# LedOK Express

# Instructions

Version: V1.0



No.	Version	Details	Date
1	Ver.1.0	Initial	28 <sup>th</sup> June 2020

Note: The document is subject to change without prior notice.

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# **Software Introduction**

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# **Functions And Features**

Friendly user interface: Totally no need professional training, very simple to use.

Rapid response: Brand new software architectural brings fast response for detecting

and managing devices, editing and publishing programs without delay and stuck.

**Highly integration:** With terminal management, program editing and publishing, also including terminal control functions, will solve almost all configuration work.

**Smooth text:** A new break for text program, fix the problems of shaking when moving, font distortion once for all and bring high satisfaction.

**Device encryption:** Add device encryption function to make it safe in maximum degree under the circumstance of local usage, frequently and easy to touch devices.

**Synchronous function:** To realize displaying the same frame effect through Lora, NTP or GPS settings, to enhance advertisement value and attraction for commercial led screen.

**Send in group:** Can send to multiple terminals in one time which follow the logic of terminal management and program publish of AIPS cloud platform, so that can manage all terminals in the same LAN.

**U-disk display:** Export the programs to U-disk and then plug it to device and display, so that can update content cross-network.

# **Software Installation**

### Hardware Environment

CPU: Pentium 2.6GHz.

RAM: 1G or above.

### **Software Environment**

Operation System: Win7/Win8/Win10.

#### Installation

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Download Address: www.ledok.cn

NOTES: Please choose allow software options when antivirus block it.

1. Open the folder where saved the software and click to run, select the installation

language and start to install the plugin.

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重 桌面	3 <b>4</b>	1 20200527	LedOK Express Set	up.exe	2020/5/28 11	1:25	应用程序		48,335 KB		
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iCloud 🖩						简体中文				)	
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录制要材 1 个项目							$\mathbf{\cdot}$				

2. Click Next one by one untile finish the installation.

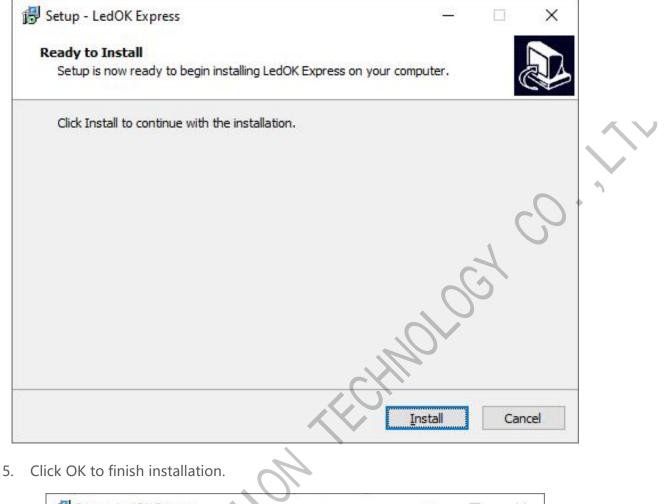
This will install the K-Lite Codec Pack on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.		K-Lite Codec Pack 10.3.5 Basic
Click Next to continue, or Cancel to exit Setup.	Section 199	This will install the K-Lite Codec Pack on your computer.
		It is recommended that you close all other applications before continuing.
		Qlick Next to continue, or Cancel to exit Setup.
	5	

3. Click Finish button and then continue the LEDOK software installation.



4. Select the storage location and then click Next.

HEWLHEMS





## Update

In the right top, can find settings icon, please switch into English and then do check for update and other operations.

update and	otne		115.				<b>Ö</b> –		$\sim$
LedOK Express						8	Languag	Configuration	
Ledok Express				Solutio	ons	Terminal Contr			
ALL 6	Q						Refr	esh 🗸	
Screen ID	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status encryp	tion More Info	:D screensh	
y60-a20-40442	•	192.168.5.133	1280 x 720	y60-a20-40442	255	ON	0	0	
y60-720-30855	•	192.168.5.254	96 x 192	y60-720-30855	80	ON	0	0	
y60-a20-40547	•	192.168.5.118	96 x 192	y60-a20-40547	80	ON	0	6	
y60-a20-40535	•	192.168.5.132	400 x 280	y60-a20-40535	255	0/1	0	3	
e22-420-40381	•	192.168.5.124	32 x 32	e22-420-40381	100	ON	0	3	
e36-220-40491	•	192.168.5.125	128 x 64	e36-220-40491	100	ON	0	0	
Detect		-		0.	-	_	-		
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		12							
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AV.									

# **Setup Sending Controller**

There are mainly 3 functions: Terminals, Solutions and Terminal Control.

First, Terminals: mainly for detecting controller IP address when controller and laptop in the same local area network or laptop connects to controller' s AP hotspot, also can view the controller resolution and other detail information.

LedOK Express		Termiants		Solution	ons	Termin	i - ÖÖÖÖ - Ala - A	
ALL 6	Q				4.	S	Refre	sh 🔻
Screen ID	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status	encryption More Info	D screensh
y60-a20-40442		192.168.5.133	1280 x 720	y60-a20-40442	255	ON	0	0
y60-720-30855		192.168.5.254	96 x <mark>1</mark> 92	y60-720-30855	80	ON	0	0
y60-a20-40547		192.168.5.118	96 x 192	y60-a20-40547	80	ON	0	0
y60-a20-40535	٠	192.168.5.132	400 x 280	y60-a20-40535	255	ON	0	0
e22-420-40381	٠	192.168.5.124	32 x 32	e22-420-40381	100	ON	0	0
e36-220-40491	•	192.168.5.125	128 x 64	e36-220-40491	100	ON	0	0
Detect		545	<u>}</u>					

Click the blue icon and will check the controller detail information. Need go to advanced parameter settings and select xixunplayer1099-8.zip file to APK upgrade.

LedOK Express		Termianls		Soluti	ons	Termir	Omega Control	×
ALL 7	Q						Refresh	
Screen ID	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status	encryption More Info :D so	reenst
y60-720-40196	•	169.254.255.254	1280 x 720	y60-720-40196	255	ON	()	3
y60-a20-40442	٠	192.168.5.133	Current B	Detail Info rightness:255 ersion:5.1.1		ON	0	
y60-a20-40547	٠	192.168.5.118	IMEI:8634 FPGA Ver	10048522806 sion:B703 s Level:255		ON	0	3
y60-a20-40535	٠	192.168.5.132	Android C Firmware	0S Resolution: 1280x720 Version: SYSolution. M.32 nware version: 10.9.9-8	2.200811.10	ON	0	
y60-720-30855	•	192.168.5.254		Ok		ON	0	9
e22-420-40381	•	192.168.5.124	32 x 32	e22-420-40381	100	ON	~ 0	9
e36-220-40491	٠	192.168.5.125	128 x 64	e36-220-40491	100	ON	$\bigcirc$ 0 (	٢
Detect							)	

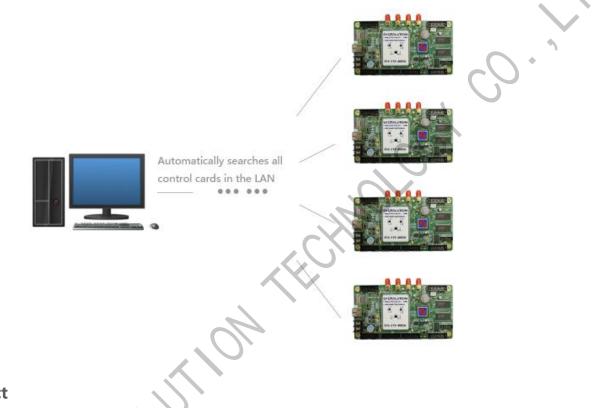
Click this green icon and will get screenshot of current display image.

	LedOK Express		Termiants		OC	ons	Termin	o	
	ALL 6	Q						Refre	esh 👻
	Screen ID	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status	encryption More Info	D screensh
	y60-a20-40442		192,168,5,133	1280 x 720	y60-a20-40442	255	ON	0	٢
	y60-720-30855	• (	192.168.5.254	96 x 192	y60-720-30855	80	ON	0	6
	y60-a20-40547	. • `	192.168.5.118	96 x 192	y60-a20-40547	80	ON	0	0
	y60-a20-40535	0	192.168.5.132	400 x 280	y60-a20-40535	255	ON	0	0
	e22-420-40381		192.168.5.124	32 x 32	e22-420-40381	100	ON	0	6
	e36-220-40491	•	192.168.5.125	128 x 64	e36-220-40491	100	ON	0	0
5	Detect								

### **Detect Controller IP Address**

Local network area: When computer and controller under the same local area network,

the software will auto search and detect the controller IP address and auto show up.



#### Detect

HENRY

Please click detect button in the left bottom, it will auto detecting the controller IP address in the same local area network or directly LAN cable connection.

~		Termianls		Soluti	ons	Termi	nal Control	
ALL 7	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status	Refre	
y60-720-40196		169.254.255.254	1280 x 720	y60-720-40196	255	ON	0	0
y60-a20-40442		192.168.5.133	1280 x 720	y60-a20-40442	255	ON	0	0
y60-a20-40547	•	192.168.5.118	96 x 192	y60-a20-40547	80	ON	0	0
y60-a20-40535	•	192.168.5.132	400 x 280	y60-a20-40535	255	ON	0	0
y60-720-30855	٠	192.168.5.254	96 x 192	y60-720-30855	80	ON	0	6
e22-420-40381		192.168.5.124	32 x 32	e22-420-40381	100	ON	0	(3)
e36-220-40491		192.168.5.125	128 x 64	e36-220-40491	100	ON	0	0

### Other

When new controller accessing in, please click refresh button to find all terminals, or input the controller serial id to find the controller you want when there are more than one controller in the list.

LedOK Express		Termianls		Soluti	ons			
ALL 7	Q Scr	een ID			You can	click multiple	e times	esh 🔻
Screen ID	Online	Screen IP	Screen Size	Remark name	creen Current Brightnes	Power Status	encryption More Info	D screensh
y60-720-40196		169.254.255.254	1280 x 720	y60-720-40196	255	ON	0	0
y60-a20-40442		192.168.5.133	1280 x 720	y60-a20-40442	255	ON	0	0
y60-a20-40547	•	192.168.5.118	96 x 192	y60-a20-40547	80	ON	0	0
y60-a20-40535	•	192.168.5.132	400 x 280	y60-a20-40535	255	ON	0	0
y60-720-30855	۲	192.168.5.254	96 x 192	y60-720-30855	80	ON	0	0
e22-420-40381		192.168.5.124	32 x 32	e22-420-40381	100	ON	0	0
e36-220-40491		192.168.5.125	128 x 64	e36-220-40491	100	ON	0	0
Detect								

# **Basic Settings**

### **Sender Connecting**

1. Select the controller id and go to terminal control-->enter advanced parameter ,

password is 888.

LedOK Express	B Solutions	
ALL 5 Q		Refresh
Screen ID Online Screen IP	- 🔆 U 🛜 🖄 🔒	
y60-720-40196 🔵 169.254.255.2	tness Adjusi ower Contra ork Configur Synchroniz Encrypt	/ideo source Volume need param Test
y60-720-30855 🔵 192.168.5.25	single screen operation->Current screen:v60-720-40196	
y60-a20-40547 🕚 192.168.5.114	Input password 888 Ok Cancel	
y60-a20-40535 <b>1</b> 92.168.5.13		
e36-220-40491 <b>9</b> 192.168.5.12		
[Detect]		

2. Then click "Start Ledset3.0 configure led module" button in the bottom and enter ledset3.0 software.

											@ -		$\times$
	.edOK Express		Termian	ls		S	Dutions			Terminal Co	ontrol		
6	ALL 5 Q										R	efresh	-
	Screen ID	Online	Screen IP		d		64	4			ā	TEST	T
	y60-720-40196	• 1	69.254.255.2	tness Adjust o	wer Contro	ork Configui	Synchroniz	Encrypt	/ideo source	Volume	nced param	Test	
	y60-720-30855	•	192.168.5.254	single screen o	peration->Ci	urrent screen:y	/60-720-40196						
	y60-a20-40547	•	192.168.5.118				Adva	anced param	eters				
	y60-a20-40535	•	192.168.5.132	LED Screen Web Server		: 1280 ww.m2mled.net	Height(pixel)		set	1 Set			
	e36-220-40491	•	192. <mark>1</mark> 68.5.125	Realtimer Se	erver Addres	s:		Set	Clear				
				Apk upgrad	e Check A	pk		V Unin:	stall Running c	heck			
					ade FPGA	version check	Sync FPGA	version Res	tart led controlle	er system			
				Check Log									
				Clear Progr	am						_		
					Star	t LedSet3.0 cc	onfigure LED mo	odule (used	by manufacturer	's professiona	als)		
Detect													

3. Choose Sender and make sure sender card resolution and receiver cards quantities

all correct.

Display Sender Receiver	Calibration Multi	-Function Card Too	Di box Hardware	information	
Device list ( 1 / 1 ):	Send card pa	arameter			
	Send card name				
Device ID: 37303587841E Type: M70-520-00007					Edit
Name: Resolution:1920X1080@60.0Hz Cards Number: 0,1	resolution ratio:				✓ custo
	position:				repa
	reen position inform	ationetwork position info	orm <mark>i</mark> network positi	on infor	
If the resolution is	DVI Intercer 0	deviation X 0	deviation X 0		
not 0, the sending card is normal.	DVI intercep 0	deviation Y 0	deviation Y 0		
card is normal.	DVI Intercer 1920	position(Lef 0	position(Lef 0		
	DVI Intercer 1080	position(Top 0	position(Top 0		
The number of receiving	window pos 0,0	position(Wit 256	position(Wid 120	0	
CARDS is not 0, indicating that receiving CARDS and	window size 1200,500	position(Hig 384	position(Hic 500		
sending cartoon messages	Audio enable(Not	e: when you need t	o use audio trans	mission, turn o	on audio er
are normal.	Enable audio tra				
	Dual Card Backup				
	Choosing the backup	card to do the configu	iration and then to c	opy the configura	tion d Set
				Refresh	application

Resolution correct, cards number at least 1, means communication between sender and

receiver is good.

NOTES: Please exit antivirus software and turn off windows firewall if can not detect

device.

### **Smart Setup**

1. Choose Normal mode debug.

LedSet3.0						Help 🔻 🗕	□ ×
Display Sende	• • • • • • • • • • • • • • • • • • •	Calibration	Multi-Function Card	Tool box	Hardware inform	ation	
Screen co	onfigur	ation					
The screen config configurations acc			d configure your curre	nt display. We co	onfigure the follow	ving display	
Normal mode d	Support all typ	es of receive car	rds to debug various ty	pes of <mark>d</mark> isplay so	creens.		
		of abnormal	display screen, ente	er the regular			
Complex mode			ds, debug all types of	modules.			
device connected		_	_	_		ver	sion:20.5.25

2. Choose Smart setup wizard and start configuration.

Receiver	Screen Con	nection						
Adule Information								
Speficification: 18X	1_1扫		ule Chip: Decoding Type	MY9866 Sca e: DIRECT OUTPUT(HIGDat	inning Typ ta Groups:			Card Mode: T6
ox Design								
Normal Design	⊖ Advan	ced Design						More Desig
Module Size:	Box Wie	dth: 18						
18pix x 1pix	Box Hei	ight: 18	Mod	lify Preview				
erformance Configure								
Frequency:	60	*	Hz	Refresh Rate:	960		Hz	Module Chip Exter
Display Mode:	Refresh	first *		Refresh Rate Times:	16	*	Times	Gamma Setting
Data Clock Frequency	: 12.50	٠	MHz	Gray Level:	12	*		Decoder Chip Exte
Data Clock Phase:	0	.*	ns	Duty Cycle:	50		%	
	1000	Real Valu	e(ns): 1296	Close Time:	800	Real Valu	e(ns): 800	
Row Blanking Time:		Real Valu	e(ns): 200	Brightness Efficiency:	97.7%			
Row Blanking Time: Line Changing Time:	200							
	200 8	Real Valu	e(ns): 3976					
Line Changing Time: Minimun OE Width:	8		e(ns): 3976					
Line Changing Time: Minimun OE Width: CALIBRATION type:	8 Not Use			click intelligent Settings	to debug	the display	screen.	

3. Please enter the correct parameters to the smart setup dialogue box .

• **Module width/height:** Input the actual pixel of the current pixel.

2 **Module data group:** View the interface definition of module data input port and calculate according to the actual data line number and grouping mode of module.(Generally, three lines are parallel, so an RGB is a set of data. For example, if a module has two sets of RGB, then the module data group is 2)

③ **Card type :** Type of receiving card currently used for debugging which can directly view according to the identity on the receiving card.

**Blanking polarity:** Low/high effective, normally use the default one.

**Contrl system:** Please choose T6(D90 series) or FPGA(D80 series) according to your receiver card types.

6 **Drive chip:** Select the type of drive chip used in the current module, such as: conventional chip, MBI5153, ICN2053, etc.

Decoding method: "138 decoding", "5958 decoding", "high direct output", etc.

<sup>(8)</sup> **Grouping mode:** Viewing the interface definition of the current module data input port, if having R/G/B three colors (red, green and blue) signal data (red, green, and blue lights on driver chip is separate connection, and no string between them, thus choose "parallel three line" ;If there is only one color signal data on the module or only one R data (In addition to the single color screen, and the chip controlling the red, green and blue LED lights is connected together), then select "RGB serial".

**Double clock:** No need to choose when configure normal module. Only need to choose D, E, F signal for second clock when configure double clock led module.

Receiver	Screen Connectio	n			
Module Informatic	18Y1 1#3		9866 Scanning T ECT OUTPUT(HICData Grou		Card Mode: T6
Box Design					
O Normal De	Smart Parameters	Settin			× More Design
Module Size:	Base Parameter Refer	to the document	content for annotatio	on resolution	-
18pix x 1pix	Module Width: (1) Module Height:	18	<ul><li>(5) Ctrl System:</li><li>(6) Module Chip:</li></ul>	T6 • Type	
Performance Con Frequency:	2 Data Group:	1	<ul> <li>⑦ Decoding Type:</li> </ul>	DIRECT OUTPUT(HIGH) *	dule Chip Exten.
Display Mode:	3 Card Mode:	D90-75 🔻 Im	port ⑧ Grouping Mode:	Three Lines Parallelism 💌	iamma Setting
Data Clock Frequ	④ Blanking Polarity:	Low Effective	• 9 Double Clock:	Not Use *	oder Chip Exte
Data Clock Phas Row Blanking Tir	Prompt: click next s	tep that will build new r	nodule according to above	setting Next	
Line Changing Tin	ne: 200 Real V	alue(ns): 200 Br	ightness Efficiency: 97.79	6	
Minimun OE Widt	h: 8 Real V	alue(ns): 3976			
CALIBRATION typ	e: Not Use	*			
imart Setting	elect Module Open B	ox File Save Box Co.	Send Data	Save	Read Back

4. Click Next step and enter choose of Data polarity, please choose correct according

to screen changes.

Screen Configurat	tion					– 🗆 ×
Receiver Se	creen Conne	ction				
Module Information						
Speficification: 18X1	_1Ħ	Module Chip: Row Decoding Typ	MY9866 Sc be: DIRECT OUTPUT(HICDa	anning Type: ita Groups:	1 1	Card Mode: T6
Box Design						
💿 Normal De 🧱 Cl	hoose Data F	Polarity	×			More Design
		status2, check th ntness status: 1(Low) ③ Si	<b>e led module,</b> tatus2(High)			
Performance Con Frequency:		Back	Next	960	* Hz	Module Chip Exten
Display Mode:	Refresh first	t *	Refresh Rate Times:	16	* Times	Gamma Setting
Data Clock Frequency:	12.50	▼ MHz	Gray Level:	12		Decoder Chip Exte
Data Clock Phase:	0	* ns	Duty Cycle:	50	- %	
Row Blanking Time:	1000 R	eal Value(ns): 1296	Close Time:	800	Real Value(ns): 800	
Line Changing Time:	200 R	eal Value(ns): 200	Brightness Efficiency:	97.7%		
Minimun OE Width:	8 R	eal Value(ns): 3976				
CALIBRATION type:	Not Use	*				
Smart Setting Select I Sending card Type:M70-5			Box Co Send Data 587841E] Receiver Card	Save Quantity:[0,1]	Refre	Read Back

5. Click "Next Step" to enter the " OE polarity selection window" .Select the corresponding state according to the actual display of the current module.

Screen Configurat	tion					– o ×
Receiver S	creen Conne	ction				
Module Information						
Speficification: 18X1	1_1扫	Module Chip: Row Decoding Typ	MY9866 Sc be: DIRECT OUTPUT(HIGDa	anning Type: ata Groups:	1 1	Card Mode: T6
Box Design						
💿 Normal De 🧮 O	E Polarity Se	lection	×			More Design
		status2, check th ghter status: (Low) OSta	e led module, atus2(High)			
Performance Con Frequency:		Back	Next	960		Module Chip Exten
Display Mode:	Refresh first	t *	Refresh Rate Times:	16	▼ Times	Gamma Setting
Data Clock Frequency:	12.50	* MHz	Gray Level:	12	*	Decoder Chip Exte
Data Clock Phase:	0	* ns	Duty Cycle:	50	- %	
Row Blanking Time:	1000 R	eal Value(ns): 1296	Close Time:	800	Real Value(ns): 800	
Line Changing Time:	200 R	eal Value(ns): 200	Brightness Efficiency:	97.7%		
Minimun OE Width:	8 R	eal Value(ns): 3976				
CALIBRATION type:	Not Use	*				
Smart Setting Select	Module Op	en Box File Save I	Box Co Send Data	Save		Read Back
Sending card Type:M70-5	520-0 Name:	ID:[37303	587841E] Receiver Card	Quantity:[0,1]	Refre	sh Switch Sending Card

6. Click "Next Step" to enter the "scan line number" window and select the scan line according to the actual display of the current module.

Screen Configu	uration					– 🗆 🗙
Receiver	Screen Conne	ection				
Module Information	1					
Speficification: 1	18X1_1扫	Module Chip: Row Decoding Typ	MY9866 Sci be: DIRECT OUTPUT(HIGDa	anning Type: ta Groups:	1 1	Card Mode: T6
Box Design						
💿 Normal De	Scan Line		×			More Design
Module Size: 18pix x 1pix		ne interval row space b judge the scan nu	ce quantity between umber:			
	Interval row o	uantity	6 🔻			
Performance Con Frequency:		n module is one ro the interval row is o		960	* Hz	Module Chip Exten
Display Mode:		Back	Next	16	✓ Times	Gamma Setting
Data Clock Freque	ncy. 12:50	IVITIZ	Uray Level.	12	*	Decoder Chip Exte
Data Clock Phase:	0	* ns	Duty Cycle:	50	* %	
Row Blanking Time	e: 1000 R	eal Value(ns): 1296	Close Time:	800	Real Value(ns): 800	
Line Changing Time	e: 200 R	eal Value(ns): 200	Brightness Efficiency:	97.7%		
Minimun OE Width	: 8 R	eal Value(ns): 3976				
CALIBRATION type	Not Use	*				
Smart Setting Set	lect Module Op	pen Box File Save I	Box Co Send Data	Save		Read Back
Sending card Type:M	70-520-0 Name:	ID:[37303	587841E] Receiver Card	Quantity:[0,1	] <u>Refre</u>	sh Switch Sending Card

 Click "Next Step" to enter the select color window.Select the corresponding display color according to the state mode.

Receiver	Screen Conne	cuon					
Module Information	on						
Speficification:	18X1_1扫	Module Chip: Row Decoding	MY9866 Type: DIRECT O		3 11	1 1	Card Mode: T6
Box Design							
Normal De	📑 Data Line Colo	<b>pr</b>				×	More Desig
M LL C	Click the status	accordingly, sel	ect color accord	ding to modu	lle		
Module Size: 18pix x 1pix							
	Status1	Red	O Green	O Blue	O Black		
Performance Con	- The state of the second s						
Frequency:	○ Status2	O Red	Green	O Blue	O Black	łz	Module Chip Exten.
Display Mode:						îmes	Gamma Setting
Data Clock Frequ	○ Status3	O Red	O Green	Blue	Black		Decoder Chip Exte.
Data Clock Phas Row Blanking Ti	Juluss	O Red	O Green	S DIGE	DIGCK	6 ns): 800	
Line Changing Ti						(15): 800	
Minimun OE Wic				Back	Next		
CALIBRATION ty	De. NULUSE			BACK	INEXL		
imart Setting	elect Module Op	en Box File	ve Box Co	Send Data	Save		Read Bac

8. Click "Next step" to enter the "intelligent Settings" window and do the walk-points according to the actual display of the module.

Zoom	Data L	ine	Adva	nced						Deb	ug											
<b>Q</b>	ALL	٣	0		R	evert	In	isert V	Point	1		Trace	Again	Cor	nplete							
03 104	105 106 f not	107 10	08 109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
1			the fir																			
2																						
3	card o				line	to a	li int	ertad	e, or	try	10											
4		points	attem	pt.																		
5																						
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21																						

9. Click Complete to finish the smart setup.

Zo	om		Da	ata Li	ne	Ad	lvanc	ed					D	ebug												
Q	Ð	ł	ALL		*	0			Rev	ert	Inse	rt V Pc	int 1		Tra	ice Ag	ain	Comp	ete							
	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	5
1	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	7
2																										
3																										
4								Sel	ect n	ext s	tep							×								
5																										
6								16																		
7									Traci	ng So	annir	ıg line		Vhethe nes?	r to tr	ace sc	anning	3								
8	256	255	254	253	252	251	250												38	237	236	235	234	233	232	2
9									6.		ie Tra			ontinu												
10									Co	munu	le Tra	cing	P	oint o	r inser	t V po	ints)									
11								18																		
12										Con	nplete	i i	Т	race C	omple	te										
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14																										
15							Sec.																			
16																										
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10. Click finish.

Zo	oom		Da	ta Li	ne	Ad	vanc	ed					D	ebug												
Ð	Ð		ALL		•	C			Rev	ert	Inse	rt V Po	pint 1		Tra	ice Ag	ain	Comp	lete							
	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
1	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77
2																										
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5						f	-	nish s							_	_		_	×							
6							SE FI	nisn i	secun	g																
7							Sav	ve Sett	ting																	
8	256	255	254	253	252	251	File	Nam	ime: 128X128 64Scan									237	236	235	234	233	232	23		
9																										
10							Mo	dule l	Path: E	:\资料	\公司\$	这件\新	建文件	₹\Easy	Board	\LedS	et Ch	oose F	ath							
11																										
12															Finis	h Tra		Retu	rn							
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## **Receiver Card Setup**

 It can be configured by means of "smart setting" or by default "option modules" (applicable to receiving cards D90-75) to load module file or by "open box file" after loading preservation cabinet file.

Receiver 9	icreen Conne	ction						
Module Information								
Speficification: 18X	1_1扫		ule Chip: Decoding Type	MY9866 Sca e: DIRECT OUTPUT(HIGDa	anning Type ta Grou <mark>ps</mark> :	e: 1 1		Card Mode: T6
ox Design								
Normal Design	○ Advanced	Design						More Desig
Module Size:	Box Width:	18						
18pix x 1pix	Box Height	18	Mod	lify Preview				
erformance Configure Frequency:	60	•	Hz	Refresh Rate:	960		Hz	Module Chip Exter
Display Mode:	Refresh firs	*	MHz	Refresh Rate Times:	16	*	Times	Gamma Setting
Data Clock Frequency Data Clock Phase:	0		ns	Gray Level: Duty Cycle:	50		%	Decoder Chip Exte
Row Blanking Time:	1000 R	eal Valu	e(ns): 1296	Close Time:	800	Real Valu	e(ns): 800	
Line Changing Time:	200 R	eal Valu	e(ns): 200	Brightness Efficiency:	97.7%			
Minimun OE Width:	8 R	eal Valu	e(ns): 3976					
CALIBRATION type:	Not Use	٠						
								(Transmission)
mart Setting Select	Module Op	en Box	File Save B	ox Co Send Data	Sav	e		Read Bac

2. Box Design, choose Normal design and click Modify, then enter the box width and height pixels according to your cabinet and choose the correct cascading direction and click complete.

**Output mode:** With symmetrical to quadruple strip outputs, It can give full play of the receiving card performance to make the screen higher refresh rate according to actual needs. For example(cascade way: from right to left)

② **Normal output:** 1 to 24 sets of data are loaded from top to bottom.

3 **Symmetrical:** The data of the receiving card (1-12) group is equipped with the left half lamp board, and the data of (12-24) group is equipped with the right half lamp board, with the same width/height.

**Triple strip mode:** 1-8, 9-16, 17-24, Each 8 sets of data are carried in three parts

horizontally with the same width and height.

**Quadruple strip:** 1-6, 7-12, 13-18, 18-24, Each 6 sets of data are carried in four

Receiver	Screen Connect	ion							
Module Information									
Speficification: 18)	(1_1扫	Module Row De	Chip: MY coding Type: DIF	9866 RECT (		nning Typ a Groups:			Card Mode: T6
Box Design									
Normal Design	O Advanced D	lesign	Refer to the	doci	ument conte	ent for a	annotation	resolutio	on More Desig
Module Size:	Box Width:	18	Cascade Direc	tion:	From Right To	Left *	Plug Sequer	ice: Inseque	ence *
18pix x 1pix	Box Height:	18	Output mode:	1	ASMMETRIC	*	Complete	Give	up
				2	ASMMETRIC				
Performance Configur	e				SYMMETRIC				
Frequency:	60	▼ H <sub>2</sub>	: Re	efresh	QUADRUPLE_S	TRIP	*	Hz	Module Chip Exten.
Display Mode:	Refresh first	*	Re	efresh	Rate Times:	16	*	Times	Gamma Setting
Data Clock Frequency	: 12.50	* M	Hz Gi	ray Le	vel:	12	*		Decoder Chip Exte.
Data Clock Phase:	0	▼ ns	D	uty Cy	cle:	50	*	%	
Row Blanking Time:	1000 Rea	l Value(n	s): 1296 Cl	ose Ti	ime:	800	Real Value	(ns): 800	
Line Changing Time:	200 Rea	l Value(n	s): 200 Br	rightne	ess Efficiency:	97.7%			
Minimun OE Width:	8 Rea	l Value(n	s): 3976						
CALIBRATION type:	Not Use	*							
imart Setting Selec	t Module Oper	n Box File	Save Box Co.		Send Data	Sar	ve		Read Bac

parts horizontally with the same width and height.

Construction of Miscellaneous Cabinets Select Advanced Design in Cabinet Design, and click Advanced Layout to enter the Advanced Layout of Cabinets to construct complex cabinets.

**HUB Port Swap :** Select the corresponding module, directly change it to the actual connected HUB port under the HUB column, or move the module to exchange.

**Data Line Exchange:** Click the "Edit" button under the HUB column to enter the data address editing interface. In this interface, check the data line output test, find the HUB port corresponding to the module in the "Jx" column of the HUB entry, and change

the data line address in the "Exchange Address" column of the HUB entry until the cabinet is The color displayed above is the same as the color in the "Address" column of the same line in the HUB entry, and when the corresponding module layout (module structure) is on the HUB port, it means the change is correct. Similarly, after all the HUB address lines are defined, uncheck the box. "Data line test", and finally click the "Finish" button to exit the data line exchange editing interface.

oom	Edit		HUE	3		Debug	Exhibit	Align	Array
	Add Delete Replace Undo Redo Move	Edit JX : J1	* Up	Down	anual	bug Complete	Position Size Connectio	비리지다	
			HUB	Item			×		
			JX	Address	h change ad		D00 75		
				1	46	Card Type	D90-75		
				2	45				
			1	3	43	Hub outpu.	Hub outpu ASMMETR		
				4	42		SYMMETR		
				5	38		TRIPLE_ST		
				6	44		QUADRUP		
				7	57				
				8	54	Test	Data line out		
			2	9	53				
				10	50				
				11	48				
				12	49	-			
				13	63	-			
				14	62				
			3	15	61	Ca	ncel Complete		
					-				

3. The System will auto calculate the performance configuration parameters after done box design, you can also adjust some options to make display effect better. **Refresh rate :** An important indicator of the Led screen.Increasing the refresh frequency can improve the water ripple when using the camera to take pictures. **Display mode :** It can be divided into refresh priority and Grayscale priority. Refresh priority: In this mode, the brightness efficiency will be reduced while the refresh rate of the module can be greatly improved. Grayscale priority: This mode will have a better grayscale effect at low brightness.

**Refresh rate times:** High brush algorithm for improving visual refresh rate, default. **Data clock frequency:** It is related to the design of LED module circuit and the driving chip used. If the well-designed high brush IC is used , the module can be reached higher clock while gray degree and refresh frequency can be supported higher with the same load area.

**Grayscale:** Increasing the grayscale according to the requirements of the LED. The higher the grayscale, the better the picture quality. Generally, it is 12 to 14bit, (12bit grayscale is equal to 4096 gradation grayscale)

**Data clock phase:** Timing starting point of the clock setting. It can be adjusted when the screen body has flash point , flower screen and other abnormal phenomena. Generally 12.5~17.86.

**Duty cycle :** Refers to the duty cycle of the clock phase. Changing this data can make the scanning clock phase higher generally set to 50%.

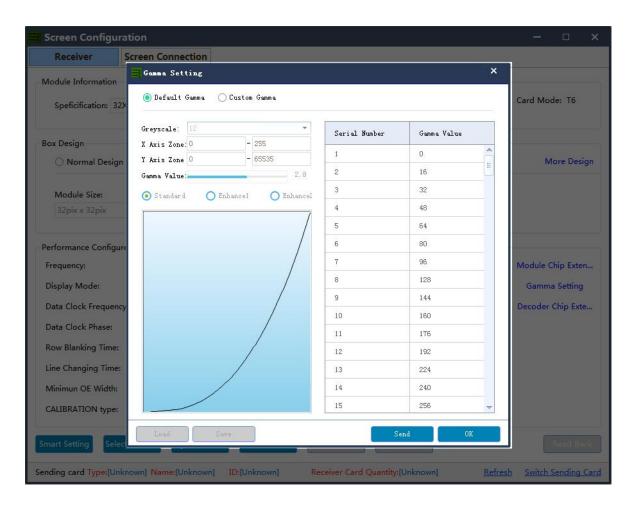
**Line changing time/discharge time/sweeping position**: Mainly adjust the scan screen afterglow, the newline value time can be increased if serious, generally take the default values.

**Min OE width** : Min response time. When the refresh cannot be improved effectively, try to reduce it.

28

Screen Configuratio	on					- • ×
Receiver Scr	reen Connection					
Module Information						
Speficification: 18X1_1		ule Chip: Decoding Typ	MY9866 Sca be: DIRECT OUTPUT(HICDat	anning Type: ta Groups:	1 1	Card Mode: T6
Box Design						
Normal Design	O Advanced Design					More Design
Module Size:	Box Width: 18					
18pix x 1pix	Box Height: 18	Mo	dify Preview			
Frequency: Display Mode: (2) Data Clock Frequency: Data Clock Phase: (6)	Refresh first * 12.50 *	Hz MHz ns	<ol> <li>Refresh Rate:</li> <li>Refresh Rate Times:</li> <li>Gray Level:</li> <li>Duty Cycle:</li> </ol>	960 16 12 50	<ul> <li>Hz</li> <li>Times</li> <li>%</li> </ul>	Module Chip Exten Gamma Setting Decoder Chip Exte
Row Blanking Time: (8)	1000 Real Value	e(ns): 1296	Close Time:	800 Re	al Value(ns): 800	
Line Changing Time:	200 Real Value	e(ns): 200	Brightness Efficiency:	97.7%		
Minimun OE Width: (9)	8 Real Value	e(ns): 3976				
CALIBRATION type:	Not Use *					
mart Setting Select M		ile Save E	3ox Co Send Data 587841E] Receiver Card (	Save	Refr	Read Back

**Gamma Configure** : Gamma represents the metric parameter of the original signal, which refers to the distortion of the output image of the display to the input signal, and the Gamma value refers to the specific value of this distortion. Adjust the desired Gamma on the Gamma setting column, the default value is 2.8, you can also use a custom Gamma value to edit or load an external Gamma table. After debugging, click Send to save the adjustment effect to the receiving card.



4. Click the" send data" button to send the program to the receiving card.

Screen Configura	tion	×
Receiver	Screen Connection	
Module Information Speficification: 18X	1_1扫 Module Chip: MY9866 Scanning Type: 1 Row Decoding Type: DIRECT OUTPUT(HICData Groups: 1	Card Mode: T6
Box Design Normal Design	O Advanced Design	More Design
Module Size:	Box Width: 1 Send Data × equence: Insequ	ence *
18pix x 1pix	Box Height: 1 Send Data All Cards Specified Port Specified Card Specified Card	up
Performance Configure	When sending data, you can specify the network port or the specified card	
Frequency:	60 for sending or reset the receiving card	Module Chip Exten
Display Mode:	Refresh first position to make all receiving card Times	Gamma Setting
Data Clock Frequency	e 12.50 positions return to zero to show the same position.	Decoder Chip Exte
Data Clock Phase:	0 * %	
Row Blanking Time:	1000         Real Value(ns): 1296         Close Time:         800         Real Value(ns): 800	
Line Changing Time:	200 Real Value(ns): 200 Brightness Efficiency: 97.7%	
Minimun OE Width:	8 Real Value(ns): 3976	
CALIBRATION type:	Not Use *	
Smart Setting Select	Module Open Box File Save Box Co Send Data Save	Read Back

5. Observe whether the box is displayed normally. Then click the "save" button and solidify the data to the receiving card to prevent data loss from power off and restarting.

Receiver	Screen Connec	tion							
Aodule Information									
Speficification: 18)	(1_1扫	Module Row Dec		MY9866 e: DIRECT	Sca OUTPUT(HIGDa	anning Type ta Groups:			Card Mode: T6
ox Design									
Normal Design	O Advanced	Design							More Desig
Module Size:	Box Width:	18	Cascade	Direction:	From Right To	Left *	Plug Seque	nce: Inseque	ence 🔻
18pix x 1pix	Box Height:	18	Output r	mode:	ASMMETRIC	•	Complet	e Give	up
erformance Configur	Prompt		×						
Frequency:	60 Solid da	ata successfu	illy	Refres	n Rate:	960	×	Hz	Module Chip Exten
Display Mode:	Ref			Refres	n Rate Times:	16		Times	Gamma Setting
Data Clock Frequency	/: 12.!	ОК		Gray L	evel:	12	Ŧ		Decoder Chip Exte
Data Clock Phase:	0	* ns		Duty C	ycle:	50	٣	%	
Row Blanking Time:	1000 Re	al Value(ns	): 1296	Close	īme:	800	Real Valu	e(ns): 800	
Line Changing Time:	200 Re	al Value(ns	): 200	Brightr	ess Efficiency:	97.7%			
Minimun OE Width:	8 Re	al Value(ns	): 3976						
CALIBRATION type:	Not Use								
						1	1		
nart Setting Selec	t Module Ope		Save B	ox Co	Send Data	Sav	/e		Read Bac

6. Finanlly click Save Box Config button and save the configuration file to laptop.

· → → ↑ ● , 此电脑 → 文档 → ↓ ○ 搜索"文档" ♪           · 按索"文档" ♪           · 1             · 和建文件夹           · ● ○ ∩eDrive           · ▲ Adobe           · 2020/9/11 14:58           · ● ○ ∩eDrive           · ▲ Adobe           · 2020/9/11 14:58           · ♥          · ● ○ ∩eDrive           · ▲ Adobe           · 2020/9/11 14:58           · ♥          · ● ○ ∩eDrive           · ▲ Adobe           · 2020/9/11 14:58           · ♥          · ● ○ ∩edrive           · ▲ Adobe           · ○ ○ ∩edrive           · ● ○ ∩edrive           · ▲ Adobe           · ○ ○ ∩edrive           · ● □ ○ ∩edrive           · ● □ ○ ∩edrive           · ● □ ○ ∩edr	Screen Connection	
<ul> <li>OneDrive</li> <li>OneDrive</li> <li>Adobe</li> <li>2020/9/11 14:58</li> <li>Corel User Files</li> <li>Corel User Files<th>此电脑 &gt; 文档 &gt;</th><th>1 Card Mode: T6</th></li></ul>	此电脑 > 文档 >	1 Card Mode: T6
<ul> <li>OneDrive</li> <li>○ OneDrive</li> <li>○ Adobe</li> <li>○ 2020/9/11 14:58</li> <li>○ Corel User Files</li> <li>○ 2020/8/13 9:12</li> <li>○ Corel User Files</li> <li>○ 2020/8/13 9:12</li> <li>○ FormatFactory</li> <li>○ 2020/8/3 21:31</li> <li>○ League of Legends</li> <li>○ 2020/8/3 21:38</li> <li>○ LedOK Express</li> <li>○ QQPCMgr</li> <li>○ 2020/8/3 21:36</li> <li>○ QQPCMgr</li> <li>○ 2020/8/3 21:36</li> <li>○ V</li> <li>○ Tencent Files</li> <li>○ 2020/8/3 21:36</li> <li>○ V</li> <li>○ Crel User Files</li> <li>○ 2020/8/3 21:36</li> <li>○ V</li> <li>○ Tencent Files</li> <li>○ 2020/8/3 21:36</li> <li>○ V</li> <li>○ V</li></ul>	æ III ▼ 🛄 (	
tr#(0) m* Decoder Ch	<ul> <li>▲ 名称</li> <li>修改日期</li> <li>▲ Adobe</li> <li>△ 2020/9/11 14:58</li> <li>△ Corel User Files</li> <li>△ 2020/8/13 9:12</li> <li>➡ FormatFactory</li> <li>△ 2020/8/3 21:31</li> <li>➡ League of Legends</li> <li>△ 2020/8/3 21:38</li> <li>➡ LedOK Express</li> <li>△ Q0PCMgr</li> <li>△ 2020/8/6 12:09</li> <li>➡ Tencent Files</li> <li>△ 2020/8/3 21:36</li> </ul>	Sequence: Insequence * mplete Give up
Data Clock Phase: 0 * ns Duty Cycle: 50 * %		The coder Chip Ex
Row Blanking Time:     1000     Real Value(ns): 1296     Close Time:     800     Real Value(ns): 800       Line Changing Time:     200     Real Value(ns): 200     Brightness Efficiency:     97.7%       Minimun OE Width:     8     Real Value(ns): 3976     Value(ns): 200     Value(ns):       CALIBRATION type:     Not Use     T	200   Real Value(ns): 200   Brightness Efficiency:   97.7%     8   Real Value(ns): 3976	Real Value(ns): 800

#### **Screen Connection**

- 1. While the receiving card is configured, click the "screen connection" button in the menu bar of the receiving card configuration interface to enter the screen window interface.
  - $\bigcirc$  Load: Load the saved screen configuration file.
- Save to file: Save the display configuration information to the computer in (.\* dcc ) format.

③ **Send**: Send screen configuration information to the sending and receiving cards.

**Read back:** Click this button will read back the existed screen connection configuration from the good working receiving card so that can quickly send to the new receiving card.

**Open Box sign:** Click this button then will auto show the receiving card numbers in correct order in each cabinet.

6 **Receiving card quantity:** It will show all receiving cards numbers, there are normally two digits, for example: [1.0] means Ethernet port 1 of sending card has connected 1 receiving card, while Ethernet port 2 of sending card no receiving card.

Screen Config	guration	×
Receiver	Screen Connection	
the "refres chip numb the connec connecting	hen do the connection operation of the current display, firstly click the button to refresh all the receiving card to check whether the er (usually receiving card number) is consistent with the number of the d, if not consistent, please check the hardware connection, when g several sending cards please switch to find the corresponding rd for debugging.	Display Number: 1 Configure Start Location X Pos: 0 Y Pos: 0 Receiver Card Set Columns: 1 Rows: 1 Width: 128 Height: 128 Select Empty Posit Apply To Curr Sending Card Setting Netport Number: 1 2 3 4 5 6 7 0 Connect Hub Quick Connection Quick Connection Hide Connection Line Revert
Refer to the	document content for annotation resolution	Reset Netport Reset ALL
① Load File	Image: Constraint of the send     Image: Constraint of the send       Save To File     Send       Read-back     6	⑤ Open Box Sign
Sending card Type:	M70-520-0 Name: ID:[37303587841E] Receiver Card Quantity:[0,1]	Refresh Switch Sending Car

 $\ensuremath{\,\widehat{}}$  Switching sending card : If there are more than one sending cards in the

same network, can switch to the correct sending card when sending parameters.

Screen Confi	guration		×
Receiver	Screen Connection		
Screen1		Display Number: 1	• Configure
Receiver Card Lay		X Pos: 0	Y Pos: 0
Receiver:1 1 Width:128 Height:128		Receiver Card Set Columns: 1	Rows: 1
	Sending Card Slection	×	Height: 128
	Sending Card Checking Sending Card		Apply To Curr
	ID:37303587841E Name: Edit Type:M70-520-00007 Receiver Card Quantity:0,1		
	Current sending card you choose 📕 Refresh	OK Cancel	
			រាហ
		Hide Connection I	Line Revert Reset ALL
Load File	Save To File Send Read-back		Close Box Sig
Sending card Type:	M70-520-0 Name: ID:[37303587841E] Receiver Card Quantity:[0,1]	Refresh	Switch Sending Car

2. In the screen connection interface, the cascade mode of receiving card as well as the width and the height can be set according to the actual situation of large screen,

(the width and height of the dots of each receiving cards can be different),

Please setup the cascading way including receiver card width and height pixels correctly.

Display Number: Number range 1-20, please select according to real situation, click Configure button after choose. If choose 2 means LED screen is double sides, you need do screen connection one by one.

 $\bigcirc$  **Starting location:** LED display interception position of input signal source. The default state is (0, 0), which means that the LED display starts at the point (0, 0) of the video source.

③ **Receiving card Settings:** Set the rows and lines and the dots of the width of each receiving cards according to the actual number of cards used in the screen .

Position blank: Click the "Select Empty position" button , and then select the blank. When set, click the button again to exit the select blanks operation.

(5) **Apply to current port** : Set the size of all boxes connected to this port to the current column width and column height.

6 **Sending card setting:** Select the output port of sending card.

 $\odot$  **Connect hub:** If adopt the hub in the big screen can do following operations:

- Choose the "Connect HUB" option;
- Select the sending card Ethernet port and setup the "hub address";
- Choose "hub address" and do screen connection;

Quick connect: The entire screen is loaded with only one network cable and the receiving card's network cable is regularly cascaded.

9 **Hidden connection line:** When checking the hidden connection line box, the display wire knowledge will be hidden.

**Revert:** Cancel the lastest operation.

**Reset Netport:** Will revert all setup for current Ethernet port.

**Revert ALL:** Will revert all setup for all network ports.

Screen Config	uration			- 🗆 x
Receiver	Screen Connection			
	Screen Connection Refer to	the documentati	on for annotation resolution	<ul> <li>Display Number: 1 Configure</li> <li>Start Location 2</li> <li>X Pos: 0 Y Pos: 0</li> <li>Receiver Card Set 3</li> <li>Columns: 1 Rows: 1</li> <li>Width: 128 Height: 128</li> <li>Gelect Empty Posit Apply To Curr</li> <li>Sending Card Setting 6</li> <li>Netport Number:</li> <li>1 2 3 4</li> <li>5 6 7 %</li> <li>Connect Hub 7</li> <li>Quick Connection 8</li> <li>Quick Connection 8</li> <li>Quick Connection 7</li> <li>Quick Connection 7</li> <li>Connect Tub 7</li> <li>Connect Tub 7</li> </ul>
				(0)     Hide Connection Line     (1)     Reset Netport     (1)     (1)     Reset ALL
Load File	Save To File Send	Read-back		Open Box Sign
Sending card Type:N	170-520-0 <mark>Name:</mark>	ID:[37303587841E]	Receiver Card Quantity:[0,1]	Refresh Switch Sending Card

 Click send and choose "as the main sender" and save to device; or choose "As the backup sender" to save to backup sender device. For double sender backup only work for synchronous controller.

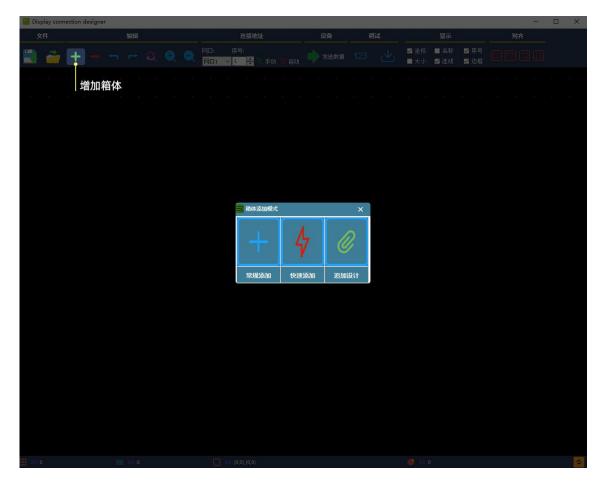
## **Other Settings**

#### **Complex Mode**

Complex mode only work for special shaped screen, which make screen connection convenient and intuitive.

#### Add Cabinet

Upload .box-conf file, open complex mode window and choose + icon, there are 3 ways of adding screen config file.



If the led screen contains various types of cabinets (different cabinet size, different driver ic or module design), please choose the first way (general add) and then click view button and select the .box conf file and import.

#### **Receiver—Brightness**

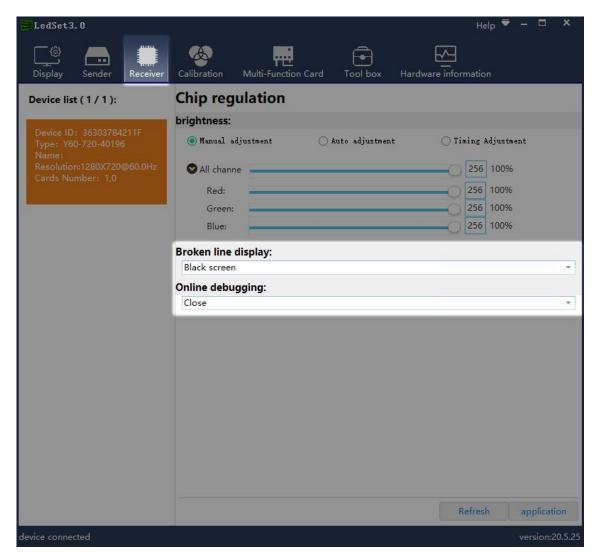
Select Receiver and enter brightness adjustment, you can do manual or auto

adjustment.

ELedSet3.0	Help 🔻 – 🗖	ı x
Display Sender Receiver	Calibration Multi-Function Card Tool box Hardware information	
Device list ( 1 / 1 ):	Chip regulation	
	brightness:	
Device ID: 36303784211F Type: V60-720-40196 Name:	Manual adjustment	
Resolution:1280X720@60.0Hz Cards Number: 1,0	♥ All channe	
Carus Number: 1,0	Red: 256 100%	
	Green: 256 100%	
	Blue: 256 100%	
	Broken line display:	
	Black screen	
	Online debugging:	
	Close	*
	Refresh applic	ation
device connected	versio	n:20.5.25

#### **Receiver----Broken Line Display**

Broken line display means when receiver disconnect from sender card, the led screen has 3 modes to display: black screen, standby mode and last frame. While the standby mode is ex-factory default type of red, green, blue and black color



bars. Normally Choose Black screen mode. After done this, click application and exit.

#### **Hardware Information**

After enter hardware information, will see following information:

Left side will show sender information, right side show the receivers firmware version and error package.when there is communication bug, will appear error package data, the first digital will greater than 4 and will keep increasing. At this time, customer needs to check the Ethernet cable connection for current and previous receiver and then click "reset bit error rate" to make error package digital into 0.

When click "start bit error rate" option, system will auto enter self testing status, that is display red, green, blue and scanning information when there is communication bug, this self testing status will over unless fixed the bug and cancel the "start bit error rate" option.

Display       Energy       Receiver         Device list (1/1):       Device ID: 36303784211F         EPGA version: 90.2.E0.1       MCU version: 0.0	Calibration Mu Start bit error . address NetPort1 - 1	Iti-Function Card	Tool box Hardwa	are information	
Device ID: 36303784211F FPGA version: 90.2.E0.1	address				
FPGA version: 90.2.E0.1		CPU0 version			
FPGA version: 90.2.E0.1	NetPort1 - 1		CPU1 version	Total package	Error packag
Type: Y60-720-40196 Name: Resolution:1280X720@60.0Hz Cards Number: 1,0		00,00,01,42	00,00,01,09	2176543	0/0
evice connected	<				version:20.5.25

## **Terminal Control**

#### Advanced Parameters——Setup Led Screen Width And Height

#### Parameters

Select advanced parameters with password 888, Setup the led screen width and height

LedOK Express	Termianls	Solutions
ALL 1		Refresh 💌
Screen ID C	Online Screen IP	
✓ m70-520-00007	192.168.0.200	tness Adjust 'ower Contro ork Configur Synchroniz: Encrypt nced param /ideo source
		single screen operation->Current screen:m70-520-00007
		Advanced parameters
		LED Screen Width(pixel): 1920 Height(pixel): 1080 Set
		Web Server Address: www.m2mled.net Compant ID: in_test_passed Set
		Realtimer Server Address: Set Clear
		Apk upgrade Check Apk Uninstall Running check
		FPGA Upgrade         FPGA version check         Sync FPGA version         Restart led controller system
		查看日志
		Start LedSet3.0 configure LED module (used by manufacturer's professionals)
RJ45 Cable directly connecte	d ON ODetect	

pixels and click set button.

#### Advanced Parameters—Web Server Address

Enter web server address and correct company ID and click set.

Oversea web server address: <u>www.ledaips.com</u>.

							0	- 0	$\times$
LedOK Express	Termianls			Solutions		Tem	ce ninal Control		
ALL 1								Refresh	-
Screen ID Online	Screen IP	<b>.</b> (	U)		()		Ó		
☑ m70-520-00007 🔴	192.168.0.200 jhtne	ess Adjustm Powe	er Control w	ork Configural	ne Synchronizat	Encrypt	anced paramet	Video sour	rce
	sing	gle screen operation	n->Current scre	en:m70-520-000	007				
				Ac	dvanced paramete	ers			
	L	LED Screen Width(p	oixel): 1920	Height(pix	el): 1080	Set			
	v	Web Server Address	s: www.m2mled www.m2mled		✓ Compant ID:	n_test_passed	et		
	F	Realtimer Server Add	dr www.ledaips.	.com	Set Cl	ear			
			eck Apk	- T		all Running check			
		FPGA Upgrade Ff	PGA version ch	Sync FPG	A version Resta	irt led controller sy:	stem		
			0. Start LodSet 3	configure LED :	module (used by	manufacturer's pro	ofeccionale.)		
				Configure CLD	manufic custo by	instantional and a pro			
RJ45 Cable directly connected	Detect								

## Advanced Parameters——Real Time Server Address

only castonized acverophient asers need set this.	Only	customized	develo	pment	users	need	set	this.
---	------	------------	--------	-------	-------	------	-----	-------

		◎ – □ ×
	Ā	<u> </u>
LedOK Express	Solutions	Terminal Control
ALL 1		Refresh 🔻
Screen ID Online Screen IP	🔆 U 🛜 🕲 🔒	
y60-720-40196 🔵 169.254.255.2	tness Adjust ower Contra ork Configur Synchroniz Encrypt	/ideo source Volume need param Test
	single screen operation->Current screen:y60-720-40196	
	Advanced parame	eters
	LED Screen Width(pixel): 1280 Height(pixel): 720	Set
	Web Server Address: www.m2mled.net  Compant ID:	test Set
	Realtimer Server Address: Set	Clear
	Apk upgrade Check Apk Vinins	tall Running check
	FPGA Upgrade FPGA version check Sync FPGA version Rest	tart led controller system
	Check Log	
	Clear Program	
	Start LedSet3.0 configure LED module (used t	by manufacturer's professionals)
Detect		

#### Advanced Parameters——APK/FPGA

First, click Check APK will get all apk versions of sending card.

Second, APK upgrade-----update software version for sending card, including install

latest xixunplayer, also can install third party APK.

Third, uninstall----uninstall xixunplayer or other third party APK.

Fourth, running check----check specific apk running status.

Fifth, FPGA upgrade----only work for Y10, E10 cards.

Sixth, FPGA version check----check sender card hardware version.

Seventh, check log----checking controller working log.

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	9	ā			ి		
LedOK Express	<b>J</b> Inls	Solutions			Terminal C	ontrol	
ALL 1 Q						R	efresh 👻
Screen ID Online Screen IP			A			Ö	TEST
y60-720-40196 🔵 169.254.255.2.	tness Adjust ower Contro	ork Configui Synchron	iz Encrypt	/ideo source	Volume	nced param	Test
	single screen operation->	Current screen:y60-720-40	196				
		,	dvanced paran	neters			
	LED Screen Width(pixe	el): 1280 Height(pi	(el): 720	Set			
	Web Server Address:	www.m2mled.net	✓ Compant IE	): test	Set		
	Realtimer Server Addre	ess:	Set	Clear			
	Apk upgrade Check	Apk	✓ Unir	stall Running o	heck		
	FPGA Upgrade FPG	A version check Sync FP	GA version Re	start led controlle	er system		
	Check Log						
	Clear Program						
	st	art LedSet3.0 configure LEI	) module (used	by manufacture	r's profession	als)	
Detect							

#### Network Configuration—Wire Setup

LedOK Express	Termianls	Ę	Solutions	Ľ	Termin	al Control	- o ×
ALL 1							Refresh 🔻
Screen ID Online	e Screen IP	-i- (l)		(M)	A	10	
☑ m70-520-00007 ●	192.168.0.200	tness Adjust vower Contro	urrent screen:m70-6	ynchroniz: 520-00007 RJ45) Configu	Encrypt	nced param	/ideo source
		Specify IP					
		IP Address		. 0 . 200			
		Subnet mask Gateway	255 . 255				
		DNS Address	192 . 168				
RJ45 Cable directly connected	ON Detect						

Network configuration, first is Wire, can setup the controller IP address.

#### NOTES:

- 1. Controller will get access to internet by wire as first priority.
- 2. Must remove the LAN cable from controller if choose WIFI or 3G internet and choose automatically acquisition IP.

#### Network Configuration——WiFi Configuration

Turn on WIFI and scanning WIFI hotspot, then enter wifi password and click save.

							@ ·	- 🗆 🗙
CK	FB		i i i			ç		
LedOK Express	Termianls		S	olutions		Termin	al Control	
ALL 1					4 <u>1</u>			Refresh 🔻
Screen ID Online	Screen IP		d	(	(A)	A	ā	
✓ m70-520-00007	192.168.0.200	tness Adjust	'ower Contro	ork Configu	Synchroniz	Encrypt	nced param	/ideo source
		single screen	operation->Cu	irrent screen m	170-520-00007			
				Wire Ent	her(RJ45) Confi	guration		
					WiFi	Configuration	2	
			i On/Off	Signal strength	:66]	Scan		AP AP
		Passw						Password
				Set			Readback	l
					105		-	
RJ45 Cable directly connected	Detect							.d

Wait for about 3 minutes, controller will come online. Please watch the "Internet" light,

if it flashing regularly means online success, go to AIPS platform and check it.

#### NOTES:

- 1. If could not scanning the WiFi, please try to turn on/turn off Software or WiFi Switch.
- 2. If controller can't get access to internet through WiFi, please double check the steps

below:

A.WiFi antenna plug correctly.

B.WiFi password is correct or not.

C.If the Wireless router being accessed too many terminals?

D.E series controller switch on WIFI mode?

E.Try another WIFI hot spot.

F.Y/M series controller, please make sure the LAN cable removed.

#### Network Configuration——AP Configuration

Enable AP option and write down new AP name and password, click set, then controller will issue a hotspot when running.

LedOK Express	s	© − □ ×
ALL 1 Q		Refresh
Screen ID         Online         Screen IP           Image: mission of the street	thess Adjust over Contra	rideo source ame Adjustri need param
	Single screen operation->Current screen:m50-b19-00213           Gateway         192 . 168 . 0 . 1           DNS Address         192 . 168 . 0 . 1           Set         Readback	
	WIF配置 WIFI On/Off WIFI name xxxun ✓ Scan Password Input password Set	AP AP name M50-B19-00213 Password 12345678 Set
RJ45 Cable directly connected ON Detect		

#### Network Configuration—3G/4G Setup

Enable 4G/5G option, click" Check" button will auto match the country code MMC and choose the operator name to get the APN , if can not find your country code, please enter by click custom option.

		<u>⊚</u> – □ ×
LedOK Express	s Solutions	Terminal Control
ALL 1 Q		Refresh
Screen ID Online Screen IP	- U 🛜 🕅	
m70-520-00007 🔵 192.168.0.200	Intress Adjustm Power Control work Configura te Synchroniz	tat Encrypt ranced paramet Video source
	single screen operation->Current screen.m70-520-00007	
RJ45 Cable directly connected ON Detect	Wire Enther(RJ45) Co 4G/5G Configur ✓ Open 4G/5G Through the chcek status button, you can automatically match to get the response APN information. If you can't find the opera- then enter the APN information manually. CUSTOM Chcek status Country ID(mcc): 515 Carrier Name APN: APN(Required) User Name: Not required Set Readback	ration

After save 3G parameters, waiting for about 5 minutes, please check if card online in AIPS platform. "Internet" light will flashing fast for dialing up then flashing regularly means get online success.

#### NOTES:

If controller can't get online success, please checking following things:

A.3G antenna has plugged correctly?

B.Y/M series controller, make sure the LAN cable removed.

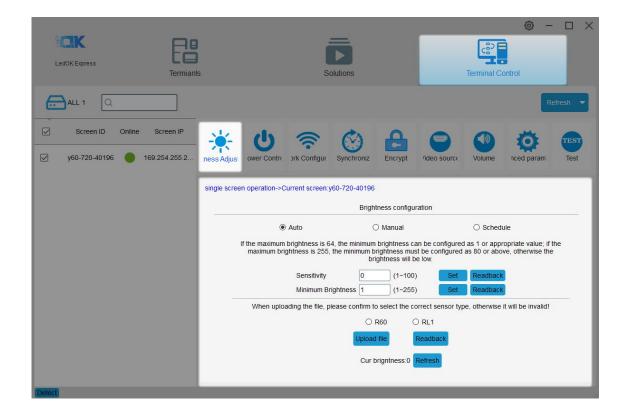
C.APN is correct or not?

D.SIM card has activate? SIM card has enough money and 3G data service?

E.Check 3G signal at least 13 and above? Click Network status detection to check 3G signal.

#### Brightness Adjust——Auto

Please read the remind message first and then set proper sensitivity number and min brightness level and click set. Higher sensitivity value, dimmer brightness in night.



#### Brightness Adjust——Manual

Can set the brightness level by manual and click set.

LedOK Express	Termianls	s	Inclutions	Terminal Co	⊚ – □ ×
ALL 1 Q					Refresh 👻
Screen ID         Online           y60-720-40196         Image: Contract of the second se	Screen IP 169.254.255.2	ower Contre	Synchroniz Encrypt	rideo source Volume	nced param
	single screen	operation->Current screen:	y60-720-40196		
			Brightness configu	iration	
		<ul> <li>Auto</li> </ul>	Manual	⊖ Schedu	ule
		Brightness value 155	Y10/E10/E06: 1(min)~64	(max); M90/Y30/E60/Y60: 1(	min)~256(max)
			Set Rea	dback	
Detect					

## Brightness Adjust——Schedule

Please read our tips first if do not know how to make schedule.

Here can add, delete and modify the brightness schedule commands. Click Apply after done.

			⊚ – □ ×
LedOK Express	s Solutio	- D ons	Terminal Control
ALL 1 Q			Refresh 💌
Screen ID Online Screen IP	🔆 ሀ 察 (		
y60-720-40196 🔵 169.254.255.2	ness Adjus ower Contro ork Configur Sy	nchroniz Encrypt /ideo source	Volume nced param Test
	single screen operation->Current screen:y60-7	20-40196	
		Brightness configuration	
	O Auto	O Manual	Schedule
	example, set the default brightness to	ig brightness, and outside the setting to 80, set the brightness to 180, and the nd the default brightness in other times	time range to 8:00-17:00, then the
	Add Delete Clear	Default brightness 50	Import Export
	Brightness Value	Start Time	End Time
	1 255	06:00	18:00
	2 155	18:00	06:00
	Apply	Read	iback
Detect			

#### Power Control——Manual

Can turn on/off led screen from software. This is not physically power off.

LedOK Express	s Solutions	و ب الله من المحمد المحمد لمحمد المحمد المحم المحمد المحمد المحم المحمد المحمد المحمم المحمد المحمد المحمد المحمد المحمد المحمد المحمد ال
ALL 1 Q		Refresh 💌
Screen ID Online Screen IP	🔆 🙂 🛜 🛞	
y60-720-40196 🛑 169.254.255.2	tness Adjust ower Contro ork Configur Synchroniz	Encrypt /ideo source Volume need param Test
	single screen operation->Current screen.y60-720-40196	
	Powe	er configuration
	Manual	○ Schedule
	Pov	wer
		Readback
		_
Detect		

#### Power Control——Schedule

LedOK Express	Termianls		Solutions			Cerminal C		×
ALL 1 Q							[	Refresh 🔻
✓         Screen ID         Online           ✓         y60-720-40196         ●	Screen IP	ower Contr	nfigur Synchroniz	Encrypt	/ideo source	Volume	nced parar	m Test
	single screen o	operation->Current s	creen.y60-720-4019	6				
			P	ower configurat	ion			
			O Manual		Schedule			
	Ad It is p		lear e the schedule time p	period			Import	Export
	We	er On St Start Time	End Time SUN	MON	TUE WED	THU	FRI	SAT
	1	On 06:00	23:00					
Detect			Арріу		Readb	ack		

Just need set the power on time range according to requests, click apply after done.

## Synchronize——Calibrate Clock To Computer time

This is to calibrate computer time to the led controller. So that led controller clock will

keep sync with computer's.

LedOK Express	Termianls	Solutions	O - C ×       Control
	Screen IP 2.254.255.2 Iness Adjust over Control ork Cont	gui Synchroniz Encrypt	Refresh
	single screen operation->Current scr Calibrate clock to computer time	een:y60-720-40196 Verify clock configu	ration
	Set	Lora OPS      Identification Code     Identification      Time offset(msec)      Screen Brightr Volum      Set	
Detect		Master     Set	O Slave Readba

#### Synchronize——Use Lora Modem To Synchronize Image

Lora modem belongs to hardware accessory, with its help, we can make multiple led screen display the same frame always. It has master and slave modem, one master can bring more slave ones, so that all slave modems will follow the master modem clock and realize the synchronize image.

LedOK Express	B anis	Solutions	© − □ ×
ALL 1         Q           Screen ID         Online         Screen IP           V         y60-720-40196         169.254.255.2	Iness Adjust ower Contra	gui Synchroniz	Refresh T Volume Refresh TEST Test
Detect	Single screen operation->Current screen	veriy60-720-40196 Verify clock configu	O NTF Server addres TTP Server address

## Synchronize——GPS Sync Image

Need to plug GPS antenna, then adjust clock by gps and realize sync image.

										© –	
		E							ి		
LedOK E	press	Termianls			\$	Solutions			Terminal Cor	ntrol	
ALL	1 Q									R	efresh 👻
⊠ s	creen ID Onlin	e Screen IP		()		Ó	A			õ	TEST
🗹 у60-	-720-40196	169.254.255.2	tness Adjusi	ower Contro	ork Configu	Synchroniz	Encrypt	/ideo source	Volume	nced param	Test
			single screer	n operation->C	Current screer	n:y60-720-40196					
						Verify	clock configu	iration			
			Calibrat	e clock to com	puter time	🗹 Ena	ble Synchron	ous playing	NTI	P Server	
						O Lora	GPS	O NTF N	ITP Server addr	es NTP Server	address
						Set		Readbad			
				Set					Set	Readba	ack
										Treadure	
Detect											

### Synchronize—\_\_NTP Sync Image

LedOK Express	Termiants	Solutions		Control	×
ALL 1 Q					Refresh 💌
Screen ID         Online           y60-720-40196         Image: Contract of the state of the s	Screen IP 169.254.255.2 tness Adjust o	wer Contra ork Configur	Encrypt /ideo source	Volume nced param	m Test
	single screen o	peration->Current screen.y60-720-40196			_
	Calibrate c		clock configuration ble Synchronous playing	NTP Server	_
		O Lora	O GPS ● NTF	NTP Server addres NTP Ser	ver address
		Sync time interva	al 10 ( Readbar		
		Set		Set	dback
Detect					

Choose NTP then controller will auto adjust clock through NTP server address.

## Synchronize——NTP Server

Setup the NTP time server address and click set.

LedOK Express	) )	Solutions	Ce? Terminal Co	⊚ — □ ×
ALL 1 Q				Refresh 🔹
✓ y60-720-40196 ● 169.254.255.2	tness Adjust ower Contra		/ideo source Volume	nced param Test
	single screen operation->Current scree	Verify clock configu		
	- Calibrate clock to computer time-	Enable Synchrono     Enable Synchrono     GPS Identification Code Identificatio Time offset(msec)	O NTF NTP Server add	TP Server
	Set	Screen Bright: Volum	Readbac	Readback
		Master	O Slave	
Detect				

### Encrypt

After encrypt controller with passwords, then can not send program to controller unless

you know the password , but can also do other operations.

						© –	
LedOK Express	B anis	Solutions		Te	rminal Contro	ol	
ALL 1 Q						Re	fresh 🔻
Screen ID Online Screen IP	- 🔆 U	<b>R C</b>				ö	TEST
y60-720-40196 🛑 169.254.255.2	tness Adjust ower Contro	ork Configui Synchroniz		deo source	Volume n	ced param	Test
	single screen operation->	Current screen:y60-720-4019	96				
		E	ntrypt configuration				
		New passwo	ord New password				
			vord Repeat new pa				
			Set encryption				
Detect							

#### Sync&Async Setup—Button Of Sync&Async Setup

Running LedOK Express software, enter terminal control, and open sync&async setup,

select the controller and choose the way of switch.

Manual or schedule. Also can click read back button to know controller current mode.

LedOK Express	Termianls		S	olutions	ľ	Termin	al Control	-
ALL 1								Refresh 🔻
Screen ID	Online Screen IP		U	(((-	()		Ö	
✓ m70-520-00007	192.168.0.200	tness Adjust	'ower Contro	ork Configur	Synchroniz	Encrypt	nced param	/ideo source
		single screer	n operation->Cu	irrent screen:m	70-520-00007	-		
				Video	source configur	ration		
			۲	Manual		O Schedu	le	
				HDM		Async		
					Readback			
RJ45 Cable directly connected	ed ON Detect							

#### Sync&Async Setup——Switch Schedule

In schedule setup interface, can add schedule tasks according to customer requests,

default status is displaying asynchronous content.

After finishing setup, click apply.

Can also export the schedule task from software to computer, or you can import the

schedule tasks into software.

LedOK Express	<b>FB</b> Termianls			S	olutions	1			( Term	c <sup>22</sup>	ontrol	
ALL 1 Q												Refresh 🔻
Screen ID Online	Screen IP		(	h			(		4	-	ö	
✓ m70-520-00007	192.168.0.200	tness Adjust	'ower	r Contro	ork Con	figur	Synchro	nizi	Encrypt	nce	ed param	/ideo sour
		single screen operation->Current screen:m70-520-00007										
						Video s	ource co	nfigurat	ion			
				С	Manual				Sche	dule		
			Add	Delete	Cle	ar					Import	Export
		By	default	, asynchi played ir	ronous co a fixed t	ontent is ime per	s played, iod	and syr	nchronou	s hdmi-i	n port in	put
			1I-IN v	i :art Tin	nd Tim	SUN	MON	TUE	WED	THU	FRI	SAT
		1	On	00:00								
		2	On	00:00	01:00							
					Apply	1			Readba	ack		
RJ45 Cable directly connected OI	Detect	-										

#### Volume——Manual

Select controller, then choose the volume range from 0 to 15, 0 is silence.

						© –	
LedOK Express	) Is	Solutions			Terminal Co	ontrol	
	10	Coldions			Terminar ov	Sillion	
ALL 1						R	efresh 🔻
Screen ID Online Screen IP	- <u>ˈ</u> , ()		A			Ö	TEST
y60-720-40196 🥚 169.254.255.2	tness Adjust ower Contro	ork Configui Synchro	niz Encrypt	/ideo source	Volume	nced param	Test
	single screen operation->0	Current screen:y60-720-4	0196				
			Volume Contr	ol			
		Manual		() Sch	edule		
		Volum	e(min:0-max:15)	12			
			Readbac	ĸ			
Detect							

#### Volume——Schedule

Can add volume schedule commands according to requests, add or clear the commands.

Support import and export schedule from or to computer.

LedOK Express	Termianls		S	Dutions			Terr	ce <sup>2</sup> minal C	() ontrol	
ALL 1 Q									[	Refresh 🔻
Screen ID Online	Screen IP	U		()	8	9			Ö	TEST
y60-720-40196 🔵 1	69.254.255.2 tness Adju	ist ower Co	ntre ork Configur	Synchroniz	Encrypt	/ideo sour	rc e Vo	olume	nced parar	n Test
single screen operation->Current screen y60-720-40196										
	_				Volume Con	rol				
			O Mai	nual		۲	Schedule	÷		
		Reminder: the	e display screen is t	he default bri	ghtness outsi	de the fixed tir	ne period	1		
		Add	Delete Clear		Default vo	ume 0 (0	0-15)		Import	Export
			Start Time End Tir		MON			тни	FRI	SAT
		1 10	08:00 21:00							
				pply		R	eadback			
Detect		_	_	_	_	_	-	_	_	_

#### TEST

There are line test, gradation test and color test, mainly to check if configuration is correct. Please click Stop button in the bottom when done.

		© - □ ×							
LedOK Express	s Solutions	Terminal Control							
		ICHINAL CONDO							
ALL 1 Q		Refresh 💌							
Screen ID Online Screen IP	👾 U 🗟 🕅								
y60-720-40196 🔵 169.254.255.2	tness Adjust ower Contra ork Configur Synchroniz	Encrypt /ideo source Volume nced param Test							
	single screen operation->Current screen:y60-720-40196								
		Test Screen							
	Line test ○ Red ○ Green ○ Blue ● White	· · · · · · · · · · · · · · · · · · ·							
	Vertical Voblique line Verticantal								
	Speed 10 Speed 10 Line Distance 15	C px Test							
	Gradation test Only the gray value is displayed								
	<ul> <li>✓ Red ✓ Green ✓ Blue ✓ White</li> </ul>								
	Speed 10 \$ (>10) Gray value 0 \$ (0-25)	55) Test							
	Color test Gradient								
	○ Red ○ Green ○ Blue ● White Test								
Detect									

# LedOK Upload /Publish Program

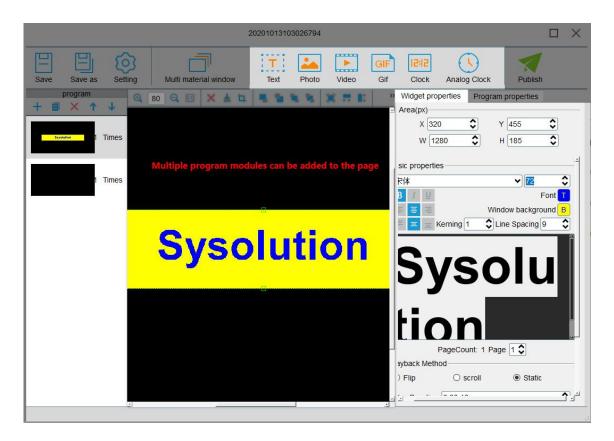
#### **Add/Send Program**

Open the program management interface, its name is Solution in software, then click New then input the program name and size information in the dialogue box and enter the editing interface.

LedOK Express		Solutions	Terminal Control	
New Edit Delete	Import Export		Q	
Name	Resolution	File Size	Last Modified	Publish
20201013101249745	Solution Info	ormation 🛛 🔀	2020-10-13 10:17:28	1
20201013103014998         RJ45 Cable directly connected	Solution Name 202010131 Resolution Width 1920 Remarks		2020-10-13 10:30:25	*

Please insert the properties for each program type after selecting from the left side column.

**Widget Properties:** Can setup the properties for the text, image or video program, like program size, display times; while different widget properties for different types of program.



Program Properties: Can setup the program name, play times, valid date or play plans

according to own requests.



- ② copy page
- ③ delete page
- (4) move up
- 5 move down
- 6 zoom in
- $\bigcirc$  zoom out
- original size

20201013103026794	×
E     Save     Save as     Setting     Multi material window     Text     Photo     Video     Gif     Letter     Clock     Analog Clock     Publish	
Oprogram     Oprogram	
Program name 20201013103657713	
systeme 1 Times	\$
✓ Valid date	
Start 2020-10-13	
1 Times End 2020-11-13	<u> </u>
Plan (+)	<b>_</b>
1 00:00 🗘 23:59 🗘	×
Sysolution Every week:	
	Su
2 00:00 23:59	×
Every week:	
M Tu W Th F Sa	Su
Multiple time schedules can be added	1
based on individual circumstances	

Click publish button after done all setup, and select the controller id and click send,

100% means send success.

	Publish									
Program	name:2020101310	3026794								
ALL:1						Q				
	Screen ID	Online	Screen IP	Screen Size ncryptio	Progress	Remarks				
	m50-b19-00213		192.168.0.254	1920 x 1080	100%					
If you	u do not find th	e requir	ed control card	l, you can try to clic	k the refresh	button				
Refresh						Publish Cance				

In multiple material window interface, can add more images in one window to realize more layers editing.

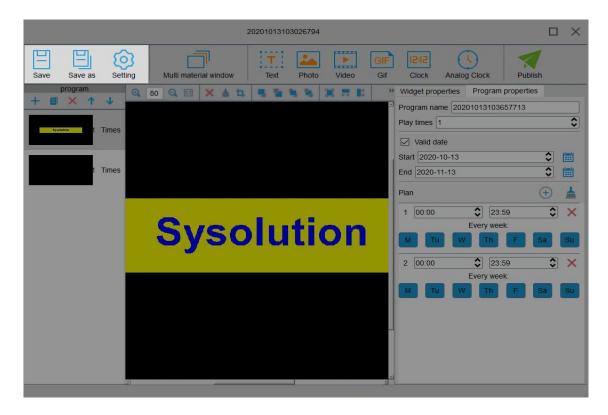
- $\bigcirc$  delete media
- $\odot\;$  clear all media
- $\Im$  cut media
- ⓐ move layer up
- 𝔅 send backwards
- 6 bring to front
- $\ensuremath{\textcircled{}}$  move to bottom layer
- $\otimes$  fill the entire screen
- $\bigcirc$  fill the screen horizontally
- $\widehat{\mathfrak{W}}$  fill the screen vertically
- align up

	2	20201013103026794			
Save Save as Set	tting Multi material window	Text Photo	Video Gif	Clock Analog Clock	Publish
program + • • • • • Times Times			<ul> <li>③ </li> <li>④ </li> <li>① </li> <li></li></ul>	I Align up ← Center vertically L Bottom up Align left ← Center horizontally ← Center	y 0
	Syse	olution		Effect Duration 0	\$
	-1				kI

Save: Save the program to the list.

Save as: Can save the program as another name.

**Settings:** Can setup program name, size and other notes information.



Can also edit/import/export or send program under solutions.

				© –	$\Box \times$
LedOK					
	Termia	anls	Solutions	Terminal Control	
New	Edit Delete	Import Export		Q	
	Name	Resolution	File Size	Last Modified	Publish
	20201013101249745	1920 x 1080	12MB	2020-10-13 10:17:28	1
	20201013103014998	1920 x 1080	405B	2020-10-13 10:30:25	1
	20201013103026794	1920 x 1080	236KB	2020-10-13 14:39:54	1
RJ45 Cable	directly connected ON O Detect				