

Final Height 32

RightTop

RightBottom

Open

O LeftTop

O LeftBottom

This function is only applicable for Cel, Yel, and Mel

Please convert other format effects to specified format first.

Tips: When doing this transfer in the 64W\*64H player, please change the Final Width and Final Height to 32. Then copy the effects named first letter CTC\*\*\*.cel in the RGB folder of the 64W\*64H player into RGB folder of the 32W\*32H player.

## 12.2. CONVERTING THE FORMAT OF ANIMATION

Effect files that convert to different formats. Be used in the different files format transfer.

Click "Tools" - "Format Conversion" to open the convert window.

☆ Which application is suitable?

No relations with connection and PCB, the. cel file can be used good in the same size player. The PCB and Size of New Player is the same as the Old Player except the wire distribution. We can change the effects of the old player to. cel format. Generally, it is. cel, but .bin is special format.



### 12.3. CONVERTING THE COLOR OF ANIMATION

Removes and converts a color of the animation file.

Click "Tools" - "Color Conversion" to open the convert window.

Converted mode: The five conversion processing methods are shown in

the table below.

Different conversion methods, color processing results are not consistent.

Color: Select a color in to select a color.

Open: Click "Open" to select the effect file that you want to change the color of (multiple options are supported).

Convert: Click and the new effect will be automatically renamed and stored in RGB in the project folder.



List of conversion modes:

Conversion Modes	Instructions
Gray Scale	The effect color after transformation will become corresponding single color grayscale according to ratio of original effect colors.
Solid Color	Except pure black, the color selected would be changed to 100% other color.
Color Rate	Except pure black, the color selected would be changed to other color in proportion.
Color Remove	Remove specific color in one animation.
Channel Color Remove	Remove red or green or blue at random.

## 12.4. CONVERTING THE VEDIO

Read and record the converted imported video.

Click "Tools" - "Video Conversion" to open the convert window.



### Note:

Converted effect files support
RGB 3 channels only, the 4th
channel is not supported.
Only support the video formats in
MJPEG, MPEG4, XVID and H264.
Please try to use lossless video
for reading and converting.

Function		Instruction					
New	Open the video file	which is needed to transfer.					
Save	Click it and save au	tomatically the video file into RGB folder.					
Output	Click and jump in t	he Output MP file window refer to "OUTPUT MP FILE".					
	File Name	Show the video file routes which is reading.					
File Info.	Video size Show the size of playing video.						
THE IIIIO.	Original Speed	Read the speed of video automatically.					
	Frame Count	Frame Count Length of video.					
Video Scale	Scale the video in	•					
Duration	Set the starting / e	nding point of effect which needs to be converted; or move $lacktriangle$ to set the point.					
	Convert (FPS)	Change the value to make the converted effect faster or slower.					
Generate	Video Noise	Filter out the redundant video noise, and the default noise is 10.					
	Quickly generate	The generated effect file is specified at RGB.					
	Width/height	Set the size of recording area.					
Record Range	X/Y	Set the location of recording area.					
	Reset	set Click it and the record area will be restored to the initial setting.					
Capture	You can stretch the	You can stretch the screenshot window at will. Press the Ctrl key and stretch the screenshot					
window	window at the same time to achieve the same proportion of stretching						

# 12.5. CONVERTING THE PROGRAM

Output the program in the project to the LED Player format and store it in the specified RGB folder.

Click "Tools" - "Program Conversion" to open the convert window.

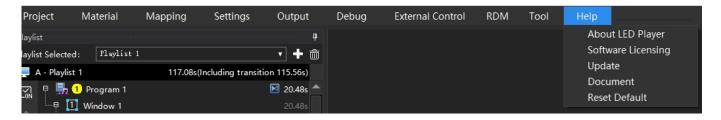
- 1. Check the program you want to convert.
- 2. Select the format want to convert.
- 3. Click "Convert" and start to save the new file in the RGB folder.



# 12.6. THE CALCULATOR, NOTES AND PAINTING

Call open the computer's calculator, notepad, drawing tools, convenient for users to use.

# **13. HELP**



## 13.1. ABOUT LED PLAYER

Display the LED Player version, and the copyright of software.



# 13.2. SOFTWARE LICENSING

Advanced software application permissions.

## 13.3. UPDATE

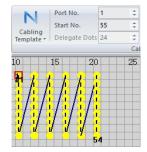
Detect software version and support online update.

## 13.4. HELP DOCUMENTS

Jump to our official website, and download the LED Player manual.

# 14. MAP TOOL

Apply to irregular arrangement projects such as colorful character, cable-stayed bridge, 3D sphere and etc.







case 1: N style

Case 2: Pattern style

Case 3: Text style

## 14.1. FILE



File New, Open, Save.

Edit Undo and Redo.

Scale Zoom in or out the map. User can input value in the Grid Size to adjust the mapping size.

Click "Zoom to matching screen", a complete mapping would display in the screen.

View Display of grid in editing area, display of all number and main number of lighting fixture.

Windows Software view setting.

mapping settin Select to display information bar, pop up information bar of mapping setting.

g Select it, controller No, port No, dot qty. Other options can be list "mapping setting" could be also open by double clicking the dot in the mapping.
 It can check and alter the Controller (C) x, Port (P) y, Dot (D) z. And the information shows #x-y in the mapping area.

Loca setting Select it, LED qty in each line segment can be revised. "Loca setting" could be

also open by double clicking the line that does not snap to the grid.

Unlinked Dots Select it, the dots that haven't be connected can be shown or hided.

setting "Unlinked Dots" window could be also open by double clicking the dots in the

mapping haven't been connected.

Select "select", dots that haven't be connected can be shown.

Select "skip", dots that haven't be connected would be hidden.

Color setting Select it, the "Color setting" window will pop up. Color of dot and connection

line can be list. After double click the color setting window, color disk will pop

up. User can select the color for the corresponding pot.

Model setting Select it, the "Model setting" window will pop up.

Please refer to provided videos for operation or refer to the Model Chapter.

Help Select it, the "Help" window will pop up. It is still under development.

Check After the mapping is completed, click "Check" and to verify if the information from the prompt is correct.



## 14.2. TOOLS

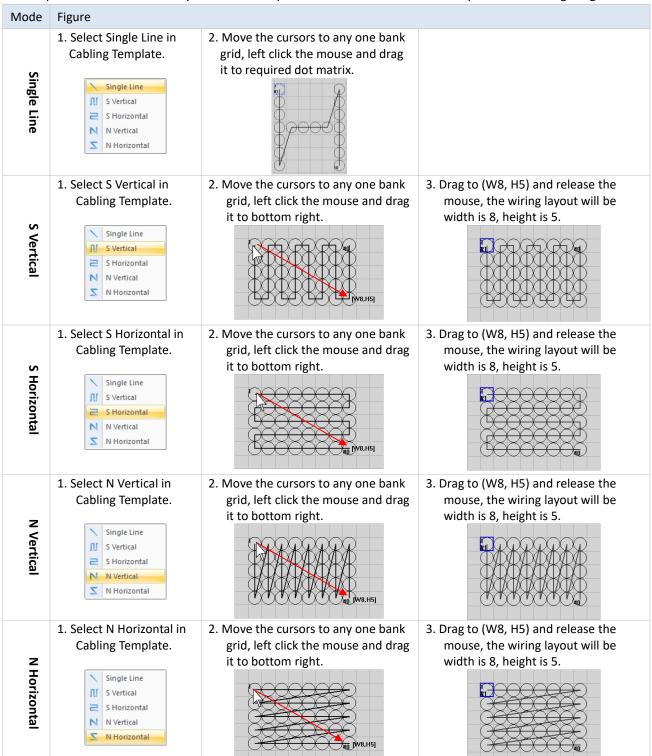


### 14.2.1. SELECT

Select, Select All and Deselect All. Select the dot matrix needs to be modified and get ready for further operations like copy, cut, paste, delete, etc.

### 14.2.2. CABLING

Set the position of LED and its layout. The initial position of the dot is the cable-in position of the lighting.



Port No. Set the number of the port. If the dot capacity has reach maximum when under mapping, the dot capacity would be updated automatically.

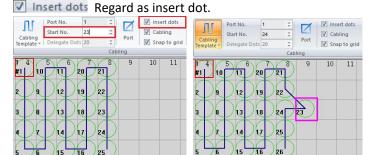
After mapping, user can set the serial number and select "Port". Left click the blank to confirm the initial position of dot, loose the mouse to reset a new port.

Start No. First number of lamp in cabling. It can input manual.

Delegate Dots It is used for the dot without in the grid. The line will be made the number of dot that are Delegate Dots.

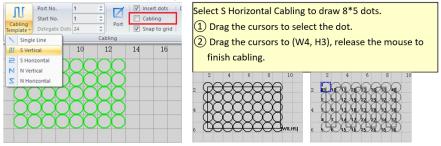
Port Enter the required number in Port No. and select it, then click dot that needs to be modified.

**Insert Dots** 

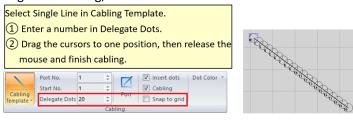


Insert dots If the number of additional dots is the same as existed dot, it cannot be inserted.

Cabling It is selected as default option, draw the dots with lines. When unselect it, draw the dots without lines. (Do the mapping for the dots that haven't been connected.)



Snap to grid When unselect it, the dot may not be in the grid. When enter a number in Delegate Dots with single line cabling, all the lines will be made with the number of dots set in delegate dots.



Dot Color Select one part of dots, click dot color to change the color for dots.

#### 14.2.3. REGULAR CABLING AND SELECT

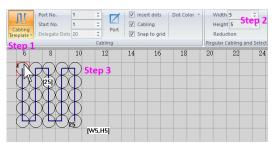
Input number to list the dot qty in width and length.

Click Select / Cabling Template, enter the numbers in width and height, click the corresponding position to list the dot number.

The size of the mapping can be used in conjunction with [Cabling Template].

Note: It must be valid when the data of Width/Height is greater than one.

For cabling.



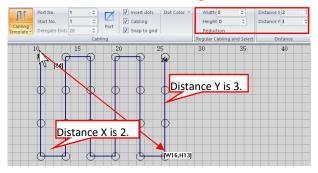
For select.

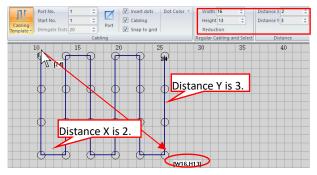
Select All Select All Inverse Step Select	Cabling Template > Port No. Start No. Delegate D	1 26 ots 20	Dort Cabling	<b>V</b> Cal	ert dots bling ap to grid	Dot Color	Heig Red	Ste	p. 2
2 4 4 4 4 4 6 6	6 8	10 S M3,H3]	12 tep 3	14	16	18	20	22	24

#### **14.2.4. DISTANCE**

According to the actual distance between two lightings, input the distance value to make an actual layout, so as the animation in a proper scale. Select "Cabling Template" and input value to make a distance between each dot.

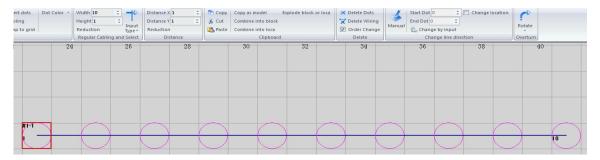
Note: the size of the width and length has included the dot distance.





The size of wiring = dot size + dot distance \* (dot size - 1).

E.g. set the dot width is 10, height is 1 and distance X is 1, the wiring width is 19.



#### **14.2.5. CLIPBOARD**

Copy, Cut, Paste, Copy as Model.

Must select the dot matrix first, then continue the functions of copy, cut, paste and build model.

Cut Select LED dot matrix and click Cut in TOOLS / press <Ctrl> + <X> buttons, then paste in other positions. It can use with Insert Dots.

Copy Select LED dot matrix and click Copy in TOOLS / press <Ctrl> + <C> buttons, then paste in other

positions. It can use with Insert Dots.

Paste Select LED dot matrix and click Paste in TOOLS. Operation is the same with cut LED dot.

Copy as Model Select the dot and follow the prompt to operate. Please refer to Model chapter or videos for

reference.

Combine into block Click and create the selected dots into block (triangle is in the dot). And it is convenient for

subsequent altering the dots.

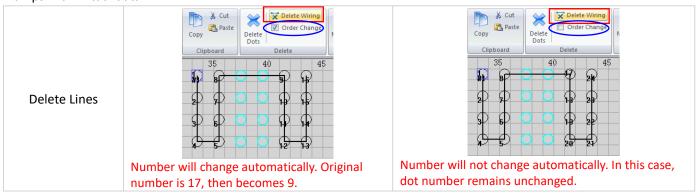
Combine into Loca Click and create the selected dots into Loca (square is in the dot). And it is convenient for

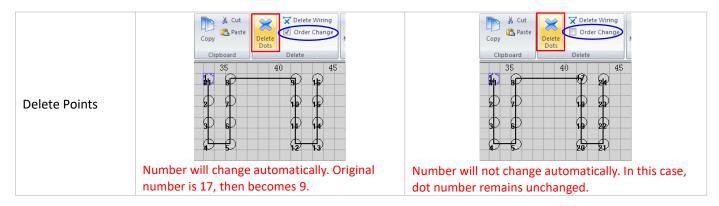
subsequent altering the dots. It would be Loca if the dot is mapping without snap to grid.

Explode block or Loca Break the block and Loca down. And it is convenient for altering the single dot.

#### 14.2.6. DELETE

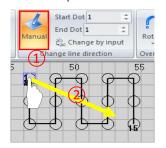
Delete Dots and Delete Wrings. Order Change is default selection. In general, Order Change is not selected for special lamps with virtual data.

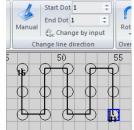




#### 14.2.7. CHANGE LINE DIRECTION

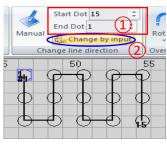
Use this option to revise the layout when the mapping reverses the direction.

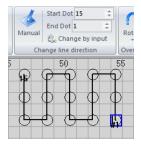




Steps of changing direction of cabling manually.

- (1) Select Manual.
- (2) Click Start dot and drag it to the End dot; or do it inversely.





Steps of changing direction of cabling automatically.

- (1) Enter the value of Start dot and End dot.
- 2 Click the Change by input to change the direction of cabling automatically.

### **14.2.8. OVERTURN**

Rotate specific dos in different ways. Please select the dot matrix before rotation. Drop-down list includes 6 options. The results of the 6 different screenshots are different.

Note: Custom angle (shortcut key Ctrl+Shift+6).



### 14.2.9. MODEL

For special connection of lightings. the following example operations.

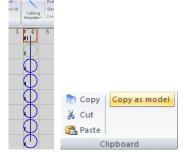


The red arrow refers to the direction.

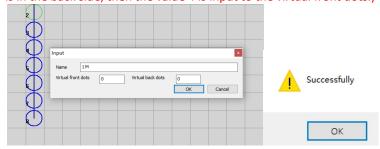
For the pixel composing of PCB is 6px/tube, if the lighting is shorter than 1m, we should set a virtual dot to be still 6px.

A. We could make models of 2px/0.3m, 3px/0.5m, 4px/0.7m, 6px/1m according to the actual size.

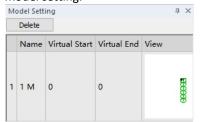
1. After draw 6px, then click Copy as model



2. Save the model in the Input. If the model is 2px/0.3m, we should set the virtual back dot to be 4, and then the pixel qty is still 6px. (If we use the 2px is in the back side, then the value 4 is input to the virtual front dots.)

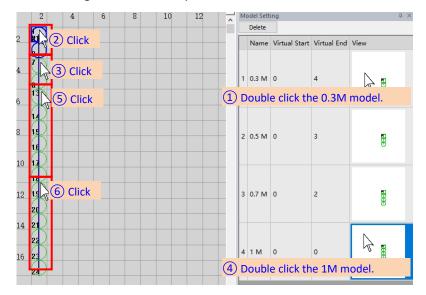


3. We could find the model in the model setting.

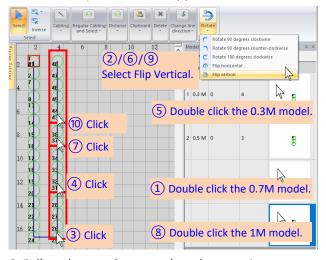


4. Use the same methods to save the 2px/0.3m, 3px/0.5m, 4px/0.7m model.

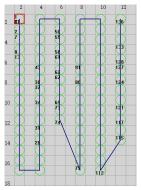
- B. Apply the Template.
- 1. Double click to copy the model in the Model Setting, then apply the model to make the connection in the mapping according to the actual requirement.



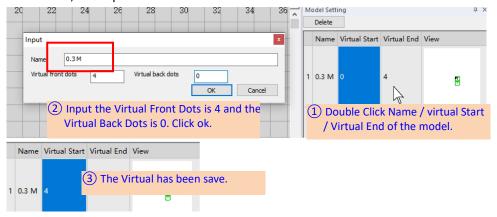
2. Double click to copy the model in the Model Setting. User can use the rotate function to make the model in a correct direction. (Each time to copy the model, rotate function should be selected once more.)



C. Follow the step 2 to complete the mapping.



D. If need to update the information in the model setting, user can double click the blank in the name/ virtual start/ virtual End, and input the value.



## 14.3. IMAGE

Import other photos in different shape and do the mapping according to the photos layout.



Image Click Import then get the background image.

Click Delete then delete the imported image.

Adjust Arrange the image to make each dot locates in one grid. In this case the mapping will be more accurate and easier.

Move Click to move the image. In general, "Image can move out" is not selected. If the white spaces are large when the image locates in the center of grid, then use this function to move the image out of the grid in order to decrease white spaces.

Zoom In / Out Width and height of grids get 10 pixels bigger / smaller. Or enter the proportional value of width and height manually.

- (1) Zoom in or Zoom out the background image if it is too big or too small.
- (2) If the background image is appropriate, adjust the grid to operate.
- Suggestion: Zoom in or out in scale to avoid any distortion.

View Image will show in the mapping with Show image. Image will be hiden with Show image.

Lock Image and Grid After the background dot matrix and grids are well adjusted, please lock the image and grid in order to make the image zoom in or zoom out together with grid, which is convenient to draw single line cabling. For further adjust, please unlock it first then repeat previous step.

When lock image and grid, Zoom keys are disabled.

When unlock image and grid, Zoom keys are available.





## **14.4. IMPORT**

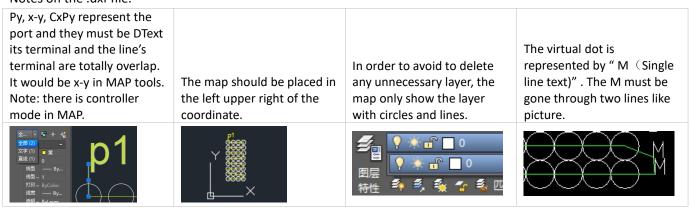
Import and convert the DXF file to the dots that RGBPlayer can read.



[Project Width] The total dots width of the dxf. file imported. If the dot size of DXF file is relative big or small, it is better to input the value to make a manual adjust.

DXF	Specification	Check the Option	Remarks
	Line between two dots is independent line or a polyline and it goes through the circle center.	<ul> <li>✓ Separate line between two dots</li> <li>✓ Only import dots</li> <li>✓ Snap to grid</li> <li>✓ Line through the center dot</li> </ul>	
	Line between two dots is independent line segment, but it doesn't go through the circle center.	✓ Separate line between two dots  Only import dots  Snap to grid ✓ Allow the line segment to deviate from the center%  (1-100)  1	Please list the data to allow the line to deviate from the dot center. The data keeps no more than 50%.
	Only one line go through the starting point and end point. The center of the circles are on the line.	✓ Separate line between two dots  Only import dots  Snap to grid  Line through the center dot	If select Separate line between 2 dots, after import the DXF to map, the Circle 2 and 3 would not have a connection line. Circle one and circle four would become a signal input port.
	The imported points will align the grid.	Snap to grid	If checked, the imported points will align with the grid and the original position structure may be changed.

Notes on the .dxf file.



Please clean up all unnecessary images after drawing and avoid errors in importing. Enter PU into the command bar in CAD to clean-up.

## 14.5. TEXT

Design and import the text rapidly. (No connection lines between the text.) User can use the Tool to do the connection.



## 14.6. **EXPORT**

Export the project mapping in .png and .dxf format for convenient installation.



## 14.7. CONTROLLER SELECTION

Select the master control and view the controller information.

