MaxConfig4 Instruction for Use

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1 Introduction to Products

MaxConfig is the PC control software for different LED users. It meets needs of settings and adjustment of LED screens for different groups.

• User mode: A general LED screen setting mode for end users, providing common functions for LED screen settings, such as controller settings, input source switching, adjustment of brightness and color temperature, volume adjustment, split screen settings, etc.

◆ Professional mode: Provide users with certain LED professional ability (such as: technical engineers/service providers/engineers) with LED screen related debugging functions. For example: quick dot-matrix display wizard, display screen configuration, display screen monitoring, redundancy backup, adjustment of brightness and color temperature, quick control of display screens, group control settings, etc.;

• Product series supported: H19 series, H19 PRO series, H31 series, V27 series, C27 series, F27 series, and Y53 series.

1

2 Installation and Uninstallation

2.1 Requirements on Computer Configuration

- Computers run on the Windows (operating) system, compatible with Win7, Win10, and Win11
- MaxConfig file name: MaxConfig_Setup_VXXX.exe;
- Recommended computer configuration: ① CPU: above 2.0 GHz; ② Memory: 4GB or more;

2.2 Installation Process

Double-click the installation file: MaxConfig_Setup_XXX.exe, and follow the prompts to click Next;

MaxConfig V4.4.3 Setup		
tup – MaxConfig4		M
Welcome to the MaxConfi	g4 Setup Wizard.	

 Go to the Select interface at the installation position, set the installation position, and click "Next";

Please select the installati	on location of the p	rogram:	
C:\Program Files (x86)\MaxCo	onfig4		

Install the drive for the first installation on the PC

After the installation is complete, click "Complete" to exit the installation wizard. The shortcut "MaxConfig4" will be automatically created on the PC desktop, and you can start it by double-clicking.



3 Device Connection

MaxConfig4 provides four device connection modes (① Serial port connection; ② Hotspot connection; ③ Network cable connection; ④ LAN connection) to control the LED screen based on different controllers.

After the PC is connected to the controller, click the Refresh Sending Card List to display the controller information. Select the controller to debug and click Connect.

* If the corresponding controller is not displayed by clicking Refresh, <u>click to check the</u> mode when "Software cannot detect a Controller".

M Defects because	MaxConfig	🚳 🔕 – ×
SenderCardList		
Device Name: PCON600 Device Status: Online Device Type: PCON600	O Android O HDMI1	
Link Info.: 172.17.92.133 BackupType: Connect		
Device Name: Android_LED Device Status: Online		
Device Type: PCON600 Link Info.: 172.17.92.91 BackupType:	Brightness:■ 0 ≎ Contrast: ■ 0 ≎	
Connect	Volumn: 0 🗘	
	O Warm O Normal O Cool	
GroupSetting		
Refreshing		

3.1 Connect via Serial Port

Connect the sending card to the computer through the serial cable.

3.2 Hotspot Connection

After the computer wireless network searches for the wireless hotspot of the sending card, you can open the wireless hotspot at [Settings - Network and Internet] in the Android system.

0	Settinas		Code: A C 2 N 2 Q
•		< Back	
, ⊕	Network and internet		
*	Bluetooth	Wireless hotspot switch	
Ō	Display	SSID LED-A10-2759-2-40, LED-A10-2750-50	LED-AIO-2750
	Storage	Enter password Enter at kasti 8 digitis password	SHOW PASSWORD
¢]0	Sound		
88	Apps and notifications	Hide SSID	
Ŷ	Function management		
Ċ	Timer switch		
ŶŶ	System		
0	About the equipment		

3.3 Direct Connection

The computer network port is directly connected to the controller's LAN network port through a network cable. Refresh the Sending Card List to search for the device.

Note that only static IP can be set when PCON 200 PRO is directly connected. The default IP address is 192.168.100.180

3.4 Connect the Controller to LAN

2

The controller can be connected to the LAN through a router or WIFI

Mode 1: The controller can be connected to the LAN through the controller connecting router of the WAN port

Mode 2: Open WIFI Settings on the Android interface to join an existing LAN

4 Settings of Sending Card Information

Find the device to be debugged in the sending card list of software and click Connect. After connected, you can edit the device name, IP address of the sending card, hotspot information settings, settings of FPGA video resolution, as well as width and height crop.

4.1 Device Name Change

Step: Click Edit to change the name.

Device Name	PCON600	Ľ	:	
Device Statu	Online			
Device Type:	PCON600			
Link Info.:	172.17.92.133			K)
BackupType:				
DisConnect	2			

4.2 Controller Settings

You can set the IP address, hotspot information, FPGA video resolution, width and height crop etc. in the controller settings.



Step: Click More - Select "IP Information" and click OK after setting

5 User Mode

The user mode can meet the basic adjustment functions of the end user of the LED screen, including input source switching, adjustment of brightness and color temperature, volume adjustment, and split screen mode switching.

Image: Constraint of Constraint o	⊠			MaxConfig			🛛 🖉 🖉 I –	a ×
implication implication Device Name PORNO0 Like tire: 172.172.173.133 Beckup Type: 0 LMM3 O Lefo Type: <td>SenderCardList 😔 🤇</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SenderCardList 😔 🤇							
Device Dyne: PC0M00 Lick doi: 12.132.133 Beckur Dyne: 0.HDM3 Device Name: 0.DP Device Name: 0.DP Common Setting Beckur Dyne: 0.Contest: Beckur Dyne: 0.Contest: Device Name: 0.Contest: Device Na	Device Name: PCON600							
Bickup type: O HOM3 O Android Device Static control Device Static control <td>Device Type: PCON600 Link Info: 172.17.92.133</td> <td>HDMI1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Device Type: PCON600 Link Info: 172.17.92.133	HDMI1						
Period Nume: concord Device State: Control Device State: Control Backup Type: Engintess Device State: Control Device State: Device State: Device State: Control Device State: Device State: Device State: Control Device State: Device State: Device State:	BackupType: DisConnect							
Unit high Formal Device Name: Arightness Device Name: Arightness Device Name: Arightness Device Name: Arightness Volume: Source Device Name: Arightness Volume: Source Device Name: Arightness Device Name: Arightness Volume: Source Device Name: Arightness Volume: Source Volume: Source Source: Source: Source: Source: Source: Source: Source: Source: Source: Source:	Device Name: pcon200pro Device Status: Online Device Tunes: PCON200 Bro				Screen 1:HDMI			
Loomet Sightness Sightness Device Name: Addrid, LED Contrast: So Device Status: So	Link Info: 192.168.0.108 BackupType:							
Device Status: 50 ** Device Status: 50 ** Device Status: 50 ** Device Status: 50 ** Unk Info: 12173291 Volume: 50 ** Device Status: 50 ** BackupType: 50 ** Owned: **	Connect	Brightness:						
Link hits in 172.172.291 Backus Type: Connect Connect Warm Normal Cool CoupSetting Successful operation:	Device Name: Android_LED Device Status: Online Device Type: PCON600	Contrast:						
CoopySetting Scorestul operators CoopySetting	Link Info: 172.17.92.91 BackupType: Connect	Volumn:						
GroupSetting Successful operation.			Normal				Full Screen	
GroupSetting Successful operation.						Screen 1		
GroupSetting Successful operation.								
	GroupSetting Successful operation.							

5.1 General Operation

Including input source switching, adjustment of brightness and color temperature, and saturation, and volume adjustment. The LED screen is basically adjusted and the adjustment is sent in real time.

M		MaxConfig	د م د ا
SenderCardList			
Please keep the sending card on the same LAN as the computer			
	Brightness:		
	Contrast:		
	Volumn:	0 🗘 🕼	
	Saturation 📕		
GroupSetting			

 Color temperature adjustment: Adjust the current color temperature of the LED screen, including warm color, standard, cool color, and RGB.

- Saturation adjustment: Adjust the current saturation of the LED screen.
- Volume adjustment: The volume can be adjusted for the current LED screen. For scenarios that require quick mute, such as meetings, click One-Tap to Mute next to the volume for quick mute.

5.2 Split Screen Settings

This function allows the configuration of the display window number, size and output source information of the current LED screen, up to four split screens.

The split screen mode includes the full-screen, dual screens, three screens, four screens and the custom screen, where:

- Support to zoom window size with the mouse under the custom mode;
- Support to adjust the display ratio under the full-screen mode.
- When setting more than 2 screens, select one screen window as the audio source.



6 Professional Mode

This mode is for users with certain LED debugging abilities (such as: technical engineers/service providers/engineers). Considering the complexity of on-site screen configuration, the "Dot-matrix display wizard" and "Professional debugging" modes are available under the professional mode. The dot-matrix display wizard helps users quickly light up the screen.

The approach to enter the professional mode: Under the user mode, click Professional

Mode 🙆 in the upper right corner to quickly switch.

Default login password: qstech



6.1 Dot-matrix display wizard

Quickly light up the screen, and provide an entry for fast firmware upgrade and display screen configuration. (* Note: Upgrade with a U disk for Android APPs)

The dot-matrix display process is as follows:

1) Go to the "Dot-matrix display wizard" to connect the device. If you want to upgrade the system version of the sending card, click "Upgrade" at the corresponding position and import the program file. Click "Next" after confirmation. (* Note: Whether the "3.0 system" is turned on depends on the actual situation of the LED screen)

Μ		MaxConfig –	. o x
SenderCardList	Ç	System Version	
Device Name PCON600 Device Statu: Online Device Type: PCON600 Link Info.: 172.17.92. BackupType: DisConnect	:	MCU: Android: led_PCON600_CN_MAXHUB_9_202: SenderCardFPGA: 2021-9-2 2.2 HDMI: 2021-08-28 10:58:17	Upgrade Upgrade Upgrade
Device Name: pcon200	pro	System Setting () 3.0 System	
			Next》

2) Go to the configuration page for the connection relationship, and draw the connection relationship after setting the basic information of the LED screen. The two drawing methods are as follows:

Method 1: Click "Connection relationship" to draw the network;

Method 2: Click "Import" to import an existing cable relationship file

Μ				MaxConfi	9		9 = 9		×
Setting E	371		Sel Drag	Connect revoke Fit S	Green Reset Clear Del	Port			
Row:	2	۵	1-1	1-2	2				
Column:	2	\$							
Width:	480	÷							
Height:	270	-	1-4	1-3			14		
Lightboa	rd informa	ation			-	17			
Resolution	n: 960*540					Optio Export	ns Import	Read	Send
Scre	een pop-up								
						«Previo	ıs	Next》	

3) Receiver card configuration

- a. Import parameters of the receiver card: Click "Import light board parameters" to enter the receiving card parameter;
- b. Import Gamma parameters: Click "Gamma" to quickly import parameter information;
- c. Upgrade: If MCU/FPGA program of the receiver card needs upgrade, you can upload the upgrade file to do so.
- d. After the above information is configured, click "Complete" to end the dot-matrix display wizard, and go to the professional debugging interface.

		Max	Config		
Rec	eiveCard Info				
	PortIndex	ModuleIndex	HardWareVer	Software	
	Monitor	Upgrade	-	Refresh	
Oth	Monitor	Upgrade	-	Refresh	
Oth	Monitor er Setting ight-board Param Impor	Upgrade rt Gamma HDMI	•	Refresh	

6.2 HDMI Settings

Go to the "Screen" function module and click "HDMI Settings" to set the resolution of the LED screen, the output source, the split screen mode, and the zoom ratio, etc., and click "Send" to set after information maintenance.

Screen 1	SenderCard	ConnectionEdit	Correct	Gap	ColorControl	ParameterEngine	Monitor	Upgrade
Sel Drag Connect revoke	1	Resolution settings Enable Pixel Width * Height: DMI On-load Preset Resolution @ Cus Width: Height: Spill screen settings FullScreen Dual scree Screen 1:	tomize	Quardruple Screen C	× stomize •	Fit Screen Reset Clear Del	Common Setting Brightness = Contrast = Volumn: = Saturation = Temperature O Warm O N O RGB InputSource: O Android O HOMI2 O DP Resolution	ormal ○ Cool ○ HDMI1 ○ HDMI3 ○ PC
1-1	1	OutSource settings HDMI Out 1: HDMI 1 HDMI Out 2: HDMI 1 DP Out: HDMI 1 Refresh	Zoom: O 43	© 169 @ Full Screen	O Original		resolution Input Signal: Load Signal: PassiveScreenDispla BlackScreenO La Preview Other Setting	Y stFrame O PreStored Setting

a. Refresh Settings

Click "Refresh" to read back the LED screen resolution of the device, output source, split screen mode, and zoom ratio information;

b. Reset

Click "Reset" to reset HDMI information

c. Set EDID

Click "Set EDID" to set the default screen resolution to the first priority resolution of the EDID. If you need to make changes, check the desired modification information and edit it. After finishing, click "Set EDID" to distribute it

6.3 Screen Configuration

6.3.1 Connection Relationship Editing

The connection relationship editing allows the debugging, design, setting and other functions used by some professional and technical personnel. The use of these functions requires a certain operating technology, as well as the understanding of the product. Go to the function page of "Connection relationship editing" to edit the connection relationship.

Method 1: Import connection

Click "Import" in the right function area and select the connection relationship file to import to rapidly generate the connection relationship.

M	Max	xConfig		(8 - 1 🔁 🔍	o x
SenderCardList 😔 🤇	Screen SenderCard ConnectionEdit	Correct Gap Fit Screen	ColorControl Par Reset Clear Del	ameterEngine		Upgrade
Device Name: PCON600 Device Status: Online Device Type: PCON600 Link Info: 172.17.92.133 BackupType: DisConnect Device Name: pcon200pro Device Status: Online	1-1	1-2		Setting B; Row: Column: Width: Height: @ All O Curr Port	2 2 480 270 ent ○ Add Ba 82 2 3	Create
Device Type: PCON200 Pro Link Info: 192.168.0.108 BackupType: Connect						
Device Name: Android_LED Device Status: Online Device Type: PCON600 Link Info: T72.17.92.91 BackupType: Connect				Options 2 Export Read 3	Import Send	



Take the following 60 boxes of the H1918 product as an example. The operation steps are as follows:

1. [Connection Relationship Editing] Select the product type "H1918" of boxes in the function area on the right of the interface, so the box width and height information will be automatically displayed on the interface

2. To set 6 columns and 10 rows, select "All" and click "Create".

- To add the number of rows and columns, select "Add" and click "Create", where "X" and "Y" indicate the coordinates of the pixels to be added
- To change the size of a single box, select the box on the canvas, select "Current box" in the function area, and then click "Create" to modify



3. Select the output network port; (* Note: The number of network ports varies according to the actual controller)

4. Set the box wiring, click "Send" to set it;

M			MaxConfig					© 81	- ø ×
SenderCardList 😔 🤇									Jpgrade
the second se	Sel Drag Connect reve	Jke			Fit Screen Reset C	lear Del			
Device Name: PCON600			1 0			Setting B71			
Device Type: PCON600	1-1		1-2			Row:			\$
Link Info.: 172.17.92.133						Column: Widthy		2 80	-
BackupTypes						Height		30 70	\$
DisConnect				$\neg \neg$		● All ○ Current			
Device Name: pcon200pro Device Status: Online						Port			k up
Device Type: PCON200 Pro						1			4
Link Info.: 192.168.0.108 BackunTyne:						5			8
Connect						9			12
	1-4		1-3			13			16
Device Name: Android_LED						17			
Device Status: Online Device Type: PCON600						Options			
Link Info.: 172.17.92.91				$\mathbf{}$		Event			Liebt
BackupType:						Read	Send		ugin
Connect									
			ه هرها هر هر ا	والمتراكر المراجع					
Convert and a se									
GroupSetting	_			· · · ·					

- You can cancel a connecting wire by right clicking during the configuration
- Ctrl + scroll wheel to zoom in and out the work area
- Click "Select" to move the selected box. Double-click the box to view its basic information and modify it

	SenderCard	ConnectionEdit						ParameterEngine			Upgrade
Sel Drag Connect							Fit Screen Reset Cle	ar Del			
								Setting B71			
1-1			1.	-2				Row:			
								Column:			÷
								Width:		480	
		>						neignc. ● All ⊖ Current		Creat	•
								• Air o cuircit	C Add		
		Base Info						Port			
						2		1			
								5			
								9			
1-4								13			
1 1					480			17			
								Options			
								Export	Im	port	Light
								Read			

- "Drag and Drop" to move the entire screen of the work area. This is easy to view in case of more boxes
- "Connection relationship" allows to edit the box wiring
- "Fit the screen" is to display the entire wiring diagram on the work area

Method 3: One-tap to light up

At present, only H19 series products can automatically generate the connection relationship through "One-tap to light up" (* Note: The network cables on the field screen must be wired upwards, downwards, and to the right)

6.3.2 Import of Light Board Parameters

The operation steps are as follows:

1) Go to the function page of [Parameter Engine], click "Import Light Board Parameters" on the right function area, and select the 9K file of light board parameters to confirm the import;

- 2) Click "Send" to send the parameters to the device
- 3) Go back to the right function area and click "Save" to freeze the parameters.

Screen S	SenderCard						ParameterEngine			Upgrad	
3 After importir	ng the naran	neter file the in	terface verifies th	a naramen	entionformention						
The basic information							Register	Import light bo	ard paran	neters	
Lamp board W: 120		Driver chip:	CFD-435A Co	ded chip:	5957/5958decod	de		Read	4	Send	
Lamp board H: 135									5	Welding	1
Advanced parameters											
TXD frequency:											
TXD duty cycle:											
			GCLK duty cycle:								
TXD phase:											
Frequency setting:											
						¢					
Brightness efficiency:	76.80										
Visual refresh rate:	12300		Removal time:			•					
						¢					
Low ash compensation graysca		¢									
 Hyper bit 						¢					
			E Fachla é anna an anna								
Grayscale progression			Enable frequency spread	1							
Significant bit of grey number					60.00	\$					
Custom Other											
Advanced											
633 Day	amotor	Fynart									
0. 3.3 Fai	ameter	Export									

6.3.3 **Parameter Export**

The operation steps are as follows:

1) Go to the function page of [Parameter Engine], click "Read" to collect parameter information;

2) Click "Export" on the right function area, select the file saving path, and confirm the export.

Screen	SenderCard	ConnectionEdit	Correct	Gap	ColorControl	1 Para	meterEngine	Monitor	Upgrade
							Register		
			CFD-435A C		5957/5958decod		2 Re	ad	
							3 Ex		
Advanced parameters									
TXD frequency:									
						•			
	76.80		Line leed start time:			•			
Visual refresh rate:	12300	HZ(60HzVS)				¢			
		*				¢			
Low ash compensation grays	scale: 0	•							
Hyper bit						Ţ			
			Enable frequency spread						
					60.00	¢			

6.3.4 GAMMA Table Import

The operation steps are as follows:

- 1) Go to the function page of the [Color control], select "Gamma" in the right function area;
- 2) Open "Register operation" and check the "Receiver card" tab.
- 3) In the type of import/export operation, set the type to Gamma.
- 4) Click "Import" to select the bin file with Gamma table to import;
- 5) Click "Send" to send settings.

					Sap 1 Co	lorControl			
Node	R_Int	R_Dec	G_Int	G_Dec	B_Int	B_Dec			
								ColorGamut	
							3 Туре:	Gamma	
) HDR		🕥 Color De		•					
Min Gray Scale:		÷		Max 0	Sray Scale:	65535	•		
	Reset				Send				

6.4 Network Port Backup

When the communication between the primary and the backup network ports is abnormal under the applicable of primary and the backup network ports, the system will automatically switch to the backup network port to ensure normal screen display.

Mode 1: internal backup

The backup function is realized by different network ports on the same controller. The configuration modes are automatic backup and manual backup.

										×
CO Ba	ck up				٢	Internal		O B	etween	
Operation	Operation type:		0	Auto			0	Manual		
Port										
e	e	e	e	e	e	e	e	e	e	e
1	2	3	4	5	6	7	8	9//	10	11
e	e	e	e	e	e	ē				
12										
Master:										
Backup:										
	Rese	et			Delete				Save	

- Automatic backup. By default, the first half of the network ports are the primary ports while the last half are the backup ports
- For manual backup, you can drag the network port to customize the primary and standby network ports

Mode 2: network port backup

For network port backup among different controllers, set source and backup cards.



6.5 Parameter Configuration

Parameter configuration is only provided for professional and technical personnel for debugging. If necessary, please contact the professional staff for consultation.

You can debug professional parameters of the screen on the [Parameter Engine] interface. Before parameter configuration, you need to manually read back the parameters and modify them. It supports voltage adjustment of 3-in-1 card power supply, parameter settings of driver chips, independent adjustment of RGB current gain, Row Driver IC settings, FLASH settings, gray value fine processing, etc.

The operation steps are as follows:

1) Go to the function page of [Parameter Engine], click "Read" on the right function area to update interface parameters/Click "Read back" in the view area to update the parameters of the light board to 3K;

2) If parameters require adjustment during the maintenance, click "Setup" to send the parameters to the LED screen;

3) After confirming that the parameters are correct, click "Freeze" to save the parameters to the screen.

 For parameter import and export, please refer to 6.3.3 Parameter Import of Light Board &6.3.4 Parameter Export

* If you need to configure advanced parameters, turn on the "Specify Register" switch to edit the parameters of the receiver card register. At this time, the reading, sending, and export will be processed according to the parameters specified in the register editing box, such as the address, length, network port, and box (If the broadcast is enabled, it means that the global network port and box are operated).

Screen	SenderCard	ConnectionEdit	Correct	Gap	ColorContro	1 P	arameterEngine Monitor	Upgrade
								2 💽
					5957/5958dee	code		
							3. Click "Edit" to	edit the register
							parameters.	
							BroadCast	Edit
							Address(Hex): 0 Length(Dec):	1 🗘
	76.80		Line feed start time:				Port: Module:	
Visual refresh rate:	12300					¢	Import light b	oard parameters
						¢	Read	
		÷					Export	Welding
Hyper bit						¢	4. Read, export,	
			Enable frequency spread					
					60.00	¢		

6.6 Gamma Adjustment

Gamma adjustment is only provided for professional and technical personnel for debugging. If necessary, please contact the professional staff for consultation.

You can modify a level of Gamma separately on the "Gamma" page of the "Color Control" interface. The operations steps are as follows:

- Go to the function page of the [Color control], select "Gamma" in the right function area;
- Double-click the parameter to be modified and modify it. After the modification, click "Send" to send it to the screen;

 If data needs export, select "Gamma" in the type of import/export operation and click "Export".

1							
			iap 1 Co	lorControl			
Node	R_Dec	G_Dec		B_Dec			
					Select		
						ColorGamut	
					3 Туре: С	Gamma	
					4 Impo	rt	
Ontioanr							
D HDR	🔵 Color D						
				65535			

6.7 Set Passive Screen

Set the display screen in case of no video source signal.

Supported Product Series: CQ30 series

Operation mode: Configure "Display Settings of Passive Screen" in the function area on the right of the [Screen] interface, supporting black/last frame/stored screen of the display screen while configuring the passive mode.



Settings of the stored screen: Select "Stored screen", upload the local picture, set the screen effect to take effect in the full screen/single box, set Stretch/Tile/Center to fit the screen, and set starting coordinates and other information, click "Preview" to view the screen effect on the screen, and click "Set" to save the stored screen to the device after confirmation.



7 Adjustment of Brightness and Color Temperature

By adjusting the key factors of the screen, such as screen calibration, color gamut conversion, brightness, color temperature, saturation, etc., the screen display can be better. The adjustment parameters of this interface are only provided for professional and technical personnel for debugging. If necessary, please contact the professional staff for consultation.

7.1 Screen Correction

By setting reasonable screen correction data, users' visual experience is improved when watching the screen.

Please check the Correction Guide before correct, and call out the Guide in the Help Center at the lower right of the interface to check the Correction Guide later. Please turn on the Bypass switch and correct switch, and confirm the accurate connection relationship before operation.



7.1.1 Single Box Correct

- Applicable Scenarios: ① Replacement of spare boxes and resending of correct data; ② Re-import is required in case of correct data loss; ③ Replacement of the correct data of existing boxes.
- Operation steps:
 - 1) Enable "Bypass" and the "Correct" on the [Correct] interface.



2) Select a "Box" mode in the [Correct] view area, and set the "Sending mode";

3) By selecting the corresponding box in the view area, right-click to call out the quick operation of a single box;

4) Click "Load correct data" to import the correct data of a local box to the selected box;

5) Enable the "Screen" function, set the "Start coordinate" and the background image to the screen via the software;



- 6) Click "Send" to send correct data to the box;
- 7) Click "Save" to keep the correct data to the device;
- 8) Click "Export" to select a path saving the correct file



Additional description for other functions of single box operation:

- Delete correct data: Delete correct data imported to the box
- Send correct data: Send the correct data of the current box to the screen

• Erase correct data: Restore the correct data corresponding to the screen to the default value

• Reload correct data: Restore the correct data of the corresponding box to the last saved state

7.1.2 Single Light Board Correct

• Applicable Scenarios: ① Replacement of spare boxes and resending of correct data; ②

Re-import is required in case of correct data loss; ③ Replacement of the correct data of existing light boards.

- Operation steps:
 - 1) Enable "Bypass" and the "Correct" on the [Correct] interface.

2) Select a "Box" mode in the [Correct] view area, and set the "Start coordinate" and "Sending mode";

3) By selecting the corresponding light board in the view area, right-click to call out the quick operation of a single light board;

- 4) Click "Load correctdata" to import the correct file of the box/light board;
 - If a box file is imported, you need to select the corresponding light board position before importing;



• If a light board file is imported, you need to import normally;

5) Click "Send" to send correct data to the box;

6) Enable the "Screen" function to set the background image to the screen via the software; The correct coefficient can be adjusted for the selected light board under the light board mode;

Switch			
O Correct		ByPass	
CO Screen			
Start Pos X:	0 🗘	Y: 0	\$
Coefficient Adjust	•	🗖 sen	ior
↓†↓ RR - +	1.0000	🗘 🗖 Fin	ely
		Adju	st
Normal Step:	1.00% -	0.0100	1941
Finely Step:	0.01%	0.0001	
Send type▼			
◀ ○ 4P ○ 10P	○ 6P	● 8P	
Correct Deal▼			
Import	Export	Send	
Erase	Reload	Save	

7) After confirmation, click "Save" to keep the correct data to the device;

8) Click "Export" to select a path saving the correct file.

* Other functions in single light board operation are similar to those in single box operation.

7.1.3 Multiple Boxes/Light Boards Correct

The operation steps are as follows,

- 1) Enable "Bypass" and the "Correct" on the [Correct] interface;
- 2) Set the "Sending mode" and "Start coordinate";
- 3) Click "Import" in the function area to import a folder containing the correct data of multiple boxes; (Note: the box correct file is identified here)

4) Click "Send" to send correct data to the box; The correct coefficient can be adjusted for the selected light board under the light board mode;

5) Click "Save" to keep the correct data to the device.

ConnectionEdit	Correct	Gap	ColorControl	ParameterEng	ine Monito	or	Upgrade
			# 1 Đ Q		Switch Correct Screen	••	ByPass
01	04	07			Start Pos X: Send type▼ ◀ ○ 4P ○ 10P Correct Deal▼ Import	0 ¢ ○ 6P Export	Y: 0 \$
02	05	08			Erase	Reload	Save
03	06	09					

* Note: The options in the right function area are all valid for the full-screen



Additional description for full-screen operation:

Sending Modes: Supports 4P/6P/8P/10P/Low Gray sending modes
 4P: Medium gray correction;

6P & 8P: High gray correction;

10P: C27 series high-precision chromaticity correction.

- Sending modes: Supporting 4P/6P/8P/10P/ low gray level and other sending modes
- Start coordinate setting: Enter positions of the start coordinate of the screen to identify the start position for correct

- Send correct data: Send the correct data to the screen
- Save correct data: Save the full-screen correct data
- Erase correct data: Restore the full-screen correct data to the default value
- Reload correct data: Restore the full-screen correct data to the last saved state

7.2 Joint Correction

In the splicing process of the LED screen, the installation tightness between two adjacent boxes/light boards is different, which may cause dark and bright lines at the joint. Joint repair function is for dark/light joints, with introduced joint repair function to control light and dark balance, and even the visual effect. According to different product designs, after going to the [Joint Repair] function, the software identifies the joint repair mode based on the parameter information of the connected device, so that the user can operate according to the guidance note of the system.

7.2.1 Quick Joint Repair

Supporting box/light board adjustment. The operation steps are as follows:

1) Enable "Bypass" on the [Sending card] interface, and enable "Joint repair" on the [Repair] interface with the normal display settings.

		Maxconing				2		
SenderCard	ConnectionEdit C	Correct Ga	p Colord	Control Param	eterEngine	Monitor	Vp	ograde
				<mark>@</mark> Q	u C #	Start Pos X: 0 Display Settin Send Type	¢ ngs Gap ⊛ 8P ○ 10P	Y: 0 number 0 0
	Gap instructions 🗐 if there are still	I problems below,please replace the				Coefficient A		extremity (
	Controllable setting of IPC X is the bypass switch on? turn on X is the bitrGap switch on? turn on	 Monitor settings Ensure that the resolutio output source, the input so card and the output source and are consistent: Ensure that the refresh connected to the sending is The dipply connected by 	on of the computer ource of the sending ce of the sending rate of the display card is 60p or 30p to the sending card ge input range display should be 8				Fast © Co Averag	mmon O High- ie + kevert
	Ĺ							Send Solid
						import	Export	?

- 2) The software automatically reads the connection relationship of the current box;
- 3) Select to display the screen topology based on the Box/Light board in the canvas function area. By default, it is displayed based on the box. (* Note: If the light board parameters are not read, it is not available to enter the light board mode)



Select the joint repair mode. Supporting row/column/only select a row/only select a column;



5) Select the joint to be adjusted in the view area to adjust parameters.

Parameter adjustment supports ordinary mode/endpoint mode, and endpoint mode supports adjustment of coefficient accuracy: low precision/ordinary precision/high precision. When the device is connected, the repair coefficient is sent in real time.

6) After adjustment, click "Freeze " to keep parameters to the device.

The following is additional description of supported shortcut key operation and other functions in the "joint repair":

• Supported shortedt key operation	
Shortcut Keys	Effect
Ctrl + A	Select all joints
Ctrl + mouse scroll wheel	Canvas zooms in/out
Mouse [scroll wheel + right button]	Enable or disable full-screen adjustment of any position
Hold down alt+ left mouse button	Drag the view

Supported shortcut key operation

- Additional description for other functions
 - Import: Quickly import the joint repair file
 - Export: Export the joint repair file
 - Freeze: Freeze the joint repair coefficient to the screen
 - Reset the joint repair coefficient: Reset the joint repair coefficient to 1.0

• Restore the joint repair coefficient: Restores the joint repair coefficient to the last saved

7.2.2 Calibration Data for Joint Repair

	MaxConfig			(d) 😫 🗠	- 07 ×
		Gap	ParameterEngine	Monitor Up	grade
Tip Need	to import a full screen correction fi performing sewing operations Cancel OK			Start Pos X: 0 Corp Display Settings Corp Send Type I O 6P 8P O 10P Coefficient Adjustment Form: O Fast © Co Average Reset R Import Export 9	Y: 0 number 52 C Low Gray O extremity mmon O High- wert Solidi
					?

In this mode, the device needs to import the calibration file of the full screen for operation. The operations are as follows:

1) Enable "Bypass" on the [Sending card] interface, and enable "Joint Repair" on the [Repair] interface with the normal display settings.

2) According to the prompts, select to import the calibration folder of the full screen/import calibration file of the full screen on the [Calibration] page;

3) The software automatically reads the connection relationship of the current box;

4) Select to display the screen topology based on the Box/Light board in the canvas function area. By default, it is displayed based on the box. (* Note: If the light board parameters are not read, it is not available to enter the light board mode)

5) Select the joint repair mode. Supporting row/column/only select a row/only select a column;

6) Select the joint to be adjusted in the view area to adjust parameters.

Parameter adjustment supports ordinary mode/endpoint mode, and endpoint mode supports adjustment of coefficient accuracy: low precision/ordinary precision/high precision. After parameter adjustment is completed, click to "Send" parameter to the screen to view the effect.

For other operations such as import, export, freeze, reset, and restoring the repair coefficient, please refer to <u>7.2.1 Quick Joint Repair</u>.

			MaxConfig					@ 8) – a ×
Screen Se	nderCard (ConnectionEdit		G	iap	ColorControl	ParameterEngine	Monitor	Upgrade
								Start Pos X: 0 ↓ Display Settings Send Type ✓ ○ 6P ⊕ 8P C Coefficient Adjustme Form: ○ Fast Reset Import Export	Y: 0 ap number 52 D 10P O Low Gray 0 ent extremity 0 © Common O High verage Revert t Send Solidi
									?

7.3 Multiple Brightness Adjustment

It is effective to eliminate uneven brightness by dividing the light board into multiple batches and separately adjusting the brightness for each batch. Therefore, the brightness stability of the entire screen can be maintained to improve the viewing experience.

Supported Product Series: CQ30 series

Operation mode: Go to "Multi-adjustment" settings on the right function area of the "Calibration" interface.

* If the adjustable upper limit of the box is displayed during operation, please switch the physical positions of the light board to be adjusted with that of the adjusted one, and select the switched light board on the software interface for setting.



Screen Ser	nderCard Conne	ctionEdit Co	orrect	Gap Co	lorControl Parame	eterEngine	Monitor	Upgrade
	01	05	09	13	• ■ • c	9 🔟 🕻	Start Pos X: 0 ♦ Coefficient Adjustment MultiBatchAdjustment @ Red O Gree	Correct ● Y: 0 ≑ ③ Scre- ● n O Blue
	02	06	10	14			R_G R_B Send Type	32767
	03	07	11	15				
	04	08	12	16				
								?

7.4 Color Gamut Conversion

In order to meet the different needs of different people for color, the "color gamut conversion" function is introduced, which can adjust the color gamut of the LED screen. The adjustment parameters of this interface are only provided for professional and technical personnel for debugging. If necessary, please contact the professional staff for consultation.

- Go to the function page of "Color control", select "Color gamut conversion" in the right function area;
- Select "Color gamut conversion" in the type of import/export operation, and click "Import" to quickly import the original value file of the existing LED screen; Or collect the original value of the LED screen on the site and enter it in the corresponding area.
- In the target value area, check "Color gamut on" and click "Color gamut conversion" to complete the setting;
- 4) If exporting is required, click "Export" and select a path saving the file.

Production Production <th>s</th> <th>creen</th> <th>Se</th> <th>enderCard</th> <th>Connect</th> <th>ionEdit C</th> <th>Correct</th> <th>Gap</th> <th>ColorControl</th> <th>ParameterEngine</th> <th>Monitor</th> <th>Upgrade</th>	s	creen	Se	enderCard	Connect	ionEdit C	Correct	Gap	ColorControl	ParameterEngine	Monitor	Upgrade
Red Green Bue White Normal Original value (please use colorimeter to messure) Bightness (x Cy Red 900 0.689 0.310 Green 1800 0.199 0.760 Bile 300 0.150 0.050 State of the second se				6. 0. 0. 0. 0. 0. 0. 0.			06142 6350 06 0.7 0.5 0.3 x			Select 2 (Import/Export Oper Type: C 4 Import	ColorGamut Gamma atlon olorGamut t	- Export
Original value (please use colorimeter to measure) Brightness Cx Cy Red 90.0 0.580 0.310 Green 10.0 0.590 0.590 Blue 30.0 0.150 0.050 Target value Cx Cy Red 0.670 0.330 Green 0.210 0.710 Bue 0.140 0.2710 Bue 0.140 0.000 Green 0.210 0.070	5											
Common Control Control Target Value PAL REC.709 DCI+P3 Custom Cx Cy State	Origina Red Green Blue	value (please Brightness 900 1800 300	use colorir Cx 0.680 0.190 0.150	meter to measure) Cy 0.310 0.740 0.050								
PAL REC709 DCi-P3 Custom Cx Cy Co	6 Target v											
	Red Green Blue	NTSC1953				REC.709	6 8	Cy 0.330 0.710 0.080 ColorGamut				

7.5 Advanced Color Settings

Improve the visual quality and views of the screen by setting advanced colors.

Supported Product Series: CQ30 series

1) Adjustment of RGB components

Improve the visual quality of the screen by adjusting R, G and B components.

2) Background color setting

Improve the visual quality and views of the input source with poor effect on the screen by presetting the background color of the screen.

3) Gray scale mode

The user can set different gray scale modes according to different application scenarios to achieve different representation.

		Sender		ConnectionEdit			ColorControl	Para	meterEngine		Upgrade
			Y - e0 - 8.0		Write Black Circle	: primary : target : valid			Select	ColorG Gam	amut na
			0.7 0.6 0.5	3 Courte prio RGB Component Adjus	tment	× 128 🗘			2 Import/Export Type:	Advance Operation ColorGamut	dColor
			0.4	G B Background Color Settin	ng	128 ÷ 128 ÷					
			Green	Grayscale Mode Ontrast Priority		cale Priority					
	value (please Brightness 900 1800 300	use colorimeter Cx Cy 0.680 0.3 0.190 0.7 0.150 0.0			Refresh						
Target v	alue NTSC 1953		PAL Cx 0.670			DCI-P3 Cy 0.330					

7.6 Brightness Strategies

The brightness policy can be configured in two modes: automatic brightness adjustment and periodic brightness adjustment

Function entry: [Screen - Brightness Policy]

* If the "Brightness Policy" entry is not displayed, the current device version does not support the configuration

SenderCardList	⇔ <	Screen]	SenderCard	Con	nectionEdit	Cor	rect	Gap	ColorControl	ParameterEngine	Monitor	Upgrade
Device N second_plus		1663 16		16(0.9		195-15							
Device S Online Device T Integrated m	achine		- •	• • •		•					Brightness:		
Link Info 192.168.0.124			1		Ļ		1				Contrast:		50 ♀ 63 ≐ 10
BackupT SingleSystem		1952 19		168-8	140-11	141-14	196-17						
DisConnect													
			1 I		1		1					Normal	
					No. of Concession, Name		100.10						
				Ť			_						
											O HDMI1	O HD	MI2
											O PC	• An	rola
											PassiveScreenDis	lay O	
											Coor	x: 0 €	v: 0
													Brinhtnau Stratery
GroupSettin													

7.6.1 Automatic Brightness Policy

By collecting the ambient brightness, automatically adjust the brightness of the LED screen in real-time.

- 1. New Policy
- 1) Click "New PolicyAdd New Strategy";



2) Select the probe type according to the actual circumstances, and set the automatic effective period and variation range of the brightness, as well as ambient brightness limit;

* For different brightness policies in different periods, click "+ Add" to add a new policy.

Sensor type: QS Auto-brightness Time Screen Brightness Limit Enviro			Advanced
Auto-brightness Time Screen Brightness Limit Enviro			Auvanceu
	ironment Brightn	ness Limit	Implement
VIInimum: 0.00 VIIni	nimum: 0	‡ Lux	. TA SPAR
Maximum: 0.00 🗘 % Max	aximum: 0	🗘 Lux	+ Adu
			- Delete

3) Supporting to configure the range of variation of brightness and time, and other information in the "Advanced Settings". For possible non-preset ambient brightness factors in the set period, you can control the screen brightness by configuring the default brightness value.

* As shown in the following figure: The brightness will change at a rate of 10% per second. If not within the automatic time range for brightness adjustment, the screen will maintain 50% brightness



4) After setting the brightness policy, click "Execute" to send the policy to the screen;

* For multiple policies with different advanced configuration items, maintain the same advanced configuration policy each time. Click "Execute" and maintain other policies in sequence.

2. Modify a policy

After the device is connected, go to the "Brightness Policy" function, click "Edit Mode", check the policy to be modified, and click "Modify a Policy". After the selected policy information is displayed, modify the policy according to the actual situation, and click "OK" to execute the modification.

Auto-brightness Time	Screen Bright	ness Lim		Environment Brightness Limit				
	Minimum:	0.00	\$		Minimum:		\$	Lux
	Maximum:	0.00	\$		Maximum:		\$	Lux

3. Delete a policy

After the device is connected, go to the "Brightness Policy" function, click "Delete Mode", check the policy to be deleted, click "Delete a Policy", and refresh the policy list after deleted.

7.6.2 Scheduled Brightness Policy

Applicable to adjustment of screen brightness according to the specified period in case of no external optical sensor probe/external probe damage. Its difference with automatic brightness adjustment is that the impact of ambient brightness is ignored.

- 1. New Policy
- 1) Click "New Policy";

2) Select the probe type according to the actual circumstances, and set the automatic effective period and variation range of the brightness, as well as ambient brightness limit, which can be written without restrictions;

3) Go to "Advanced Settings" to maintain the default brightness value, which is used to set the brightness value taken effect in the current time range. After confirmation, click "Execute" to deliver the policy to the device. (* The range of variation of brightness and time is invalid setting) Repeat steps 2 and 3 to maintain the default brightness values for other periods.

1	Maximum number of policy setting it If the default brightness is inconsister	ems: 30 There a It for different t	re currer ime perio	itly 1 ods, p	in tota please	il set them separate	ely.			- 2	×
1	Sensor type: QS								•	Advance	
	Auto-brightness Time	Screen Bright	ness Lim	it	04	Environment E	Brightn	ess Lim	nit Luv	3 Impleme	nt
		Maximum:	0.00	•	70 %	Maximum:		¢	Lux Lux	+ Add	
ļ						<u> </u>				- Delete	
	Repeat 123										

- 1. Modify a policy
- 2. Modify a policy

Refer to the "Modify a policy" mode in 7.4.1 Automatic Brightness Policy

3. Delete a policy

Refer to the "Delete a policy" mode in 7.4.1 Automatic Brightness Policy

7.7 Group Control Settings

Group control supports to add the same type of controller in the same LAN to a group to achieve synchronous adjustment of brightness, contrast, and color temperature, as well as to delete the group and change the group name.

							>
D 🖾 Pres				0	Group control set	ting	
name	IP adress	Dvice status	Inline status		Brightness:		\$
					Contrast:		\$
					Temperature:		

7.8 Screen Quick Control

Go to the function page of the [Sending card] to automatically read the switch status of the LED screen. Here, quickly control of the switch and testing screen of the LED screen are provided.



7.8.1 Testing Mode of Sending Card

The testing mode provide testing screens of red, green, blue, white, 255 gray scale, cross, vertical, incline lines, box positioning, light board positioning, etc.; The screen of other testing modes is output to the screen by the sending card.

7.8.2 Sending Card Switch

The "Switch" can quickly control the LED screen accordingly. Go to the [Sending card] interface to automatically read its current switching status. The switch includes: Bypass, 3.0 system, black screen, lock screen, repair, calibration, low delay, and 10Bit source. Users can quickly set switch (* Note: authorization status is only displayed in the second-generation system).

8 Firmware Upgrade

8.1 Program Upgrade of LED Screen

This can meet the firmware package upgrade of MCU, FPGA, and HDMI decoding chip of the controller and box. The operation steps are as follows:

- 1) Go to the [Upgrade] function page and select the "File type" to be upgraded.
- 2) Click "File" to select the program file to be upgraded. If the program file is incorrectly selected, click "Empty" and add it again;
- 3) Click "Upgrade" and wait for the upgrade to complete.
- * Note: Upgrade with a U disk for the Android system

	SenderCard	ConnectionE	dit Corr	ect			Para	imeterEngine		1 Upgrade
System Version MCU: Android: SenderCard FPGA: HDMI:			led_PCO 2022-8-2		230612.162308_162159			Upgrade Type: 2 FilePath: Clear 3	SenderCard-MCU File 0%	▼ 4 Upgrade
ReceiveCardNUm										
PortIndex	ModuleIndex	HardWareVer	Software			PackageLoseRate				

9 Screen Monitoring

Provide information monitoring such as program version, box temperature, three-in-one board voltage, bit error rate and so on of the LED screen.

9.1 Box Monitoring

Go to the [Monitoring] interface, click "Refresh" to obtain the box temperature and voltage information of the LED screen.



9.2 View Version Information of LED Screen

Go to the [Monitoring] interface, click "Refresh" to view the program version and bit error rate of the controller and box.

Screen	SenderCard	ConnectionE	dit Corr	ect	Gap	ColorControl	Parar	neterEngine	Monitor	Upgrade	
								Upgrade Type: FilePath:			
ReceiveCardNUm											
PortIndex	ModuleIndex	HardWareVer	Software	MCUVer	ProtocolVer	PackageLoseRate					

* Note: Click "Bit error rate" in the list for fast zero clearing.

10 Software Settings

General settings of the software system include its language switching, viewing instructions, information about software, and check updates.

			0	81-	5	×
ParameterEngi	English (l	United States)	4	Language		
	Chinese (简体中文)		Manual		
Upgrade	Chinese (繁体中文)		About Max	Config	
Type: FilePath:		SenderCard-M	¢	Check For l	Jpdates	
(lear	File		Upg	rade	
		0%				

10.1Language Settings

Entry: Go to [Help - Language] from the main menu.

Supported languages: Simplified Chinese, Traditional Chinese, and English

After the software installation, the corresponding language is automatically selected based on the operating system language. The user can also click to change the language as required. After confirming information, restart the software to take effect.



10.2View Instruction for Use

Entry: Go to [Help - Instruction for Use] from the main menu.

The software instruction document is automatically opened, and the user can check it according to the required location.

10.3About Software

Entry: Go to [Help - about MaxConfig] from the main menu. Enter to check software information.

10.4Check Update

Entry: Go to [Help - Check update] from the main menu.

The software automatically detects whether the current version is the latest. If not, you can download to update.



11 FAQ

11.1 Fail to install software

If a prompt is displayed indicating that the installation fails, try to follow the steps below:

- 1) Select the installation package, right-click to select "Properties";
- 2) Check "Lift restrictions" and click OK before trying to install.

11.2 Software cannot detect the controller

11.2.1 Serial port connection modes

8

Go to the computer device management to check whether the serial port information is identified;

- If not identified, try to update the drive;
- If the driver is correctly installed, replace the serial cable and try again;

If detection is still unavailable after trying the above methods, please contact after-sales

services

	Dev	vice	• Manager — 🗆	×
ile	1	Acti	ion <u>V</u> iew <u>H</u> elp	
	•			
1	4	WI	IN-20200618QCI	^
	>	4	Audio inputs and outputs	
	>	-	Computer	
	>	-	Disk drives	
	>		Display adapters	
	>		Firmware	
	>	AN	Human Interface Devices	
	>	-	IDE ATA/ATAPI controllers	
	>		Keyboards	
	>		Mice and other pointing devices	
	>		Monitors	
	>	÷	Network adapters	
	>	•0	Other devices	
	~	Ŵ	Ports (COM & LPT)	
			Silicon Labs CP210x USB to UART Bridge (COM3)	
			Gommunication Port(COM1)	
	>] Print queues	
	>		1 Printers	
	>		Processors	
	1	-		

11.2.2 Hotspot Connection Mode

If Android hotspot cannot be found on the PC, it is required to check whether Android hotspot is switched on.

Step: More - Settings - Network and Internet - Wireless Hotspot

0	Settings		Code: A C 2 N 2 Q
_		< Back	
•			
\$			
ņ	Display	SSID LED AD-2750-2.49, LED-NO-2750-59	LED-AIO-2750
8		Enter password Enter a kass 8 digits password	
88	Sound Apps and notifications		
¢			
¢			
₩			
6			

11.2.3 Direct Connection Mode of Network Cables

Check the network connection between the Android device and the PC, and ensure that the two devices use the same approach to obtain the IP address

- Check location of Android
- Step: More Settings Network and Internet Wired Network
- Check location of PC

Step: Open Network and Sharing Center - Status - Change Adapter Options - Double-click Ethernet - Properties - Double-click TCP/IPv4

Obtain an IP address autom	atically
IP address:	192.160.1.101
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 1
Obtain DNS server address	automatically
Use the following DNS serve	r addresses:
Preferred DNS server:	
Alternative DNS server:	

11.3 How to set parameters after a 3-in-1 card is replaced

After the 3-in-1 card is replaced, you only need to send the connection diagram again, and the correction data and parameters will be automatically read back and sent. Operation steps: Click "Read" - "Send" on the interface of [Connection Relationship Edit].

11.4 How to set parameters after a light board is replaced

After the light board is replaced, no operation is required. The calibration data and parameters are automatically read back and sent.

11.5 Abnormal resolution of LED screen

Refer to Section 6.2 to set the HDMI resolution