



File	Operation Manual of the HD2014 LED Control System
Version	English
Page	1-35

HD2014 Operation Manual





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Appendix 1 Types of Control Card

Appendix 1.1 Types of control card

		Single color: 1024*32	2 of HUB12
Serial port	110-33	Dual color : 512*32 1024*16	1 of HUB08
Controller		Single color: 768*64 1024*48 1536*32	4 of HUB12
	11D-1415	Dual color : 384*64 512*48 768*32 1536*16	2 of HUB08
		Single color: 768*32 1024*16	2 of HUB12
	110-A40	Dual color : 384*32 768*16	1 of HUB08
		Single color: 512*64 1024*32 1536*16	
USB port	HD-Q40	Dual cdor : 256*64 512*32 768*16	
Controller		Tri color : 128*64 256*32	2 01 HUB08
		Single color: 640*128 1280*64 2048*32	8 of HUB12
	HD-U40	Dual cdor : 320*128 640*64 1280*32	
		Tri color : 416*64 832*32	
		Single color:1024*32	2 of HUB12
	110-741	Dual color : 512*32 1024*16	1 of HUB08
USDTSella		Single color:768*64 1024*48 1536*32	
ροπ	HD-Q41	Dual color : 384*64 512*48 768*32	4 of HUB12
Controller		Tri color : 512*32 512*16	2 of HUB08
	HD-U41	Single color:1280*128 1696*96 2048*64	8 of HUB12





		Dual cdor : 640*128 848*96 1280*64	4 of HUB08
		Tri color : 800*64 1600*32	
		Single color:640*256 1280*128	
	HD-X40	Dual cdor : 320*256 640*128	1 of 50PIN
		Tri color : 416*128 832*64	
		Single color:1024*256 2048*128	
	HD-X41	Dual cdor : 512*256 1024*128	1 of 50PIN
		Tri color : 672*128 1344*64	
		Single color:1024*512 2048*256 4096*128	
	HD-G3	Dual color : 512*512 1024*256 2048*128	2 of 50PIN
		Tri color : 680*256 1360*128	
		Single color:2048*64 2048*32	4 of HUB12
	HD-E40	Dual color : 1024*64 640*32	2 of HUB08
		Tri color : 1360*32	2 01 110 000
		Single color:2048*128 2048*64	8 of HUB12
USB+Ethemet	HD-E41	Dual cdor : 1024*128	4 of HUB08
port		Tri color : 1360*64	4 01 110 000
Controller		Single color:1024*256 3072*128	
	HD-E42	Dual cdor : 512*256 1536*128	1 of 50PIN
		Tri color : 672*128	
	HD-F43	Single color:1024*512 2048*256 4096*128	2 of 50PIN
		Dual cdor : 512*512	2 01 001 114





		Tri color : 672*256 1344*128	
		Single color:2048*512 4096*256 8192*128	
	HD-E53	Dual color: 1024*512 4096*128 8192*64	2 of 50PIN
		Tri color : 1344*256 2720*128	
		Single color: 640*64 832*48 1280*32	4 of HUB12
	HD-W40	Dual color : 320*64 416*48 640*32	
WIFI		Tri color : 416*64 848*32	2 01 HUB08
Controller		Single color:416*256 832*128 2048 *48	
	HD-W42	Dual cdor : 208*256 128*416 832*64	1 of 50PIN
		Tri color : 272*128 544*64	

HD2014 add new functions:

- 1.The controller recognized serial port automatically
- 2. Support animation font, hollow font, describe font border(stroke)
- 3.District boarder and background
- 4.Time,Clock,Count,Temperature font of free size
- 5. Add Time zone, show different country time
- 6. Abundant Clock functions and back ground
- 7. Add Remote control funtions of the controller
- 8.The controller itself have single dual color and tricolor firmware
- 9. Add larger Ethernet port controller and WIFi Controller and USB port

Chapter 1 Overview

1.1 Features

"HD2014" Control System is a larger adjustment made by Huidu Comp any to strip screen market in 2014. For the convenience of customers' c hoices, some of the repetitive controllers are integrated, and the control r anges are updated more flexibly besides, prices are more reasonable. S o it is enough to meet the trend of higher and longer strip screen.





The overall software interface is simple, powerful, easy to learn and use. it Support Single color and dual color led modules, also full color mo

dules (showing 7 color effects)

Support functions as single-line text, multi-line text, Excel.hypertext (JPG /JPEG/BMP/GIF/PNG etc.),swf, time、clock、count (count down / count up), temperature, temperature and humidity, animated characters,Excel.

1.2 Operating environment

HD2014 software support all language showing Operating system: Chinese/English (multi-lingual) Windows2000/XP/Win7/Vista/WIN8, etc.; Hardware configuration: no special requirements.

Chapter 2 Installation and Uninstallation

2.1 Installation

Software Name HD 2014 (HD 2014_V1.01.891.zip). Double click the software and install as below steps:

100	Select the language to use during the
1.10	installation:
	[main and a second seco
	English







Click the prompt (Next) on the screen to complete the installation. After the "HD2014" software is successfully installed, the "HD2014" pro gram group will be shown in the [Start] / [Programs], then click "HD201 4" to run it, you can also click the HD2014.exe shortcut on the desktop to enter the operating interface.

2.2 Uninstallation

"HD2014" software package provides a complete uninstallation function, so that users can easily delete all documents, program groups and shor tcuts in the "HD2014". Users can select "Uninstall HD2014" in the [Start] / [Programs] / HD2014 program groups to completely remove HD2014 a nd all of its components.







Chapter 3 Tools Help

3.1 The main interface of software

Open the main interface of the "HD2014" software, see below:

HID2014 Title Bar	Menu Bar
Frogree Frogree Screen-1: 1280 X 320 Single Color	(darieter and a strat free to bak g freese 1001Dal
Screen-1	Ana log Screen
Program Area	Preview W in dow
	6/P (1)
Soree n Parameters	function navigator
Wd#:1280	Serven Settings Commission Se. Clear digts Time Switch
Height: 320 Color: Single Color	Time Setting Lominuace Setting Time Seitch
Communication mode: COM Port J. Bisk	Serven test OpenServen ClassServen
Comm un icat ion	settings port, double-click it to open t
he communicat	tion settings.

3.2 Title bar

It is used to display the name of the software.

3.3 Menu bar

It includes these options: File, Settings, Operation, Tools, View,, Langu age and Help.

3.3.1 File menu

The file menu consists of five options: New Screen, Open, Save, Save As, Exit, as follows:







New Screen (Ctrl + N): It is used to create a new screen, HD2014 soft ware could set up more screens and do not permit the quantity. **Example:** You can set up as examples.

Open (Ctrl + O): It is used to open the recently used documents;

Save (Ctrl + S): It is used to save the current file and save it in the Pr oject file under the installation path by default;

Save As ...: The current file can be saved in another specified position; **Exit (E)**: Close HD2014.

3.3.2 Settings menu

This menu includes Screen Settings, Communication Settings, System Settings, Readback, local IP Settings, as follows:



Screen Settings: It used to set the basic parameters of the control card and Select the led control card types, Date and OE Polarity, Scan, Wi dth and Height of led display, importing and exporting parameters, Adva nced setting etc) see below photo:





lodule					
Default	Gen4	HD-U41	Market Gen3	HD-S3	×
Maximum ran	ge:Single Color->1	28*1280px Dual C	olor->128*640px		
Maximum reg	ion:8				
Maximum wid	th:2048 Maximum I	neight:128			
Communicatio	in Mode:COM Port	U Disk			
1.260					
	Carrier Carrier				
		0000000			
	It was not a second				

Note: If user do not know the led control card types, just select HD-E43 it is ok(our software default types HD-E43, do not need select types) First, select the module type, which one you used ;

The second step, the basic settings, select the parameters for the LED screen, color screen, data polarity, OE polarity, screen size, scan mode;

Iodule Selection Basic Settings		Help
Unit board	Color	
Width Height 128 X 32	Send parameters	1234



OF-Y	CHANG
	HOM
	STAR
w.Iracke	r-softwate.0

dule Selection Basic Seconds		
Basic Settings	Color	
64 X 32 -	Single Color	
Width Height		
128 🗘 X 32 🗘	Send parameters	
	OE Polarity	Data Polarity
[A1]Scan(1/16) General interior 5 👻	Low Enable	Low Enable 🛛 👻
EAT Mode [A1]Scan(1/16) General interior s •	Low Enable	Low Enable
Scan Mode [A1]Scan(1/16) General interior s • Automatically search the scan mode Additional se	Low Enable	Low Enable

Communication Settings: he below used Serial port of RS232 communication . The communication distance it is 70meters.

After connected the serial lines ,the software itself recognized the port a utomatically, no need by hand

ial Port Settings 🛛	thernet		
COM	(COM5 -	Search	
Baudrat	115200		
Alter Baudr	Settings	115200 -	

:





System Settings: They are used to set the system parameters (not recommended to change).

System Settings					×		
Text Processing							
Scan	30	•	Filter Color	Black	-		
Picture Processi	ng						
Scan	127	•	Filter Color	Black	-		
Adsorb					Whe	In the blue and o	ar ee n
Adsorb	5	•	Exchange	blue and gree	is co e th	ontrary, you can o is to change	c ho os
Other Settings							
Text Direction	Unspecifie	ed 👻	🔽 Open the /	Ad			_
Password S	Settings		🔽 Auto adjus	st time	When co	mmunication is g	go f
Enable the pa	assword au	ithentica	tion for importa	nt settin	or five m	inutes	
			ОК	Ca	incel		

Readback: If you need to alter the parameters to those of the control c ard, these parameters can be directly read back, so convenient and dire





ct.

Local IP Settings: Users can alter the system's local IP.

3.3.3 Operation menu

It contains Send Project, Multiple Send, Clear display data, Export to U disk, IP Management tools, Time Setting, Luminance Setting, Time Swi tch, Screen Test, Firmware Update, See below:



Multiple Send: It's for network card's exclusive use, and used for sendin g multiple screen files. X Firstly, set the parameters of each screen to c ustom IP, then associate with the corresponding screen. Please refer to t he operation of IP management tools:

After finishing the association, users can send the content of multiple screens to control card through multiple send, see below:

Multi-screen mode: communication must use a custom setting mode, an d associated with each IP address on a display screen;

Copy mode: Select to send the display, the display is sent to all the control card, requires current IP address PING is good.

Aultiple Sendin	g				×
Mode selection	Copy mode	• Scre	en-1	•	
Screen	Multi-screen mode Copy mode		Schedule	Status	
				Send	Close





Clear display data: Clear the programs inside the control card (restore t o factory settings);

IP Management tools: They are for network card's exclusive use, and u sed for distributing the IP addresses of different network cards and asso ciating with the related screens:

Import screen params from U disk:

First, U disk on a good LED display

Second, U disk on the computer

Finally, the operation "Import screen parameters from the U disk." **Time Setting**: You can set the time of control card according to your re quirement or, to the system time by default.

Luminance Setting: You can set the luminance of screen through serial port or network port, Luminance can also be updated by U disk;

Time Switch: Set the time to power on and power off the screen; **Screen Test**: Testing screen by software;

Firmware Update: (First need got the firmware information, if need updated new version, it could be, we suggest do not updated

3.3.4 Tool

It includes notepad, calculator, drawing tools, which are used to open t he practical tools on the system. The newly added drawing tool can sav e the data by printscreen more conveniently.

3.3.5 View

It contains analog screen's Zoom out, Zoom in, Center, Output and Ap ply the program's appearance.

Output Window: When opening the output window, you can view the ty pe of the current connected control card and the screen size, color par ameters of the program in the control card; during sending, you can vie w the process and know whether the sending is success. It cannot oper ate normally until you update the firmware that is required to be update d; when you are indicated that the sending is overtime, please check w hether the line is normal.

3.3.6 Language menu

This menu includes ten languages: Simplified Chinese, Traditional Chinese, English, Russian, Turkish, Iranian, Polish, Spanish, Japanese, Mongolian, etc.. It is used for switching among different languages.





3.3.7 Help menu

It is used for viewing the version number of HD2014 software;

3.4 Toolbar

Toolbar includes Programs, Text, Hypertext, Time, Temperature, Animat ed characters, Send, Adjust Time, U disk and Preview tools, as follows: Program Text + MapperText + Office + Temperature Animated Characters II Eace Send Badyust Time & U Disk Office + Temperature Animated Characters II Eace Send Badyust Time & U Disk Office + Temperature Animated Characters II Eace Animated Characters II II Eace Animated Characters II Eace Animated Characters

Program: It is used to create a new program (This program is the subdi rectory of the screen.);

Text: It is used to create a single-line area or a multi-line text area; only pure texts can be edited in the single-line text area, while in the multi-line text area both texts and tables can be edited;

Hypertext: It is used to create an image-text area (Pictures and hypertexts can be inserted.)or swf area;

Time: Create a new time area or clock area, count area. Time area is u sed to display the system time (calendar mode); clock area is also used to display the system time (multiple round clock forms); count area is u sed to display the clockwise/ counter-clockwise count;

Temperature: Create a temperature area or temperature and humidity ar ea, and use it to display the current environment temperature (Temperature re sensor module is needed.);

Animation characters: Create an animated character area, where you c an build hollow characters, stroke font, and set various special effects, s uch as waves, swing, vertical/horizontal rotation, zooming, character rotati on, scrolling, flying to left/right, flash, output character by character, swin g from one side to the other, elastic characters.

Send: It is used to send the current screen file;

Export: It's for U disk card's exclusive use, save the currently displayed file and time into U disk (U disk is updated.);

Adjust Time: Adjust the system time (adjust the time of control card to be synchronized with that of computer);

Preview: Preview the current program (Note: You can preview only when one program is selected.).

3.5 Analog display





Vortein Program-1 O Dial-1 O Animated Charact Excel-1		HOUC M	Nane Aimee Alisa	Email Aimee, huidu@rahoo, c Ailsa, huidu@rahoo, c
- SWF-1 - D Time-1 Multiline text-1	mente		Benny	Bunny, huicu@vahoo.c
III Screen-2	2014/05/15		New s	otware . hew
	Thursday 15:26:17		to use	the control f Huidu t
		↓ + ← 1/30 → ⊕ ♥ Ad	Isorb	

Note: the rational use of analog tools can help you edit screen file more conveniently, including zoom in/out the analog window, move around the current area, turn page of the screen content, etc..

3.6 Display attribute column

In this column, you can set the screen parameters, communication, tim e, luminance, time switch and clear display data, , test screen, turn on/of f the screen and so on.

Module #10-440			Screen Settings	Communication Se.	Clear display data
Webs22 Heght16 Curr e Color: FulColor	nt screen p	Functional nav	gat io n	Luminance Setting	Time Switch
Communication mode-	51013		Screen test	OpenSereen	Classfores

Current screen parameters: They are changed according to screen par ameter settings;

Functional navigation: It includes screen parameter settings, communica tion settings, clear display data, time settings, luminance settings, time s witch, screen test, turning on/off the screen, etc..





3.7 The use of remote control



An infrared probe needs to be welded, please operate the remote cont rol as follows: Power: Switch display UP: Previous program

Down:next program Right: Increase brightness 1-99: Choose program

Left: Decrease brightness Play:Screen test

Chapter 4 Creation Process of Screen Prog

ram

4.1 Create new screen (the first-level content)

Methods: Click File - New screen (The password is 168 or 188.), the pop-up settings page is as below:







Module Selection: Select the type of your control card, and c lick "Next";

Basic Settings: They are mainly used to set data polarity, col or, OE polarity, screen width, screen height, scan mode and w hether to use the 138 decoder;

Before setting, you need to know the correct attributes of eac h parameter, or the error will cause wrong display,

Trouble shooting:

Incorrect setting of data polarity will lead to black characters on a red background;

Incorrect setting of the 138 decoder will cause non-display or wrong display:

Incorrect setting of color may cause the value of screen heigh t or screen width return to the previous one;

Incorrect setting of OE polarity will lead to uneven luminance, namely, some lines are bright, while some lines are dark;

Incorrect setting of scan mode will cause messy codes;

Advanced Settings: They are used to fine-tune parameters, b ut no change is recommended under normal conditions;





Screen-2: 1280 X 320 FullColor	
C Screen 2	
The new scroon	
	◆ 0.0 → (E) Auction navigater
	€ 00 → (E) function navigation Servers Settings - Emeracication St (Ever display data)
The file wisci cell	400 400 Ancion navgatar Ancion navgatar Barren Sattings Emmenioation Sn. Elear display data Time Satting Instrume Satting Time Satab

4.2 Create new program (the second level content, a s

creen can create 200 programs.)

Methods: Click the "program" on the shortcut bar (Premise: select a sc reen first), as below:

💷 Program 📲 Text + 🗷 Hypertext 🕖 Time + 👃 Temp 🔞 Animated characters 💿 Send 💥 Adjust Time 🔲 U Disk 🖷 Preview

New program is as below, including the border - sub-period settings.

×							
+	Screen-1						
I I K	Caraan 2						
	Screen-2	-					
	🛛 🛄 Program	n-1	At most 200	new programs	can be cre	eated h	
	10.0.0.0.0.		oro				
			EIE				
			ere.				
			ere.				
ay Node	Play Time			Border Setting			
ny Mode	Ray Tine			Border Setting			_
ny Node Posed Time	Play Time Specified date 2014/ 5/15	- To	2014/ 5/22 8-	Border Setting			_
ny Made Browed Time	Play Tine Specified date 2014/ 5/15	i tu	2014/ 5/22	Border Setting	1 - 1 - Re	C Inde	
ay Made Roved Time	Play Tenc Specified date 2014/ 5/15 Specified Tene 0:00:00	 To To 	2014/ 5/22 22.59.58 -	Border Setting Enforder @ Solid a:	-1 + Re +	⊖ fudak	
ny Mode Reced Time	Play Tinc Specified data 2014/ 5/15 Specified Time 0:50:30	in Ta Ta Di Ta	2014/ 5/22 22-59-59 -	Border Setting Border @ Sold or Differs-o	-1 +] Re +]	⊖ fiidek ⊙ Gusten	····· 1 ·
ay Node Brived Time	Play Tine Specified date 2014/ \$115 Specified Time 0:00:00	 Ta Ta Tuesday States 	2014/ 5/22 3+ 22-39-39 3 22-39-59 3 2/Wednesday	Border Setting Border Bold a Parto	-1 + Re +	C fiida C Gaten	[I =

Note: Each of the 200 programs can set different attributes, which includ e play mode, border settings (over 200 kinds) and play time (specified ti me period).

4.3 Create new area (the third-level content, each prog

ram can be set to 8 areas.)

Methods: First, select the program, click text, hypertext, time, clock, co 20 / 35





unt, temperature, etc., then create different types of areas, see below:

O Dial-1 Animat Excel-1 O XWF-1 O Time-1 Multiän Screen-2	et text-1		Nane Ainee Aitsa Bunoy Monoy G Nanoy G	Enali Albert bulcustrahoo.c Alisa hulcustrahoo.c Bunov hulcustrahoo.c Managan Managan Managan Managan Managan Managan	
		★ ↓ ↓ ↓ 1/30 →	Adapts		
• #		1/20 →	C Adsorb		-
+ 31 Region Position Origin X	tiffect Settings	1/20 1/20 tackground Settr ØBackground	😳 🗹 Adsorb	• 20 • •	α • ∎≋ •
Region Position Origin X 138	Effect Settings Types of effects		Image: Adsorb https://www.adsorb Adsorb B Z S W	* 20 * 8	α • ∎≋ •
+ T Region Position Origin X 138 Origin Y	Effect Settings Types of effects Wave Seced		C Z Adaxb	• 20 • •	Œ • ∎≋ •
* T Region Position Origin X 138 Origin Y 0	Effect Settings Types of effects Wave s Speed		© ⊘Adanb ngs Acid 5 v HUID		Œ ▼ ■無 ▼
* T Region Position Origin X 138 Origin Y 0 Width	Effect Settings Types of effects Wave Speed Speed Stap over		C Z Adarb	• 20 •	Œ ▼ ■無 ▼
e T Region Position Origin X 138 Origin Y 0 Weddh 272	Effect Settings Types of effects Wave Speed Stap over		C Z Adarb	V COMPANY	₫ • ∎≋ •
e 11 Region Position Origin X 138 Origin Y 0 0 Widdh 272 Height	Effect Settings Types of effects Wave Speed Stop over 0 sec Fage		Adorb	V COMPANY	₫ • ∎≋ •

4.4 Finished programs

After the three steps above, we've created a screen file, if we need to create more programs, just repeat the second and third steps above (s everal programs can be played on a same screen); If you need a softw are to control multiple screens, you will have to create more screen files, then just repeat these three steps;

Save the programs into disk after completing them (They are stored in the Project file under the installation path by default, or in the specified directory through the file menu.). By previewing, you can view the dyna mic image of each program at real-time and set the display mode; if sati sfied, you can send it to screen through the "Send" button.

Chapter 5 Display Different Content

5.1 Single-line text display

For pure text display, we can simply use the single-line text areas, but this area does not support the Enter key.

Steps: Please refer to 4.1 and 4.2 to create screen program;

Click "Text", then select "single-line text", a single-line text area will ap pear (The coordinates, length and width can be set freely.)





Test		<u>I</u>	47)	C
. Sin	<u>eleste</u>	06.)	Fol.	
i Mu	ttins	s teo	d –	

	iococ program	icieen 2: 384 X 32 F	ul Color - Program-1
Soreer E IZ O	n 2 Program-1 Single-line test-1		
opies fosilite Asse 11.	Print College	Witzeler:	
And the second sec	and the second se	E Natrice	12345678902345464780745
nge "I			
nger "1 Adla	Dates tons	n 2 ar	

Note: For pure text, we suggest editing it in the single-line text area (Th is is the simplest setting.). HD 2014's software editor is so powerful that you can alter single text and adjust it to center, and edit the character s pacing as well as line spacing.

If the display mode is "Continuous move to left", and the option "End t o end" is selected, the content displayed on the screen will be kept mo ving to left; if you don't select "End to end", the content will be output; it will display continuously if there is a blank key.

Region Position Origin X:	Effect Settings	B	order:	
410				•
Origin Y:	Display Static	R	andom	
128	Display: Spee	d: S'	top over:	
Width:	Display Static 👻 30	• 5	1	sec
230				
Height:	Clear screen: Spee	d:		
128	Do not clear 🔻 20	- DA	dditional se	ttings-

The following shortcuts are added in the text edit box, all of single-line texts, multiline texts and animated characters are supported:

- Ctrl + A: Select All
- Ctrl + Z: Cancel the current operation
- Ctrl + C: Copy
- Ctrl + V: Paste





5.2 Multiline text display

In the multiline text area, you can use the Enter key to switch to a ne wline, open the *.hf file and add pictures, tables are also supported her e.



Stroke is unavailable when it is the single color.

As the green arrow in the figure above shows, you can add pictures, create tables and open the *. hf file by clicking the edit box.



Insert: All of TXT documents, LOGO or picture (only JPG, BMP, PNG a nd GIF formats), *. HF and RTF files can be inserted.

5.3 Hypertext display

If you want LOGO or picture (only JPG, BMP, PNG and GIF formats) t o be displayed on the screen, how to set? Steps are as follows: Steps: Please refer to 4.1 and 4.2 to create screen- program;

After clicking the "Hypertext", a hypertext area (The coordinates, length and width can be set freely) will appear, then you can add the pictures to be displayed to the bottom file list, see below:





	• P	rogram 🚺 Text 👻	- 🖾 HyperText -
	× >	Choose progr	pra HyperText
Region Position Origin X: 0	Effect Settings	Ple Lat	t Add
Origin Yi 0 Webbi 192	Display Static Display Speedi Display Static • 30 •	Random Stop overi 3 sec	Delata Move Up
Height: 16	Clear screen: Speed: De not dear • [20 •		Mave Down

5.4 SWF

Steps: Please refer to 4.1 and 4.2 to create screen program;

Click "HyperText", then select "SWF", a SWF area will appear (The co ordinates, length and width can be set freely.)

		
	File(F) Settings(S) C	Dperation(O) Tools(T)
	🔵 Program 🚺 Text 🕶	HyperText 👻 🕗
	🗙 🔎 🛛 🔽 Choose progr	a 🛄 HyperText
	Ģ… <mark>,</mark> Screen-1	SWF
Region Position		
Region Position Origin X	Border	Path
Region Position Origin X 138	Border	Path E:_\flash\flash2376.svf Add file
Region Position Origin X 138 Origin Y	Border Play Speed Filter red	Path E:\Add file
Region Position Origin X 138 Origin Y 128	Border Play Speed Filter red 4	Path E:\Add file Add file
Region Position Origin X 138 Origin Y 128 Wildth	Border Play Speed Filter red Total frames Filter green	Path E:\\flash\flash2376.svf Add fie
Region Position Origin X 138 Origin Y 128 Width 272	Border Speed Fiber red Total frames Fiber green	Path E:\Add file
Region Position Origin X 138 Origin Y 128 Width 272 Height	Border Border Play Speed Fiber red Total frames Fiber green S0% Record Fiber blue	Path E:\Add file Note: If you can not get the correct image, check the recording options.

5.5 Time display (calendar time)

Time display of screen is similar to text and hypertext display, just clic k the time area, steps are as follows:

Steps: Please refer to 4.1 and 4.2 to create screen-program;

After clicking "Time", the time area (The coordinates, length and width can be freely set.) will appear. Just set the position, so easy! See belo w:







	Screen-1 Preview calendar time	Scree	n-1: 128 X 64 FullColor	
Region Position	Time Parameters	Ensting	17 Border	Font
0	Multiline display	1	*	[余体 ▼]
Origin Y	Show Date		Time lag	
128	YYYY/MM/DD -	Red 💌	0 THour	BU
Width	Show Week			Font Size
138	Monday	Cyan 👻	0 🔻 Min	21 👻
Height	Show Time			
128	HH:MM:SS *	White -	Exchange date and week	

5.6 Clock display (analog clock)

The clock display is similar to text and hypertext display, just click the clock area, the steps are as follows:

Steps: Please refer to 4.1 and 4.2 to create screen-program;

After clicking the clock, a clock area (The coordinates, length and widt h can be freely set.) will appear. It's very simple to set, just set the position, as below:







Region Position Origin X	Dial Attribute Dial Style		Border			1 Date	Fort		Background
0	Default				÷	1111/MALCO +	Week		$\leftarrow \rightarrow \uparrow \downarrow$
Origin Y	Hour Hand		Hour Radi			$\leftarrow \rightarrow \uparrow \downarrow$			A 14 14 14
0	2	Red	1	Red Red	٠	(X:0 Y:0)	床鉢		X:10 Y:0
Width	Minute Hand		Second Ra	adus		W week	Font Size		
97	1	Red Red	0	Red	٠	Monday .	9		
Height	Second Hand	- mart	Time lag			$\leftrightarrow \rightarrow \uparrow \downarrow$			
89	0	Red Red	0	- 0		(X:0 Y:12)	R B	ed +	FOR

5.6 Clockwise / counter-clockwise count display

The screen displays clockwise / counter-clockwise count.

Steps: Please refer to 4.1 and 4.2 to create screen-program;

After clicking "Count", a count area (The coordinates, length and width can be freely set.) will appear, as below:

	🛄 Program 📲	Text 🔻 🕻	🗕 Hypertext	🕗 Time 🔻	- 👃 Temp	
	K	-		TimeClock		
	Pro	oram-1		🖷 Count		
🖾 Program 🎆 Text 🕶	🖪 Hypertext 🔞 Time 🗸	🛔 Teop 🔞 A	ninated characters 🥥	Send 🔀 Adjuxt	Tias 🔲 V Diak 👹 Previ	•
*	Screen-1: 256 X 128	FullColor				
Fleview Coul	ituowii					
Count-1	02 02	23	lour 54	Tiro	<u>* 14</u>	cond
Region Position	02000 Timing Set	28	54	lim	te 14 se	cond
Region Position Origin X	Timing Set Target Time	y 23 I	Font	Mire	Border	cond
Region Position Origin X 0	Timing Set Target Time 2014/ 5/16 V	9:39:17 🜩	Font Frank	• 9 •	Border	
Region Position Origin X O Origin Y	Timing Set Target Time 2014/ 5/16 ♥	9:39:17 🐳	Font 京体	• 9 •	Border	200111 ▼]
Region Position Origin X O Origin Y 0	Timing Set Target Time 2014/ 5/16 V Timekeeping Mo	9:39:17 🐳	Font 定在 定体 Clock color	• • •	Border Foreground	
Region Position Origin X O Origin Y O Width	Timing Set Target Time 2014/ 5/16 V Timekeeping Mo Count down	9:39:17 ÷	Font 完体 Clock color ■ Red	• • •	Border Foreground X: 0 Y:	***
Region Position Origin X 0 Origin Y 0 Width 192	Timing Set Target Time 2014/ 5/16 Timekeeping Mo Count down Display Mode	9:39:17 🜩	Font 策体 Clock color ■ Red Text Color	• 9 •	Foreground X: 0 Y: Background	
Region Position Origin X 0 Origin Y 0 Width 192 Height	Timing Set Target Time 2014/ 5/16 Timekeeping Mo Count down Display Mode English	9:39:17 🔹	Font 示体 Clock color ■ Red Text Color ■ Red	• 9 • • 9 •	Border Foreground X: 0 Y: Background X: 0 Y:	

5.7 Temperature display (Sensor is required to bu

y.)

The screen displays the current environment temperature.

Steps: Please refer to the content of 4.1 and 4.2 to create screen-pro gram;

After clicking the "Temperature", a temperature area (The coordinates, I ength and width can be freely set.) will appear, see below:



D2014	1 LED) Opera	ation Ma	nual	ofti	ne L	ED C	ontrol Sy	stem	
🖾 Pro	gr un	Text 👻 🕻	🔟 Hypertex	t 🤇	Time	- 1	Temp	🔞 Animateo	l characters	Send
D Pro	gram 🚦	Text 👻 🕻	🔟 Hypertex	t 🤇	Time •	- 1	Temp	🙆 Animate	l characters	Send
×	Screen	1								
	P P	rogram-1								
	Screen-	Temp-1 2							5:11	Ċ
Region Rec	1	parameter								
Origin X	0	Temp unit	™ •	1	U wh	te 💌	Arial	• 12 •	B/Uo	■ Black -
Origin Y	0	Font	× 4余 ▼	13 •	Vel	ow -	Today ten	nperatures.		
Width	123	Background	x 0	A V	0	1				
Harrist	50	Adjust	0			-				
		Border	1	Ψ.						

Through the 5.1-5.6 above, you can know that our software can set m ulti-functional as well as multi-regional content, so that it can be enough to meet the applications in various scenes.

5.8 Animated character display

 Fregram Text Fregram V(Chance) Frequencia 	i = III Type Text = () om text	2: 584 x 160 -01 Coron	Program 1
H 🥌 Screen 2 승규제 🔍 Progr 🔞 Anin	am-1 nated Chanact		
Region Position	Effect Settings		Background Settings
Origin X	Types of effects	Border	Background Add an imat ed bac
0	Wave 👻	•	Styl kgro un ds
Origin Y	Speed	E stroke	Color filter
0	50 👻	Red ~	Black ~
Width	Stop over	Play Times	Color threshold
142	0 sec	10	·
Height		D	
80	Custom 🔫	Custom complination	

Animated background support SWF, JPG, GIF and BMP. Image package is one or more still images, multi-frame image is a picture with animatio n, SWF is flash files. Multi-frame images and SWF type can only add a picture, image package can add multiple pictures.





qu	Path			ОК
				Preview
				Cancel
				Add
				Delete
1		(C)	and the second se	

Chapter 6 Communication Settings

6.1 Production of Serial line

Our system uses the direct RS232 communication line, see below for the finished line:



6.2 Communication settings (serial port)

Methods: Settings - Communication Settings (Please confirm the drive installed correctly when using a USB instead of the serial port.), see be low:



			Click "Search" to search COM port,
Communication Setting		-	if the line keeps normal for a certai
Serial Port			n time, the search will automatically
COM Baudrat	•	Search	succe ed.
iter Baudr	Setting	-	
When the commu			
nication line is ov			
er 15 meters, ple			
ase change the			
baud rate to 192			
00.			
		C	OK Cancel

If the communication is free of trouble, the characters "Finish search" will appear; if it breaks down, the characters "Sending is overtime" will be shown on the output window (check whether the communication line is normal, re-plug the serial line and search again if normal.).

6.3 Production of network line

Network line consists of two kinds: overlapping line (Control card con nects with computer.) and direct line (Control card connects with router.). **Overlapping line:**

The production of two crystal ends is different, one takes TIA/EIA-568 B as standard, the other TIA/EIA-568A standard. It is generally used for the same device, such as PC network card and PC network card, HUB common port and HUB common port.

Direct line:

The production of two crystal ends is the same, both of them take th e accordant standard, for example, both use the TIA/EIA-568B standard or TIA/EIA-568A standard. It is used between PC network card and HUB common port, and HUB common port and HUB cascading port. Direct li ne is used so widely that it can applies to all common purposes. Please use the direct line if the control card connects with a switch.

	Use direct line when the control			
-	card connects with a router or			
	switch.		Direct	
	ATOT 2564	 II		
	Use overlapping line when the			
	control card connects with P	₩	Cross	
L	C network card.	1 0	~~~	1 6
149.14	- 1			





6.4 Communication settings (network interface)

6.4.1 Single network communication in LAN

Methods: Settings - Communication settings, please use the Simplify M ode when only one control card is connected to LAN, see below:

Serial Port Settings Ethe	rnet
Simple mode (MP)	Customize(TCP)
Simple mode applies only card, the IP address will	to single direct connection and LAN with one control automatically match under these circumstances.

6.4.2 Multiple network card communication in LAN

Methods: Settings - Communication settings, when there are multiple n etwork cards to communicate, please use the Customize Mode, as below:

ial Port :	Settings	Ethernet						
Simple mo Scan	de (VDP)				💿 Cust	omize	(TCP)	
Assoc	MAC Add	ress	IP	Address	Subnet	Mask	Default	
							l	Associate
Advanced S	ettings							
IP Ad	lress			Subnet			Defaul	Lt
192 . 16	8.2.	200	9	8 (X	3 .	0	. 0 .	0.0
MAC Add Note: 1. The add	re resses of	00-00-00	-00-0	-00-00 evice will b	e change	d toge	ther after	settings
succeed. 2. When m	ultiple de	vices are co	nne	cted simuli	taneously	/, plea	se make s	sure the MA
							Settin	gs Scar





After completing this setting is, you need to reset the IP of each control card in LAN, the methods are as follows: Click the Operation menu-IP Management tools, see below:

6.5 Communication settings (WIFI)

Methods: Connect to wireless network emitted by WIFI card, and set the screen parameter to W40/W42, then detect wireless network through communication settings; if the detecting is successful, you can communi cate with control card. See below:

	Currently connected to:		
	Internet access		
	Dial-up and VPN	^	
		-	
		^	=
	HD-W42_1002017 Conne	cted Sall	
	huidu913x	Beer-	
	TP-LINK_682BB4	Saal	
	cisco-815C	litee	
	zeliang	liter.	-
1. UK	Open Network and Sharin	g Center	
nunication Sett	Open Network and Sharin	g Center	
nunication Sett	Open Network and Sharin	g Center	
munication Sett	Open Network and Sharin	g Center	
munication Sett	Open Network and Sharin	g Center	

Appendix 2 Common Settings during Use

Appendix 2.1 How to remotely upgrade the control

card?

Remote upgrade of control card is mainly used for updating the produ ct's features, or dealing with major bugs, while normal use does not nee d to be updated, the specific methods are as follows:

Download the corresponding control card firmware (Each product has a





corresponding. Bin file.);

Click Operation> Update Firmware (The code is 168.) >Operation Interf ace, see below:

Update	Firmware				- X
	View the				
	version of		Update t		
	control c		he contr		
	ard		olcard		
_				•	
Ge	t firmware vers	ilon U	pdate Firmwa	re C	lose

Click "Update Firmware" on the interface, select the corresponding bin file, now the operation is completed (Firmware upgrade only can be carri ed out via RS232 or network port, U disk cannot be updated in this wa y.).

Note: Keep the power on and do not pull out the serial line during th e upgrade.

Appendix 2.2 How to restore the controller card to

factory settings?

There are two ways to restore the control card to factory settings: har dware recovery and software recovery.

Hardware Recovery: Firstly power off > manually press the TEST butt on (do not let go) > power on (do not let go) > hold for six seconds > I et go to finish rebooting.

Software Recovery: Software operation > Clear display data (This step is required to be done in the normal communication state.);

Appendix 2.3 How to test screen with the control c

ard?

There are two ways to test screen: hardware test and software test. Hardware Test: Adjust the parameters firstly, press the TEST button of the control card (power-on) and hold it for seven seconds, let go after entering test status, then click eight times for eight different test modes.

Soft ware Test: Soft ware operation> Screen Test> Interface for testing,





Operation(O) Tools(T) View(Screen test
 Send Item Multiple Sending Clear Displayed Data Export to U disk IP Management Tools Time Settings Brightness Settings Time Switch 	Eight test modes
Screen Test	
Update Firmware	

Appendix 2.4 Time switch for screen

Please refer to 4.1 for screen's time switch settings.

Appendix 2.5 Play screen at a specified time

Please refer to 4.2 for playing screen in a specified period and at a fixed time.

Appendix 2.6 How to set subtitles to be stationary?

Setting the subtitles to be stationary must be done in the Text windo w, see below:

Screen-1 Screen-1 Single Screen-2	m-1 elinetext-1		
Region Position	Effect Settings		Arial
Origin X:	Continuous move	_ border:	
192			
Origin Y:	Display Static	Random	
0	Display: Speed:	Stop over:	
Width:	Display Static - 30	• 3 sec	
192			
Height:	De not dear 20		
80		Additional settings->	





Appendix 2.7 Export to U disk

Export Content: After the program is completed, plug the U disk, then j ust select the "Export to U disk"; if the program contains a time area, y ou need to adjust the time before exporting in order to ensure the accur ate time. See below:

oport to U disk					
			-]	🔲 L	ocal Disk
Adjust Time	2014/ 5/	16 🗸	10:40:39	-	Get system time

Adjust the time for U disk: Select the "Adjust time" before exporting, y ou can use the system time, or set it by yourself.

Luminance Settings: Set the luminance according to your own requirem ent, the current luminance will be displayed when you re-export the cont ent.

Appendix 2.8 Common solutions to uneven luminanc

e on the screen

1, Change the frequency to 100% or other values under the advanced s ettings of screen parameter settings, see below:

todule Selection Basi	c Settings	Advanced Se	ttings	Readback&Import and Export		
Use default se	ttings					
Memory	214	1			💟 Use	138 decoder
Data Mirror	Lo	w Enable	•		Disa	ble brightness adjus!
Button 1	Te	st	•	Scan Frequency	Auto	-
Button 2	Int	frared ray	•	Latch Polarity	Auto 60Hz 80Hz	
Line blanking	-	0			120Hz 140Hz	
System optimizatio				Equilibrium	180Hz 200Hz	
speed first	η.		9		unghone	55 IN 51





2, Set the value of speed and luminance to 5,6,7,8, that is to say, drag the progress bar to the right, as the bottom red box in the picture abov e shows.

3,	Modify th	ne v	alue	of	latch	polarity.
----	-----------	------	------	----	-------	-----------

todule Selection	Basic Settings	Advanced Set	tings	Readback&Import and Export		
🔲 Use defa	lit settings					
Memory	21-	l.	-		Use 13	8 decoder
Data Mirror	Lo	w Enable	•		Disable	brightness adjust
Button 1	Те	st	-	Scan Frequency	Auto	•
Button 2		frared ray	•	Latch Polarity	Low Enabl	e v
Line blanking	3	0			Send p	arameters
System optin	nization			Equilbrium		
Speed first	Ť.		Q		Brightness	first
				Previous		Finish

4, Switch the value of OE polarity.

Indule Selection Bas	c Settings	Adva	nced	Settings	Re	adbad	k&Import and	Export			
Color	Unitb	board							10		
Single Color	⊜ ca	mmon	unit	board	PS	full o	olor Interface	08 32 * 32			
C Dual Color											
Pull Color	@ Ci	ustom u	unit b	oard	8 ×	8			-		
Screen Parameters	Width			Height					12		- 22
Number of screens:	-48	*	x	20	*	-	960	Data Polar	tyı	High Enable	•
Screen Points:	384	-	x	160	*	-	61440	OE Polarity	12	Low Enable	-
Scan Mode:				Scan (1)	/18)	Full	color		*	High Enable Sono parameters	
Automatically sea	with the sc	an									
© P10	D P16		0	P3.75(Ф5))	© P	10(08)				
								1 0		1	Ì

Appendix 2.9 Operation of buttons on the control b

oard

Button S1 / test: 1, Test screen. Press this button for about 3 seconds when the screen is bright, all the lights will turn red, it has entered scr een test at this moment; if you press it again, the red, green, blue and white lights will be bright at the same time, see below:







2, Press this button and hold it for about 5 seconds after the control car d is power on, all the contents in the control card will be cleared.

Button S2 / RGB: 1, Switch to previous program:

AQ0 card needs to set the button 2 to "Switch to previous program" und er the advanced settings, and send the content to the control card, now it can be switched normally. See below:

odule Selection Basic Se	ttings Advanced Set	ttings	Readback&Import and Export		
Use default setting	js.				
Memory	214	+		Vse 138 decode	c .
Data Mirror	Low Enable	÷		Disable brightne	ss adjust
Button 1	Test	•	Scan Frequency	Auto	•
Button 2	Infrared ray	-	Latch Polarity	Low Enable	•
Line blanking	Switch to previou Program control	s prog		Send parameter	8
System optimization			Equilibrium		
Speed first	1	0		Brightness first	
			Previous Net	Finis	h

E43/G3 cards cannot switch to the previous program normally unless set the button 1 is set to "Program Switching" under the advanced settings, see below:

odule Selection	Basic Settings	Advanced Set	ttings	Readback&Import and Export			
🛄 Use defai	ult settings						
Memory	25	1	•			Use 138 de	coder
Data Mirror	Lo	w Enable	•			Disable brig	htness adjust
Button 1	Te	st	*	Scan Freq	uency	Auto	•
Button 2	Pro	ogram control	9	Latch Pola	rity	Low Enable	•
Line blanking	-					Send parar	neters
System optim	nization			Equilibrium			
Speed first	1	10. 10. 11. 11	Q		1.1	Brightness firs	t
				Fravious	Bext		inish

2, If the S2 button can switch programs normally, please turn the control card off, press and hold this button to turn the power on, three lights o f the control card will be bright and one is dark, now the firmware has been cleared. If you want to use the control card again, you must updat e the latest firmware.

AQ0 card can use this function only when the button 2 is set to "Swi tch to previous program", while E43/G3 cards must set the button 1 to "Program Switching", see above.