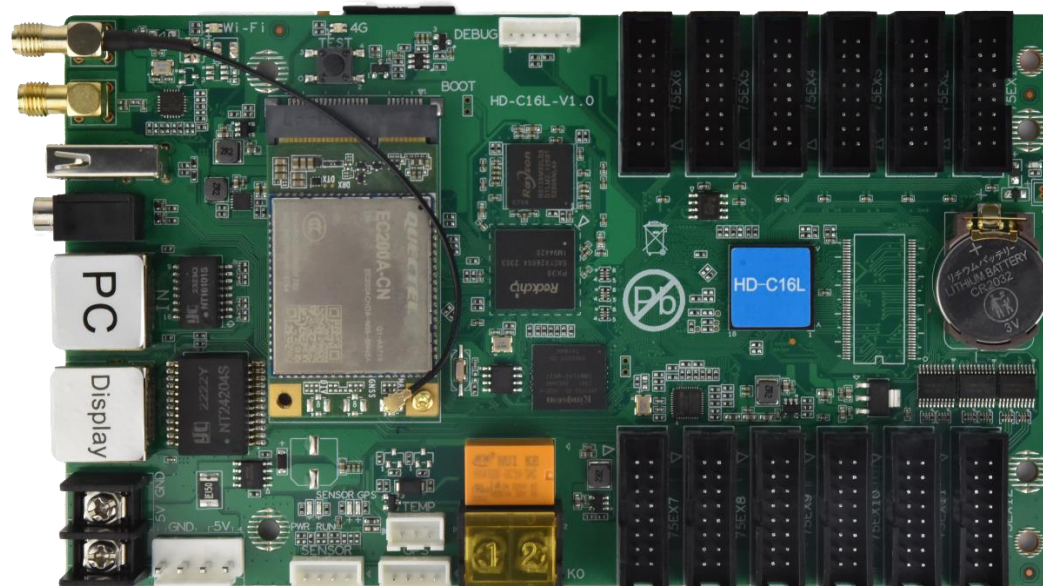


User Manual



HD-C16L

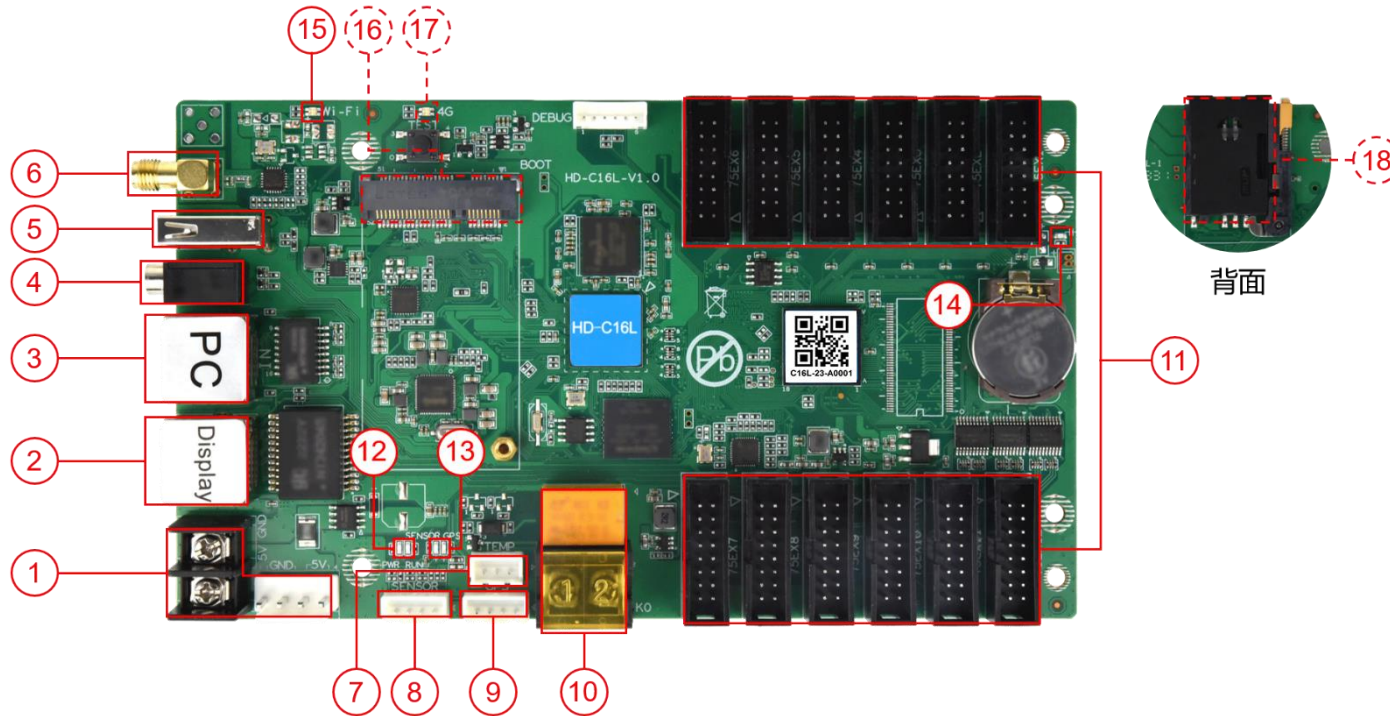
CONTENT

Chapter 1 Interface connection.....	3
Chapter 2 HDPlayer installation.....	11
Chapter 3 HD-C16L Parameter settings.....	13
3.1 Connection.....	13
3.2 Basic Setting.....	13
3.3 More setting	17
3.3.1 Device information.....	17
3.3.2 WiFi setting.....	19
3.3.3 Volume setting.....	20
3.3.4 Brightness setting.....	21
3.3.5 Time correction.....	25

3.3.6 Switch machines setting	27
3.3.7 Relay setting	28
3.3.8 Network setting	29
3.3.9 Device lock setting.....	30
Chaper 4 Async Program Editing and Publishing	31

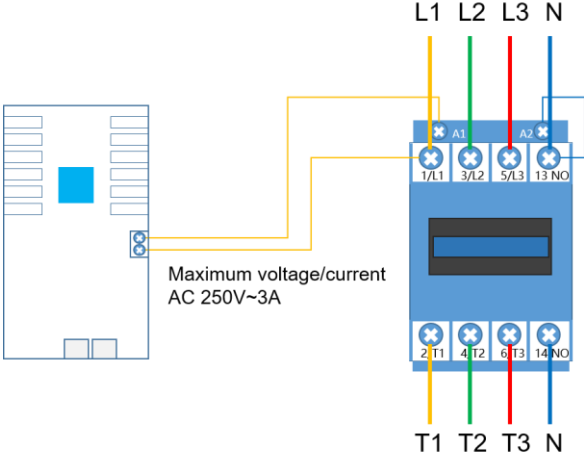
Chapter 1 Interface connection

1.1 HD-C16L Appearance and interface



Serial number	Name	Description
1	Power input terminal	DC 5V (4.6V~5.5V) 3A
2	Output network port	Gigabit output network port, cascaded with HD-R series receiving cards
3	Input network port	100M input network port communication, connect to computer to debug and publish programs, used to access LAN or Internet
4	Audio output	TRS 3.5mm standard two-channel audio output port
5	USB	Used to update programs or expand capacity
6	Wi-Fi antenna	Connect Wi-Fi antenna to enhance wireless signal
7	Temperature sensor	Connect a temperature sensor to monitor the surrounding

	dedicated interface	environment temperature in real time
8	Sensor interface	External temperature, humidity, brightness, wind speed, wind direction, noise, PM2.5, PM10, CO ₂ and other sensors
9	GPS interface	Connect to GPS module for positioning and time adjustment
10	Relay	Relay on/off, supports maximum load: AC 250V~3A or DC 30V-3A The connection method is as follows:

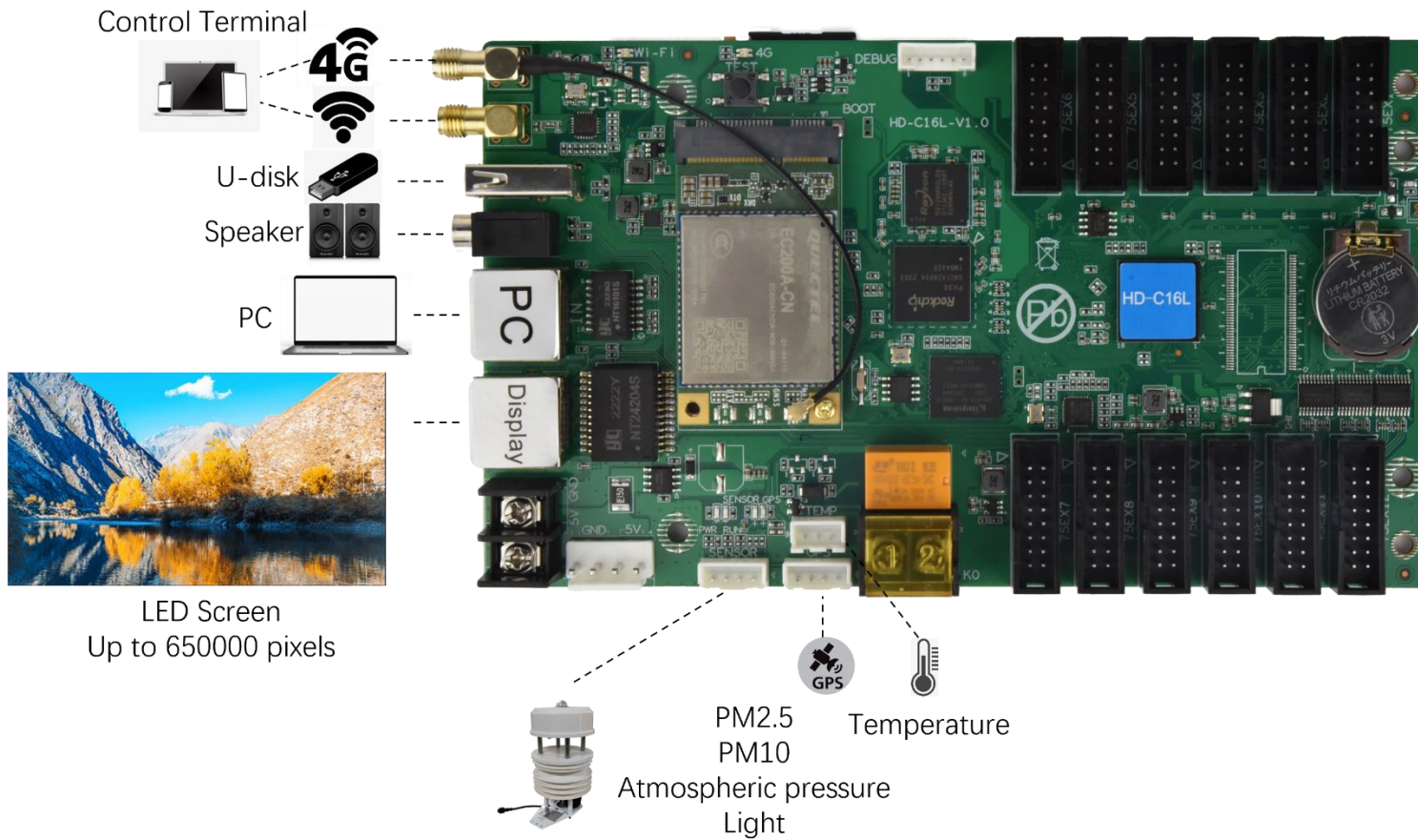
		
11	HUB75E interface	Connect HUB75 (B/D/E) interface module
12	System indicator light	<p>PWR: Power indicator light, green light is always on, power input is normal</p> <p>RUN: System running light. If the green light flashes, the system is running normally; if the green light is always on or off, the system is running abnormally.</p>

13-1	Sensor indicator light	<p>① When detecting that no sensor is connected, the light does not light up;</p> <p>② When detecting that a sensor is connected, the green light is always on.</p>
13-2	GPS indicator light	<p>① When detecting that there is no GPS signal, the light does not light up;</p> <p>② When the GPS star search number < 4, the green light flashes;</p> <p>③ When the GPS star search number ≥ 4, the green light is always on.</p>
14	Display indicator light	<p>If the green light flashes, the FPGA system is running normally; if the green light is on or off, the system is running abnormally.</p>

15	Wi-Fi indicator light	<p>AP mode:</p> <ul style="list-style-type: none"> ①The AP mode is normal and the green light flashes; ②The module cannot be detected and the light does not light up; ③Cannot connect to the hotspot and the red light flashes; <p>STA mode:</p> <ul style="list-style-type: none"> ①STA mode is normal and the green light is always on; ②The bridge cannot connect to the Wi-Fi hotspot and the red light is always on; ③Unable to connect to the server, the yellow light is always on.
16	PCIE-4G socket	4G module socket (optional function, installed with 4G antenna by default)

17	4G communication indicator light	<p>①The green light is always on, and the connection to the cloud server is successful;</p> <p>②The yellow light is always on and cannot connect to the cloud service;</p> <p>③The red light is always on, there is no signal or the SIM is in arrears or cannot dial;</p> <p>④The red light flashes and the SIM cannot be detected;</p> <p>⑤The light does not light up and the module cannot be detected.</p>
18	SIM card holder	Used to install 4G data card and provide networking function (optional, supports optional eSIM card)

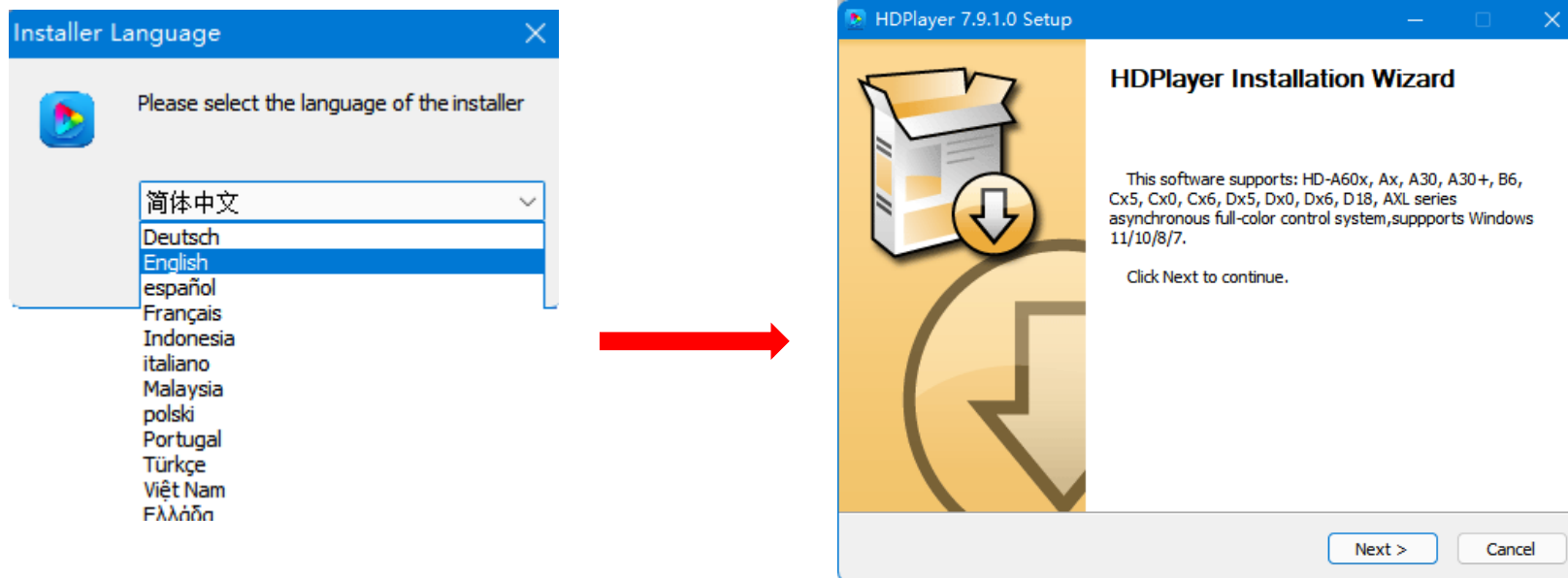
1.2 Hardware connection



Chapter 2 HDPlayer installation

Please download the installation package of HDPlayer software from Huidu's official website www.huidu.cn, and complete the installation according to the diagrams below:

1.Run the software package,then select language for installer. Click [OK] to go on.

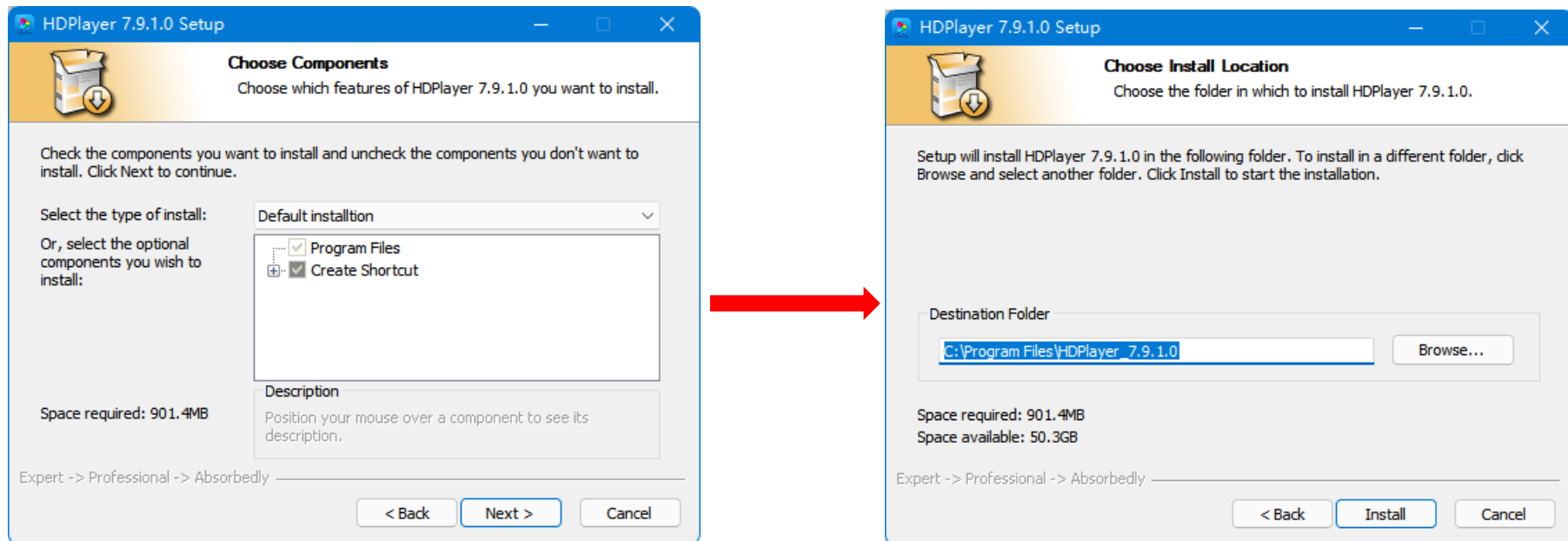


2. After selecting a language, an installation wizard like below will appear. Click [Next].

Choose components, default installation.

Choose the installation location, click [Browse] to change the default target location, then click [Install] after completing;

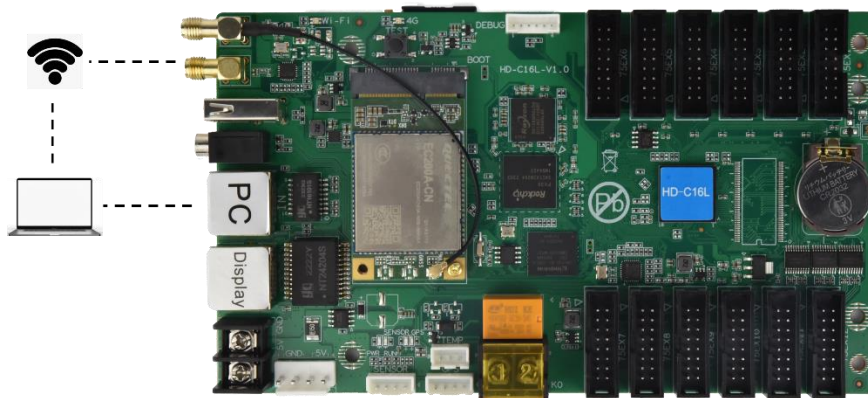
After the installation is complete, you are ready to use HDPlayer.



Chapter 3 HD-C16L Parameter settings

3.1 Connection

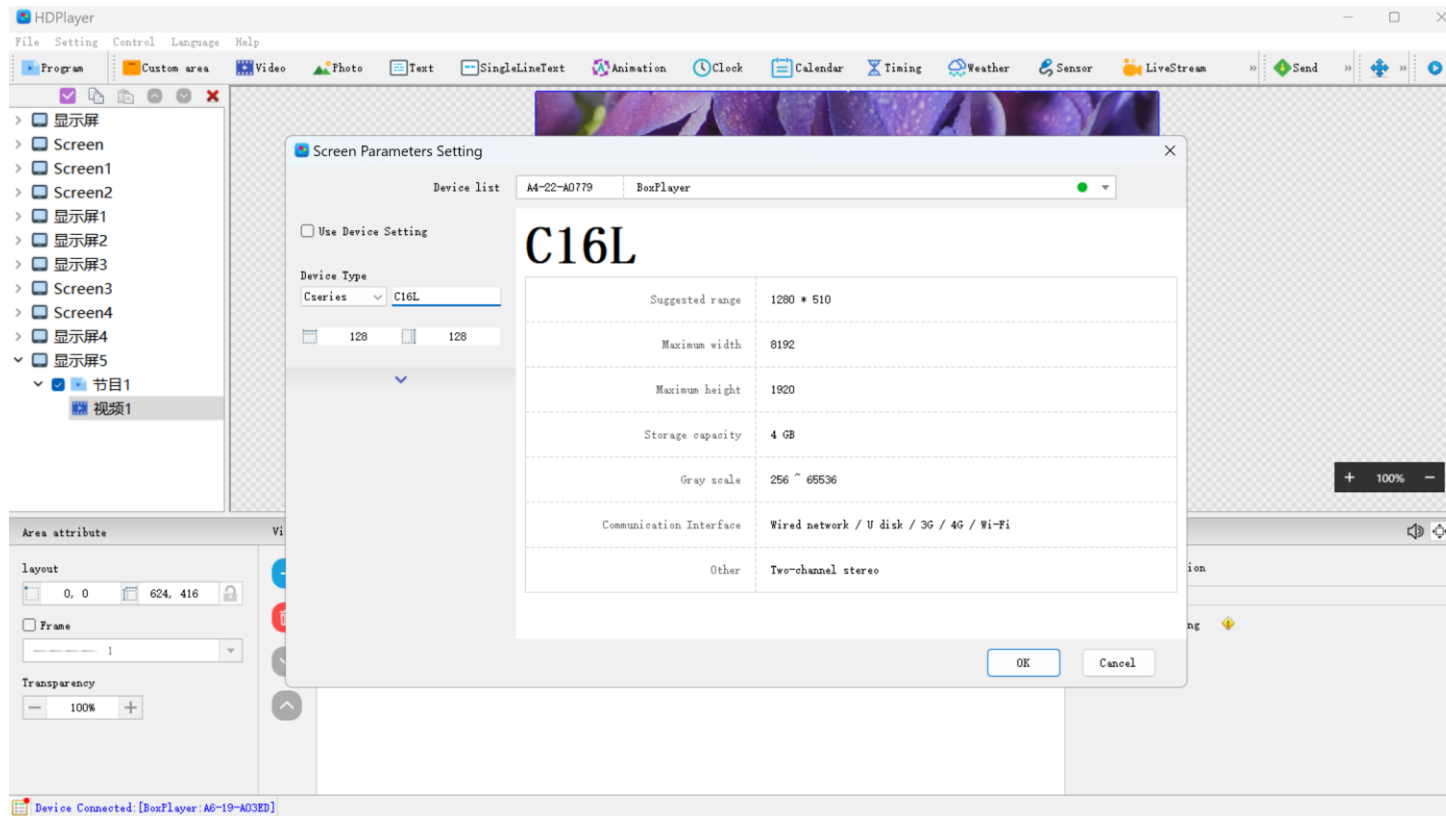
Connect the C16L to the computer by CAT5/6 cable or WiFi(Default password:88888888).



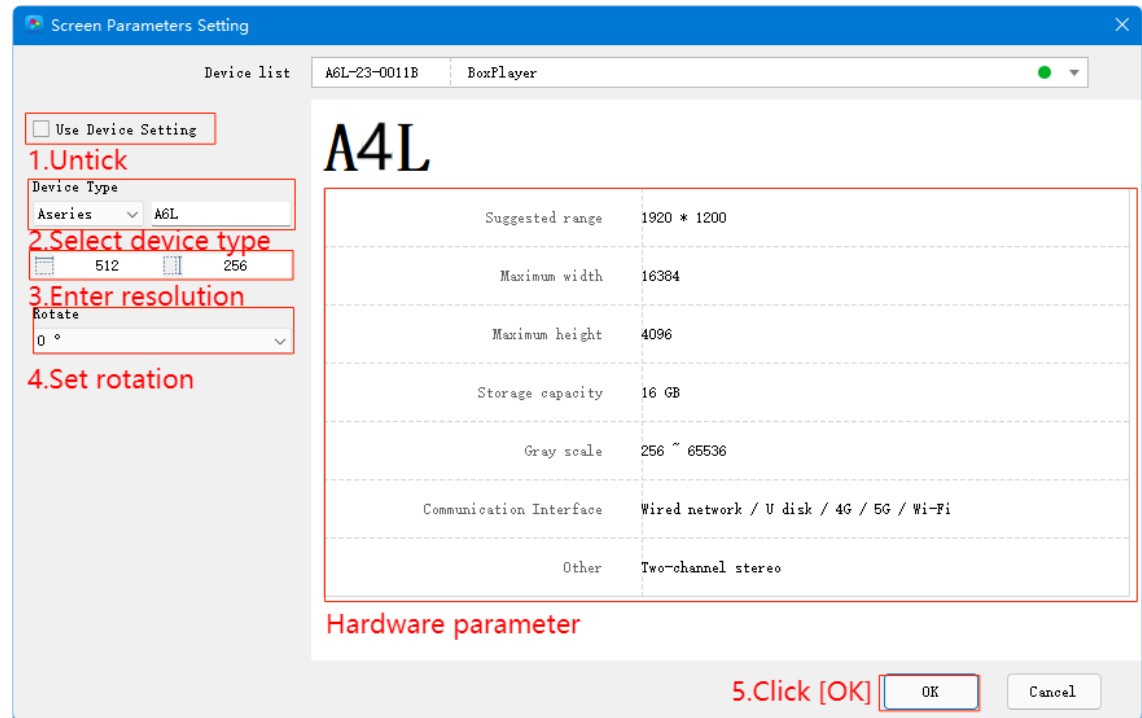
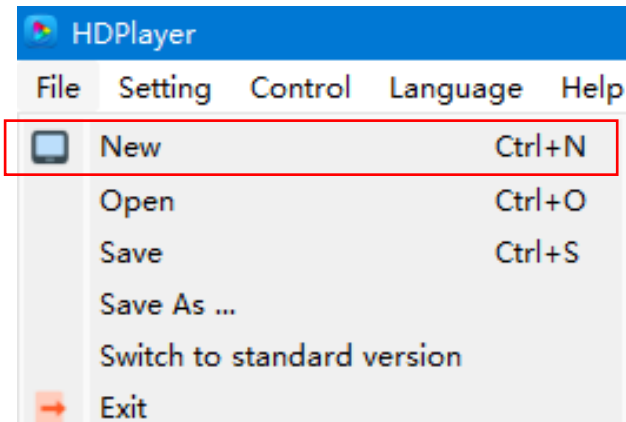
3.2 Basic Setting

3.2.1 Create new screen for C16L

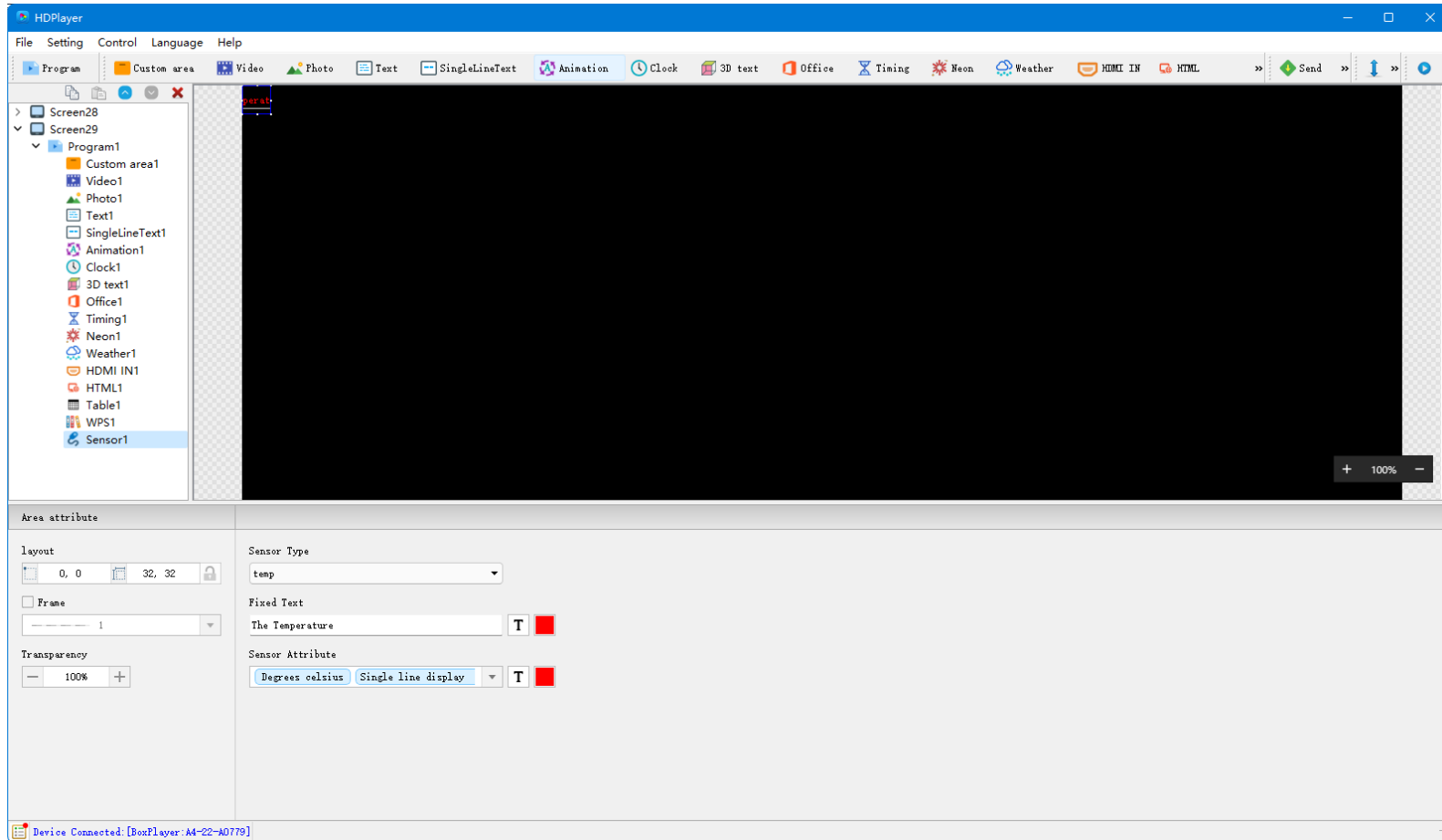
1.Run the HDPlayer software then it shows the C16L connected.



2.You need to create a new screen,then set the screen parameters.Click [OK] after you finish the setting.



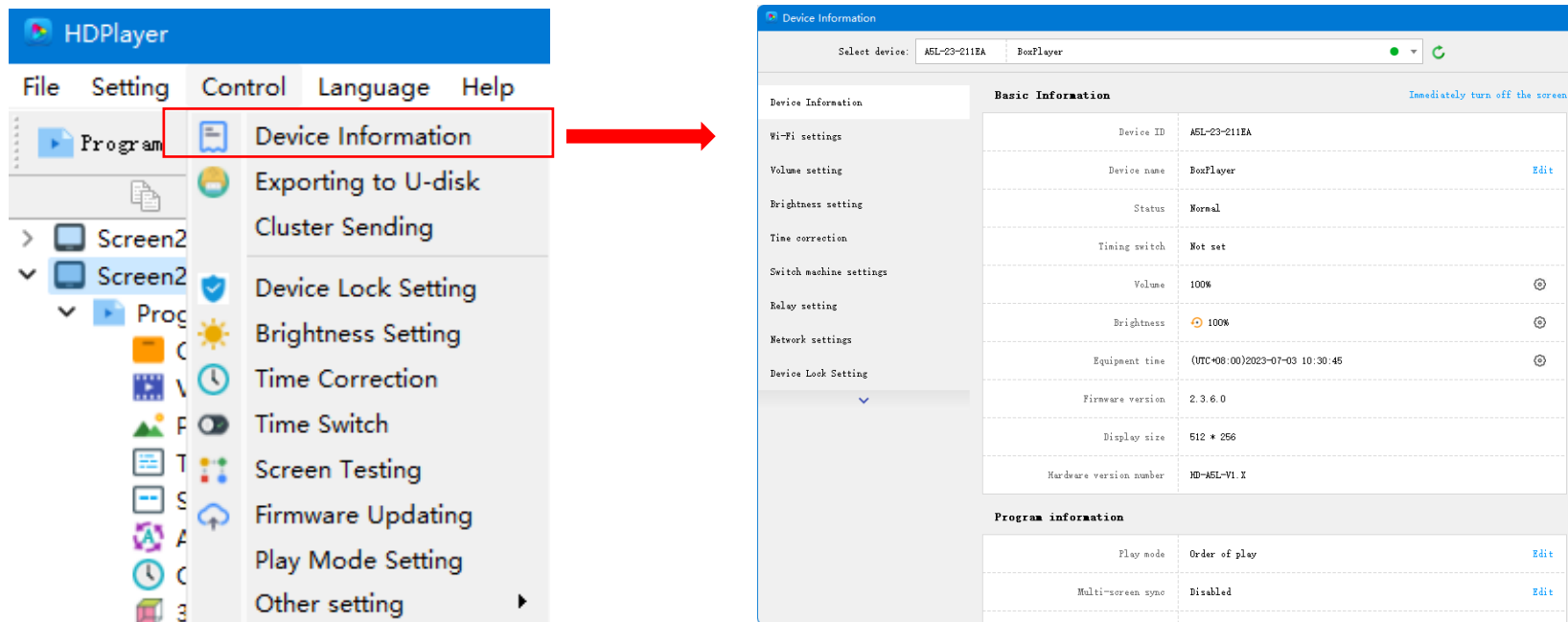
3. After the previous steps, you can begin to edit the program.



3.3 More setting

3.3.1 Device information

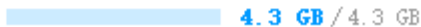
You can view the running status of the device in the device information.

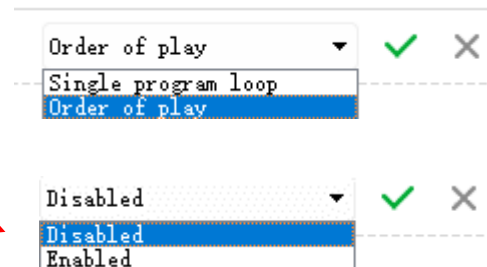


Play mode: Support single program loop and order of play.

Multi-screen Sync: Default setting is disable.If you want multiple screens to play synchronously, please enable.

Program information

Play mode	Order of play	Edit
Multi-screen sync	Disabled	Edit
Total number of programs	1	
Currently play the show	1	
Capacity information		



Order of play ▼ ✓ ✕
Single program loop
Order of play

Disabled ▼ ✓ ✕
Disabled
Enabled

View the 3/4G network and sensor status.

3.3.2 WiFi setting

Edit WiFi switch, mode, name and password, etc.

Station mode enable C16L connect to the wireless network.

Wifi settings

enable	<input checked="" type="checkbox"/>
mode	AP
SSID	A4-22-A0779
Password	88888888
IP address	192 . 168 . 6 . 1
channel	automatic
Encryption	WPA-PSK

Ok Cancel



Wifi settings

enable	<input checked="" type="checkbox"/>
mode	Station
wireless setting	HDKJ iPhone HD17 HD17-5G
SSID	HDKJ
Password	●●●●●●●●
	connection

1. Select the WiFi

2. Enter password

3. Click [OK]

Ok Cancel


3.3.3 Volume setting

Fixed mode: set fixed volume

According to the time period:Set the time frame.

Volume Setting

mode: fixed

Volume:  100%

Drag this to set fixed Volume

OK Cancel

Volume Setting

mode: According to the time period

1. Edit time period 2. Set Volume

100% 60% 30%

Add more time period

Onset time

1	08:00:00 ~ 18:00:00	100%
2	18:00:00 ~ 22:00:00	60%
3	22:00:00 ~ 08:00:00	30%

3. View the Onset time table

4. Click [OK]

OK Cancel

3.3.4 Brightness setting

Default mode: Set fixed brightness

Custom mode: Set the time frame for brightness

Automatic mode: C16L automatically change Brightness according to the sensor.

Sensitivity Indicates the frequency of detection.[High] means every 5 seconds;[in] mean 10;[low] mean 15.

You'd better set Brightness monitoring interval to 3400-7000.

Brightness setting

Select mode mode Default mode

Brightness 100%

Brightness monitoring interval 3400 18000

Drag this to set fixed brightness

Ok Cancel

Brightness setting

mode Custom mode

Brightness monitoring interval 3400 18000

1.Edit time period

2.Set brightness

3400 18000

100% 60% 30%

+

Add more time period

Onset time

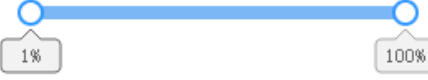

1	08:00:00 ~ 18:00:00	100%
2	18:00:00 ~ 22:00:00	60%
3	22:00:00 ~ 08:00:00	30%

3.View the onset time table

4.Click [OK]

Ok Cancel

Brightness setting

mode	Automatic mode
Sensitivity	high
Brightness range	
Brightness monitoring interval	

1. Select [high]

2. Set range you want

3. The best value is 3400-7000

4. Click [OK]

Ok	Cancel
----	--------

3.3.5 Time correction

Set the system time zone. C16L support summer time.

Automatic synchronization: NTP mean time correct by network. Set GPS if installed the GPS module. Set RF if installed the RF device.

time setting

System time zone	(UTC+08:00)Beijing, Chongqing, HongKong, Urunchi
summer time	<input type="checkbox"/>
Automatic synchronization	NTP ntp.huidu.cn
<input type="checkbox"/> Time correction	2022-12-12 14:14:40
Calibration mode	Synchronize the computer
	2022/12/12 14:14:40 ⓘ

Automatic synchronization

Automatic synchronization	NTP ntp.huidu.cn
<input type="checkbox"/> Time correction	2022-12-12 14:31:20
Calibration mode	ter

Ok Cancel

3.3.6 Switch machines setting

Set on/off time for C16L.

Enable the timer switch

	boot time	Off time
<input checked="" type="checkbox"/>	09:00:00	18:00:00
<input type="checkbox"/>	00:00:00	00:00:00
<input type="checkbox"/>	00:00:00	00:00:00
<input type="checkbox"/>	00:00:00	00:00:00

1.Tick here to enable



2.Set the boot and off time

3.Tick here to make it effective

4.Click [OK]

3.3.7 Relay setting

C16L supports relay installation.


	Relay name	Switch setting	
--	------------	----------------	--

Open Close OK Cancel

3.3.8 Network setting


Default is automatic acquisition. You can set fixed IP for A3L.

Network settings

Automatic acquisition	<input checked="" type="checkbox"/> Enabled	Untick to edit fixed IP
MAC	50 : 22 : d1 : a0 : 77 : 90	
IP address	192 . 168 . 110 . 21	
Subnet mask	255 . 255 . 255 . 0	
Default gateway	192 . 168 . 110 . 1	
DNS	255 . 255 . 255 . 255 	

Ok Cancel

Network settings

Automatic acquisition	<input type="checkbox"/> Enabled	
MAC	50 : 22 : d1 : a0 : 77 : 90	
IP address	192 . 168 . 1 . 20	
Subnet mask	255 . 255 . 255 . 0	
Default gateway	192 . 168 . 1 . 1	
DNS	255 . 255 . 255 . 255 	

1.Edit the fixed IP you want

2.Click [OK] Ok Cancel

3.3.9 Device lock setting

Set password to lock the device. After that People without passwords will not be able to make operational changes to the device.

Device Lock

Enabled	<input type="checkbox"/>	1.Tick
New password	<input type="password"/>	2.Set password
Confirm password	<input type="password"/>	

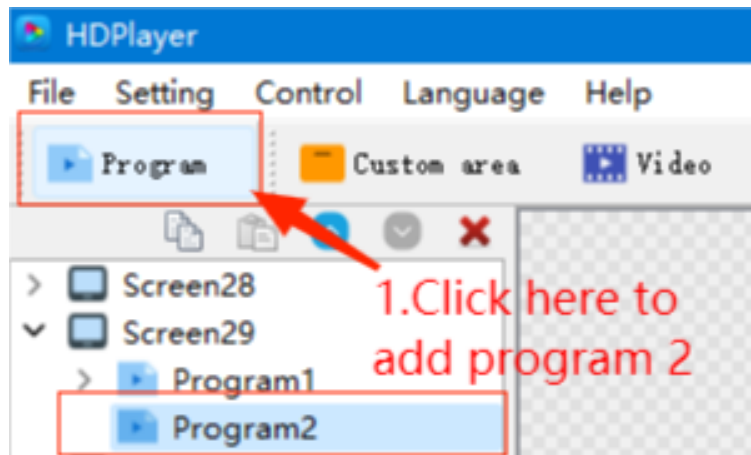
Note: Please save your password properly.

3.Click [OK]

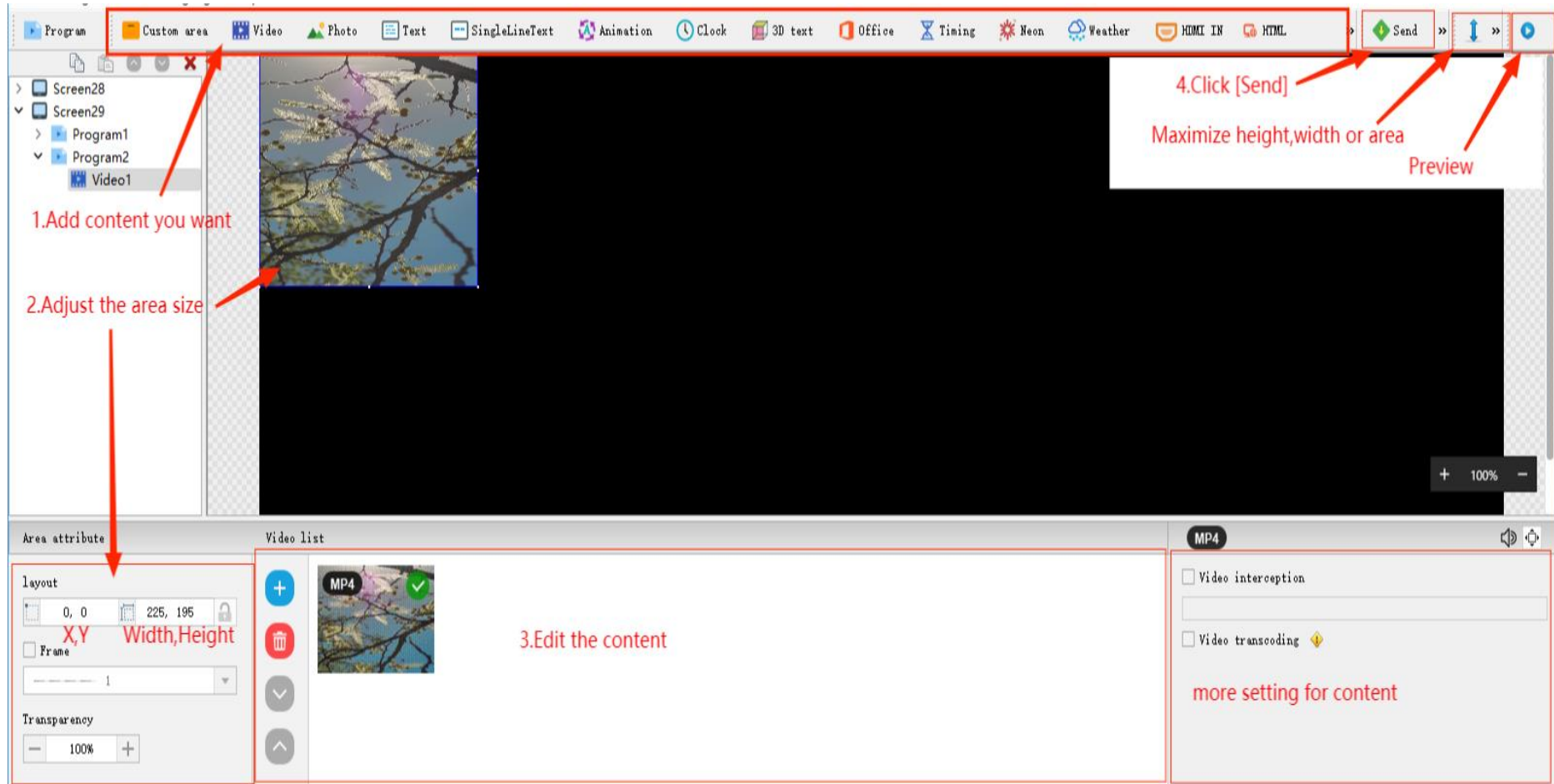
Chaper 4 Async Program Editing and Publishing

4.1 Publish programs by HDPlayer

1. Create new program



2.Add content into Program

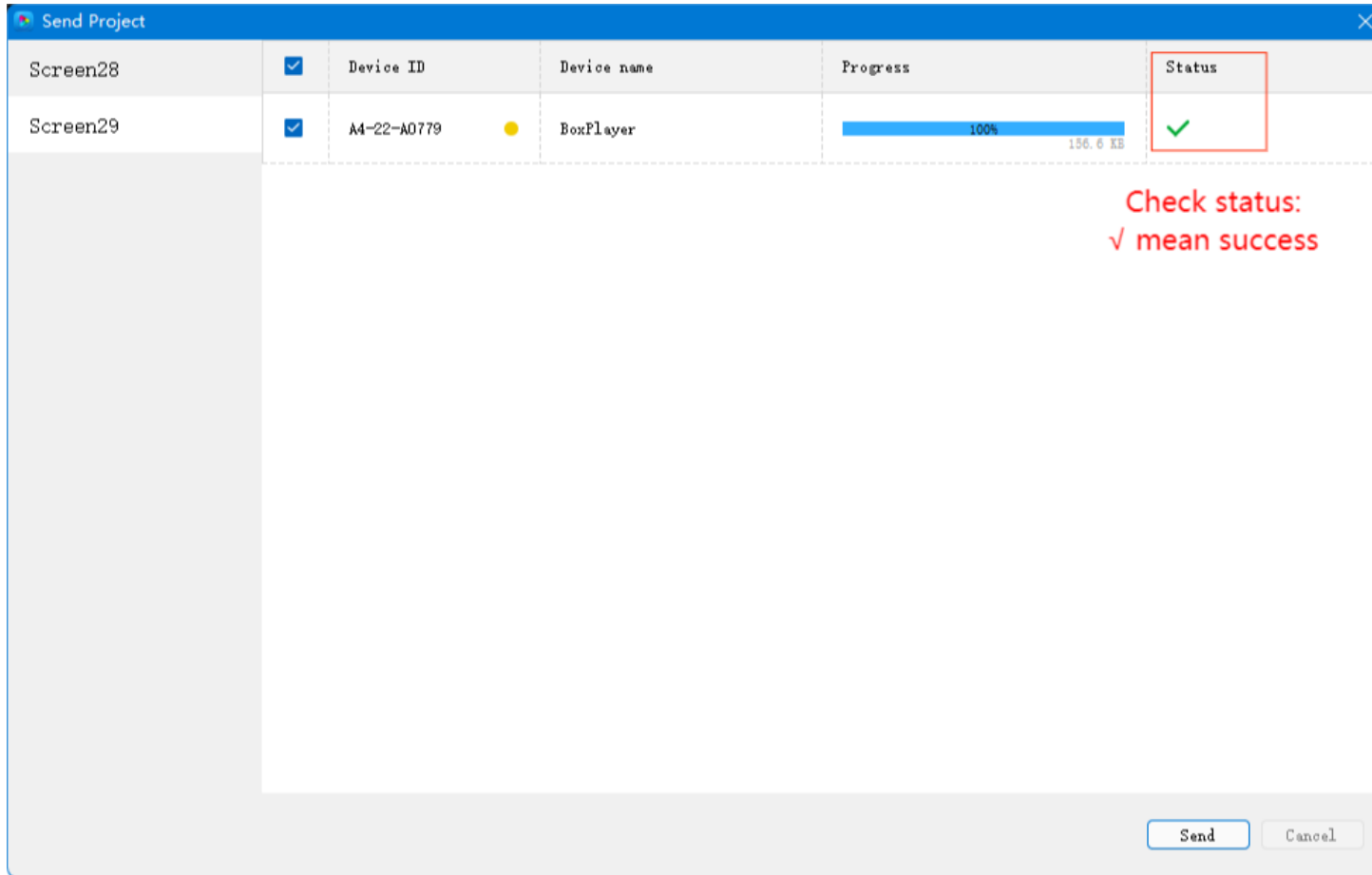


The screenshot displays the Huidu Technology software interface with four numbered steps for adding content:

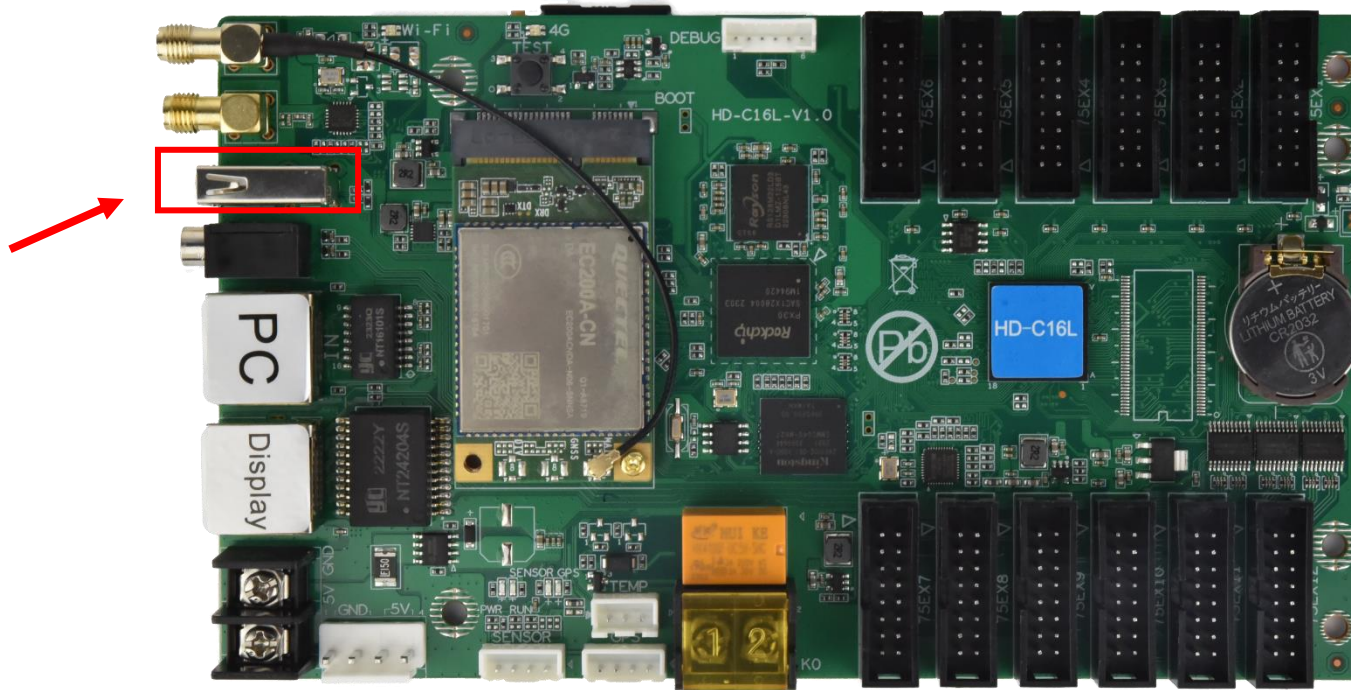
- 1.Add content you want**: An arrow points to the 'Video' icon in the top toolbar.
- 2.Adjust the area size**: An arrow points to the 'Video1' item in the left sidebar.
- 3.Edit the content**: An arrow points to the 'Area attribute' panel at the bottom left, which shows layout settings (X: 0, Y: 0, Width: 225, Height: 195) and transparency (100%).
- 4.Click [Send]**: An arrow points to the 'Send' button in the top toolbar. A callout box also points to the 'Preview' button and the 'Maximize height,width or area' button.

The main preview window shows a video clip of cherry blossoms. The bottom right panel shows 'MP4' settings, including options for 'Video interception' and 'Video transcoding'.

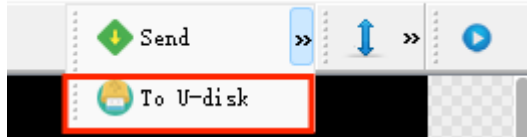
3. Sending interface



4.2 Publish programs by U-disk(FAT or FAT 32)







1. Export the program to the U-disk in HDPlayer



2. Publish the video and picture in the U-disk

Put the video and picture in the root catalog of U-disk

← → ▾ ↑ This PC > U-DISK (D:) Search U-DISK (D:)

Name	Date modified	Type	Size
 Cola	6/15/2022 2:54 PM	KMP -Video File	2,742 KB
 Spring	6/15/2022 2:29 PM	KMP -Video File	3,354 KB
 night	9/9/2022 10:45 AM	JPEG image	86 KB
 architecture	9/9/2022 10:45 AM	JPEG image	182 KB

4 items

☰ ☐