# Chapter1 Summary

HDPlayer Software we promoting for Full Color door head display. It can remote display by long distance, play high definition video, picture and text etc. It is Asynchronous model system. The system include two main parts: HD-D10/D20/D30and software.

The core part it is controller HD-D10/D20/D30, it is responsible for setting up parameter and sending program. It play program Asynchronous.

The controller connected the display, it is responsible for receiving data and sending the date and showing program on the display

### 1. Hardware structure

Part Name	Part No	Function		
Full color controller	HD-D10/D20/D30	Asynchronous controller and store		
		program		
Software	HDPlayer	Screen set, create program, send		
		program		
Accessories		Hub, network cable, u disk		

## 2. Controller working system

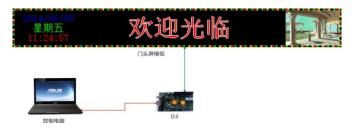
1) Cluster management

Note: The Network cable made by 568B



## 2) Direct management

Note: The Network cable made by 568B

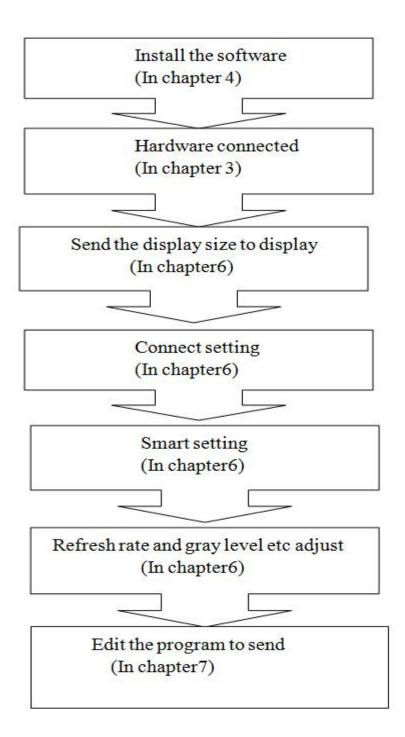


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## た度科技 HD-D10/D20/D30 Series Asynchronous operate manual Chapter 2 Adjust the display procedure

When first time use Sending controller HD-D10/D20/D30, it need use Network cable connect the display. When found the controller ID automatically, then set up the display parameter. Show as below



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# **Chapter 3 Hardware connect**

## 1. The Controller HD-D10/D20/D30 connect Hub

Using the HUB connected with HD-D3, like HUB08 etc



## 2. Network connected

- $\blacklozenge$  Direct to the pc by the network cable
- Also can connect with Router, then via Router connected PC
- ◆ Network cable use the 568B

The 2 network port can be change of Receiving card

## 4. The power charger

- The power charger voltage it is 4V-5.5V
- when power on, the "POWER" is bright, "RUN" and "DISPLAY" is flicker.

## た度科技 HD-A60X Series Asynchronous-Synchronous operate manual Chapter 4 Network setting

The controller HD-D10/D20/D30 series can connect computer directly, also can via Router connected computer.

When connected with computer, the network port(The Green light always flicker, the green light bright),-----then wait for few seconds (Windows XP more than 10Seconds, Window7 less than 10Seconds).-----When the right corner of computer show Network normal (see below), it means it have been connected of network, -----then open the software HDPlayer, it will find the controller ID automatically.

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	сн 🔄 🗴 🗑 🚔 🐣 🥵 🍡 🌆	
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	Play Set	
	Preserving the aspect ratio Play Times Volume 100%	1
	Playback progress 00:00:08	
	The use of transcoding	
	Transcoding Information	
	Progress 0% Start	Stop
砌设备: [Control]	er:A306-0123-45678]	

# **Chapter 5 The Hardware setting**

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- $1. \ {\rm Connection} \ {\rm setting}. \ {\rm Setting-Hardware} \ {\rm setting}- \ {\rm Connection} \ {\rm setting}$ 
  - 1) Select the controller ID

ardware Setting		🕑 硬件设置
Cord Parameter Connection Settings Receive card param	neters	设备ID A602-1465-189988 V 刷新
Screen information	-Detection receiver card-	
Device Name 📃 Rename	Detection	友氏74602-1405-48989 授权卡参数 4603-0414-48888
Send Card Mode 🛛 🖌 Asynchronous ARM mode 🗸		na 13-7878-A7777
NIC mode		
Brightness Unknown		标儿4603-0001-00001

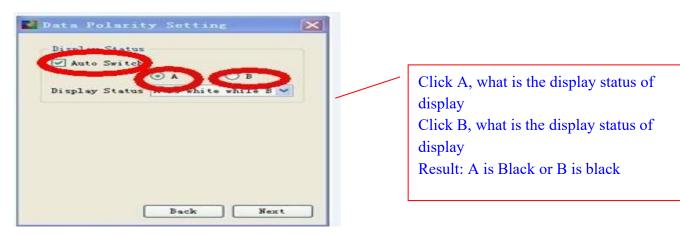
2) Receive card parameter: Click Smart setting.

First time using this controller HD-D10/D20/D30series, it need Smart setting at first.

1). Click Smart setting, then into basic information.

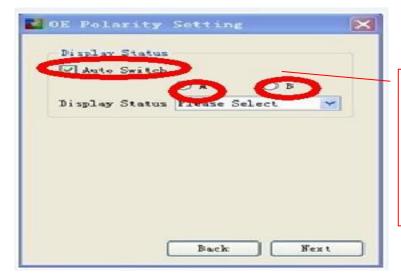
Screen Type <ul> <li>Single And Double</li> </ul>	
Full Color	
Module Information	
midth 16	One led module pixel of width
If a Single Module's Width Greater than 32, Please Select 32!	

2) Click Next, then into Data Polarity setting



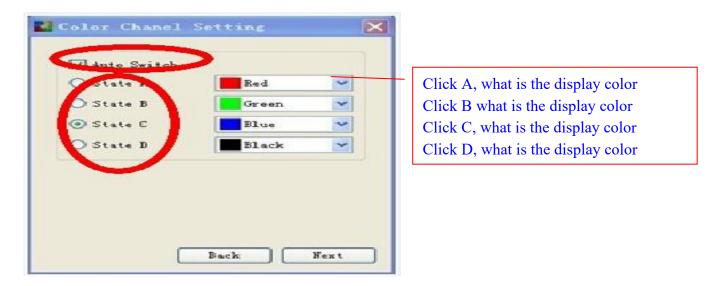
## 3) Click Next , then into Data Polarity setting

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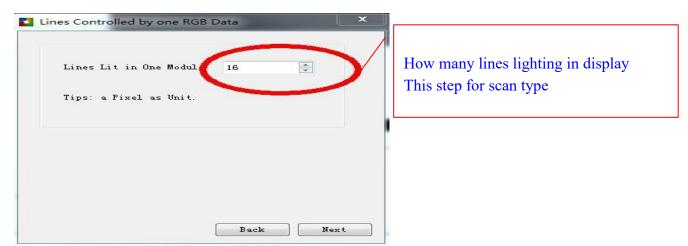


Click A, what is the display status of
display
Click B, what is the display status of
display
Result: A is Brighter than B
Or B is Brighter than A

4) Click Next, then into Color channel setting.

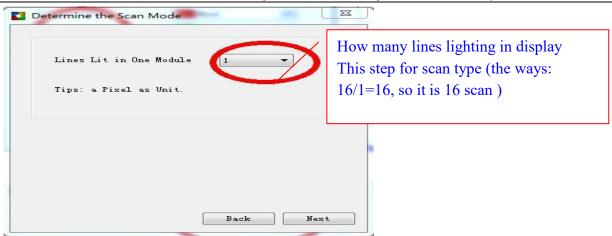


5) Click Next, then into Line controlled by One RGB Data



6) Click Next, then it into display scan types

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Like this led module from right corner of first module

(First flicker led from 16th lines of first light)

User can use key  $\leftarrow \rightarrow$  to move



7) The last step, Into Alignment description

Left-click tracing point, you can use the arrow keys to control point toward. Undo Reset	Send
1       2       3       4       5       6       7       8       9       10       14       12       13       14       15       16         1       1       1       1       1       12       13       14       15       16         2       1       1       1       1       1       12       13       14       15       16         3       1 </th <th>According to the Top Right corner of the first led display module, the bright light flicker (in the first led module), then click this place on the Alignment description</th>	According to the Top Right corner of the first led display module, the bright light flicker (in the first led module), then click this place on the Alignment description
13	
14	
16	

The last step display showing

		科 CHNOL	技 DGYH	ID-	-A6	50)	x s	eri	ies	As	yn	ch	ror	าอเ	us-Syno	chronous operate manual
描点							_								×	
提示信息										退一步			e空		发送	
提示信息	2	3	4	5	6	7	8	9	10	11	12	13	14			
提示信息	2 2 18	3 3 19	4 4 20	5 5 21	6 6 22	7 7 23	8 8 24	9 9 25								
提示信息 1 1 1	2	3	4	5	6	7	8	9	10	11 11	12 12	13 13	14 14	1	发送	ment successfully, it show like
提示信息 1 1 1 2 17	2 18	3 19	4 20	5 21	6 22	7 23	8 24	9 25	10 10 26	11 11 27	12 12 28	13 13 29	14 14 30	1 3	发送	ment successfully, it show like
提示信息 1 1 2 17 3 33	2 18 34	3 19 35	4 20 36	5 21 37	6 22 38	7 23 39	8 24 40	9 25 41	10 10 26 42	11 11 27 43	12 12 28 44	13 13 29 45	14 14 30 46	1 3 4	<sup>波送</sup> If Align	
提示信息 1 1 2 17 3 33 4 49	2 18 34 50 66 82	3 19 35 51 67 83	4 20 36 52 68 84	5 21 37 53 69 85	6 22 38 54 70	7 23 39 55 71	8 24 40 56 72	9 25 41 57	10 10 26 42 58	11 11 27 43 59	12 12 28 44 60 76 92	13 13 29 45 61 77 93	14 14 30 46 62 78 94	1 3 4 6 7 9	☆送 If Align this and	saved file.(Next time if have
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提示信息 1 1 2 17 3 33 4 49 5 65 6 81 7 97 8 113	2 18 34 50 66 82 98 114	3 19 35 51 67 83 99 115	4 20 36 52 68 84 100 116	5 21 37 53 69 85 101 117	6 22 38 54 70	7 23 39 55 71	8 24 40 56 72	9 25 41 57 73	10 10 26 42 58	11 11 27 43 59	12 12 28 44 60 76 92 108 124	13 13 29 45 61 77 93 109 125	14 14 30 46 62 78 94 110 126	1 3 6 7 9 1 1	★注述 If Align this and same lead	saved file.(Next time if have d display, do not need set again,
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提示信息 1 1 2 17 3 33 4 49 5 65 6 81 7 97 8 113 9 129 10 145	2 18 34 50 66 82 98 114 130 146	3 19 35 51 67 83 99 115 131 147	4 20 36 52 68 84 100 116 132 148	5 21 37 53 69 85 101 117 133 149	6 22 38 54 70	7 23 39 55 71	8 24 40 56 72 3 (保存	9 25 41 57 73 30 文件	10 10 26 42 58	11 11 27 43 59	12 12 28 44 60 76 92 108 124 140 156	13 13 29 45 61 77 93 109 125 141 157	14 14 30 46 62 78 94 110 126 142 158	1 3 6 7 9 1 1 1 1 1	★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★	l saved file.(Next time if have d display, do not need set again, k Setting –Hardware setting
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## 4. Basic parameter

1) Refresh rate: The more highly refresh rate, the led display play more fluently. If lower

Than 100MHZ, the showing photo shake clearly. The Refresh rate calculate by computer, no need write by hand.

1) Refresh acceleration: It according to Refresh rate and add it by proportional.

For example, the fresh rate 120, the acceleration it is 2; if change to 4, the fresh rate 240MHZ.

### 2) Gray Level

The Gray Level is used to represent the color richness. More higher more better. Gray level256,512, 1024, 2048, 4096, 8192, 16384, 32768, 65536 etc. Usually set 4096 or 8092

The gray level is inversely proportional to the longest width of led display The gray level is proportional to luminance efficiency

3) Brightness level : Usually Low light, normal and high light.

5) **Frequency:** It means the shift frequency of the scan program. Its range 3.125MHz-31.25MHz. it is better to set the frequency lower than 25MHz.Because most LED screen driver ICs is lower than 25MHz.

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### 4) Priority Mode

•Brightness Priority: Protecting the brightness lost less, then do refresh acceleration, usually used for outdoor display require high brightness.

◆Refresh Priority: In this mode, it will sacrifice about20% brightness efficiency. It can update Frequency clearly. Usually used for indoor display.

◆ Gray level Priority : If for lower brightness requirement, it can select this mode. Usually used for indoor led display.

#### 5) Output mode

◆Normal output: For ordinary HUB type.

◆ Two separate output: For sacrifice half control height to increase 1 times control width (Refresh rate and brightness no change)

◆Four separate output: For sacrifice 3/4 control height to increase 4 times control width (Refresh rate and brightness no change)

Note: Two separate output and Four separate output can not use together with Extension board

**6) Gamma:** The Gamma represent the contrast degree between light and dark. The higher data the higher contrast. The range 1.0-6.0 and usually set 2.8

7) Display calibration: For color correction (Red,Green,Blue)

8) Use Expansion board: For sacrifice half control height to increase 1 times control width

(Refresh rate and brightness no change)

- 9) Use20 Groups of RGB: Just used for specified HUB, Like HUB75(20 Height)
- 10) 138 Decoder: According to led module, whether use 138 decoder.
- 11) Data Polarity: Two types of High effective and low effective .If in high effective, the LED

light will be lighten up, and shut down with low effective

12) OE Polarity: The OE Polarity with same features as Data Polarity.

13) Phase: The relative time relationship between moving clock and moving data.

If showing photo have flicker or dislocation, adjust this parameter it can eliminate

**14) Duty cycle:** The moving clock of duty cycle. If change this data, it can increase the scanning moving clock, usually set 50%

**15) Blank lines:** When refresh rate high, it could result showing afterglow, adjust this data it can decrease affect, but can not eliminate. It used for scan modules, for static module it is useless

16) Luminance efficiency: The higher and the more brighter, usually set 85%

# The Chapter 6 Edit program

#### <u>茨度科技</u> HD-A60X Series Asynchronous-Synchronous operate manual

The software interface have 2 parts: Play window and edit program window

For Program window: Click File-New(screen)-Program-Frame-add video, photo etc

## 1. Software interface.

1) Play window (the program showing in the display) : User show programvideo, Pictures, Text, etc in the display

2) Edit program window: Menu ,Tool ,Structure and attribute



### Edit program window

B HDPlayer				
File Setting Control Languag	je Help			
Program 🗌 Franc	Video 🔼 Photo	Text - O Send	📹 To V-disk 🚺 😝 🌩	000
🔓 🏦 🕇 🕇 🗙	Area TOC	01	Frame	
Screen2	X O	<u>*</u>	🔲 Vse	
<ul> <li>Program1</li> <li>Frame1</li> </ul>	Y O		Effect Rotate	*
🖾 gee-720_2012	Width 32	Attribute 🖹	Speed 5	-
Penguins	Height 32	Attribute	Туре1	-
	Transparency	100% Du	ration 257.1	s

### 2. Screen structure

Screen: In first sequence. Decide the play contents in display. Each Screen relationship it is equal.
 In screen, it can add more Programs

Program Frame ◆ Program: In second sequence, and playing × (Per Screen2 By sequence Progra Frame1 ◆ Frame: In Third sequence, and it can add text1 Wildlife.avi more frame in one program F me4 Frame Plav text1 gram gee-720\_201 ◆ Play content: Last sequence. It can addPro -content text1 Video, Picture, Text, Etc Screen Frame3 ogram2 Frame1 3. Set up New screen Wildlife.avi Frame2 Desert Ways: Click File-New or use Ctrl+N n3 Program1 It can add more Screens in the structure; Frame1 if delete the screen, just right- click 10 / 16

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## 1) Set Play Window

Ways: Click Setting –screen setting (The width and Height it is led display size)

Device Type	D3	· · · · ·			
х	59		Y	32	\$
Width	512	-	Height	64	*
Suggested Range: Maximum width: 11 Maximum height:6 Storage capacity Gray scale: Supp Smart setting: E with a variety o Program updating network or U-dis:	024: 4; 5 128MB; ort 256 to asy to oper f modules; 5 Can be up	- 65,536: <sup>.</sup> ate, compati	ble		

2) Screen attribute: Set screen play time and all controller connected

💽 Program 🛛 🗔 Frame 🗖	🕽 Video 🛛 🖾 Photo 🗔 Text 👻 🧲	) Send 📷 To V-disl	< 1 ↔ €	► ○ ○
10 11 1 × ×	Screen Information	Time Switch		
	Path: Files/HDPlayer/work/Scree	n2.boo 📃 Use Time	Switch	
▲ Drogram1	Der ce Type: A601		rower On	Power Off
Frame1 text1	Screen Size: 640 * 480	Use	06:00:00	12:00:00
Wildlife.avi	Device Name ID	Use Use	13:00:00	20:00:00
4 🔲 Frame4		🗌 Use	00:00:00	00:00:00
gee-720_2012		Use Use	00:00:00	00:00:00
<ul> <li>Frame2 <ul> <li>Frame3</li> <li>Program2</li> <li>Frame1</li> <li>Frame2</li> <li>Program2</li> </ul> </li> <li>Screen3</li> <li>Program1 <ul> <li>Frame1</li> </ul> </li> </ul>				

## 3) Add program

Ways: Click file --screen -Program (First it need set up Screen file first )

ile Settina	Control Lang	uage Help										
Program	🗌 Frame	🛄 Video	The Photo	Text	- 6	Send 📹	To V-disk	1	$\leftrightarrow \Phi$	0	0	0
	6 1 J 1	Play Mode										

◆If delete program, click red"X" or right–click program

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- ◆ For program, when right –Click, it can rename, delete, add program, add frame, copy.
- ◆ For use frame(different meaning), it can add screen boarder effects
- For program attribute, user can add play mode and play time, background music, Effects It can set more background music.

HDPlayer				
File Setting Control Languag	ge Help			
💽 Program 🗌 🗖 Frame	Video 🎦 Photo	Text 👻 🜍 S	end 📹 To V-disk	
B B ↑ ↓ ×	Play Mode			
Screen2	Play times 1	🗧 🔿 Fixed length 🛛 00:0	0:30 🕂 Duration 30.0	S
Program2     Frame1		C.	kground	
Wildlife.avi	frame	Dac	kground	
▲ ☐ Frame2	Use Frame		Color	
🖾 Desert	Effect Rotati		Picture	
Screen3	Speed 5	T		
Program1 Frame1	Туре	1 - (fra	nsparency	100%
LI Framer	Background Music			
	File Pat	h Volum		Add
	rite rac	r vorum		
				Delete
				Down
				Up
	Playing Time			
	Monday	🔽 Tuesday	Vednesday	📝 Thursday
	Friday	📝 Saturday	📝 Sunday	
	Specified Time			
	00:00:00	23:59:59	(A) (V)	

## 3) Add Frame

Ways: File –Screen-Program-Frame (It need add Program first). In one program, it

can add more frame

B HDPlayer					23
File Setting Control anguag	e Help				
💽 Program 🔲 Frame	🛄 Video 🔝 Photo 🗌	🛛 Text 👻 💽 Send	📹 To V-disk 🗍	0 0	0
	Play Mode				
Screen2     Program2	🧿 Play times 1 🔹 🤇	Fixed length 00:00:30	Duration 30.0		s
▲ [CFrame1	Frame	Backgrou	nd		

- ◆ If delete Frame, click red"X" or right–click Frame
- ♦ For Frame, when right –Click, it can rename, delete, add program, add frame, copy
- ◆ For change Frame size, can use below ways
- (1) Set up X and Y coordinate
- (2) In Play window, moving the mouse to adjust
- 3 In the Tool, using



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B HDPlayer					ar 18		
File Setting Control Langua	age Help					1-1	
💽 Program 🗌 Frame	🛄 Video 🔼	Photo 📑 Text	🔹 📀 Send	🚮 To V-disl	c 1 •	→ 🕂 🛛 🔿	0 0
👌 🗈 🕈 🦊 🗙	Area			Frame		I,;	
🗉 💻 Screen2	x	0		🔲 Vse			
<ul> <li>Program2</li> <li>Frame1</li> </ul>	Ч	0		Effect Rota	ite		•
windlife.avi	Width	32		Speed 5			•
▲ ☐ Frame2	Height	32		Туре —	1		•
<ul> <li>Desert</li> <li>Screen3</li> <li>Program1</li> <li>Frame1</li> </ul>	Transparency		100% Dur:	ation	30.0	S	

## 4) Add video

Ways: Click File-Screen-Program-Frame-Video

HDPlayer le Setting Control Langua	ae Help				
Program		🚺 Text 👻 🚭 Send	🖆 To V-disk 🗍 🤱	⇔ ⊕ ⊙	0 0
🖻 🏚 🕇 🖊 🗙	File Path F·/每日完单/頂	视频/Wildlife.avi			
Screen2	Video Source Informatio	n			
<ul> <li>Program2</li> <li>Frame1</li> <li>Wildlife.avi</li> </ul>	Width 1280	Height 720	Time 00:00:0	30	
<ul> <li>▲ ☐ Frame2</li> <li>▲ ☐ Desert</li> </ul>	Play Set	t ratio		Play Times	1 🜩
Screen3	Volume			100%	
Program1 Frame1	Playback progress	ng	0	00:00:24	
	Transcoding Informati	10 T (			
	Progress		0%	Start	Stop

♦ If delete video, click red"X" or right-click Frame

◆For video, when right –Click, it can rename, delete, add video, add photo, add text, add Gif,add office, add clock, add time ,move down, copy.

♦ For video attribute,

(1)Play set(Preserving the aspect ratio): it meaning keep original video source width and height

②Playback progress: Time for play process

③The use of Transcoding: Whether use transcoder

## 5) Add Photo

Ways: Click File-Screen-Program-Frame-photo. (It need add Frame first). In one frame

it can add more photos.

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ile Setting Control Lang	uage Help				
💽 Program 🛛 📋 Frame	Tile Attribute	ext 🔻 🌍 Send 📹	To V-disk	⇔ ⊕ (	0 0
<ul> <li>Screen2</li> <li>Program2</li> <li>Frame1</li> </ul>	File Path C:\Users\Public\F	Pictures\Sample Pictures\C Height 768	hrysanthemum.jpg		hoos Aspect Natio
	Effect				
Chrysanthem.		•] [1		•	No Effect
Chrysanthem.		<ul> <li>▼ 1</li> <li>▼ 1</li> <li>↓ 0.1S</li> </ul>		•	No Effe Random

♦ If delete Photo, click red"X" or right–click photo

◆For photo, when right –Click, it can rename, delete, add video, add photo, add text, add Gif, add office, add clock, add time ,move down, copy.

◆For photo attribute,

1 Keep Aspect ratio: it meaning keep original photo source width and height

②Effect: it can add showing effects, like move left, right etc.

③Clear: when effect showing over, then showing the quit effects

# **Chapter 7 Program update**

After below steps, we finished to edit the program, and send the program to display.

The controller HD-D10/D20/D30 series support 2 types to send program (one by network , another by U-disk), also it support U-disk to expand memory limitless.

## 1 .Program by Sending and Cluster sending

1) When just one led display and one HD-D3 sending card, just click" Send" to

send program. Ways: Click Send.



2) When one screen file related to more sending cards, the screen file can send

to all controller( it meaning cluster sending)

When more screen files related to one sending card, the last screen file program can be instead before sending program.

工程名	设备关联	设备名	设备ID	刪那余		
□ 显示屏		Controller	A306-1402-A1001	冊彫余		
□ 显示屏2	2	BoxPlayer	A306-9876-54321	冊郎余		
☑ 显示屏1	3	Controller	A306-0123-45678	删除		
□ 显示屏2						

Ways: Click Control –Cluster sending or Click Send.

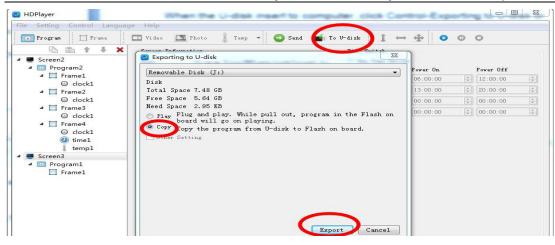
集群发送				39.00		
□ 显示屏	设备名	设备ID	进度	大小	状态	速度
□ 显示屏2	▲ 显示屏1					
✔ 显示屏1	BoxPlayer	A306-9876-54321		-	取消	
□ 显示屏2	Controller	A306-0123-45678			取消	

# 1. Program by U-disk to update(Copy)

Ways: When the U-disk insert to computer, click Control-Exporting to U-disk or Click To U-disk. Select Copy.

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(1) When Export the file by U-disk, then insert the U-disk to sending controller HD-A60X series,

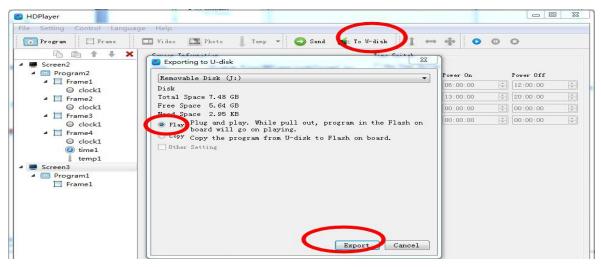
the controller will copy the U-disk program to the itself of Flash IC, the led display will show the process

2 After Copy finished, then pull out the U-disk, and the display showing the new program

(2) The sending controller HD-A60X series support more than 5m extension lines

## 2. U-Disk expand memory Limitless by Play

Ways: When the U-disk insert to computer, click Control-Exporting to U-disk or Click To U-disk. Select Play.



(1)When Export the file by U-disk, then insert the U-disk to sending controller HD-A60X series, the controller play the U-disk program( no need restart, plug and play). Using this wayIt can expand memory limitless.

<sup>(2)</sup>When sending program by network, it is sending to U-disk(it meaning can limitless expand according to your U-disk size)

③ The sending controller HD-A60X series support more than 5m extension lines