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HD2018 LED Display Controller Operation Manual

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Control card selection table

Model	Red	RG	RGB	Memory	Gray	Hubs
HD-U6A	320*32	/	/	1M	/	2 HUB12
HD-U60	512*32	256*32	320*16	2M	8	1HUB08,2HUB12
HD-U6BN	1024 *48	512*48	640*16	8M	8	3HUB12,1HUB08
HD-U61	1024*32	512*32	640*16	8M	8	1HUB08,2HUB12
HD-G62	1024*64	512*64	672*32	8M	8	2HUB08,4HUB12
HD-U62	768*64	384*64	512*32	8M	8	2HUB08,4HUB12
HD-U63	512*128	256*128	320*64	8M	8	4HUB08,8HUB12
HD-U64	512*256	256*256	320*128	8M	8	1HUB 50PIN
HD-U60+	4096*32	2048*32	2720*16	32M	256	1HUB08,2HUB12
HD-U60-75	/	/	640*64	8M	256	2HUB75
HD-U62+	4096*64	2048*64	2720*32	32M	256	2HUB08,4HUB12
HD-S62	1024*64	512*64	672*32	8M	8	2HUB08,4HUB12
HD-S63	1024*128	512*128	672*64	8M	8	4HUB08,8HUB12
HD-E62	1024*64	512*64	672*32	8M	8	2HUB08,4HUB12
HD-E62+	4096*64	2048*64	2720*32	32M	256	2HUB08,4HUB12
HD-E63	1024*128	512*128	672*64	8M	8	4HUB08,8HUB12
HD-E64	1024*256	512*256	672*128	8M	8	1HUB 50PIN
HD-E66	2048*512	1024*512	1344*256	8M	32	2HUB 50PIN
HD-W60	512*32	256*32	320*16	2M	8	1HUB08,2HUB12
HD-W60-75	/	/	640*64	8M	256	2HUB75
HD-W61	1024*32	512*32	640*16	8M	8	1HUB08,2HUB12
HD-W6B	1024*48	512*48	672*24	8M	8	1HUB08,3HUB12
HD-W62	1024*64	512*64	672*32	8M	8	2HUB08,4HUB12
HD-W63	1024*128	512*128	672*64	8M	8	4HUB08,8HUB12
HD-W64	1024*256	512*256	672*128	8M	8	1HUB 50PIN
HD-W62-75	/	/	640*160	8M	256	4HUB75E

Chapter One: Introduction

1.1: Function feature

The whole HD2018 control system are simple operation, strong function, easy to learn and use, support image-text(Excel、JGP、BMP、GIF、SWF、video、text、animation word etc.)/Text/animation word/Excel/timer (countdown / up/button countdown / up) /count/lunar calendar/Temperatureand humidity/Pray area etc., can support serials port(including 232 and 485)、Ethernet port、WIFI、U-disk etc. Multiple control communication, can meet the application of different situations.

Main advantages:

- 1. Support Gray level;
- 2. Support layer overlay, areas overlap;
- 3. Add 3D Text, animation characters;

4.Full support smart settings, support for most modules (U disk card using common settings);

5. A variety of custom combinations of effects;

- 6. Support area background;
- 7. Add button timing up/down (cyclic time), button count up/down;
- 8. Support Realtime Partition (secondary development);
- 9. The higher brightness and faster speed left. Higher refresh rates;
- 10. The new text rotation, supports 90°, 180° and 270° rotation;
- 11. The increase in receivables function, parameter lock screen function;

12.Support Temp, humidity, brightness, remote control and can choose to play 1-999 programs;

13.Support direct connection, LAN, inter-network multi-connection, the device can be found;

- 14. Support group management.
- 15. Support prayer and the Weather forecast function

1.2: operating environment

Operation system: Windows 2000/XP/Win7/Win8/Win10 etc.

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Software support all languages

Chapter two: Install and uninstall

2.1: Install

Download software HD2018 From <u>www.huidu.cn</u> and then install (Note: if the operated system is Win7 or Vista, please put the installation path to non-system disk)



After HD2018 software finished installation in $\$ start $\$ program $\$ can find "HD2018" program group, then click HD2018 to run it. As well, you can click shortcut of HD2018.exe on the desktop to access software.

Chapter three: TOOLS INSTRUCTIONS

3.1: The software main interface

Open "HD2018" software main interface as below:

Group manage screens.

Info window can show the command status if send successfully and online devices.



3.3.1: file menu

As below:



New screen (Ctrl+N): used to create a new screen(No screen counts limited), Can also be grouping manage(select group option in system setting).

Save (Ctrl+S): used to save current screen file.

Export screen file: export current screen file to user-defined path. Import screen file: load screen file to software directly.

3.3.2: setting menu



1.Screen parameter settings: used to bind parameter of device and screen, as below:

Screen Parameter Settings	Hardware Settings		
Use hardware settings Device Name	Card Model		Color
Default	HD-E64	•	Dual Color 🔻
binding current	screen paramete	r	Gray Level
1024	128		No graylevel
Device Name: Default Device ID: 0000000-0000 Maximum range:Single Colo Maximum region:20 Maximum region:20 Maximum width:4096 Maximu Communication:V Disk Eth	nr-≫256*1024px Dual m height:256		4 graylaval 8 graylaval 16 graylaval 32 graylaval

1). First step, if control card displays normally, it just need set screen's width and height pixel, color and gray level,

2). Second step, hardware setting, please choose default common smart setting for common

screen.(If Your Screen is P10 Red normal, no need this step.)

For example: P10 single color, just select below photo of A6 then it is ok. Note: For abnormal led module, select "Additional" ->"smart setting".

(For smart setting: it need find the device first , HD-U6x Serials controller can't smart setting)

Commonly Smart	[[C6]]P10 1R,	/1R1G 1/4S HUB12 3	2X16 (P10) [A8]		Device name
Data Polarity	Low Enable	▼ OE Polarity	High Enable	•	
	(Import
Memory	8M	▼ Line blanking	80	•	Export
Latch Polarity	Low Enable	- CLK	High Enable	•	Export
					Button settings
Priority mode	Brightness Priori	 Clock frequency 	25MHz	•	
	<u></u>	-			Smart Setting
Scan Frequency	Auto		Default	•	🔽 Additional settin
		Double-sided s			Additional section
Data Mirror	Low Enable	📕 🔽 Vse 138 decode	r		
Color channel					

"Button setting" in hardware setting, used to set four buttons' function, as below:

Button 1	Test	 Play Mode 	Order of play 🔻
Button 2	Switch to next pro	•	Send parameters
Button 3	Switch to previous		
Button 4	Program control	•	

Note: button4 turn on screen display the second program, turn off screen display the first program.

utton settings			
Button 1	Test	Play Mode	Order of play 💌
Button 2	digit plus 🔹		Send parameters
Button 3	digit down	0	
Button 4	Timing Pause]	
	ОК	Ca	ncel
ton settings			×
Button 1	Test 💌	Play Mode	Order of play
Button 2	count start 🔹 🔻		Send parameters
Button 3	count reset 🔹 👻		
Button 4	Counter Reset 🔹		
	ОК	Cance	
[•] Play Mod	le "three kinds c	of	
ton settings			X
			
Button 1	Test 💌	Play Mode	Order of play Order of play Button to switch
Button 2	Switch to next proc 💌		Button Control on
Button 3	Switch to previous 🔻		
	Switch to previous Program control		

注:播放模式-按钮控制,在显示屏节目-播放时间-按钮控制选择对应的按钮 Note: Play Mode - Button settings, On 'Program' - 'Play Time' - 'Button Control on' Select Corresponding Button

HD2018															×
File(F) Setting	s(S) Operation	n(O) Tools	T) Language	(L) Help(H)											
Program	🔄 HyperText	🚺 Text	😝 3D Text	没 Animat	tion 🚺 Exce	l 🕖 Time	🙋 Count	BB Digit	Temp + Humi	A Pray	🔁 Weath	ner			
🛛 🚫 Adjust Time	📕 U Disk	Previe	w 🔘 Send									_			
		Scree	n1: 384 X 64	Single Color	No graylevel -	Program1					h	nfo Window	V	,	▼ ¤ ×
E- 🚼 Group1	/					2	¥				1	Info On-I	line		
🛓 📃 Screen	1977		WEL	COM		2018/07	/05								
	200 C					Thursda	áy								
	Text1														
	Time1														
		_													
		0	QQ	GO	004	þ 🔺 1	/1 🕨	*							
			1 55 1 553								L				
Program Information	on	Play Time	Border												
Maximum region :	20		l date				Fixed Time								
Build Area: 2		2018/ 3	/ 5 🔲 🖛	То	2018/ 7/12		600	sec							
Support Regions O	verlap	Specifie	f Time				Button Control	on							
Program Size: 5.4	ЗКВ	0:00:0	0 🗘	То	23:59:59		Button Control								
		Monday		🗹 Tues	day	<u>~</u>	Button Control Button2	off							
		🗹 Thursda	4	🗹 Frida	У		Button3 Button4								
		🗹 Sunday					e accontra	_							激
															(D) ++1

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2. Communication setting: used to connect multiple cards. 1). Ethernet:

(1) The defaulted way is connection 1PCS card .Meaning only one card connected with computer, no need any IP setting, just need normal LAN cable connection and find the device.

Communica	ation Settings				
Ethernet Wif	i DHCP Advanc	ed Settings			
Begin IP 0.0.0.0	End IP 0.0.0.0	Port 6101	Scan Mode UDP	From 0 . 0 . To 0 . 0 . Port 6101 Scan Mode UDP	0.0
Direct conr	nection mode		Delete	Import File Modify	Export File

(2).when not select "Direct connection mode", it is suitable for condition when controller and main operated PC are not at the same network segment, it need add the IP address of controller network segment to the software. Operation as below. After added, then you can find the controller in 192.168.3.*

thernet	COM Port	Wifi	RF	DHCP	Advanced Settin	ngs	
BeginIp	Addr	End IP		Port	Sc	an Mode	From
192.168	.3.1	192.16	58.3.254	6101	UC	OP .	192.168.3.1
							То
							192.168.3.254
							Port
							6101
						1.000	Scan Mode
			-	Delete		Modify	Add
				Delete		Houry	
Direct	connection	mode					Close

2).wifi: Used connect wifi signal of controller ,automatically default input password 88888888 ,no need manual input, as below shows:

unernet [COM Port	Wifi	RF	DHCP	Advanced Settings		
Wifi					Signa	Quality	Connection Status
HuiduPho	one				100%		Connected
Xiaomi							Disconnected
HuiduCompany					90%		Disconnected
HuiduClient					88%		Disconnected
A601-000	A601-0000-A5555						Disconnected
TP-LINK_	700N				32%		Disconnected
huidu 1					34%	34% Disconnected	
сvор					38%		Disconnected
ChinaNet	t-J3jF				34%		Disconnected

3). DHCP: when multiple controllers connected to the Switch, user do not need set card IP address. Use DHCP, software will distribute IP address for controllers automatically, see picture as below: software distribute IP address 192.168.4.100-192.168.4.200 to controllers. Only use on the case of controller connected to Switch, no router.

ngs
V
255 . 0
2 , 1
2 , 100
2 , 200
2 . 1
Day

4). Advanced setting. Advanced setting interface is used to set if need find 4th generation card (After found 4th generation card, just upgrade firmware), Type one to

Communication Settings		>
Ethernet Wifi DHCP Advanced Settings		
The default connection method Type one Type two Type three Type four	Auto Scan Mode Proadcast 5000 mm CCP 12000 mm CUDP 12000 mm CCM Port 0 mm PRF 0 mm Search for Gen4	5
Ethernet Wifi COM Port	RF ØDHCP	
Monitoring	Default Settings	

type four is LAN card connection way. The software Default setting is Type one.

3. System setting: setting system parameter (suggest not modified)

Add new function: lock screen, it can choose which parameter can't modification.

Show Group	Auto adjust time
Auto Updates	Password Settings
Color Single Select	Enable DHCP
Auto Save	Export the parameters
Text Direction Right->Left	Communication Settings

Text direction[Right->Left]: for Arabic or Persian language, please check it.

3.3.3 Operation menu

1).Device manage: modify all the found device name, modify Ethernet card IP address, and manage device's display data, timing setting, brightness setting, timer switch, display screen testing, switch, restart display screen.

63	Device name	Device ID
	563	BF8DFFA2-F9A2-1C5A-2189-4FF1257F00
	Communication	Baudrate
	COM Port	115200
	Alter Baudrate	
	115200	×
	Clear Displayed Data	Time Settings Brightness Settings
	Clear Displayed Data	Time Settings Brightness Settings Screen Test Open Screen

2). Multiple sending: Sending multiple led screen files. There have two modes: 12/43

multiple -screen mode and copy mode. All found device can be used , including Ethernet port card $\$ serial port card $\$ Wifi card .

①Multiple-screen mode: In Setting-screen parameter setting-Device name, and must select device name, and each screen file binding a device.

(2) Copy mode: Selected the screen file that need send, and sending this screen file to all found devices.

Screen	Device ID	Device Name	Schedule	Status
Screen1	D078FFE5-EA1C-85	E63_10376	0/100	243432
Screen2	C597FF55-0025-1CB	E62_8791	0/100	
Parallel send				

3)Time settings: setting led control card time, can be system time, also can try past or future time.

4)Brightness setting: Having 3 mode. custom, automatic adjustment and by time period regulation

5).Timer switch: Setting time with PC synchronous or setting time by different.

6).Boot Animation: Showing image when opening the display. Selected Enable, and select image (bmp_{γ} jpg_ png) after download file click "sending", or export file to U-disk.

7).Update Firmware/ Wi-Fi Update: Used for updated firmware

4. <u>Tools</u>

Including Notepad、 calculator、 drawing、 network testing、 the local IP Settings, Animated characters background、 info window、 Program appearance.

5. Language menu:

Including 21 kinds operation interface language Arabic, Bulgarian 、 Chinese simplified、 English、 French、 German、 Hindi、 Iranian、 Japanese、 Korean、 13/43

Mongolian, polish, Portuguese, romanian, Russian, Serbian, Spanish, Thai, Chinese traditional, Turkish, Vietnamese and so on.

3.3.6 Help menu :

Checking HD2018 software version and updating new version software.

<u>3.4 Toolbar</u>

Including Program、global program、graphic、HyperText、Text、Animation Characters、 Excel、Time、Count、Digit、temperature and humidity、Adjust time、U-disk、preview、 Send and so on. 2 lines also can be adjusted to 1 line. As picture show:

Program: Add a new program

Global program: Add a led cross Pharmacy screen

HyperText: Add new image-text area. Add picture, GIF, Animated characters, SWF, text, video, Excel. when just add picture, multiple picture edit special effect together, support region background.

Text : text support rotate 90° 180° 270° support region background

Animated characters: Effects of Single effects and multiple effects. Support Image background and other style background.

In Additional setting, support artistic font of Hollow and Stroke, add new outline fonts, and show multiple effects , and multiple special effect overlay using.

Excel: Add Excel area, support zoom in and zoom out, background and boarder. In Additional setting, it have Color inversion, Vertical screenshots and Horizontal screenshots.

Time: digital clock and Dial clock together, dial add AM/PM display, support region background

Count: support 4 modes count down, count up, button count down, button count up. Support circle timing, support region background.

Digit: count number from lowest to highest, or from highest to lowest. Support region background.

Pray: Used for showing Pray times everyday.

Temperature and humidity: temperature and humidity need different sensor, being used to show current temperature and humidity (It need add another weld sensor) The temperature sensor is DS18B20,

Adjust time: correct system time (adjust led control card time with PC synchronous) U-disk: U-disk card special using. The current display file and time saved in U-disk (Udisk update program or updated firmware)

Preview: Preview current program or led screen overall preview. When selected Program, preview current program. And selected screen to overall preview, display showing effects same as preview screen.

Sending: Sending current led screen file.

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3.5 Simulating screen



Notice: see the red place, there have tools for edit simulating screen. (Include tools: preview/pause preview, zoom in/ zoom out simulation window, current region right and left shift, region overall, display content paging, simulate display window top left corner display)

3.6 Scrren Attribute

This tool can setting brightness/timer switch etc. Add new function of real time region, and appointed display real time picture area arbitrary size, but better for SDK.

	28 Single Color No graylevel - prporam			
Screen1 Count1 Time2 Text1				
	Q.C. ++ + + 1/1	* 0		
Screen Parameters Device Name:	Functional navigation	- 10		
Module: HD-E65	Screen Parameter	Communication Set	Clear Displayed Data	
Screen Size: 640*128 Color: Single Color	Time Settings	Brightness Settings	Time Switch	
Communication: COM Port,U Disk,Etherne	t Close Screen	Open Screen	Real-time area>>	
Memory: 2M Used Memory: 12KB	Play	Pause		

Current screen parameters: According to screen setting changes

Navigation function: Including navigation function such as, screen parameter setting, communications setting, time setting, timer switch, display testing, turn on screen, turn off screen, real time region, play, pause and so on

3.7 Remote control using

It need weld a infrared probe, remote control using as bellow:

Remote control function



Note: S2 start timing; S3 timing reset; S4 timing pause;

3.8 Smart setting method

Device Name	Card Model		Color
E62_32 👻) (HD-E62	Ŧ	Single Color 💌
fi dth	Height		Gray Level
512	64		No graylevel 💌
Maximum range:Single Co #512px	olor->64*1024px Dual Color->	×64 50 ···	HILING & BH Statement

1), In Setting-screen parameter setting, choose device and color

2) In Setting-screen parameter setting-hardware setting, if in commonly smart setting , it 16/43

have the default screen parameter, then can direct choose, and click "sending" .

As bellow	picture show:
-----------	---------------

creen Settings Har	dware Settings			
Commonly Smart	[[C6]]P10 :	LR/1R1G 1/4S HUB12 3	2X16 (P10) [A8] 🔻	Device name E62_32
Data Polarity	Low Enable	▼ OE Polarity	High Enable	
Memory	8M	▼ Line blanking	80	▼ Import
Latch Polarity	Low Enable	- CLK	High Enable	Export
Priority mode	Brightness Prior	ri 🔻 Clock frequency	25MHz	Button settings
Scan Frequency	Auto	▼ IC		Smart Setting ✓ Additional setting
Data Mirror	Low Enable	Double-sided :		
Color channel				
P10 P1	6 ⊚⊈5 ⊚!	M10 (Colorful)		

If you can't find current setting file, then can refer smart setting. Note: If you know the module's plot, U disk can also be set smart.

(1) setting 1PCS LED Module Pixel of Width. for example, P10 single color 32W*16 Pixel

Module information		
Module width	32	
select 64		

(2) Choose LED module data polarity and OE polarity Its accord to LED module real showing. No changeable is meaning no 138 decoder

Data polarity setting	×	OE polarity setting	X
Display status Auto switch Display status	 ○ A ● B A is white while B is black 	Display status Auto switch A B Display status B is brighter than A	•
	Previous Next	Previous	Next

③Color channel according to screen actual situation to select. Single color for example P10 no need to choice , dual colors only have state A and state B.

🔽 Auto switch	
🔘 State A	-
🔘 State B	•
🔘 State C	-
🧿 State D	

(4)Confirmed Led module scan mode. As picture show, 32/2=16, can get to know the led module scan is 16 scan.

Display status Lines Lit in one Moudle 16	Display status Lines Lit in one Moudle 4 • Tips: a Pixel as Unit

(5) Alignment setting. The image same like 1PCS led module. Just see in the right corner of 1PCS module of the display.

Then in that Led module one Led light is bright and Tracking point, then accord to led module going on. Tracking wrong step can click "step back" and tracking this point again. Or reset all point. After finished tracking point click "save" file.

The default save way is the custom. Saved at program installed path C:\Users\Administrator\AppData\Roaming\HD2018\FPGAFile。

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1		1	1	1	1	1	1	1	1				1	1		1	1					1										—
2	-			-	1	-		-	1				0.0	-		-	1		1	-	0.0		-	-	0.00			-	1			-
3					1	-		-	1		-	1	-	-	-	1	1			1	-	-	-	-	-	-		-	-	-		-
4	-		1	-	-	-		-	1	-		-	-	-	-	1	-		-	-	-	-	-					-	-			-
5	_			-		-	-		-	-				-		1	-		-			-								-		-
6	-					-		-	-	-	-	1		-		-				-		-					-					-
7			-	1	-	1				-		-		-		1			-	-		-	-					-	-			-
8										-					1	1													1			1
9	-		1	1	-	-	1	1	-	-	-	Î.		-	1	1			1	1	-	-	1	1		-	1	1	-			-
10	-		1	-	1	1	1		1	-	-		1	-	-	-			1		-	-	1			-						-
1				1					1	-						1	1		-				-						1			1
12	-	-	1	-	-	-		-	1	-	-	1	-	-	1	1	1	-	1	-	-	-	-	-		-		-	-	-	-	-
3	4		-		-	-	-	-	-	-	-	-		-	1	1			-	1		-				-		1				-
4			1	-		-	-		1	-		-		-		-		-	1	-		-	-			-				-		-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-		-	-			-
6	-	-	-	-			-			-				-					-				-	-							-	1
-	1	-	1			1		-		_				-		1		-				-		-						-		1

3.9 LED cross sign setting.

A new cross sign screen, as picture:

File(F) Settings(S) Operati	on(O) Tools(T) Language(L)	Help(H
New Screen(N)	New Screen(N)	Anima
Save(S)	New Cross Screen(C	
Save As	New screen by guide	
Export Screen File	Screen1: 384 X 64 Sir	ngle Colo
Import Screen File	WELC	OM
Exit(E)	VVLLO	VIV

1).Cross sign screen parameter setting same with normal module setting, just reference above. cross sign screen size divided into 3 parts to setting, Top、 middle、 bottom.

Screen Settings 🛛		eter readback)		(1 . 1		A
Device Name E62_32	•	Card Model [HD-E62	*	Color Single Color	•	Gray Level No graylevel
Jnit board	32 X 16		-			
Top Screen Points: Center Screen Points: Bottom Screen Points:	Width 32	X 16 =	512 1536 512			
	7F1C-C557-49D8 ngle Color->64) 48 Maximum hei	57 (129) 7 2 3 C				

2).Cross sign screen can establish Global program and normal program, global program separated the top, middle and bottom and showing in one area. Establishing program can set up 3 areas to show program.

Chapter 4 Setting up screen and program file

4.1 Set up new Screen file (The first level content)

Click file--- New screen (password: 168), the screen file been set.
Screen Parameter Settings

evice Name	re settings	Card Model		Color
Default	×	E 63	*	Dual Color
idth		Hei ght		Gray Level
512	*	256	*	No graylevel 💌
ximum range: ximum regior	x:20	>128*1024px Dual height:128	L Color-	

1).If Control card have correct parameter (Display working normal) Click "Using the hardware setting" and selected device here is HD-E63, then clicking "yes", finishing establish a screen.

2). If Control card not have correct parameter (Display working abnormal). Do not select "Using the hardware setting", selecting device and color, then setting width and gray level etc.

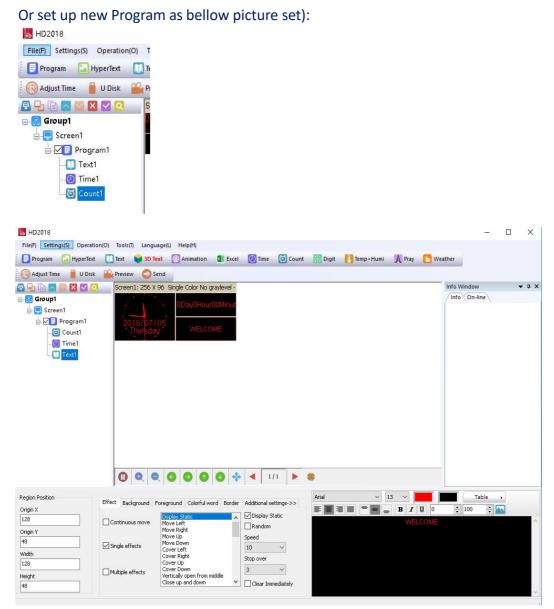
Then into Hardware setting, set screen Commonly smart. If Commonly smart setting do not have LED Module scan, please connect Ethernet cable or serial port cable or wifi to smart setting.

4.2 Set up new program (one screen can set up 1000

Programs)

Click shortcuts Program button (First need to click File-New screen) As picture:

HD2018	-	×
File(F) Settings(S) Operation(O) Tools(T) Language(L) Help(H)		
🔋 Program 🔝 HyperText 🛄 Text 📦 3D Text 🛞 Animation 📑 Excel 🕖 Time 🙋 Count 🔡 Digit 🚺 Temp+Humi 🕠 Pray 💈 Weather		
🚱 Adjust Time 🚦 U Disk 🔐 Preview 📀 Send		



Note: 1000 Programs can set different attributes, these attributes includes: Specified date, time, these attributes includes: Specified date, time, Fixed time, Border.

4.3 Set up area (Each program can have 20 areas)

Select program, then click Hypertext . Text... and so on to build different type of areas, shown as below

HD2018								n x
File(F) Settings(S) Operation	_	iage(L) Help(H)						
Program 🚺 HyperText	🚺 Text 🛛 🔰 3D T	ext 🔀 Animation 🚺 Exc	tel 🕖 Time 🙆 Cou	nt 🚦 Digit	🚺 Temp+Humi 🌖	🚺 Pray 🛛 🞦 We	eather	
😡 Adjust Time 💧 U Disk	Preview 🔘 S	end						
🗗 🔁 🖻 🔼 💟 🔍	Screen1: 256 X	96 Single Color No graylevel	-				Info Window	▼ ‡ X
Group1	A V	• 0Day0Hour00Minu	t				/Info \On-line \	
È-, Screen1 È-, ☑ ₽ Program1		05						
G Counti G Counti G Time1	Thursde	US WELCOME						
	0 0 0	0000	🔶 ┥ 🚺 🕨					
Dealer Dealting		I I I I I I I I I I I I I I I I I I I		Arial	× 13	× —	Table	7
Region Position Origin X	Effect Background	Foreground Colorful word Bord	der Additional settings->>			B I U O		•
128	Continuous move	Display Static Move Left	Display Static		▋▋▔▋▖	WELCOME	× 100 ×	
Origin Y		Move Left Move Right Move Up	Random					
48	Single effects	Move Op Move Down Cover Left	Speed					
Width		Cover Right Cover Up	Stop over					
128 Height	Multiple effects	Cover Op Cover Down Vertically open from middle	3 ~					
48		Close up and down	Clear Immediately					
								\sim

4.4 Program Editing Done

1).After finished 4.1, 4.2 and 4.3, the Screen File been set up. If need to add more programs, only need to repeat 4.2 and 4.3 steps; If use one software to control several screens, then need to create several Screen File and repeat 4.1,4.2, 4.3 and 4.4

2).After program done, it can be saved (default Saved Location:

C:\Users\Administrator\AppData\Roaming\HD2016\ProjFile, or through File saved to other path)

On software screen, user can check program effects synchronous and setting, if not satisfied , click Send and showing in display.

Chapter 5 How to display different content

5.1 Displaying Text

If just text showing, user just add Text area to meet requirement. Text support left turn $\$ right turn $\$ rotation of 90° $\$ 180° $\$ 270° and Excel etc. add areas $\$ add background $\$ support special effects.

Procedure: reference 4.1 and 4.2 content, setting up screen----program; Click Text (Free setting coordinate length width)

HD2018						- 0	×
File(F) Settings(S) Operation(O) Tools(T)	Language(L) Help(H)						
📃 Program 🔛 HyperText 🛄 Text 📦	3D Text 🔁 Animation	🚺 Excel 🕖 Time	Ount 🚦 Digit	Temp+Humi 🔥 Pray	🔁 Weather		
🛛 🚫 Adjust Time 🛛 🚪 U Disk 🛛 🎬 Preview 🛛	😂 Send						
🕞 🖳 📄 🔼 💟 🔀 🔍 🔍 Screen1: 2	256 X 96 Single Color No gra	ylevel - Program1			Info Wir	ndow	▼ ‡ ×
⊟-53 Group1					Info	On-line	
Screen1					Sequ	Device name	Card
					1.		
Text1							
					1		
				02			
0 0		🕗 💠 🔺 1/	1 🕨 🏶		<		>
Region Position			Arial	~ 45 ~		Table 🔸	
Origin X	and Foreground Colorful word	d Border Additional set	tings->>		<u>U</u> 0 📮 1		
0 Continuous ma	Display Static	Display St	atic		The second se		-
Origin Y	Move Right	Random			COMI		- 53
	Move Up Move Down	Speed					
Width	Cover Left Cover Right	10	~				
256	Cover Up	Stop over					
Height Multiple effect	Vertically open from mide		~				
96	Close up and down	Clear Imm	ediately				

HD2018 software edit function is strong, even if modify single character. Editing right and left centered, up and down centered, word space, Line Spacing.

5.2 Add HypterText of Photos, Gifs etc.

If user show logo or picture on display (Format only support JPG $\$ BMP $\$ PNG $\$ GIF). The setting procedure as bellow.

Procedure: reference 4.1 and 4.2 content, Setting screen----program; Click subtitle "HyperText", you can set coordinate, length, width.

ile(F) Settings(S) Operation(O) Tools(T) Language(L) Help(H)		
🔄 Program 🔝 HyperText 🔲 Text 😝 3D Text 💦 Animation 🔹 Excel 🕖 Time 🙋 Count 👫 Digit 🚺 Temp+Humi 🚶 Pr	ay 🞦 Weather	
🕉 Adjust Time 🧧 U Disk 🔐 Preview 📀 Send		
🕒 🗈 🔀 🖾 🗶 O. Screen 1: 256 X 96 Dual Color No graylevel - Program 1	Info Window	– ą
G Group1	Info On-line	
	Sequ Device name	Car
	<	
File Background Border		
File 🙆 Edit No. Type Name		
igin Y		
rgm Y		
igh Y 😵 Animetion 😵 Delete		
rgm Y		

Picture can edit multiple picture, only picture can make it. 24/43

Supporting add new video、Excel、Animated characters, SWF,GIF, and image-text.

5.3 Animated characters

1)Refer to 4.1 and 4.2 content, and set up Screen----Program-animated character; Or click subtitle Animated characters

2)Animated characters can set effect, image background, and also support area background overlapping showing. Also in Additional setting, it has Hollow and Stroke effects

		σ×
HD2018	-	
File(F) Settings(S) Operation(O) Tools(T) Language(L) Help(H)		
🔋 📴 Program 🔝 HyperText 🚺 Text 😝 3D Text 💦 Animation 🕲 Excel 🙋 Time 🙋 Count 👫 Digit 🚺 Temp+Humi 🗼 Pray 🞦	Weather	
🚱 Adjust Time 🛛 📋 U Disk 🔐 Preview 📀 Send		
🗣 🖵 🗈 🥆 💟 🗙 💙 🝳 💦 Screen1: 256 X 96. Single Color No graylevel - Program1	Info Window	▼ ‡ ×
Group1	Info On-line	
	Sequ Device nam	ne Card
e-u Screen1 e-⊠ Program1 ODay0Hour00Minut		
G Count1		
- 🚺 Text1		
Arimation 2018/07/05 Thu WELCOME		
	<	>
Region Position Effect Image 현유전 Hond Border Additional settings Arial ~ 40 ~ 대학		
Origin X Display Static Osingle effects Play Times R II = =		
U Sine ward not belong OMultiple effects 5		
Origin Y Left to fly into		
Stop over Background speed		
128 Verbatim output 3 sec		
Swing around		
Height Elasticity text 30		

5.4 Excel showing

In display, it can show Excel sheet. Reference 4.1 and 4.2 content, and set up Screen----Program; Click subtitle choose Excel, appear animated characters area (Freely setting coordinate length width) For Excel showing, it need install the full version of Microsoft, then Loading can be

properly. It can be Horizontal screen-shots and Vertical screen-shots.

нD2018													×
File(F) Settings(S) Operation					_			1200	_	1111			
Program 🚺 HyperText	Text	3D Text		Excel	O Time	Count	BB Digit	Temp+Humi	A Pray	🞦 Weat	her		
Adjust Time 📕 U Disk	Preview	w 🜔 Send											
	Scree	n1: 256 X 96	Dual Color No gra	aylevel - Pro	gram1						Info Win		▼ ↓ ×
Group1										Ž	Sequ	On-line Device name	Card
Excel1		B											
		D											
						3							
	0	0 0	6 9 0	0 🚸	1	/1	*				<		
Region Position	1-				1						٤	-	>
Origin X	File Eff	ect Backgroun	d Border Additio	nal settings-:	>>								
0 Origin Y 0 Width 256 Height	C:\Users\p	c\Desktop\新建	t XLSX 工作表.xlsx		Add								
96													

HD2018 LED Control Card Operation manual

5.5 Time showing (Calendar time and dial plate)

Reference 4.1 and 4.2 content, and set up Screen----Program click Time area Or Click subtitle time, appear time region (Free setting coordinate length width) it is easier setting, as picture:

HD2018								- 0	×
File(F) Settings(S) Operation									
📃 Program 🛛 🔂 HyperText	🛄 Text 📦 3D Text	🛞 Animation 🛛 🚺 Excel	🕖 Time 🔯 Count	BB Digit	Temp+Humi	🔥 Pray [Weather		
🛛 🚫 Adjust Time 🛛 🗧 U Disk	🔐 Preview 📀 Send								
🔁 🔁 🗈 🔼 🔛 🔍 🔍	Screen1: 256 X 96 D	ual Color No graylevel - P					Info Win		▼ # ×
🖃 🐻 Group1	2018/07/05						/Info/C	1	
Creent	Thursday 12:52:13	2018/07/09 Thursday	4 1/1				3640	Device name	Card
Region Position				-			<		>
Origin X	O Digital Clock	Dial Style Time Settin	95 Background Border						
128	Dial Clock	Date		Fixed text					
Origin Y		YYYY/MM/DD	~		1				
0	Time lag	х 🛛 🜩 ү	0 🗘 🗛	x 0 🔅	Y O	Aa			
Width	0 v Hour	Week		AM PM					
128		Monday	~						
Height 96	0 ~ Min	X 0 🕈 Y	15 🗧 🗛	x 0	\$ ү 12 🗘	Aa			

5.6 Count up and count down

1). Showing count up and count down, or use button count up and count down. Refer to 4.1 and 4.2 content, Add Screen->Program-Count;

2). Click subtitle timing, appear Count area (Free setting coordinate $\$ length $\$ width) $_{26/43}$ Support circle Count, that is meaning Countdown been finished, then automatic reset and Starting again.

HD2018		- 0	×
File(F) Settings(S) Operation(O) Tools(T) Language(L) Help(H)			
🔋 📴 Program 🔛 HyperText 🔲 Text 😝 3D Text 😵 Animation 📲 Excel 🕖 Time 🙆 Count 👫 Digit 🚺 Temp+Humi 🚶 Pray 🔀 V	Veather		
💫 Adjust Time 📕 U Disk 🤐 Preview 🕥 Send			
😨 🕂 🕼 🔊 🗙 🗹 🔍 Screen1: 256 X 96 Dual Color No graylevel - Program1	Info Win	dow	₩ Ū X
B Group1 DDav0Hour00Minute00Second	Info	Dn-line	
Screen1	Sequ	Device name	Card
	_		
0 0 0 0 0 0 0 0 0 0 0			
Region Protion			
Parameter Settings Background Border Fixed text			
Timekeeping Mode Display Mode Aligning type Font			
Origin Y Idigit down ✓ English ✓ Flush Left ✓ Target Time HD_Font 15 ✓ B			
0 2018/ 7/ 5 r 18:03:48 Level stretch Vertical stretch			
Height X: 0 V: 0 V			

5.7 Digit showing

Showing digit number, mainly used in parking place etc. Reference 4.1 and 4.2 content, Set up Screen----Program-Digit. Clicking Digit, appeared Digit area as picture:

56 HD2018					- 0	×
File(F) Settings(S) Operation(O) Tools(T) Language(L)	Help(H)					
📃 Program 🔛 HyperText 🚺 Text 😝 3D Text	🛞 Animation 🛛 🔄 Excel 🕖 Time 🧧	Count 🔠 Digit 🚺	Temp+Humi 🔥 P	Pray 🔀 Weather		
🚫 Adjust Time 📋 U Disk 🎬 Preview 🔿 Send						
	ual Color No graylevel - P			Info Wir	adow	→ □ >
	dai color no grayiever - P				On-line	
international i				Sequ	,	Card
i 2						
) () () () () (1/1	▶ \$				
Legion Position		•				
Region Position Parameter Settings Backgrou	nd Border Fixed text					
Region Position Parameter Settings Backgrow Origin X 0 The initial state	nd Border Fixed text Aligning type	Min	Image	for Min		
tegion Position Parameter Settings Backgrou Origin X 0 The initial state From Min To Max V	nd Border Fixed text Aligning type Flush Left	Min			Open	
Region Position Parameter Settings Badigrow Origin X The initial state Prom Min To Max V Origin Y Decimal digits V V	nd Border Fixed text Aligning type	Min 0 Max	Image Image		Open	
Region Position Origin X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nd Border Fixed text Aligning type Flush Left	Min			Open	
Region Position Origin X 0 Origin X 0 From Min To Max 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aligning type Flush Left Font HD_Font V 35 V B	Min 0 Max		for Max		
Region Position Parameter Settings Backgrou Origin X 0 The initial state Origin Y 0 From Min To Max 0 0 Decimal digits Width 0 Image: Comparison of the state of t	nd Border Fixed text Aligning type Flush Left Font	Min 0 0 Max 999		for Max	Open	

The initial state is from Max to Min, or from Min to Max. it can add the minimum and maximum values picture. The largest value can set to 9999999, decimal digits can set $\frac{27}{43}$

3 numbers.

5.8 temperature and humidity (need weld sensor)

LED display showing current environment temperature.
 Refer to 4.1 and 4.2 content, set up Screen----Program- Temp+ Humi; 2).
 Click Temp+ Humi, temperature and humidity have different sensor.
 Set in P5 on controller, the appendix shows details setting ways.

As picture:

HD2018		- 0	×
File[F] Settings(S) Operation(O) Tools(I) Language(L) Help(H)			
🔋 Program 🚨 HyperText 🔲 Text 📦 3D Text 🛞 Animation 📲 Excel 🔘 Time 🔯 Count 🔡 Digit [] Temp+Humi 🗼 Pray 💈	Weather		
🛞 Adjust Time 📲 U Disk 🥁 Preview 📀 Send			
🖶 🖳 🔄 🔀 🔽 📿 🧿 Screen1: 256 X 96 Dual Color No graylevel - P	Info Win	dow	▼ ‡ X
B-55 Group1	Info	On-line	
Errop 16°C	Sequ	Device name	Card
Humidity 80%			_
			_
			_
			_
	۲		>
Region Position Hardware Settings O temp Temp+Humi Background Border			
Origin X Onexa 5 mano Internet Unternet			
U Lemma Le			
Origin Y HD_Font V 15	∽ В		
Level stretch Vertical s	stretch		
	*		
256 Temperature Correction Humidity Calibration			
96			

5.9 pray showing

Showing Pray, mainly used in parking place etc. Reference 4.1 and 4.2 content, Set up Screen----Program-Pray. Clicking Pray, appeared Pray area as picture:

HD2018 LED Control Card Operation manual

File(F) Settings(S) Operati	ion(O) Tools(T)	Language(L) Help(H)									
📃 Program 🛛 🔀 HyperText	t 🛄 Text 🚺	3D Text	Animation	Excel	🕖 Time	Count	BB Digit	Temp+Hur	ni 🔥 Pray	🔀 Weather		
🚫 Adjust Time 🛛 📋 U Disk	c 🎬 Preview	C Send										
- - - - - - - - - - - - - - - - - - -	Screent	: 256 X 96	Dual Color No gra	iylevel - P						Info \	Vindow	★ û ×
🖃 🚮 Group1	Shubuh	04:06								/ Info	On-line	
Screen1	Maghrib	16:58 20:31 22:11								Sequ	J Device name	Card
Region Position			00	0 *		10 🕨 (8			K		>
Region Position	Basic Settings	Border		0 *			2	tv		K	_	>
			S S S Maghrib Maghrib	3 💠		Country	c	ky Feheran V	Edit			>
Origin X	Basic Settings		Maghrib	•			c	Ry Teheran V	Edit Up	dates	_	>
Origin X	Basic Settings		Maghrib Maghrib	•	•	Country Iran	c	Teheran V		dates		>
Origin X 0 Origin Y 0 Width	Basic Settings		✓ Maghrib Maghrib ✓ Isha	•		Country Iran Display Mode	- 		Edit Up	dates		>
Origin X 0 Origin Y 0	Basic Settings Imsak Imsak Fajr Shubuh		✓ Maghrib Maghrib ✓ Isha Tsya	•		Country Iran Display Mode 0 Aglinment	- 	Teheran V		dates		>
Origin X 0 Origin Y 0 Width	Basic Settings Imsak Imsak Fajr Shubuh Dhuhr		✓ Maghrib Maghrib ✓ Isha Tsya MidNight	•		Country Iran Display Mode 0	~ ~	Feneran V Font Arial V	12 V B	dates		>

Temporarily support four countries, showing the two modes 0 and 1.

5.10 weather showing

Showing Weather, mainly used in parking place etc.

Reference 4.1 and 4.2 content, Set up Screen----Program- Weather.

Clicking Pray, appeared Pray area as picture:

File(F) Settings(5) Operation(O) Tools(T) Language(L) Help(H)	
🔋 📴 Program 🖾 HyperText 🚺 Text 📦 3D Text 😥 Animation 💵 Excel 🙋 Time 🔯 Count 🔠 Digit 👫 Temp+Humi 🗼 Pray 🞦 Weather	
🐼 Adjust Time 🚦 U Disk 🎬 Preview 💿 Send	
🔄 🖵 🗈 🖉 🔀 🔽 🔍 Screen1: 256 X 96 Dual Color No graylevel - Program1 Info Window	★ ‡ ×
E-S Group1	
E Screen1 Screen1 Sequ Device name	Card
2018/07/05	
Cloudy	
Strong gale Northeast Wind	
P M2.5/92	
	>
Region Position Parameter setungs Background Border	
Origin X City Wind speed Country	
Spacing Font	
O O HD_Font IO B Width Ø <t< td=""><td></td></t<>	
256 Single-line display Level stretch Vertical stretch	
Height Unit 0 +	
96 • Offline Mode	

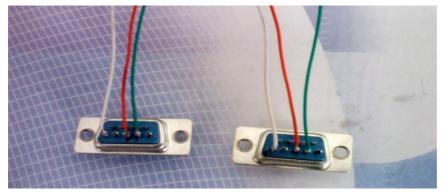
1. The controller will obtain the weather data every hour (directly from the server);

2.Currently, the online mode only supports the network port, and all the offline mode controllers support it (4.14).

Chapter 6 Communications setting

6.1 Making serial port cable

Our system use straightway RS232 line, finished line as follow:



6.2 Communication setting (serial port)

Serial port connection have two types: RS232 and RS485.

6.2.1 RS232 communication

1).After installed the driver successfully, HD2016 will found current device. Ours RS232 driver is HL340.

One computer can only connect one serial port card, after the software found device automatically, in File-screen parameter setting and choose current device name, then can send parameter and program. As picture show

Info Window	Info Window			
Info On-line	Info On-line			
>>>17:52:04: Scanned equipment	Device name	Card	Color	Size
>>>17:52:05: Get equipment Information	S61	S61	Single Co	256 x 32

2).If software can't find device, please click solution as picture show:

HD2018		
File(F) Settings(S)	Operation(O)	Tools(T) La
Program 🚺	HyperText 🚺	Text 🥃 :
🛛 🚫 Adjust Time	U Disk 🤗	Preview 🧲
🗗 🖵 🕞 🔤 🛯		Screen1: 25
⊟-🚼 Group1	\bigcirc	
🚊 😓 Screen1		
🛓 🔽 📄 Prog	ram1	

3). If user still not find device, please check cable problems.

If current information window notice "selected screen not binding equipment ", please into setting "screen parameter setting", select device name, as picture show:

Screen Parameter Settings	Hardware Settings			
Use hardware settings Device Name	Card Model		Color	
S61 💌	S61	*	Single Color	~
Width	Height		Gray Level	
256	32	\$	No graylevel	~

6.2.2 RS485 communication

1) Solution: 485 communication serial port connected, and it need 485 converter. Connection method as follow: Converter Positive pole (+) connected with control card square hole, Converter Negative pole (-) connected with control card on 485 in middle hole. (one 485 controller only supports one control card)

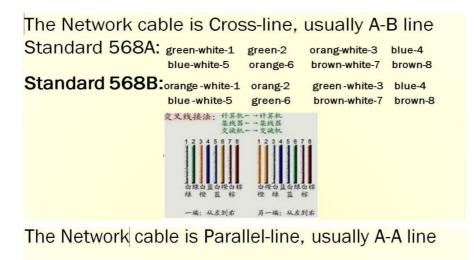


6.3 Making Network cablel

Standard 568A

1).Making Network cable have 2 ways: cross cable (control card connected with

computer directly) and parallel cable (control card connected with router)



直连线接法: 朵线器(交换机)的级进

orange-2

green-6

green-white-3 blue-4

brown-white-7 brown-8

orang-white1

blue-white-5

6.4 Communications setting(internet access)

6.4.1 LAN single card (HD-E63) communication

Method: No need any setting, stand-alone straightway connect control card, on information window will find device. As picture show:

Info Window	д 🔝	Info Win				д 🔝
Info On-line		1 Provide Land	On-line			
>>>18:16:19: Scanned equipment		Sequ	Device name	Card	Color	Size
>>>18:16:20: Get the device information.		1	E62_32	HD-E62	Dual Color	192 x 64

Note: If current information window notice "selected screen not binding device", please into setting-screen parameter setting, and selecting device name, as picture: 32/43

	gs(Parameter readback)	
evice Name	Card Model	Color
E62_32 ▼	HD-E62 -	Dual Color 🔻
idth	Height	Gray Level
.92	64	No graylevel 💌
512px aximum region:20	imum height:64	

6.4.2 LAN multiple Network card (such as HD-E63 cards)

1). After all controllers connected, you can modify the control card IP same with current LAN Network segment.

Click Operation-Device manage, revised the control card IP address and device name Note: after revised, and click settings

E62_32	A708FF1C-C557-49D8-6862-7982E58A395E
Communication	
	MAC Address
Ethernet	60-00-00-04-FB-1C
Automatically get IP	Subnet Mask
192 . 168 . 2 . 200	255 , 255 , 255 , 0
Default Gateway	
192 . 168 . 2 . 1	
Time Switch Time	e Settings Brightness Settings
Clear Displayed Data Rebo	oot Screen Open Screen
Screen Test Q	R code
	192 168 2 200 Default Gateway 192 168 2 1 Time Switch Time Switch Time Clear Displayed Data Rebot

6.5 Communication setting (WIFI Wireless controller)

6.5.1 If Only 1 WIFI Controllerr connected

1) If only 1PCS WIFI Card connected, first connected the WIFI signal of the controller as below (The WIFI signal come out automatically)



2) The WIFI default password ""888888888", in HD2016, no need written password Showing as below, Click "LINK", and connect automatically by password 88888888, also password can change.

If current WIFI of SSID showing "{}",for example {W64_26882}, then only check the WIFI Password in HD2018 software.

thernet Wifi Advanced Settings		
Wifi	Signal Quality	Connection Status
W60_245842	94%	Disconnected
W64_519738	76%	Connected
Display only control card Wi-Fi	Password 88	38888888 Link

3)After connected the WIFI, in software it can find the device. Showing as below: came out the device name information

4) In setting-> screen parameter settings, selected the current device, and send.

📕 Use hardware settings	Parameter readback)	
levice Name	Card Model	Color
₩64_519738 ▼	(HD-\64 -	Single Color 👻
Width	Height	Gray Level
384	96	No graylevel 🔻
Device Name: W64_519738 Device ID: B721FFA5-DEF5 Maximum range:Single Cold	-94CO-AA7E-268376A8CB4E r->256*1024px Dual Color->	

Note: If Current display work good, no need go to Hardware settings If Current display showing abnormal, click Setting- Hardware setting

(For common display, just click Setting-Hardware setting-Commonly smart; For uncommon display, it can click Setting- Hardware setting-Additional settings –Smart setting)

Commonly Smart	[C6]P10 1R	/1R1G 1/4S HUB12	2 32X16 (P10) [A8] 🔻 🚺	Device name
				W64_519738
Data Polarity	Low Enable	▼ OE Polarity	High Enable 🔹 🔻	
		_		Import
Memory	8M	•		Export
				Button settings
				Smart Setting
				🔲 Additional sett
Color channel	-			
P10	5 🖱 Ф5 🦱 M1	O (Colorful)		

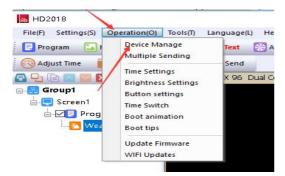
6.5.2 Change Wi-Fi ssid and password ;More than 1 Wi-Ficards

Connected

Multi Wi-Fi cards connected, it need each card connected the Remote Router. Meaning it need a Router. The operation ways as below

1).The PC recognized the Wi-Fi signal automatically, and operation reference above One Wi-Fi card.

2).Change Wi-Fi ssid and password.



	Device name		Device ID		Wi-Fi Setting	
V64_519738	W64_519738	8	B721FFA5-DEF5-94C0-AA7E-268376A8C	34E	ApMode	
	Communication		MAC Address		Wi-Fi	W64_519738
	Ethernet		FF-FF-FF-FF-FF		Password	88888888
	Automatically get IP		Subnet Mask		E P	192 . 168 . 4 . 1
	192 . 168 . 4 .	1	255 . 255 . 255 . 255		Subnet Mask	255 . 255 . 255 . 0
	Default Gateway	192 . 168 . 4 . 1 Default Gateway			Only allow input 0^	~9 a~z A~Z _
	255 . 255 . 255 . 2	255				
				_	StationMode	
	Time Switch	Time S	ttings Brightness Setting	,	Wi-Fi	
	Clear Displayed Data	Reboot	Screen Open Scree	n	Password	
	Screen Test	QR	ode 🔰 📜 📜 Wi-Fi Setting			

3). The Wi-Fi card connected the Remote Router, the ways as below

	Device name	Device ID	Wi-Fi Setting	
/62_535682 /60_245842	W62_535682	CE6CFF1D-F2F3-855E-A15C-241DB7902B83	ApMode	
W64_519738	Communication	Communication MAC Address		
	Ethernet	FF-FF-FF-FF-FF	Password	88888888
	Automatically get IP	Subnet Mask	IP	192 . 168 . 4 . 1
	172 . 16 . 1 . 166	255 . 255 . 255 . 255	🔲 Subnet Mask	255 , 255 , 255 , 0
	Default Gateway		Only allow input 0/	~9 a~z A~Z _
	255 , 255 , 255 , 255			
			StationMode	
	Time Switch Time	Settings Brightness Settings	Wi-Fi	Tech-WiFi
		ot Screen Open Screen	Password	Huidutech123
	Screen Test Of	R code Wi-Fi Setting		ConnectOK
	Dureen resu			

4).The PC connected the Wi-Fi signal, and open HD2016 Software, it can find All the Wi-Fi cards.

Info	On-line			
Sequ	Device name	Card	Color	Size
1	W62_535682	HD-W62	Single Co	64 x 32
2	W60_245842	HD-W60	Single Co	160 x 32
3	W64_519738	HD-W64	Single Co	384 x 96

6.6 U-disk Controller operation

U-disk controller no need install lines, and is convenient.

Note: First time use U-disk Controller to Export program, it need select the "export the parameters"

For example P10 Single color module

1) Open HD2018 software, click File-New screen -screen parameter settings .Setting the Width、 Height、 Color、 Gray level etc.

creen Settings Hardware S		
Use hardware settings() Device Name	'arameter readback) Card Model	Color
Device Name Default 👻	Card model	Single Color
Width	Height	Gray Level
256	128	No graylevel -
Device Name: Default Device ID: 00000000-0000- Maximum range:Single Color		

2) Hardware setting parameter

Note: If current display showing normal, no need this step.

Commonly Smart	[C6]P10	1R/1R1G 1/4S HUB12	32X16 (P10) [A8] 👻	Device name
Data Polarity Memory	Low Enable	• OE Polarity	High Enable 👻	Import Export Button settings Smart Setting Additional setti
Color channel	-			

3) Then add program of text, Hypertext, Animated character, Excel, Time etc. Click U-disk to export program.

Note: First time use U-disk Controller to Export program, it need select the "export the parameters".

Removable Device(E:)	•	Loca	al Disk		
Total Space: Free Space: Screen2 Module: HD-U64 Width: 256Height: 128 Color: Single Color Gray Level: 1	7.44GB 6.89GB				
Data Polarity: Low Enat OE Polarity: High Enabl File Size: 0.67 KB					1
	•	1/17 👻	14:46:01	A V	Get sistem time

Next time for showing normal, no need select

Appendix 2 The normal setting in using period

Appendix 2.1 Controller updated firmware ways

Updated firmware mainly used when problem occur. The updated ways as below:

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1) Download firmware of .bin file (each controller have .bin file)

2) Click Operation-update firmware (Password 168), select the .bin file.

3) Updated firmware by RS232 or 485or LAN,

U-disk controller updated by U-disk (Putting the firmware to U-disk and insert to controller, like updated program)

Note: In update period, the display can't power off and can't pull out the RS232 Line or LAN Lines

Device Name W64_519738 🔻	Card Model HD-W64	🔲 Update	are information by U-disk	
		No.	Version	
			HDV4.10	
		1 2	HDV4.10	E
		3	HDV4.11	
		4	HDV4.13	
				•
Get firmware version	pdate Firmware	Imp	ort File Ex	port File

Appendix 2.2 How to renew to factory setting

There have 2 ways (hardware renew and software renew)

Hardware renew: power off the electronic- Press the TEST Button and at the same time power on the electronic, hold on 6 seconds and no loose —Then loose the button –The controller renew the factory setting.

Software renew: Operation-clear display data(Note: This step need communication well)

Appendix 2.3 How to test display

There have 2 ways (hardware test and software test) Hardware test: when adjust the display working normal-- press the TEST Button (the electronic need power on) and hold on 6 seconds --when into testing status, then loose – Press 6 times and come out different 6 testing modes Software test: Operation-Screen Test.

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Program 🖪 Hyp	erText	Text 🖬 3D Text 🕅 Animati	on 🖬 Excel 🚺	Time 🐻 Count	SE Digit
ice Manage	-	0-			
/64_563572		Device name	Dev	ice ID	
/64_563572		W64_563572		B73CFFAC-645F-E30F-C0E7-533B7680041	
		Communication	MA	Address	
		Ethernet			
		Automatically get IP	Sub	net Mask	
Screen Test					
Scree	en Test		X	255 . 255 .	255 . 255
Scree			it test	255 . 255 .	255 . 255
Scree		Time Switch			255 . 255 ghtness Settings
Scree			it test	Bri	

Appendix 2.6 How to set Text static and no moving

🔆 🚫 Adjust Time 🛑 U Disk	Preview Send Screen1: 256 X 96 Dual Color No graylevel - Program1	Info Window 🗸 🕸
Screen1	SHENZHEN HD	Sequ Device name Ca
Region Position Origin X 0 Vrigin Y 0 Width 177 Height 96		

Ways: In Text-effect- select Display Static, the program page 1-1

Appendix 2.7 Text continue moving and no stop

In Program – Text - select Continuous move and End to end $\$ (Continuous move left or Continuous move right or Continuous move up) $\$.

If not select End to end, the text showing continuous after SPACE Key.

File(F) Settings(S) Operation(O) Tools(T) Language(L) Help(H)	
📃 Program 🔝 HyperText 🔲 Text 📦 3D Text 🛞 Animation 📱 Excel 🕖 Time 🔯 Count 🔡 Digit [Temp+Humi 🗼 Pray 💈 Weather	

egion Position Prigin X	Effect Background Foreground Colorful word Border Additional settings->>		Border Additional settings->>	Arial V 26 V Table ,		
0	Continuous move	Continuously Move Left	C End to end			
Origin Y				SHENZHEN HD COMPANY		
Width	Single effects	Continuously Move Right	Speed			
256		_	10 -			
Height 64	Multiple effects	Continuously Move Up				

Appendix 2.8 Temperature Temperature +Humidity sensor

1) Temperature +Humidity sensor

Weld place in P5. Red line connected Positive (+) of Square pin, Yellow line

connected Middle pin Black line connected the Third pin

Sensor



The Temperature+ Humidity parameter Type: AM2301 Working voltage: 4.2-5.2V Testing humidity range: 0-100%RH Testing temperature range: $-40-80^{\circ}$ C Testing humidity precision: $\pm 3\%$ RH Testing temperature precision: $\pm 0.5^{\circ}$ C

2) Setting in software of Temperature +humidity

(1)In Program- Temp+Humi, reference 5.9 of area setting

2) Setting the Temperature+ humidity parameter. It can set only show temperature or only humidity. One program only set up 1 area of Temp+Humi

(3) If Temperature and humidity not precisely , it can adjust by Correction (4) Support background and border

nperature • Temp+Humi	Parameter Settings Background Br	✓ Humidity	Font	
	Temperature:	Humidity:		15
C1	X: 0 + Y: 0 +	X:0 + Y: 15 +	HD_Font V	15 × B
	Unit	Unit	Level stretch	Vertical stretch
2002	°C 🗸	% ~	0	0
	Temperature Correction	Humidity Calibration		
	0 ~	0 ~		

2).Temperature sensor welding

1 Non-temperature sensor welding

Weld place in P5, and the sensor Round side direction to Battery of Positive (The Square Hole is Positive)



Type: DS18B20

Working voltage: 4.2-5.5V humidity range: -55--125 $^\circ\!\!C$ humidity precision: $\pm1\,^\circ\!\!C$

2 Waterproof sensor welding

Welding place in P5, the sensor red lines connected Positive (the square hole) The yellow lines connected in middle

The black lines connected in third



Type: DS18B20 Working voltage: 4.2-5.5V temperature range: -55--125 $^\circ \rm C$ temperature precision: $\pm 1 \, ^\circ \rm C$

③Setting Temperature in software

1. In Program- Temi+Humi- Temperature

2.Setting the temperature parameter: only one program setting 1 area of temperature

3.If Temperature showing not precisely, it can adjust by Correction

4.Support background and border

 ✓ Temperature	 Humidity 	Font		
Temperature:	Humidity:			
	0 4 15 4	HD_Font V	15 ~ B	
 X: 0 + Y: 0 +	χ:0 + Υ: 15			
 Unit	Unit	Level stretch	Vertical stretch	
°C ~	% *	0 +	0	
Temperature Correction	Humidity Calibration			
0 ~	0 ~			

Thank you for supporting HD

More details visit www.huidu.cn