

## LedSet User's Manual

V2.7.6



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LedSetV2.7 is a software for setup only, such as generating .RCG&.CON file, brightness control and monitor, etc. For playing videos or pictures, please use LEDStudio.

### 1. Interface

After installing and launching LedSet on your computer, you will see the following interface.



**Note**: You have to connect the USB cable from PC to sending card **before** you do the setup (such as generating .RCG&.CON file, brightness control and monitor and etc.).

## Linsn Technology 1.1.Screen Configuration



Screen Configuration: to generate/adjust .RCG/.CON file via sender/receiver/display connection inferface

## 1.1.1. Instruction to Sender/ Receiver/ Display Connection

#### \*Sender

**Note**: The key thing needs to be set on the sender page is **Resolution** when you are trying to set the sending card. Please adjust the resolution to the same as your computer's resolution. If you have video processor connected, please keep sender's resolution the same as the processor's output resolution. After everything is done, click **Save to sender**.

ō	Hardware Setup			- [	⊐ ×
	Sender	Receiver	Display Connection		
	Hardware Device type Model Hardware Display Mode	Send card T5921 93.63		COM Port COM3 V Sender No. 1	
	Resolution Screen Parameters	1920X1080	~	Display frequency: Unknown Custom Rotation © 0 90 180 270 Mirror	
	Start X Start Y Manual brightness Screen power Video output mod Video rotation an	Auto on/off	Width     1       Height     1       ○ 64     ○ off	Other Options  Charles Brightness Calibration  Monitoring Card/Cabinet Enable LED Error Detection Allow light intensity Broadcast display connection Enable Auto-adjust Brightness	
			_	Default Save to Sender Advanced	

•Hardware



If the sending card communicates with the PC well via the USB cable, infomation of **Hardware** and **Model** will be shown as in figure below.

Haruware				
Device type	Send card			
Model	T5921	COM Port	сомз 🗸	Check Current Hardware
Hardware	93.63	Sender No.	1	

If hardware error and Unknown appears like the following figure, please check the USB connection before you do the setup.

Haruware				
Device type	Send card			
Model	Unknown	COM Port	сомз ~	Check Current Hardware
Hardware	Hardware error	Sender No.	1	

#### •Display Mode

This option is to set the resolution/frequency of the sending card. Commonly keep it the same as your monitor's/video processor's output.

Display Mode				
Resolution	1920X1080 ~	Display frequency: 60.115HZ	Custom	

#### •Other options

- •Enable Calibration: select it to use the loaded calibrating data
- •Monitoring Card/Cabinet: select it enable the **Cabinet Monitoring** function
- •Enable LED Error Detection: requires the LED module to use pixel-detection IC and new type of receiving card
- •Enable Auto-adjust Brightness: select it to enable the auto- adjusting brightness function
- Allow light intensity: option for enabling light sensor on sender
- Broadcast display connection: auto-sending display connection when replacing receiver

#### •Screen Parameters

- Set width: use in some situation
- Start X/Y: set the coordinate of the display area
- Width/Height: zoom in image of the desktop

**e.g.** If you have a LED screen whose size is 512\*256 pixels, and the resolution of you monitor is 1024\*768 pixels. For zooming in the image of the monitor to fit into the LED screen, you need to: a.Calculate width=512/1024= 0.5; height=256/768=0.33. b.Input the width and height respectively. c. Click **Save on Sender** 

Manual brighness: set the brightness asjustment scale for sender boxScreen power: Auto on/off is set by default

	Linsn	Technology
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Screen Parameters				
Set width		1024		
Start X	0		Width	1
Start Y	0		Height	1
Manual brightness	<b>O</b> 16	<b>○</b> 32	064	
Screen power	◉ Auto on/o	off	Ooff	
Video output mode	:	Normal	$\sim$	
Video rotation ang	le:	0	•	

#### Rotation

Rotate the image that the sending card connecting to.

#### \*Receiver

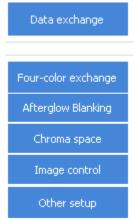
**Note**: Do not click **Send to Receiver/Save to Receiver** if you are not familiar with Linsn's control system

🐻 Hardware Setup					-	×
Sender	Receiver	Display Connection				
Module Info Drive IC : File	MBI5041B V	-	II-color real pixel 6 scan 12 rows/zone		Module Info	
Load Capacity Setup Actual width Actual height :	128     ▲     <=1533	Cascade direction Out Mode	From right to left $\checkmark$ Normal $\checkmark$	Card Mode	Normal(16 data) V	
Effects Setup Refresh FRQ Scan clock	660 V HZ	Synchro refresh Duty ratio	Auto V Hz		Four-color exchange	
Phase of clock Row blanking time	3 v 300 • ns	Gray level Grey mode	65536 V Level		Chroma space	
afterglow time newline	0 (1 ~ -1) 0 (0 ~ -1)				Other setup Extended	
Brightness efficiency	(including blanking): 99.0%	New fra	mework			
Param readback	Load from file S	iave to file Send to Rece	iver Save to Receiver		Restore factory Data	

•Actual width/height: Load the correct .RCG file, before you send it to the receiver; please make sure that the actual width and actual height are the same with the panel of one receiver carrying. For example, you have a panel with W96\*H96 pixels, so you have to input W96\*H96 in software.



- •Synchronous refresh: Tick it to make the LED screen synchronize with computer, and refresh rate is multiple of graphic card frequency. If the module is using PWM IC, this option would be locked.
- •Scan clock: It depends on the design and performance of the module. The better performance gets by higher scan clock, resulting in longer width of receiver supports. Generally 16.67 or 18.75 MHZ is recommended.
- •Gray level: High gray level means high quality of display effect and stronger color expression of LED screen. Generally for dual-color screen 256 gray level is enough. For full-color screen, it is suggested to use 65536 (select high refresh mode in Gray mode).
- •Gray mode: This can be switch between high and low refresh mode, in low refresh mode the refresh rate is lower, generally high refresh mode for full-color screen is recommended.
- •Row blanking time: Effective value: 10-200000. If lower ghosting effect appears, changing this option can reduce it. Note: The higher low blanking time is lower brightness.



- **Data exchange:** exchange the data sets
- •Four-color exchange: exchange the color settings in RCG file
- •Afterglow Blanking: for special LED module design setup
- •Chroma space: use with light scanner to correct color difference
- •Image control: set a specific image when there is no signal
- •Other setup: for special LED module design setup



#### Display Connection

🐻 Hardware Setup				- 🗆 X
Sender	Receiver	Display Connection		
Setting Mode O SON	1 Card (	Normal     Ocomplex	Display QTY - 1 +	Reset display Operation
Type       real pixel display         Sender No.       1         Network port       2(D)         Selected Card informati       1         Extension cable       1         Order No.       3         Width       12!         Height       64!         Show Connection Lin       64!         Show Connection Link       64!         Show Connection Link       64!         Order No.       3         Width       12!         Height       64!         Show Connection Link       64!         Module and Calibration       64!	<= 64	1 OrderEn.:3 Order No.:2 Orde Width_28 Width:128 Widt Height:640 Height:640 Heigh	Vertical card 1 All Reset	
Background F	Param readback	Load from file Save to file	Send to receiver Save to receiver	Param send setup

- •Display QTY: In most case just keep this to 1.
- •**Reset display**: clear all the data in CON file
- •Receiver No:

Horizontal card 8 :enter the number of the receiving cards in width (try clicking on the text box and scrolling the mouse wheel)

• Vertical card 2 : enter the number of the receiving cards in height (try clicking on the text box and scrolling the mouse wheel)

All Reset : to clear all the info(order/width/height) in each square

: to clear the info(order/width/height) for the selected square

**EXAMPLE** :zooming out; zooming in; back to the original size

	eiver No. orizontal card	8	. Vertica	card 2	• A	ll Reset	⊗ (♠	A C	<b>D</b>
Ĩ	1	2	3	4	5	6	7	8	
	No.:1-U-1 Order No.:0 Width:0 Height:0								
2	No.:1-U-1 Order No.:0 Width:0 Height:0								

1			
Network port			
1(U) 2(D	)		
Selected Card inform	nation	7	
Extension cable	1	<= 64	
Order No.	0	]	
Width	128	↔	1
Height	256	€	\$

- •Sender Device No.: If there is more than one sending card connecting, please select the corresponding number.
- •Network port: There are two ports on the TS802D sending card. The one next to the LED lights is U, and the other one is D.
- •Order No.: The receiving card that connects to sending card directly is the No.1 card (Note: stand in front of the LED screen when checking the order)
- •Width: Pixels' width that one receiving card connects.

•Height: Pixels' height that one receiving card connects.

Fill the above info depending on the real connection, click on a random square and the info will be filled out the selected square automatically.

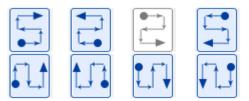
Rec	eiver No. Horizontal card		echn Vertical car			et 🛛 🔀		
	1	2	3	4	5	6	7	8
1	No.:1-U-1	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty
	Order No.:1	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0
	Width:128	Width:0	Width:0	Width:0	Width:0	Width:0	Width:0	Width:0
	Height:256	Height:0	Height:0	Height:0	Height:0	Height:0	Height:0	Height:0
2	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty	No.:Empty
	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0	Order No.:0
	Width:0	Width:0	Width:0	Width:0	Width:0	Width:0	Width:0	Width:0
	Height:0	Height:0	Height:0	Height:0	Height:0	Height:0	Height:0	Height:0

•Show Connection Lines: select it to show the linking direction in lines

- •Single-point link: set the order one by one by clicking the corresponding square or leftclicking on the first card, hold the mouse key and drag it to right or left(depending on the actual connection) to next card
- •Quick link: click on the first receiver and the last one in the same row/column, all the cards between the two clicked card will be linked in order automatically

	eiver No. Iorizontal card	8 •	Vertical car	d 2 💌	All Rese	t 🔀		
	1	2	3	4	5	6	7	8
1	Ordes lo.:1 Widti::128	Order No.:2	Order No.:3 Width:128	Order No.:4 Width:128	Order No.:5 Width:128	Order No.:6 Width:128	Order No.:7.	No.:1-U-1 Orde Io.:8 Widt.:128 Height:256
2	Order No.:0 Width:0	Order No.:0	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	No.:Empty Order No.:0 Width:0 Height:0

•Quick map



a.Select one of the eight direction modes above depending on the actual connectionb.Click the first square (stands for the **first** receiving card of the area that you need to set), hold down the left mouse button and drag it untill the disired area is covered with black.

	eiver No. Iorizontal card	8	Vertical	card 2	<u>е</u> А	ll Reset	$\otimes$	/ (C	<b>€</b>
	1	2	3	4	5	6	7	8	
1	No.:1-U-1 Order No.:1 Width:128 Height:128	No.:1-U-1 Order No.:0 Width:0 Height:0	No.(1-U-1 Order No.(0 Width(0 Height(0	No.:1-U-1 Order No.:0 Width:0 Height:0					
2	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	No.:1-U-1 Order No.:0 Width:0 Height:0	

	onzonical cara	•	Vortical			i Kosoc		
	1	2	3	4	5	6	7	8
1	Order No.:9	Order No.:10	Order No.:11	Order No.:12	Order No.:13	Order No.:14	Order No.:15	No.:1-U-1 Order No.:16 Width:128
<u> </u>								Height:128 No.:1-U-1
2	Width:128	Width:128	Width:128	Width:128	Width:128	Width:128	Width:128	Order No.:1 Width:128
	Height:128	Height:128	Height:128	Height:128	Height:128	Height:128	Height:128	Height:128

•Send to receiver: click it after you finish the setup

- •Save to receiver: if the image is working on the LED screen, please click it to save the data to the receiver
- •Save to file: you can also save the settings as a .CON file, so that you can just load the setting as you need it next time.

Note: go to <u>page14-16</u> to check how to make a .CON file.

•Compatible old program: Please check this option when firmware like 4F and firmware like 4008 are used together

#### 1.1.2. What is .RCG & .CON file

.RCG file is used to configuring the image of each single receiving card, and the .RCG file is already saved on each receiving card normally when you get the whole set of LED screen and control cards from the supplier. So the first time you set up the LED screen, you will get several repeated images whose number is the same as the number of the receiving cards (e.g. If you have 40 receiving cards, then you will have 40 repeated images on the LED screen). The LED screen below is working with correct .RCG file saving (showing repeated images of the top-left part on your desktop).





After you assemble the whole LED screen, you need to send a .CON file, in order to make the whole LED screen show image in one piece. You will get the perfect image below after sending a .CON file to the above LED screen.



#### 1.1.3. How to load a .RCG file

**Note:** Please do not send any random .RCG file to the cards if you are not familiar with Linsn's control system.

#### **Procedure:**

a.Connect all the components well (PC->sending card->receiving card->LED screen) b.Click **Screen Configuration** to enter **Sender** tab, set the **Resolution** to the same as

your PC's monitor and click **Save to Sender**. Go to the resolution settings interface on your PC and select the **duplicate/clone mode**.

Hardware Setup				- 0
Sender	Receiver	Display Connection		
Hardware				
Device type	Send card			Check Current
Model	T5921		COM Port COM3 ~	Hardware
Hardware	93.63		Sender No. 1	
Set width Start X Start Y Manual brightness Screen power	1024X768     1280X768     1280X768     1280X800     1280X1024     1365X768     1440X1080     1600X576     1600X576     1600X576     1600X570     1600X1200     1600X1200     1680X1050     1288X1296     1920X1080     1920X1080     1920X1080     1920X1200	1	O     O	Mirror
Video output mode	2048X1280	0.00]	Enable Auto-adjust Brightness	

c.Go to the **Receiver** page. Load the .RCG file from **Load from file** and click **Send to Receiver** to see if one cabinet is working or not. If working, click **Save to Receiver** (this button will be enabled after clicking **Send to receiver**)

Hardware Setup					-	- 🗆	>
Sender	Receiver	Display Connection					
Module Info Drive IC : File	General	-	ull-color real pixel 13 scan 26 rows/zone		Module Info		
Load Capacity Setup Actual width Actual height :	52 × <=145 52 × <=416	Cascade direction Out Mode	From right to left $\checkmark$	Card Mode	Normal(16 data) V		
Effects Setup Refresh FRQ Scan clock	840 V HZ 16.7 V MHZ	Synchro refresh Duty ratio	Auto V Hz		Four-color exchange Afterglow Blanking		
Phase of clock Row blanking time	4 ∨ 300 ▲ ns	Gray level Grey mode	Quality(65536) V Level		Chroma space Image control		
afterglow time newline Brightness efficienc:	0 ▲ (1 ~ -1) 5 ▲ (0 ~ -1) y (including blanking): 65.88%				Other setup		
Intelligent setup		New fra	amework				
Param readback	Load from file	Save to file Send to Rece	Save to Receiver		Restore factory Data		

d.If the settings you adjusted are working, click **Save to file** to save the settings to an .RCG file, so that you can load the settings directly when you need it.



#### 1.1.4. Generating a .CON file

**Note**: Please stand in front of the LED screen when you are checking the connecting direction of receiving cards.

After sending the corresponding .RCG file to the receivers, correct and repeated images will be shown on each cabinet as in the following picture.



For connecting all the repeated images above together, you need to do:

USP	Type real pixel display V GAMA	C	eiver No. Iorizontal card	6	Vertical car	d 4	All Rese		**	$\Theta \oplus \mathbb{N}$
	Sender Device No.		1	2	3	4	5	6		a an
	Network port 1(U) 2(D)	1	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	Width:0		No.:Empty Order No.:0 Width:0 Height:0		
	Selected Card information	2	Order No.:0 Width:0	Order No.:0 Width:0				No.:Empty Order No.:0 Width:0 Height:0		
	Order No.         8           Width         128           Height         126	з	Order No.:0 Width:0	Order No.:0 Width:0	No.:Empty Order No.:0 Width:0 Height:0	Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0		
	Show Connection Lines O single-point link	4	Order No.:0 Width:0	Order No.:0 Width:0	Width:0	Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0		
м	odule and Calibration Open Mapping									
88	Function Load from file Save to I	file	Send to	receiver		ver			Compatible o	ld program

a.Input 6 in Horizontal card, and 4 in Vertical card

- b.Select 1(U) if the **network port** near the LED light on the sending card is connected
- c.Input 128 (pixels) in width and height separately (the above cabinet is 128\*128 pixels)

d.Click on the square that corresponds to the first receiving card, and click the second square stands for the second receiving card till all the squares are covered if you select **single-point link** 

Type real pixel display V GAMA	Rec	lorizontal card	6 🔹	Vertical car	'd 4	All Rese	st 🚺 🜔
Sender Device No.		1		2			
1		1 No.:Empty	2 No.:Empty	3 No.:Empty	4 No.:Empty	5 No.:Empty	6 No.:Empty
1(U) 2(D)	1	Order No.:0 Width:0 Height:0		Order No.:0 Width:0 Height:0			Order No.: Width:0 Height:0
ielected Card information	2	No.:Empty Order No.:0 Width:0 Height:0	Order No.:0 Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No. Width:0 Height:0
Average of the second secon	з		No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No. Width:0 Height:0
Show Connection Lines	4	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:1-U-1 Order No. Width:128 Height:12
Type real pixel display V GAMA		ceiver No.			· · · · · · ·	110-00	
Type real pixel display GAMA		ceiver No. Horizontal card	6	Vertical ca	rd 4	All Rese	et 🚺
		Horizontal card	2	3	4	5	6
iender Device No.		Horizontal card	2 No.:Empty	3 No.:Empty		5 No.:Empty	6 No.:Empt
iender Device No.		Horizontal card	2 No.:Empty Order No.:0 Width:0	3 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty	4 No.:Empty Order No.:0 Width:0	5 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty	6 No.:Empt Order No. Width:0 Height:0 No.:Empt
iender Device No.	1	Horizontal card	2 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty	3 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty	4 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0	5 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty	6 No.:Empt Order No. Width:0 Height:0 No.:Empt Order No. Width:0
Sender Device No.	1	And a second sec	2 No.:Empty Order No.:0 Width:0 Height:0 No::Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0	3 No.:Empty Order No.:0 Width:0 Height:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No::Empty No.:Empty	4 No.:Empty Order No.:0 Width:0 Height:0 No:Empty Order No.:0 Width:0 Height:0 No::Empty Order No.:0 Width:0 Height:0 No::Empty	5 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No.:Empty Order No.:0 Width:0 Height:0 No.:1-U-1	6 No.:Empt: Order No. Width:0 Height:0 No.:Empt: Order No. Width:0 Height:0 No:t-U-1

You can also select **Quick link** to finish the setup (see <u>page10-11</u> for detailed skills to set quick link).

Type real pixel display V GAMA		eiver No. Iorizontal card	6 <b>•</b>	Vertical car	d 4 ▲	All Rese	t 🗵
* 1		1	2	3	4	5	6
Network port 1(U) 2(D)	1		Order No.:2( Width:128	Order No.:2 Width:128	Order No.:2 Width:128	Order No.:2 Width:128	No.:1-U-1 Orde Flo.:2* Width:128 Height:128
Selected Card information	2		Order No.:1 Width:128	Order No.:16 Width:128	Order No.:15 Width:128	Order No.:14 Width:128	No.:1-U-1 Order No.:1( Width <mark>:128</mark> Heigh <mark>::128</mark>
Order No.         24           Width         128         🕶 I           Height         128         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	з	Order No.:7	Order No.:8	Order No.:9 Width:128	Order No.:1( Width:128	Order No.:1; Width:128	No.:1-U-1 Order No.:12 Width:128 Height:128
Show Connection Lines	4		Order No.:5 Width:128	Order No.:4 Width:128	Order No.:3 Width:128	Order No.:2 Width:128	No.:1-U-1 Orde Vo.:1 Width:128 Height:128
			-	-	-		

Or use **quick map**: choose one of the eight maps matching to the actual connection, leftclick on one of the squares, hold down the mouse key and drag it till all the squares are selected(covered by black), and it will link all the square in order with the selected connection way

minection way	D						
Type real pixel display V GAMA		eiver No. Iorizontal card	6 💌	Vertical car	d 4 🛉	All Rese	t 🕑
* 1		1	2	3	4	5	6
1(U) 2(D)	1	Order No.:0 Width:0	Width:0	Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:( Width:0 Height:0
elected Card information	2	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:( Width:0 Height:0
vidth 128 ↔ \$	3	Order No.:0 Width:0	Width:0			No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:) Width:0 Height:0
Show Connection Lines Single-point link	4	Order No.:0 Width:0	Order No.:0 Width:0	Order No.:0 Width:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:0 Width:0 Height:0	No.:Empty Order No.:( Width:0 Height:0

#### Official website: www.linsn.com

Type real pixel display GAMA		eiver No. Iorizontal card	6 •	Vertical car	rd 4 🔺	All Rese	t 🔇
* 1		1	2	3	4	5	6
Network port       1(U)       2(D)	1	Order No.:19 Width:128	Order No.:2( Width:128	Order No.:2 Width:128		Order No.:2 Width:128	No.:1-U-1 Orde 0.:2 Widt.:128 Height:128
Selected Card information	2	Order No.:18 Width:128	Order No.:1) Width:128	Order No.:16 Width:128		Order No.:14 Width:128	No.:1-U-1 Order No.:1 Width:128 Heigh::128
Image: Content of Cable         Image: Conten	З	Order No.:7 Width <mark>:128</mark>	Order No.:8 Width:128	Order No.:9 Width:128	Order No.:1( Width:128	Order No.:1 Width:128	No.:1-U-1 Order No.:1 Width:128 Height:128
Show Connection Lines	4	Order <mark>No.:6</mark> Width:128	Order No.:5 Width:128	Order No.:4 Width:128	Order No.:3 Width:128	Order No.:2 Width:128	No.:1-U-1 Ordes Io.:1 Widtr.:128 Heiaht:128

e.After filling out all the squares, click **Send to receiver**. Don't forget to click **Save to Receiver** if the image is working well on the LED screen.

f.You can save the above settings as a .CON file, and load it when you need it.

#### 1.2.Brightness



Set brightness/contrast/color temperature

	-		-		
ment		ss Grayscale adjustment	0	Timer and auto adjust	
<			> 255	5 (100.0%)	
<			>	50% Gamma Sett	up
ure					
ess component-					
<			> 100	(39.2%)	
<			> 100	(39. 2%)	
<			> 100	(39.2%)	
ronize					
1	Add				
	<pre>cure ess component</pre>	< <p>c c c c ess component c c c c c c c c</p>	<		<ul> <li>255 (100.0%)</li> <li>50% Gamma Set</li> <li>sure</li> <li>a 100 (39.2%)</li> <li>a 100 (39.2%)</li> <li>a 100 (39.2%)</li> <li>a 100 (39.2%)</li> </ul>

- •Brightness: adjust the brightness manually
- •Contrast: asjust the contrast manually
- •Color Temperature
  - Customize:check to enable RGB birghtness component
  - •RGB brightness component: Adjust brightness of red, green and blue manually
  - •Add: Customize the color temperature that you need, ranging from 1000K to 40000K
- •Enable auto-adjust brightness: Enable adjusting brightness automatically by multifunction card





This is a remote calibration sever which works with the LED Correction software. It is designed for the LED screen that is installed high or with large resolution but needs calibration in a far distance.

Remote Calibration				
Network Setting Local	10 . 20 . 28 . 25	Connect		
Port	5000	Disconnect	Hide calibration window	
Communication Informat	tion			
2017-11-06 18:33:17				

•Network Setting:

•Local: IP address of the server which is connecting to the LED screen

Port: Comunication port (Keep it default)

•Comunication Information: Showing connection status of the server and client.

## Linsn Technology 1.4.Cabinet Monitoring

Cabinet Monitoring											
🐻 Box/Card Monitor-Receive card									2		×
📃 💹 🕔 🏠	<b></b>		4	-	Ç		۷	6			
Receive Card Monitor Card Temperature Humidit	y Fan	Smog	Voltage	Door	Cable	Module Status Po	wer Monitor	Cloud		:=	
Referral and Zoom	Display 1										
Normal       Fault       Voltage exception       Unknown       G0%	XX										
Fault information											
Receiver alarm number : 1											
Current monitoring time: 10:20:39 Information complete!											
Monitor Setup Refresh	<										<b>`</b>

Cabinet monitoring is for showing the monitoring data of each cabinet rather than the whole LED screen.

#### **1.5.Multi-function Card**



This function works with multifunction card for showing monitoring data of the whole LED screen. In the page below, you can set the sensitivity of light sensor and monitoring speed of multi-function card, etc.

Multi-Function Card					- 🗆
Brightness Current brightness Min brightness Sensitivity < Fog	255 0	> 127	Temperature Inner Outdoor Amend Fan-on temperature	174.1 174.1 0 133.8000030517!	Speed 87.5
Current Warning Level Status Power off when war	0 127 off		Air conditioning-on temperature Fan Status Air conditioning Status	133.8000030517!	
Humidity Inner Outdoor	0.0		Unit	<ul> <li>Celsiur</li> <li>Fahrenheit</li> </ul>	
Switch Control Manual Rename Delay	1 PowerSw1 4 FanSw1 7 AirConSw2	2 PowerSw2 5 AirConSw1 8 FanSw3	3 PowerSw3 6 FanSw2 9 AirConSw3		

**Note**: After you finish installing and setting up the multifunction card and light sensor, enter this page. If the current brightness, temperature and humidity value changes automatically, it means the sensors are working.

Multi-Function Card								_		
Brightness	255		1		Temperat	ure	0.0	Spee		
Current brightness			1		Inner				87.5	
1in brightness	0				Outdoor		0.0			
õensitivity <				> 127	Amend		0		⊥	
og					Fan-on te	mperature	12.7		Τ.	
Current	0									
Warning Level	127				Air condit		12.7			
Status	off				Fan Statu	IS	off			
Power off when war										
	i ili ig				Air condit	ioning Status	off			
Humidity							<ul> <li>Celsiur</li> </ul>			
Inner	48				Unit		O Fahrenheit			
Outdoor	56									
5witch Control										
Manual	1	PowerSw1	2	PowerSw2	3	PowerSw3				
Rename	4	FanSw1	5	AirConSw1	6	FanSw2				
Delay	7	AirConSw2	8	FanSw3	9	AirConSw3				

This function works with multifunction card for showing monitoring data of the whole LED screen. In the page below, you can set the sensitivity of light sensor and monitoring speed of multi-function card, etc.

#### 1.6.Option Menu

B LedSet 2.7	- ×
Option( <u>O)</u> Test( <u>T</u> ) Settings	s( <u>S</u> ) Help( <u>H)</u>
Screen Manage(M)	
Lock LED Screen Properties Turn off LED screen power	Cabinet Multi-function
Control Box Manage	m Monitoring Card
Demonstration Mode	
Change password(U) Logout(E)	Reconnection
Model TS921	Com Port: COM3
Hardware 93.63	Sender number 1
Status: Connected	2019-07-18 16:51:07

•Screen Manage: select connected device type

- •Lock LED Screen Properties: to freeze what is currently being displayed on the LED screen
- •**Turn off LED screen power**: works with multifunction board (EX902/EX906 and etc) to turn off the power of the LED screen; if no multifunction board connected, enabling this option will just turn off the video signal
- •Control Box Manage: save RCG to the 9th Gen device
- •Change password: to manage the password for Screen Configuration and LedSet
- •Logout(E): to prevent others from changing the settings in Screen Configuration

## Linsn Technology 1.6.1. Screen Manage

Sc	reen Control				×
	Send Device				
	Sendcard	○ Netcard	○ Playbox	○ Video processor	
	Hard:		54.62		
	Model:		T5952		
	Port:		сомз ~		
	Senders	:	1		
			Reconnection Di	isconnection OK	

#### a.Go to **Option->Screen Manage**

b.Select the device that is connected, click Reconnection and click ok

c.The status in the main interface will show green and connected

**Note**: Please select the connected device type when player box or video processor is connected.For sender, it will be detected automatically when it is connected to PC

# Linsn Technology 1.6.2. Lock LED Screen Properties

		•			
bedSet 2.7				_	$\times$
Option( <u>O</u> )	Test( <u>T</u> ) Settings(	<u>S)</u> Help( <u>H</u> )			
	Hint	1	×		
Screen Configuration Information	Br Are you sure you	u want to Lock the LED Screen?			
Device type	Y	ES NO		tion	
Model		comport			
Hardware	93.63	Sender number	1		
🔵 Status: Conr	nected			2019-07-19 10:3	2:58

#### d.Go to Option->Lock LED screen properties->Hint

e.Click YES to freeze the image on the LED screen and the button will turn into unlock the LED screen properties. You can click unlock the LED screen properties to resume the action on the LED screen.

1.6.3 Turn off the LED screen nower

i loioi i ai li						
LedSet 2.7					_	×
Option( <u>O</u> )	Test( <u>T</u> ) S	ettings( <u>S</u> )	Help( <u>H</u> )			
	Hint			×		
Screen Configuration Information	Br Are you	sure you want to I	turn off the LED scre	een?		
Device type		YES	NO		tion	
Model			com ora			
Hardware	93.63		Sender number	1		
😑 Status: Conr	nected				2019-07-19	10:33:30

This funtion requires multifunction board(like EX902, EX906 and etc).

After connecting the power supply for the LED screen to the relays on the multifunction board, you can turn off the power of the LED screen by LedSet:

a.Go to **Option->Turn off the LED screen->Hint** 

b.Click YES

c.The button will turn into Turn on the LED screen

**Note**: If you don't have multifunction board connected, it will cut off the video signal(indicated by green light on the sending card) rather than power by using this function.

## Linsn Technology 1.6.4. Control Box Manage

Control Box Manage		×
Store to control card	Sender NO. $(1 \sim 4)$	
Recover to receiver	1(No)           2(No)           3(No)           4(No)           5(No)           6(No)           7(No)           8(No)             Add         Delete   Reset storage	Rename Shift up Shift down Save

This function requires the 9th Gen sender or device(like TS952, X2000 and etc). After connecting USB cable from device to PC(go to Screen Manage to connect the device to PC )

#### a.Go to **Option->Control Box Manage**

b.Select one of the 8 No.

c.Click Save to select one correct RCG file to the sender

#### 1.6.5. Change password

EdSet 2.7				-	×
User Manager	×	Help( <u>H</u> )			
administrator	Add User Delete User Edit User Ok Cancel	Cabinet Monitoring	Multi-function Card		
			Reconnectio	n	
		Com Port:	СОМЗ		
Use Password when StartUp		Sender number	1		
Status: Connected			201	19-07-19 10	:35:15

•Add User: add a new user name and password

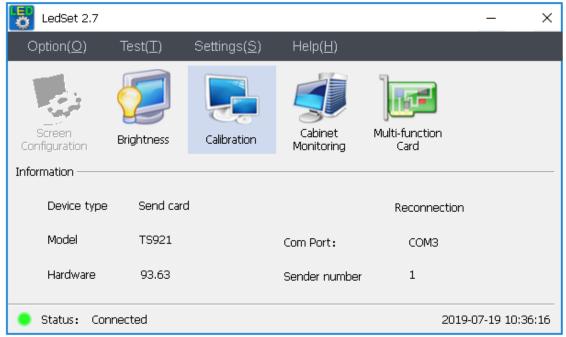
•Delete User: delete the selected user

•Edit User: edit the name and password for the selected use



- •Ok: click ok to finish the setup
- •Cancel: click cancel to exit
- •Use Password when StartUp: it requires enter password when the software starts up

#### 1.6.6.Logout



To prevent others from changing the settings by accident, you can click logout to disable the **Screen Configuration** feature.

LedSet 2.7		– ×
Option( <u>O</u> )	Test( <u>T</u> ) Settings( <u>S</u> )	Help( <u>H</u> )
Screen Configuration Information — Device type	Test Tool(T)       Gray test(G)       Grid test(R)       Dot test(F)       Color bar test(C)       Color bar test-Advance(M)	et Multi-function ring Card
Model Hardware	Paint Notepad Calculator	t: COM3 number 1
Status: Cc	Check position(X) Check Color(O) Hide Test Window(H)	2019-07-19 10:37:11

#### •Gray test

It will shows the selected color's grayscale from level 1 to 255 automatically.



#### •Grid test

For testing the pixels' movement on the LED screen. **Official website: www.linsn.com** 



Test Tool				×
Grey Test(Pure)	Color		<b></b> +	Background
Color Bar Test(Gradual)	Color Change			
Grid Test	● No Change	⊖Two Color	○ Thre	e Color
Aging Setup	Grid	in 🗌 Vertical Line	∠Left Diagonal Lin	n, 🗌 Right Diagonal J
Orientation Setup	Line Spacing	16		Manual
	Line Width	1		Last
	Speed	<	> 100	Next

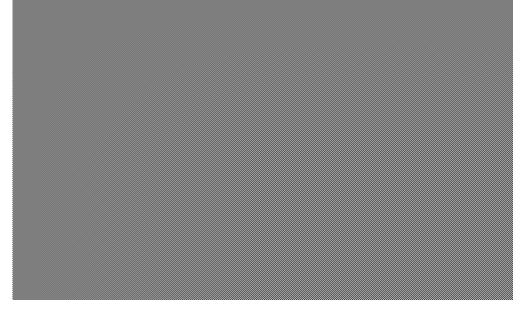
		$\times$	$\times$	$\times$
Test Tool				×
Grey Test(Pure)	Color	· <u> </u>	- Back	ground
Color Bar Test(Gradual)	Color Change			
Grid Test	O No Change	) Two Color	○ Three Cold	r
Aging Setup	Grid Horizontal Lin	🗌 Vertical Line 🗹	]Left Diagonal Lin 🖂 ]	Right Diagonal J
Orientation Setup	Line Spacing 16	×	Γ	Manual
	Line Width 1	×		Last
	Speed «		▶ 100	Next



Test Tool			×
Grey Test(Pure)	Color	-	Background
Color Bar Test(Gradual)	Color Change		
Grid Test	• No Change	⊖Two Color	○ Three Color
Aging Setup	Grid	Vertical Line 🗹 L	eft Diagonal Lin 🗌 Right Diagonal J
Orientation Setup	Line Spacing 100		Manual
	Line Width 5	▲ ▼	Last
	Speed <	2	> 100 Next
	/ /		

#### •Dot test

A quick way to check if there is faulty pixel on the LED screen.



#### •Color bar test

•For testing different grayscale of different color (internal use)

	BIT	BIT
<mark>256</mark>		<mark>- 256</mark>
128		<mark>-</mark> 128
<mark>64</mark>		<mark>-</mark> 64
32		32
	BIT	BIT
256		<mark>- 256</mark>
128		<mark>128</mark>
64		64
32		32
	віт	віт
<mark>256</mark>		<mark>- 256</mark>
<mark>128</mark>		<mark>-128</mark>
64		<mark>-</mark> 64
32		32
		128 64 32 8 8 128 64 32 8 128 64 32 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

•Color bar test-Advance

Grayscale test pattern for

Red/Green/Blue/White/Purple/Yellow/Cyan/Purple/Red+Green/Red+Green+Blue

Test Tool				×
Grey Test(Pure)	Color Type			
Color Bar Test(Gradual)	Red	Green B	lue White	Yellow
Grid Test	Cyan	Purple	Red+Green R	ed+Green+ <mark>Blue</mark>
Aging Setup	Level 32	Level 64	Level 128	Level 256
Orientation Setup	Gradient Direction			
	From left to right	From up to down	From right to left	From down to up
	Moving K	> 100	Open Moving	• Forward Backward

#### •Aging

For customizing an aging pattern



Test Tool		×
Grey Test(Pure)	Grid	
Color Bar Test(Gradual)	✓ Open Test     Time     5     S       Spacing     16     Moving time     MS	Aging 0:0:0
Grid Test	🗹 Horizontal Line 🛛 Vertical Line 🖓 Left Diagonal Line 🖓 Right Diagonal Line	Number
Aging Setup Orientation Setup	Pure Color Color1 Time 5 S Color6 Time 5 S Color2 Time 5 S Color7 Time 5 S Color3 Time 5 S Color8 Time 5 S	0
	✓ Color4     ✓ Time     5     S     ✓ Color9     ✓ Time     5     S       ✓ Color5     ✓     ✓     Time     5     S     ✓ Color10     ✓     Time     5     S	Begin
	Gray Gradual Change Ø Open Test Time 5 S	Save
	🗹 Red 🗹 Green 🗹 Blue 🗹 White 🗹 Yellow 🗹 Cyan 🗹 Purple	Load

#### •Check position

For checking the showing area and the area for each data sets



#### •Check color

For reading RGB color codes

#### •Orientation

This function is for locating the faulty module/cabinet/card.

Lir Test Tool	nsn Techno	ology		×
Grey Test(Pure) Color Bar Test(Gradual)	Window X < Y <	> ] •	Width < Height <	> 670         €         Show           > 288         Hi de
Grid Test Aging Setup	Orientstion Module Width 32 🜩	Color and Size Module Line	Size 1	Ranks start number Start Row No. 1
Orientation Setup	Height 32 - Loading Module of Receiving Card Col 1 -	Receiving Card Line Background color Font	Size 1	Start Col No. 1 📩
	Row 1 🔦	Font Color	Size 10	Type Regular V Orientation

#### Window

**X:** start x of play window, and keep it to 0 commonly

Y: start y of play window, and keep it to 0 commonly

Width: pixels' width of play window, and keep it the same as your LED screen

**Height:** pixels' height of play window, and keep it the same as your LED screen

Window								
X	<	> 🗋 🛓	Width	<	>	670	Show	
Ч	<	> 0 •	Height	<	>	288	Hi de	

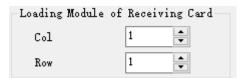
#### Module

Width: pixel's number of one module in width Height: pixel's number of one module in height

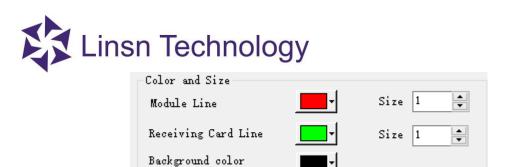
Module		
Width	32	▲ ▼
Height	32	▲ ▼

#### Loading Module of Receiving Card

The number of modules that connected to one receiving card in height and width



#### Color and Size



- •Orientation: Click it to update the contents
- a.Set the pixels' width and height for module and LED screen, and the number of the modules that connected to one receiving card.
- b.Click **Orientation** to update your settings.
- c.The display window will show the grids on the LED screen for you to recognize each

01	01		02-0	

Open Paint/Notepad/Calculator (Window's program) in LedSet

Lins	n Technology	/
LedSet 2.7		– ×
Option( <u>O</u> )	Test( <u>T</u> ) Settings( <u>S</u> )	Help( <u>H</u> )
Screen Configuration Information —— Device type	Test Tool(T) Gray test(G) Grid test(R) Dot test(F) Color bar test(C) Color bar test-Advance(M) Aging test(A) Orientation(O)	et Multi-function ring Card
Model Hardware	Paint Notepad	t: No humber 1
Status: No	Calculator Check position(X)	2019-07-29 16:52:55
	Check Color(O) Hide Test Window(H)	

•Hide test window: to hide/show the above window

## Linsn Technology 1.8.Settings Menu

LedSet 2.7			– ×
Option( <u>O</u> )	Test( <u>T</u> ) Se	ettings( <u>S)</u> Help( <u>H</u> )	
	5	Software Setup Hardware Setup(Upgrade)	2
		Language(L)	>
Screen Configuration	Brightness	Schedule Table	nction d
Information ———		ClearBlackLine	
Device type	Send card	Led Error Detection	onnection
Model	TS921	Com Port:	СОМЗ
Hardware	93.63	Sender number	1
😑 Status: Cor	nnected		2019-07-19 14:29:50

- •Software Setup: Other settings for software
- •Hardware Setup(Upgrade): For upgrading the firmware
- •Language: Other languages
- •Schedule Table: For timing settings

## Linsn Technology 1.8.1. Software Setup

Software Setup				×
Mode Settings	Mode Settings	◯ Classic mode		^
Image Settings		New mode		
Startup Settings	Image Settings	Lock screen		
Timing Settings		Screen power		
Network Settings				
Monitoring Settings	Startup Settings	Start When Windows Starts Up		
Zoom Settings		Auto Minimize		
Other Settings		Auto Login	n not be found	
		Allow multiple programs start		
	Timing Settings	Restart every day	3:00:03	
		Auto restart software	120 Minutes	~

- •Mode Settings:
  - •Classic mode
    - New mode(recommended)
- •Image Settings:
  - Lock screen: this option is unchecked by default, and you can check it to freeze the image of LED screen (same as Option->Lock LED screen properties, please check page<u>25</u> for detailed instructions)
  - Screen power: this option is checked by default, and you can uncheck it to turn off the power(same as Option->Turn off LED screen power, please check page<u>26</u> for detailed instructions)
- •Startup Settings:
  - Start When Windows Starts Up: auto-start LedSet when your PC starts up

•Auto Minimize: auto-minimize the software when launching LedSet Auto Login: this option is checked by default, and you can uncheck it to keep logging out the software (same as Option->Logout, please check page<u>28</u> for detailed instructions)

•Pop-up tips when the control cards cannot be found: check to show the prompt when the USB connection cannot be recognized.





- •Allow multiple programs start: allow open several LedSet
- •Timing Settings:
  - Restart every day: set to restart the software at certain time for every day
  - Auto restart software: restart the software every certain period of time
- •Network Settings: Reserved
- •Monitoring Settings
- •Zoom Settings: Enable zoom-> When the resolution-height is less than a certain value
- •Other Settings:
  - Auto restart software when fault occurs
  - Show prompt message when quit
  - No error message: to disable the 'LED screen system not found' prompt
  - Not allow closing software
  - Power off when close
  - Auto Update new software: reserved
  - •Enable complex display old interface

#### 1.8.2. Hardware Setup (Upgrade)

Hardware Setu	(Upgrade)	×
Load		
Name:	Name	
Version	Ver	Upgrade
Sequen	e: SUM	
Path:	l	Load
Type:	Туре	

#### Upgrade:

- •Go to Settings->Hardware Setup->Input password(admin)-> Click Load to select a correct firmware->Upgrade
- •Power off and on the cards to check if the upgrade works or not

#### **Check firmware version:**

- Send CON file to all the receivers(for how to make a CON file, please refer to page<u>14</u>)
- Go to **Settings->Hardware Setup->** Input password(admin)-> click ->the following interface will show:

Sender	Check	< All	O Specified (	Iheck		Check
Receiver						
Multi-function card Monitor Card	NetPort U	Card No. 1	Version No. XX	Card Mode	IC Name	Time
Module decrypt						

If the signal goes through, it will show the corresponding version on the XX position

#### 1.8.3. Language

B LedSet 2.7				– ×
Option( <u>O</u> )	Test( <u>T</u> )	Settings( <u>S)</u> Help( <u>H</u> )		
	5	Software Setup Hardware Setup(Upgrade)	2	
		Language(L)	>	Simplified Chinese(zh-CN)
Screen Configuration	Brightness	Schedule Table	~	Traditional Chinese(zh-CHT)
Information ——		ClearBlackLine	~	English(En)
	C	Led Error Detection		Japanese
Device type	Send card		lonne	ection
Model	TS921	Com Port:	COMS	3
Hardware	93.63	Sender number	1	
😑 Status: Con	inected			2019-07-19 14:41:21

## Linsn Technology 1.8.4. Schedule Table

No.	Command	Screen No.	program file/value	Execution time	Valid date	Valid day
Enable			Edit	Add Delete	Delete All	Exit

•Edit: to edit the existing command

•Add: to add a new command

Schedule		×			
Command Execution time	Turn on LED screen power ~ 14:50:47				
LED No.	1				
Valid Date	Valid Week No Limit				
○ Specified Date	○ Specified	🗹 Sunday			
From 2019/ 7/19	Monday	🗹 Tuesday			
	Wednesd:	🗹 Thursday			
To 2019/ 7/19	Y Friday	🗹 Saturdaj			
		Ok Cancel			

Command: select a command that you need



Command	Wake up Computer 🗸 🗸 🗸				
Execution time	Turn on LED screen power				
Execution time	Turn off LED screen power Lock LED screen property				
	Unlock LED screen property				
	Shutdown computer				
LED No.	Adjust all LED Screen Brightness				
	Adjust LED Screen Brightness Adjust LED Screen Contrast				
	Adjust LED Screen Color				
	Restart Computer				
	Set the computer to sleep				
Valid Date	Wake up Computer				
Every Day	Control the relay on multi-function card				

- •Execution time: set a specific time
- •LED No.: select the LED screen you need
- ■Valid Date/Valid Week: set a period of days to run the commands
- •Delete: delete the selected command
- •Delete All: delete all the commands
- •Exit

#### 1.9.Help Menu

B LedSet 2.7					—	×
Option( <u>O</u> )	Test( <u>T</u> )	Settings( <u>S</u> )	Help( <u>H</u> )			
			Help			
			System Inform	ation		
Screen	Brightness	Calibration	Software Upda	ate		
Configuration	Brightiness	Calibration	Add Features			
Information ——			About LedSet.	•		
Device type	Send card	t		Reconnection	I	
Model	TS921		Com Port:	COM3		
Hardware	93.63		Sender number	1		
Status: Cor	nnected			2019	9-07-19 14	:52:28

- •Help: reserved
- •System Information: obtain info of the computer
- •Software Update: reserved
- •Add Features: reserved



•About LedSet: version and copyright

Brightness					Temperat	ure		Spe	ed	
Current brightness	255				Inner		174.1		87.5	
Min brightness	0				Outdoor		174.1			
Sensitivity <				» 127	Amend		0			
Fog					Fan-on te	emperature	133,8000030517!			
Current Warning Level	0				Air condit temperati		133.8000030517			
Status	off				Fan Statu	IS	off			
Power off when war	ning									
Humidity					Air condit	ioning Status	off			
Inner	0.0				Unit		<ul> <li>Celsiur</li> </ul>			
Outdoor	0.0						◯ Fahrenheit			
Switch Control										
Manual	1	PowerSw1	2	PowerSw2	3	PowerSw3				
Rename	4	FanSw1	5	AirConSw1	6	FanSw2				
Delay	7	AirConSw2	8	FanSw3	9	AirConSw3				

**Note**: After you finish installing and setting up the multifunction card and light sensor, enter this page. If the current brightness, temperature and humidity value changes automatically, it means the sensors are working

#### **1.10.Hardware Information**

The hardware information shows correctly only when the USB cable is recognized well by the controling computer.

Incinduon			
Device type	Send card		Reconnection
Model	Unknown	Com Port:	No
Hardware	Hardware error	Sender number	1
Status: Not C	Connected		2019-08-07 11:47:09

Official website: www.linsn.com

Information -

If the USB communicates with the PC well, the hardware info will show as follows

Information —			
Device type	Send card		Reconnection
Model	TS952	Com Port:	СОМЗ
Hardware	54.62	Sender number	1
🥚 Status: Conne	ited		2019-08-07 11:43:37

And the USB status in Device Manager on your computer is working as follows

🗸 🛱 Ports (COM & LPT)

Silicon Labs CP210x USB to UART Bridge (COM3)

END