



Digital Signage Player User Manual

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LUNZN

Digital Signage Player

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1. How to start?

1.1. Connect device

- ① connect power cable for device, put switch to turn on.
- ② connect internet for device, by etherlan cable, or set WIFI in “settings” when turn on.

1.2. Open CMS website on the PC

CMS website is: <https://op2us.aihmong.com>

system login

remember password

login

register

Password Reset

Help Page

1.3. Register CMS account

Click “register”

Register Username ×

* Username

* Password

* Confirm Password Please enter

mail Please enter the correct email address

* Device SN number Please enter

cancel confirm

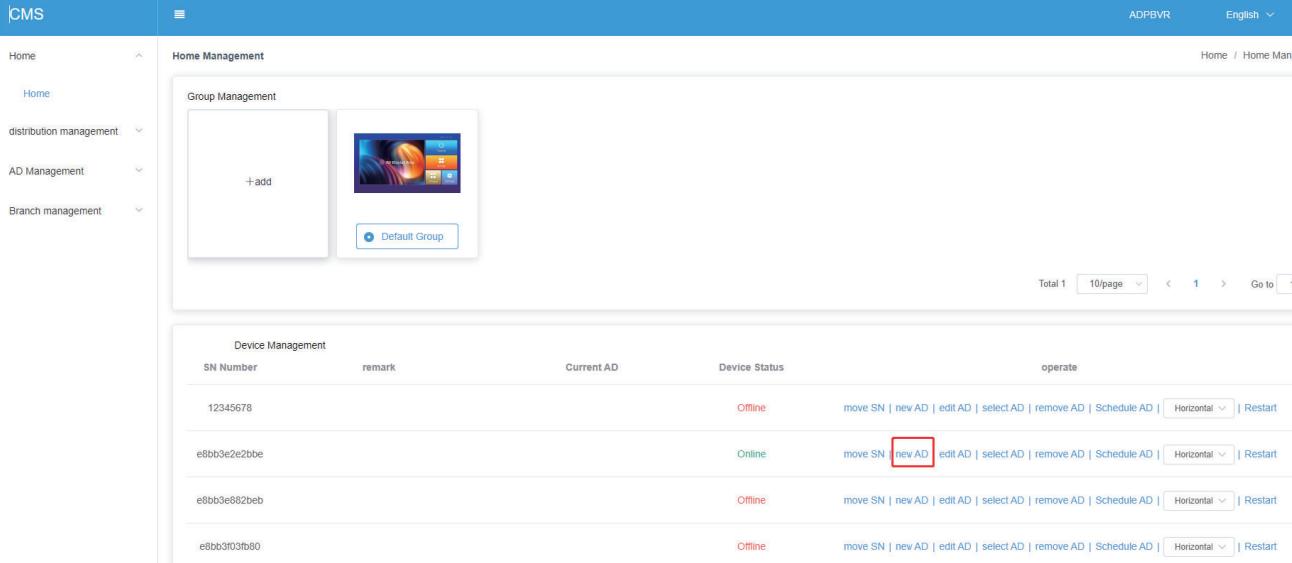
* Input your username, password, confirm password, and input device SN number, then confirm.

* The email is for reset password in case you forget in the future. You can input or not.

2 * When you register successfully and login, you can change password in the upper right corner.

1.4. One-Key Publish AD

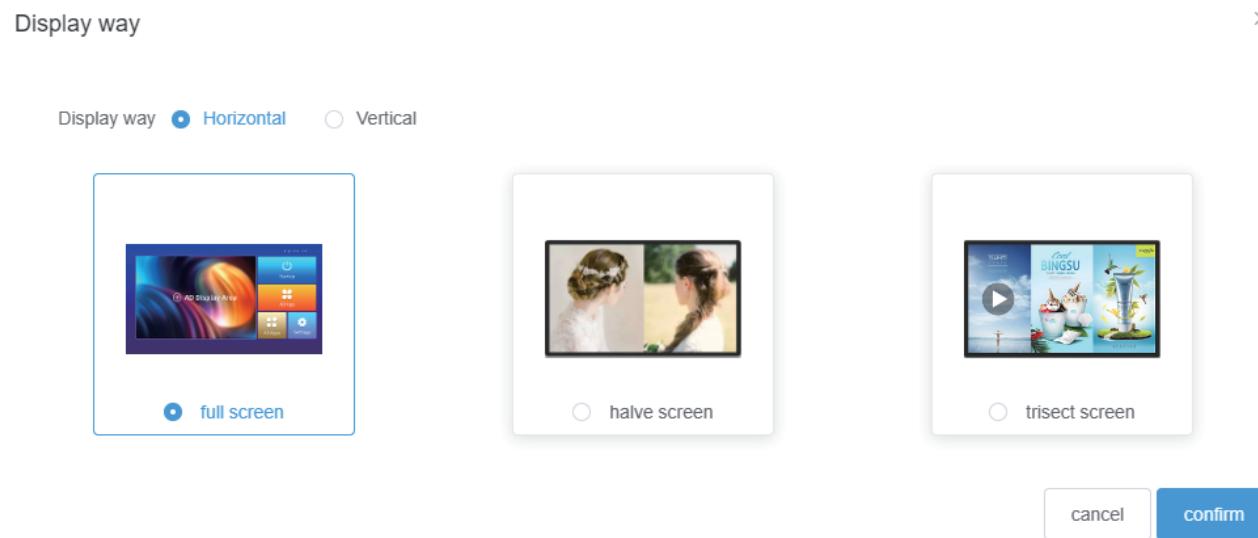
1.4.1. Click “new AD” for the SN number in home page



The screenshot shows the CMS Home Management interface. In the Group Management section, there is a '+add' button and a preview image of a device screen. Below it, the 'Default Group' is selected. In the Device Management section, there is a table with columns: SN Number, remark, Current AD, Device Status, and operate. The table contains four rows with device details and operation buttons. The 'new AD' button in the 'operate' column for the first row is highlighted with a red box.

SN Number	remark	Current AD	Device Status	operate
12345678		Offline	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart
e8bb3e2e2bbe		Online	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart
e8bb3e882beb		Offline	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart
e8bb3f03fb80		Offline	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart

1.4.2. Select display way and template



The modal dialog is titled 'Display way' and contains three options: 'Horizontal' (selected), 'Vertical', 'full screen', 'halve screen', and 'trisect screen'. Each option has a preview image. At the bottom are 'cancel' and 'confirm' buttons.

Display way Horizontal Vertical

full screen

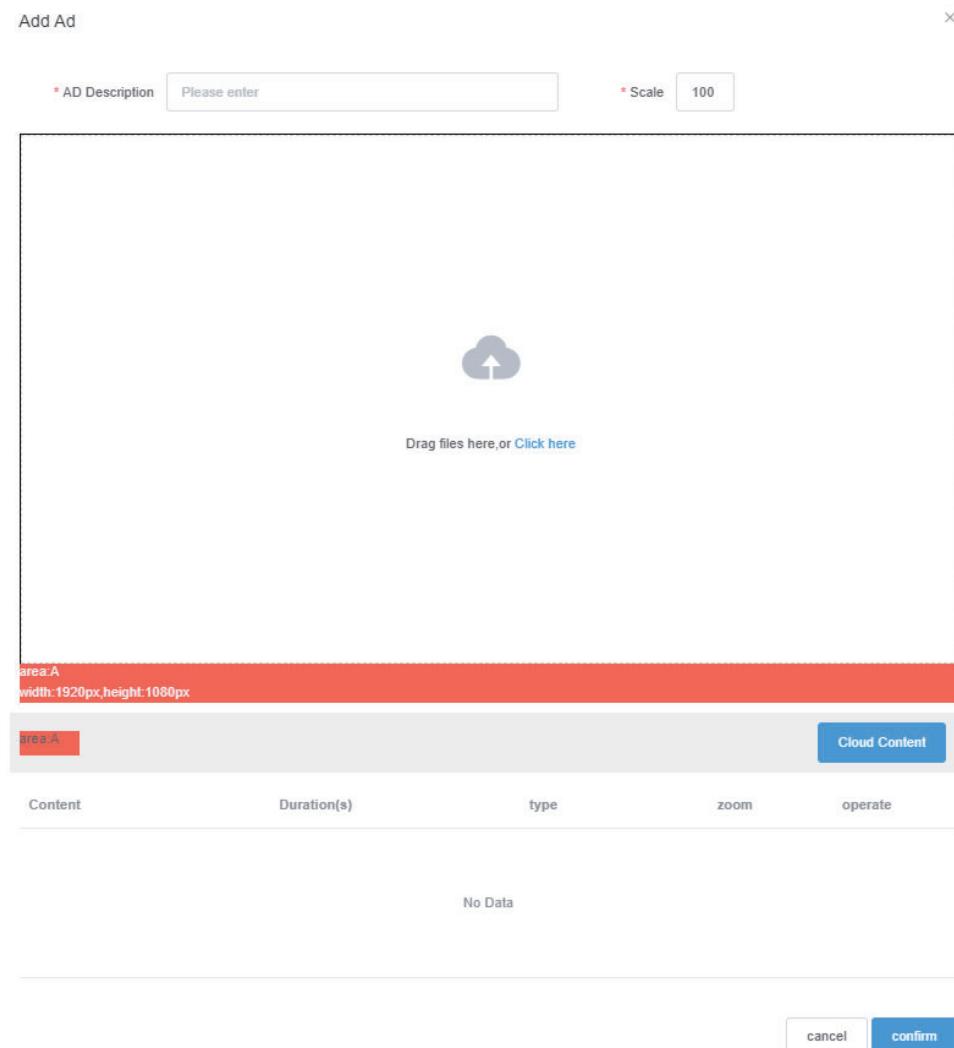
halve screen

trisect screen

cancel confirm

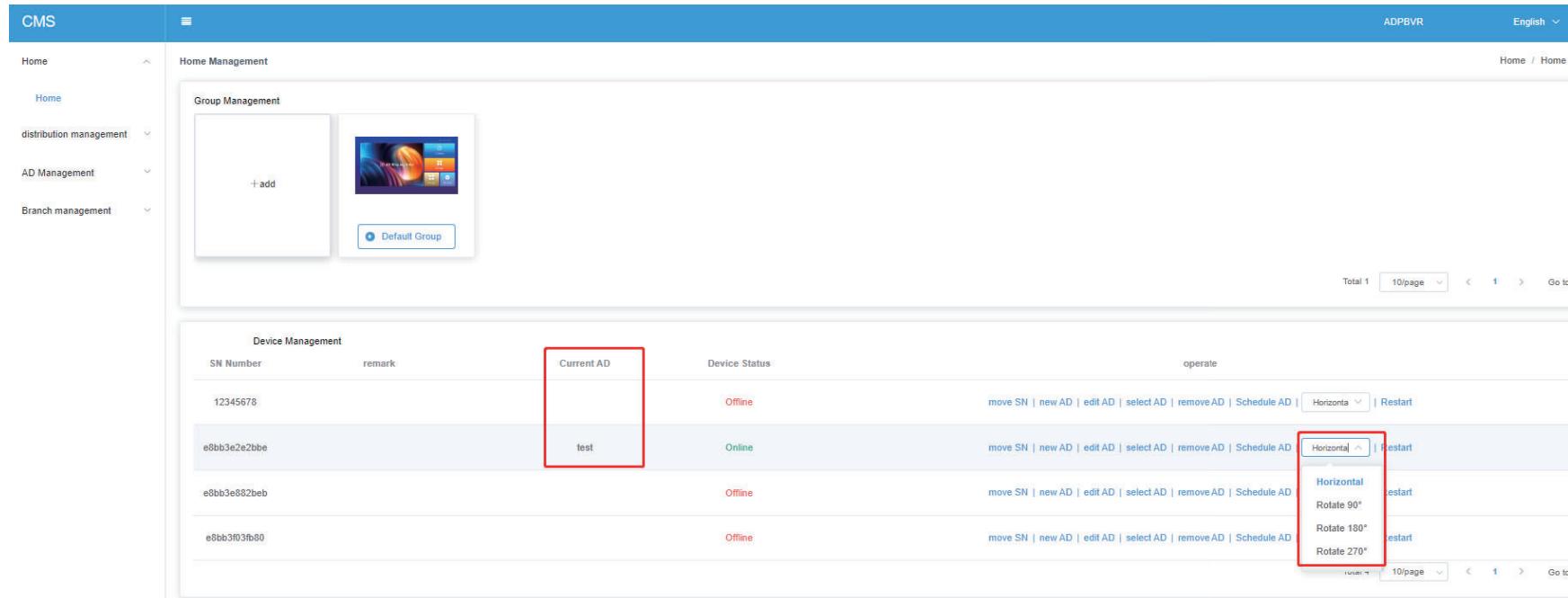
1.4.3. Upload AD content

- ① Input AD name.
- ② Click the cloud icon to upload AD content, pictures or videos.
- ③ Click “confirm” , then you publish AD successfully.



1.4.4. Choose correct AD direction

- ① When AD published successfully, it will show AD name in “current AD” list.
- ② Click the drop menu to rotate the correct AD direction freely.



The screenshot shows the CMS Device Management interface. The left sidebar includes Home, distribution management, AD Management (selected), and Branch management. The main area has Group Management and Device Management sections. In the Device Management table, the 'Current AD' column for the device with SN 12345678 is highlighted with a red box. The 'Device Status' column shows Offline for this device. The 'operate' column for this device contains a dropdown menu with options: Horizontal (selected), Restart, Horizontal, Rotate 90°, Rotate 180°, and Rotate 270°. The 'Current AD' column for the device with SN e8bb3e2e2bbe is also highlighted with a red box and shows the value 'test'.

SN Number	remark	Current AD	Device Status	operate
12345678		test	Offline	move SN new AD edit AD select AD remove AD Schedule AD Horizontal Restart
e8bb3e2e2bbe			Online	move SN new AD edit AD select AD remove AD Schedule AD
e8bb3e882beb			Offline	move SN new AD edit AD select AD remove AD Schedule AD
e8bb3f03fb80			Offline	move SN new AD edit AD select AD remove AD Schedule AD

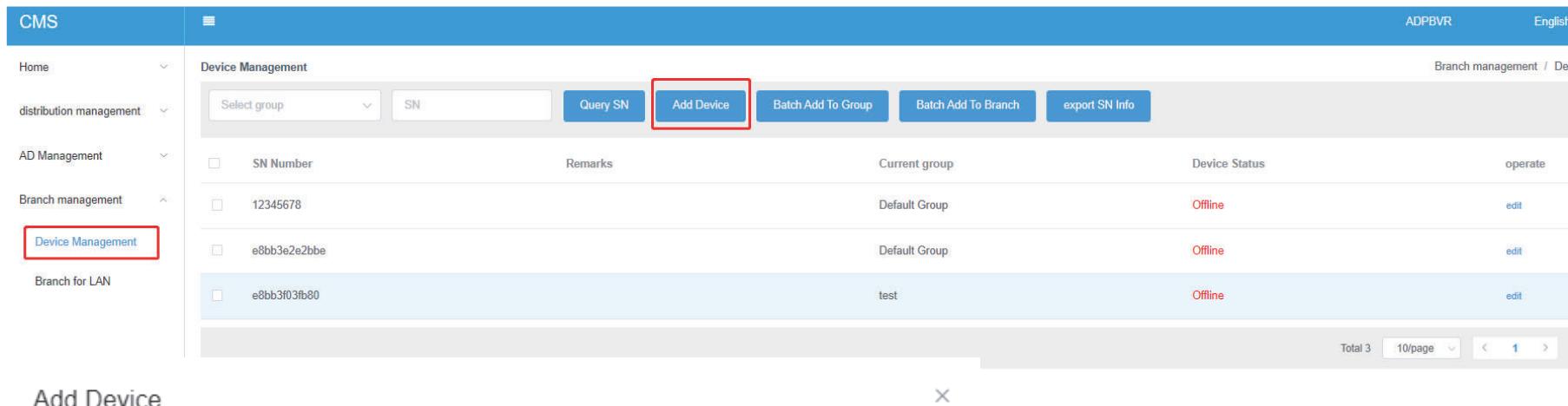
2. CMS Other Main Functions Guide

2.1. How to manage multiple devices?

Every device is with different SN number, stick on the device. We use SN number to manage devices.

If you buy 2+ pcs devices, you use 1pc box SN number to register username and password to login CMS account. Then please add other devices SN number into the same CMS account, so that you can manage all of them together.

① Click “Branch Management” --- “Device management” --- “Add device” to add one by one.



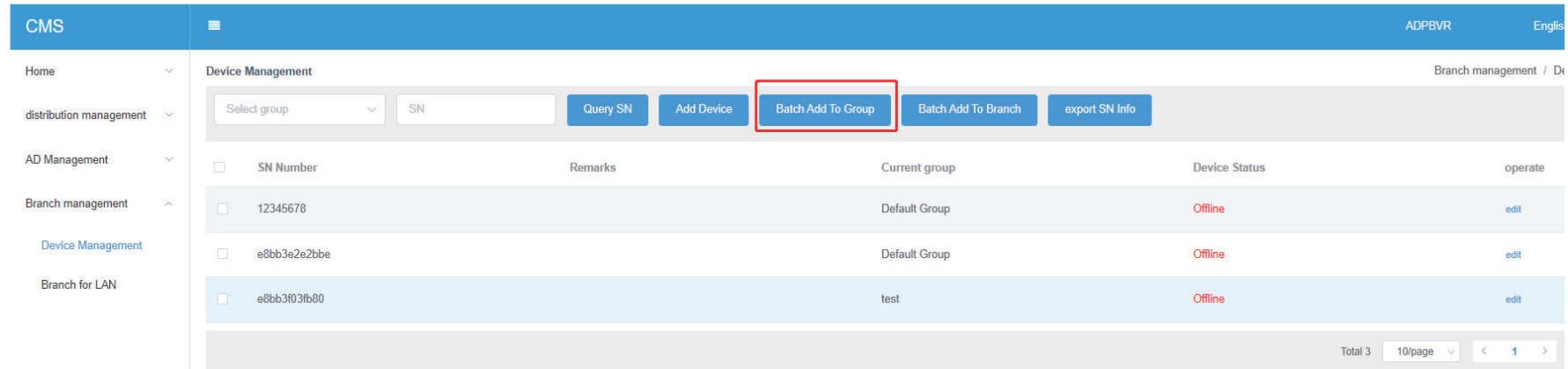
The screenshot shows the CMS Device Management interface. On the left, there is a sidebar with options: Home, distribution management, AD Management, Branch management, Device Management (which is selected and highlighted with a red box), and Branch for LAN. The main area is titled 'Device Management' and contains a sub-section 'Device Management'. It features a search bar with 'Select group' and 'SN' fields, a 'Query SN' button, and an 'Add Device' button (which is also highlighted with a red box). Below this are four device entries with columns for SN Number, Remarks, Current group, Device Status, and operate. At the bottom, there are pagination controls for 'Total 3' and '10/page'.

Add Device



The 'Add Device' modal dialog contains three input fields: a required 'SN Number' field with placeholder 'Please input SN', a 'Remarks' field with placeholder 'Please input a note', and a 'Grouping' field with a dropdown menu showing 'Default Group'. At the bottom of the dialog are 'cancel' and 'confirm' buttons.

② Click “Branch Management” --- “Device management” --- “Batch add to Group”, to batch add.



The screenshot shows the CMS Device Management interface. On the left, there is a navigation sidebar with options like Home, distribution management, AD Management, Branch management, Device Management, and Branch for LAN. The 'Device Management' section is active. In the center, there is a table with columns for SN Number, Remarks, Current group, Device Status, and operate. Three rows of data are visible: one row with SN 12345678, another with SN e8bb3e2e2bbe, and a third with SN e8bb3f03fb80. At the top of the table area, there are buttons for 'Select group', 'Query SN', 'Add Device', 'Batch Add To Group' (which is highlighted with a red box), 'Batch Add To Branch', and 'export SN Info'. Below the table, there are pagination controls for 'Total 3', '10/page', and navigation arrows.

Batch Add To Group ×

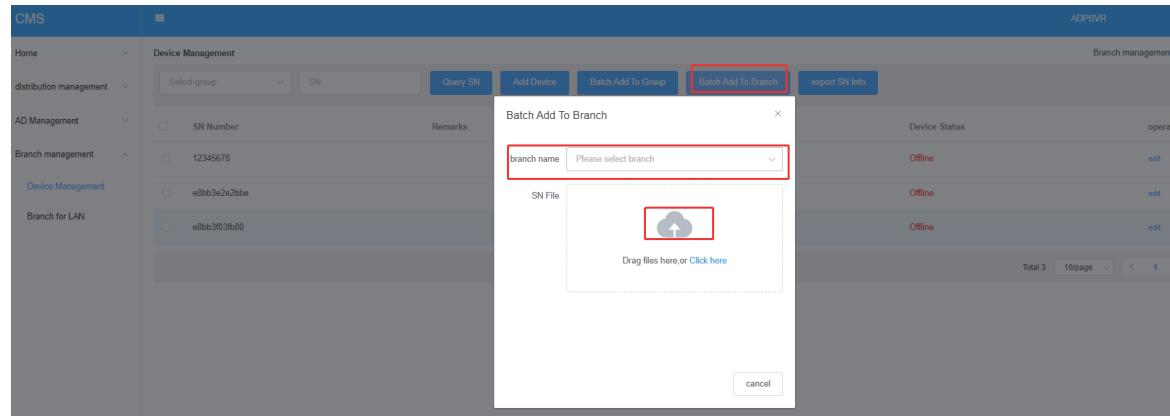
Group Name:

SN File:

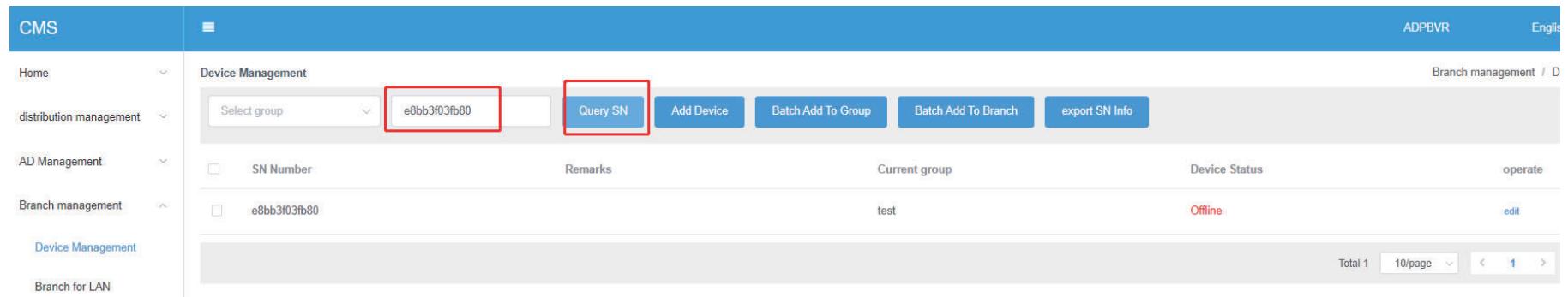
Drag files here, or [Click here](#)

Please input all SN numbers in a txt file, and “batch add to group”, choose the group, and upload the txt file directly.

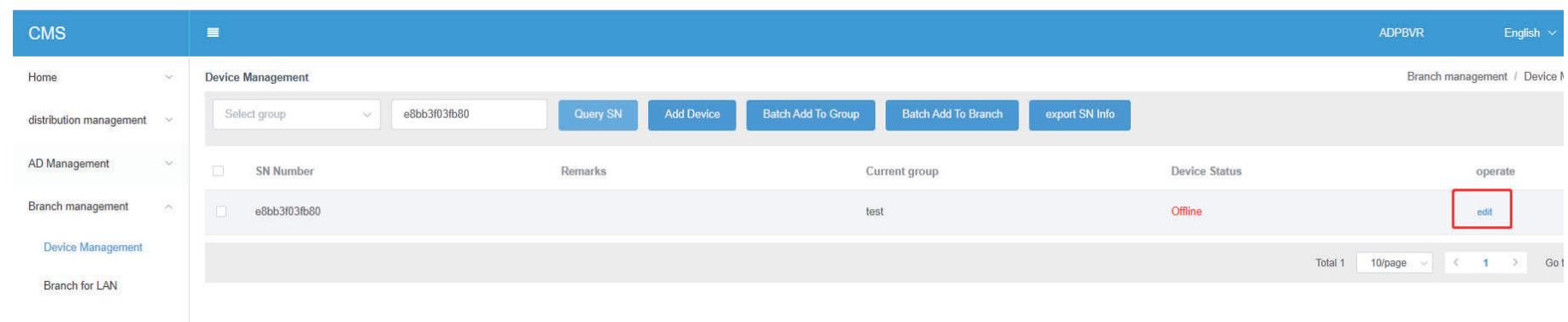
③ If you want to add SN numbers to your distribution branch, please click “Batch Add to Branch”, choose the branch, and upload the txt file directly.



④ If you'd like to locating a SN number, you can input the SN number and “quary SN” to find it.



⑤ Click “edit” can add remark for the SN.



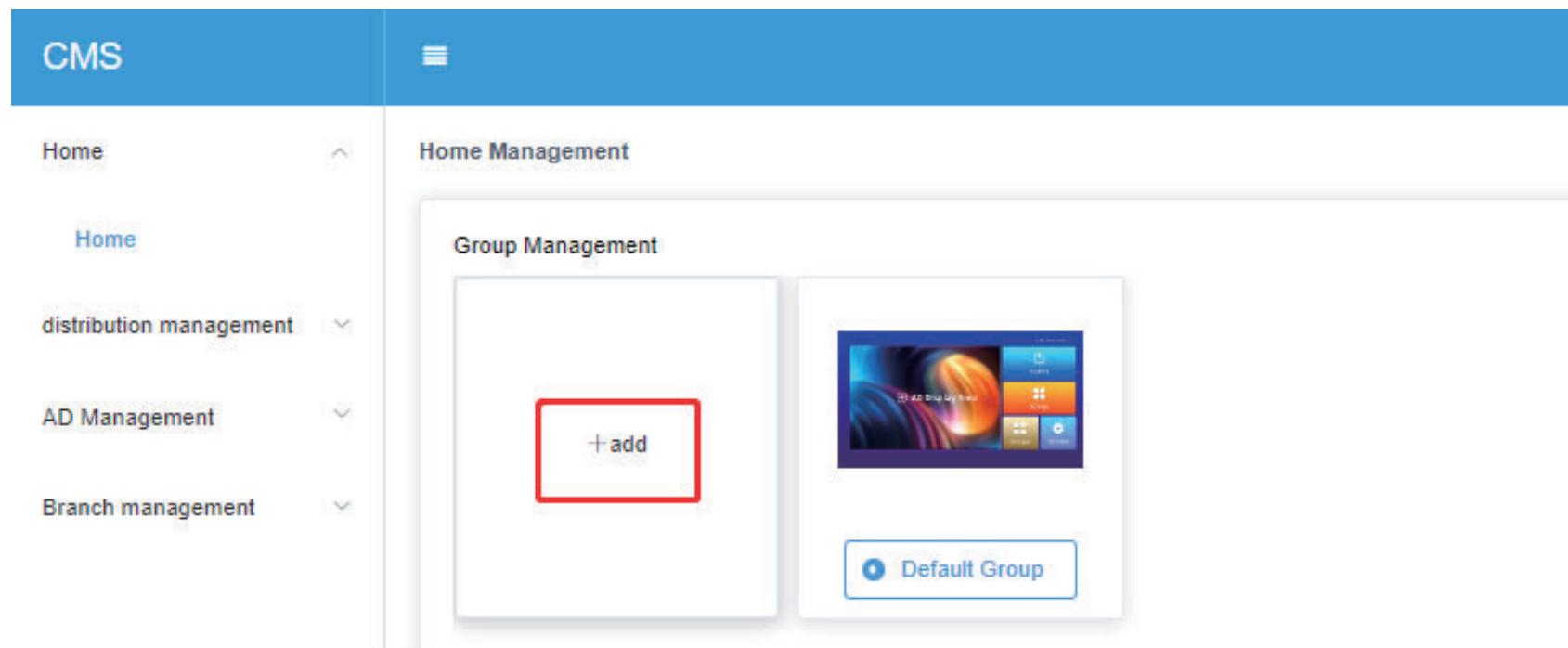
2.2. Group Management

Group management is in the home page. For customers to manage multi devices separately. The default group is exist, can't delete. All SN numbers are in default group at the beginning. You can add new group to separate devices.

- ① Normally we put the devices which need play the same AD into the same group.
- ② Different screen direction, different group. For example, horizontal group, vertical group, etc.
- ③ Different locations different group. For example, shop1, shop2, shop3, etc.

2.2.1. Add New Group

- ① Click “add”



② Input group name/ choose screen direction / select device SN number & move to right / confirm

Please choose correct screen direction here, so that you can publish correct AD later. E.g.
If you choose horizontal direction, you can't publish vertical AD; if you choose vertical direction,
you can't publish horizontal AD.

New group X

* Group Name: Enter a group name

* Screen Direction: Horizontal

All Devices 0/4

- 12345678
- e8bb3e2e2bbe
- e8bb3e882beb
- 3 e8bb3f03fb80

<
>

This branch 0/0

No data

cancel 5 confirm

Screen direction display show:



Horizontal



90° vertical



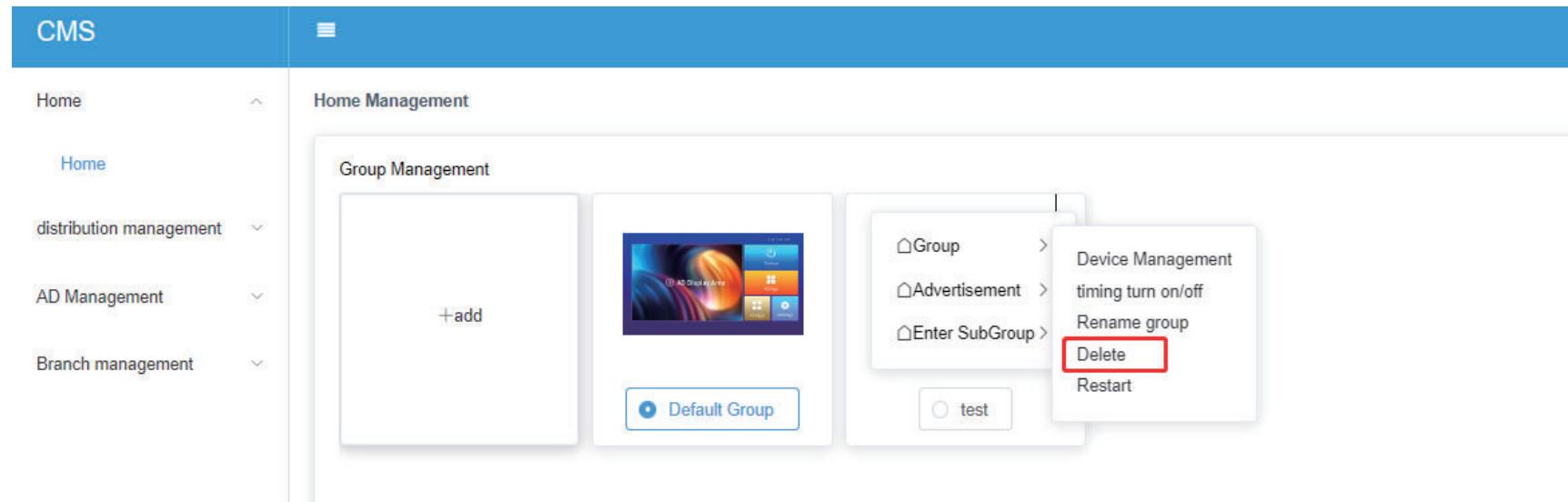
180° horizontal



270° vertical

2.2.2. Delete Group

Put mouse to the group icon, there's a drop menu come out, click “Group” --- “Delete”, can delete the group directly. When the group is deleted, all the devices in this group will come back to “default group” autoly. Default Group can't be deleted.



2.2.3. Timing On/Off

This button helps you set time to turn on or turn off all devices in the group autoly.

2.2.4. Rename group

This button helps you change a new group name.

2.2.5. Restart

This button helps you to restart all devices in the group remotely.

(If you just want restart one device, please find the device SN number in the list below, and click “restart” there for one SN number only.)

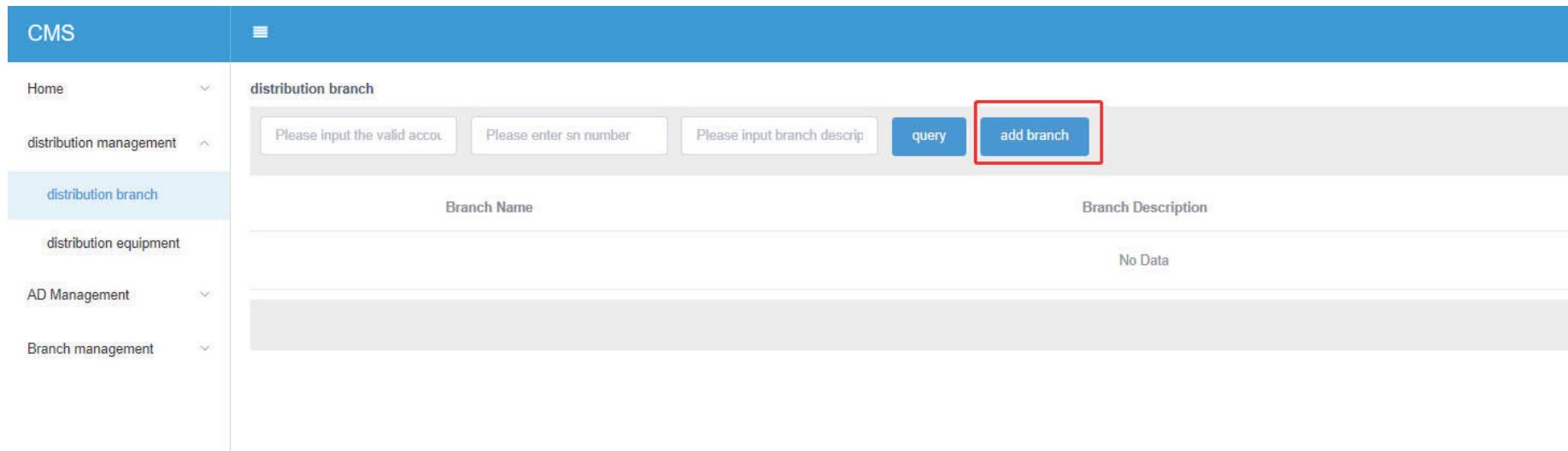
2.3. Group Management

Distribution management for customer to resell devices to his distributors, create new sub branch, set username & password, and dispatch devices for distributors.

Note: In this case, your main CMS account can't publish or manage any AD for distributors' devices anymore. Need login distributor's CMS account to publish or manage AD.

2.3.1. Create new sub branch

Click “distribution management” --- “distribution branch” --- “Add branch”



The screenshot shows the CMS interface for adding a new distribution branch. The left sidebar has a 'distribution branch' section selected. The main page has a search bar with placeholder text 'Please input the valid acco.' and 'Please enter sn number', a 'query' button, and a 'add branch' button which is highlighted with a red box. Below the search bar is a table with columns 'Branch Name' and 'Branch Description'. The table shows one row with the text 'No Data'.

Branch Name	Branch Description
	No Data

It will come out a page like this.

New Branch

X

* Branch Description 1

* Username 2

* Password 3

<input type="checkbox"/> All Devices	0/4
<input type="text" value="Please enter sn number"/>	
<input type="checkbox"/> 12345678	
<input type="checkbox"/> e8bb3e2e2bbe	
<input type="checkbox"/> e8bb3e882beb	
<input type="checkbox"/> e8bb3f03fb80	

4

<input type="checkbox"/> This branch	0/0
<input type="text" value="Please enter sn number"/>	
No data	

5

6

- ① Input branch name, can be customer's name, or customer's number, etc.
- ② Input username and password. (username & password will be told to customer to login)
- ③ Select the correct device SN number, and move it to the right.
- ④ Confirm.

2.3.2. Edit Distribution Branch

Click “Distribution branch” --- “edit”

The screenshot shows the CMS interface with the following components:

- Left Sidebar:** CMS, Home, distribution management, distribution channel, Distribution equipment, AD Management, Branch management.
- Header:** distribution channel, query, distribution branch.
- Main Content:** Branch Name (ADCZIQ), Branch Description (test), operate (edit, User Management, delete).
- Bottom:** Total 1, 10/page, 1.

Edit Branch Dialog:

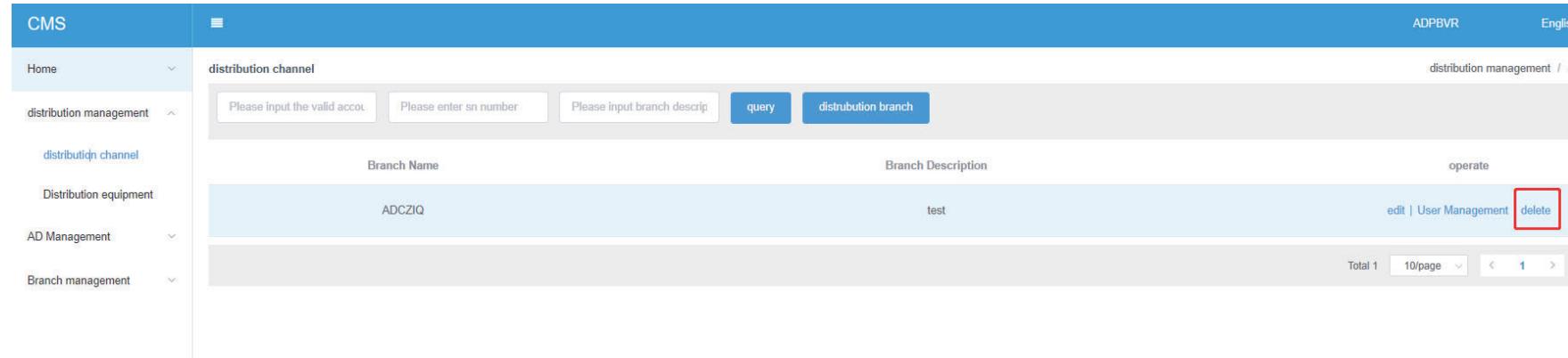
- Branch Description:** test (highlighted with a red box, labeled 1).
- Device Selection:** Two panels:
 - All Devices:** 0/3, Please enter sn number, checkboxes for 12345678, e8bb3e2e2bbe, e8bb3f03fb80. A blue button labeled 3 is next to the checkboxes.
 - This branch:** 0/1, Please enter sn number, checkbox for e8bb3e882beb. A blue button labeled 2 is next to the checkbox.
- Buttons:** cancel, config (highlighted with a red box, labeled 4).

- ① Can change branch name.
- ② Can dispatch more devices into distribution branch.
- ③ Can get back the devices from distribution branch to your main account.

2.3.3. Delete Branch

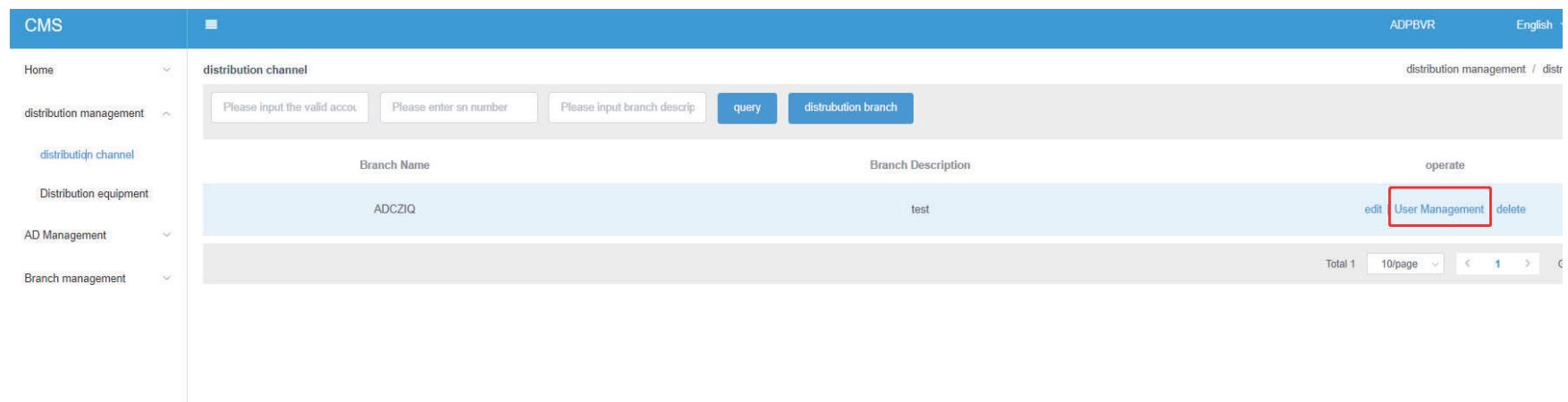
Click “Distribution branch” --- “delete”, can delete the branch.

When branch is deleted, it can't be recovered, and all devices in this branch will come back to your main account.



The screenshot shows the CMS distribution channel management interface. The left sidebar has a 'distribution management' section with 'distribution channel' selected. The main area shows a table with one row for 'ADCZIQ'. The 'Branch Name' column contains 'ADCZIQ', the 'Branch Description' column contains 'test', and the 'operate' column contains 'edit | User Management' and a redboxed 'delete' button. The bottom right of the table shows 'Total 1' and '10/page'.

2.3.4. User Management



The screenshot shows the CMS distribution channel management interface. The left sidebar has a 'distribution management' section with 'distribution channel' selected. The main area shows a table with one row for 'ADCZIQ'. The 'Branch Name' column contains 'ADCZIQ', the 'Branch Description' column contains 'test', and the 'operate' column contains 'edit', a redboxed 'User Management' button, and 'delete'. The bottom right of the table shows 'Total 1' and '10/page'.

User Management

X

1 add

User Name

operate

test

Res2 Password | delete 3

cancel

confirm

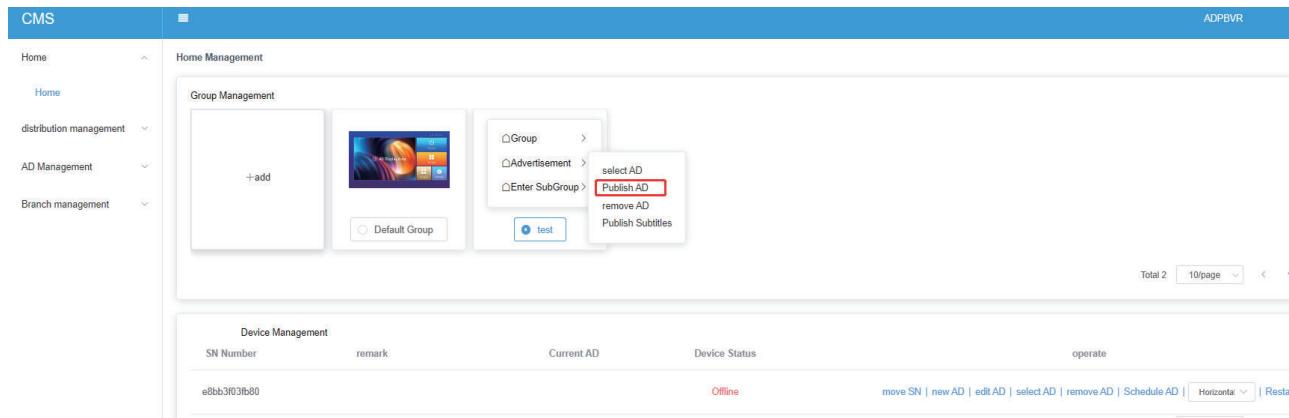
- ① “add” for add new username and password for distributor.
- ② “Reset Password” for reset new password for current username.
- ③ “delete” for delete the username & password. (If there’s only one username & password for the branch, and you delete it, that means you can’t login anymore, so normally don’t delete it.)

2.4. How to batch publish AD to all devices in the group?

Please make sure you didn't set any AD to the device SN number directly, if you set, please remove the device AD first before set group AD.

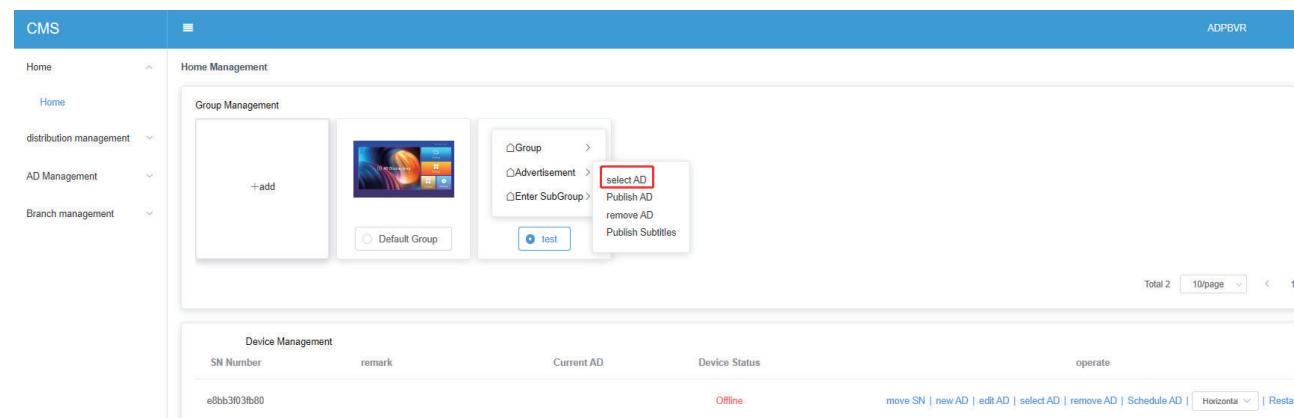
2.4.1. Way 1

Select a group in home page, move mouse to the group icon, click “Advertisement” --- “Publish AD” to create a new AD and publish directly.



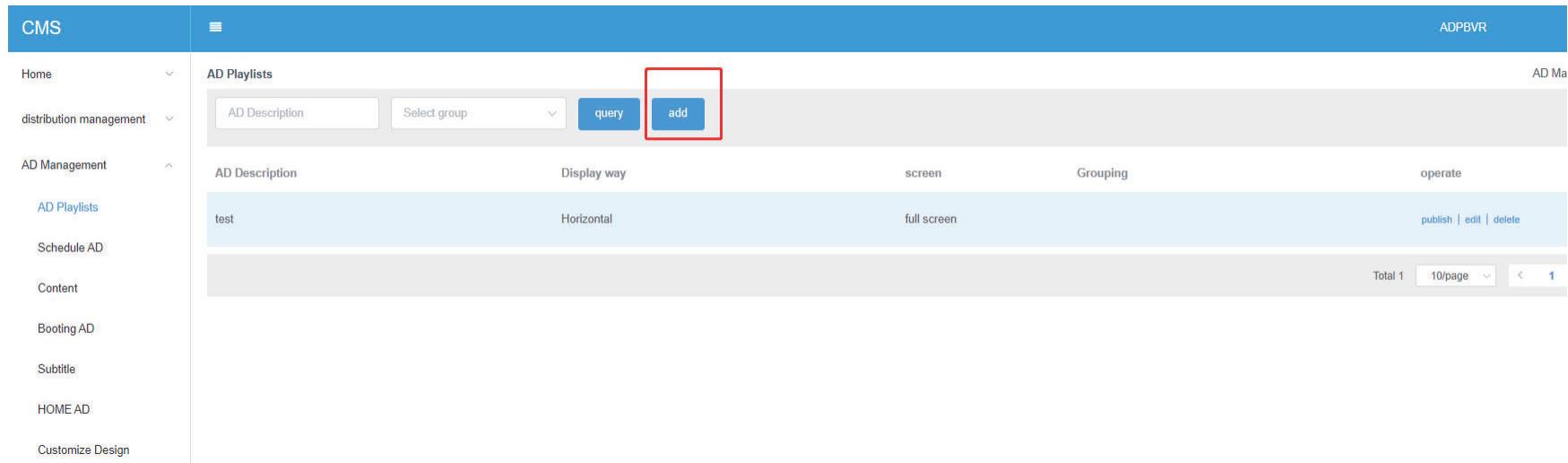
2.4.2. Way 2

Select a group in home page, move mouse to the group icon, click “Advertisement” --- “Select AD” to choose an old AD and publish directly.



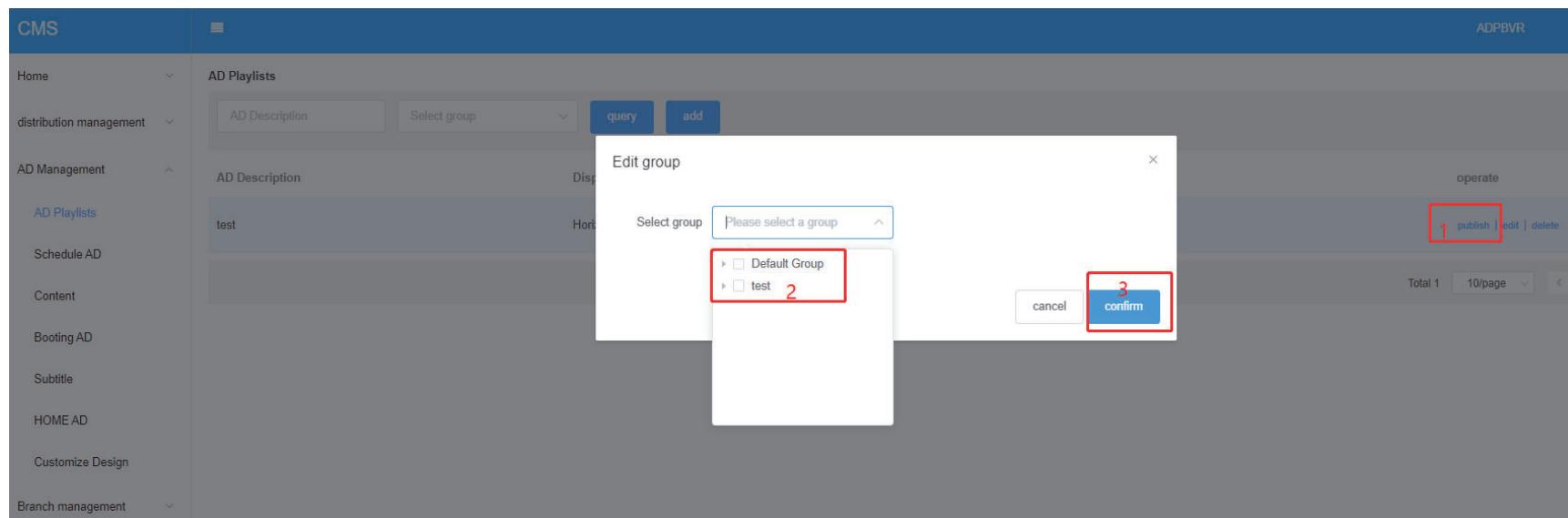
2.4.3. Way 3

① Click “AD management” --- “AD playlists” --- “add” to create a new AD play list



The screenshot shows the CMS interface with a sidebar on the left containing links like Home, distribution management, AD Management (with AD Playlists selected), Schedule AD, Content, Booting AD, Subtitle, HOME AD, and Customize Design. The main content area is titled 'AD Playlists' and shows a table with one row. The 'add' button in the top right of the table is highlighted with a red box. The table columns include AD Description, Display way, screen, Grouping, and operate. The row contains 'test', 'Horizontal', 'full screen', and 'publish | edit | delete'.

② In “AD Playlists” list, select an AD, click “publish”, choose a group and confirm.

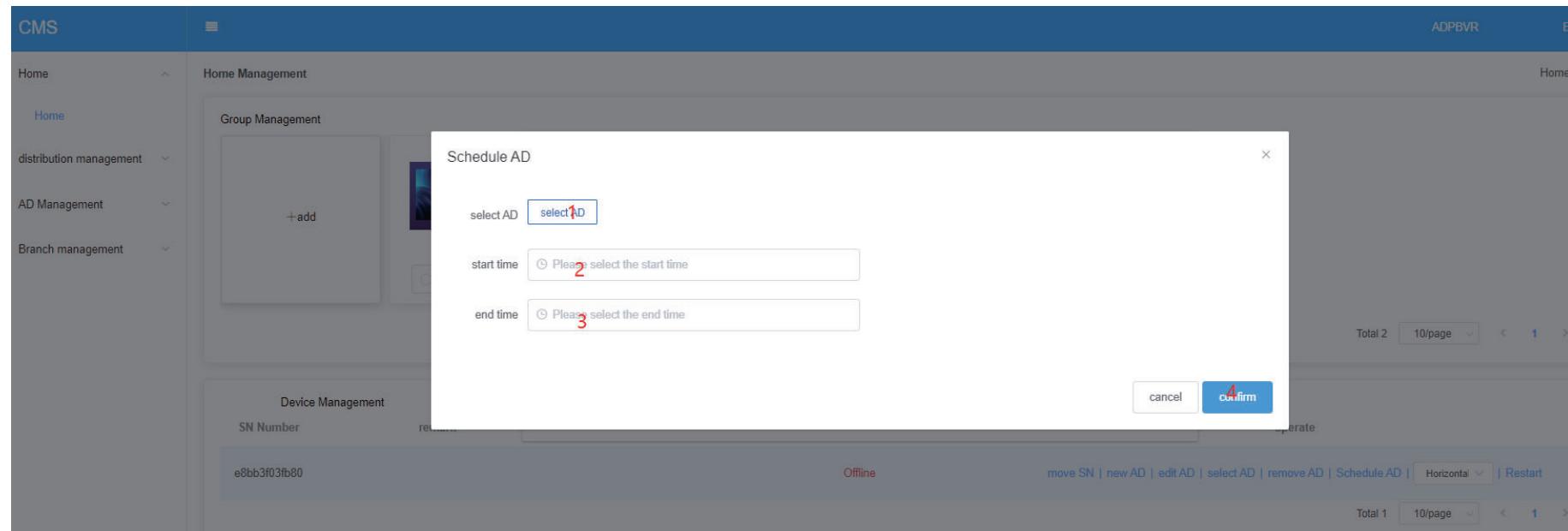


The screenshot shows the CMS interface with the 'AD Playlists' list in the background. In the foreground, a modal dialog titled 'Edit group' is open. It has a 'Select group' dropdown with 'Please select a group' and two options: 'Default Group' and 'test'. The 'test' option is highlighted with a red box and has a red number '2' next to it. At the bottom of the dialog are 'cancel' and 'confirm' buttons, with 'confirm' highlighted with a red box and a red number '3' next to it. In the background, the 'publish' button for the 'test' row is highlighted with a red box and a red number '1' next to it.

2.5. How to set schedule AD?

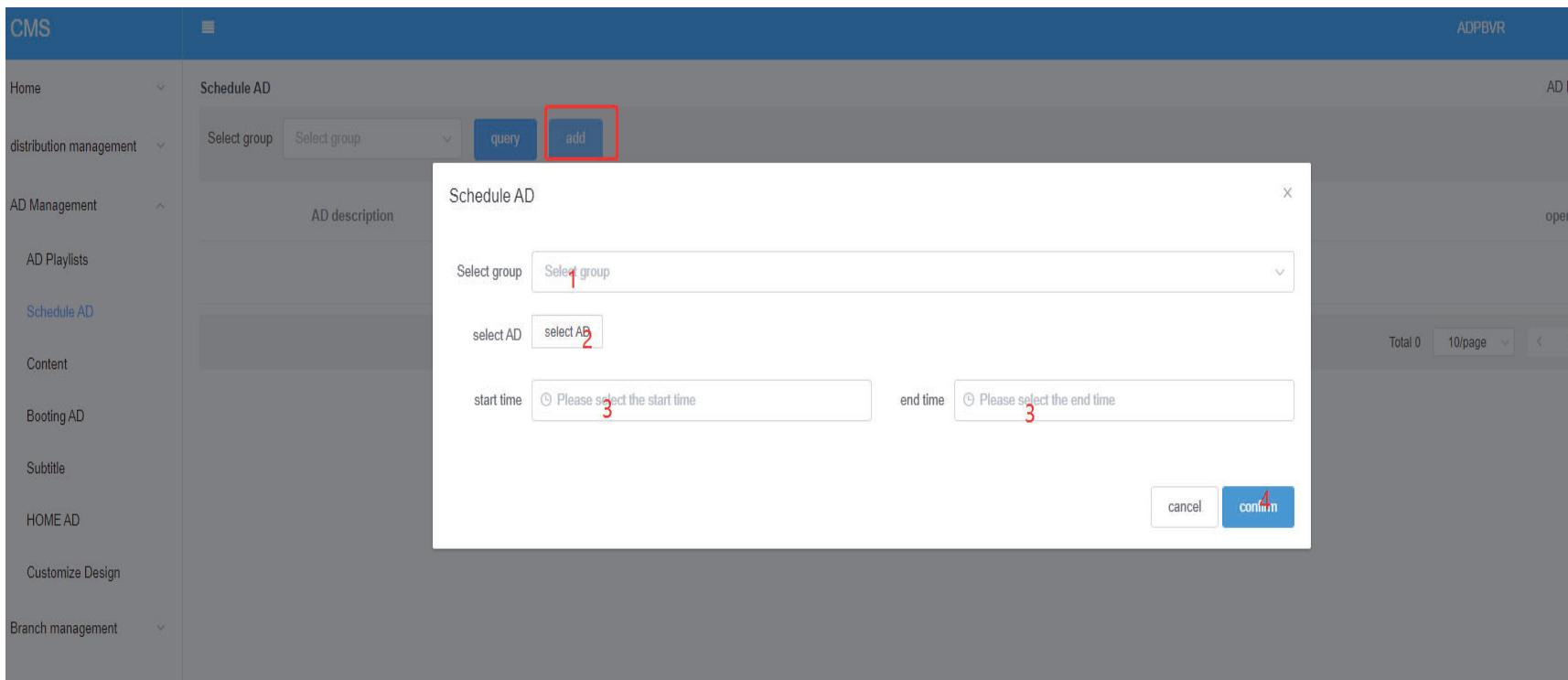
2.5.1. Set schedule AD for one device directly

- ① find the device SN number in home page, click “new AD” to create new AD for it, repeat and create several ADs. E.g. :AD1 / AD2 / AD3 / AD4.
- ② Click “select AD”, choose one AD as the main AD, E.g.: AD1 as the main AD
- ③ Click “schedule AD”, select an AD and set time for it, then confirm. (end time should be later than start time, and time for different AD can't be overlap.)
- ④ Check your device time is correct or not, click “settings” to set correct time zone for the device.



2.5.2. Set schedule AD for all devices in a group

- ① Choose a group in home page, click “publish AD”, repeat to publish several ADs for the group. Or click “AD management” --- “AD playlists” --- “add” to create several ADs.
- ② Click “AD management” --- “AD playlists”, choose an AD, click “publish”, choose this AD as the main AD.
- ③ Click “AD management” --- “schedule AD” --- “add”



Select a group / select an AD / set start time & end time / confirm.

Repeat to set different time for different AD.

Check all devices are in correct time zone.

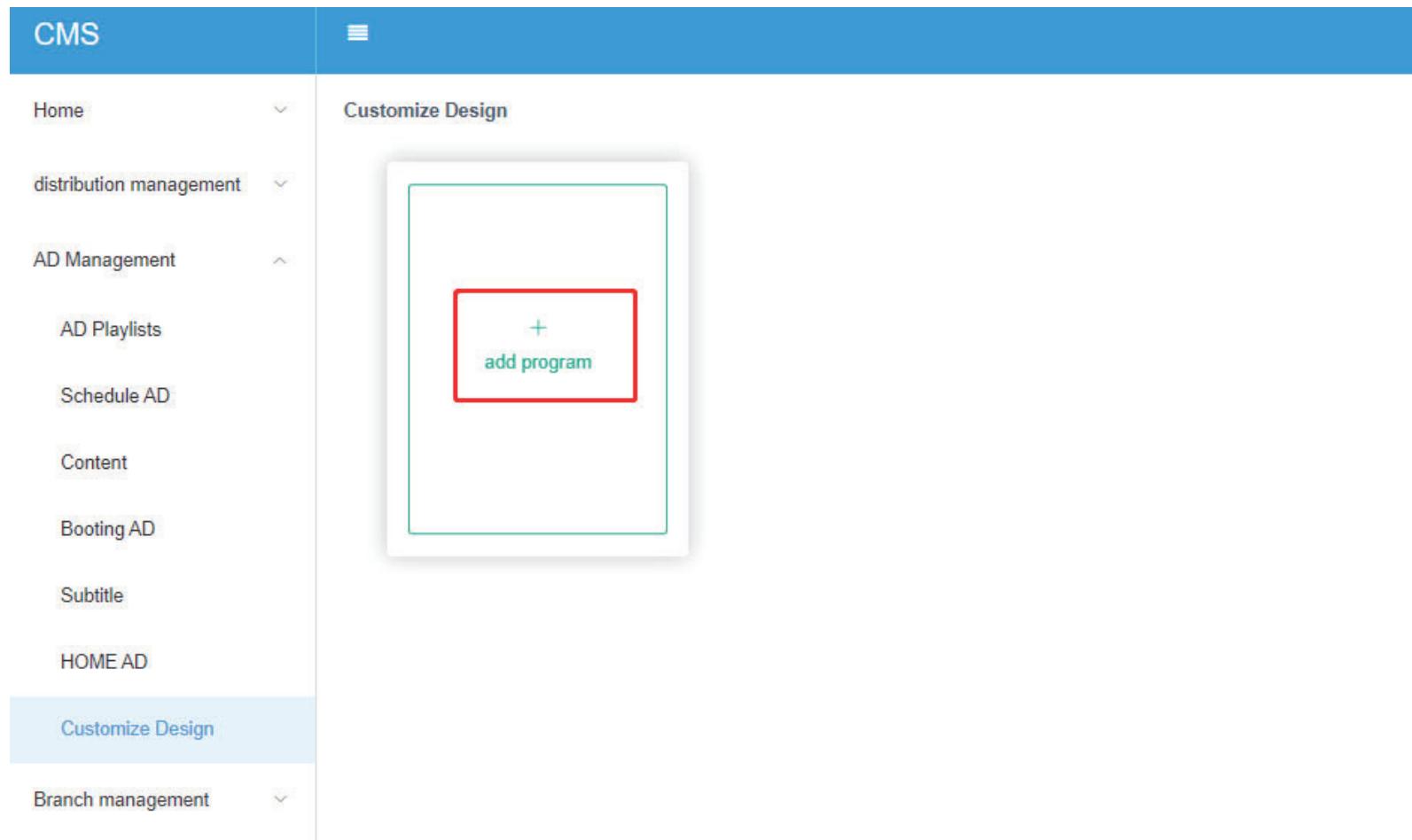
2.6. How to customize design AD?

Note: ① customize design AD is constructed by web tool quark-h5, obey to its normalization.

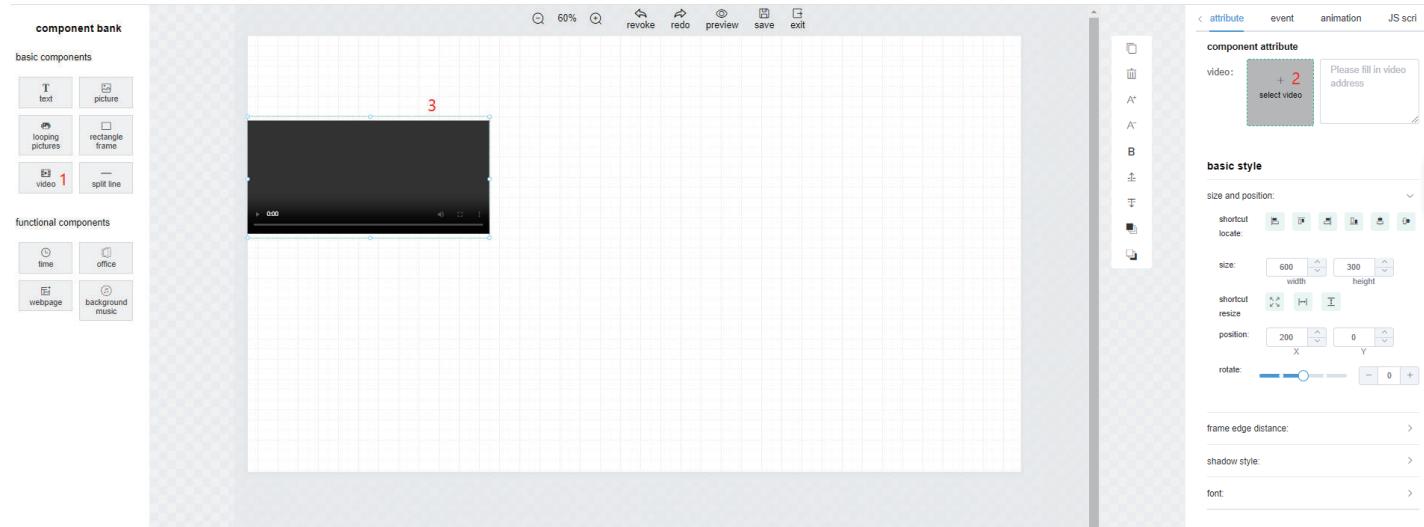
② demo video of “customize design AD” is in CMS website help page:

<https://op2us.aihmong.com/#help>

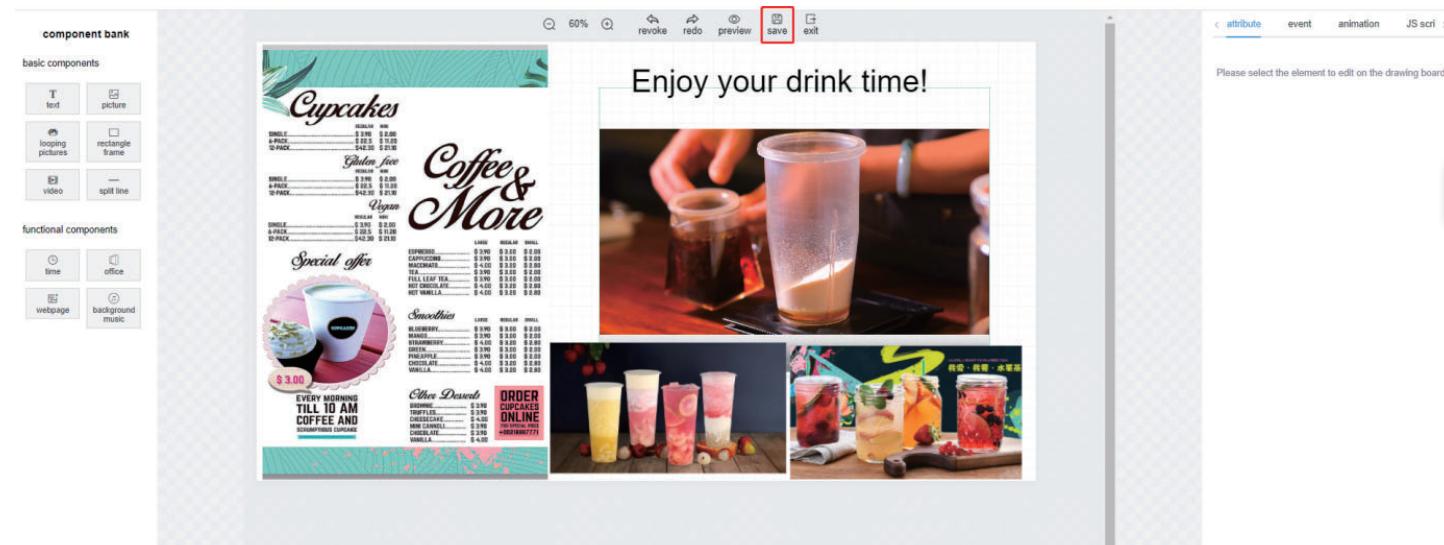
① Click “AD management” --- “customize design” --- “add program”



② choose “video” or “picture” or “date” or “time” or “text” or others on the left, and select the content on the right, it will come out in the center. You can move it freely and change the size freely.



③ When completed design, click “save”---“save & publish”, input a title and “save & publish” again. Then you can see the file is in “customize design” file list.





Enjoy your drink time!



[save or publish](#)

X



Enjoy your drink time!



[save information](#)

title:

AD description:

[save and publish](#)

[save draft](#)

[cancel](#)



Home

distribution management

AD Management

AD Playlists

Schedule AD

Content

Booting AD

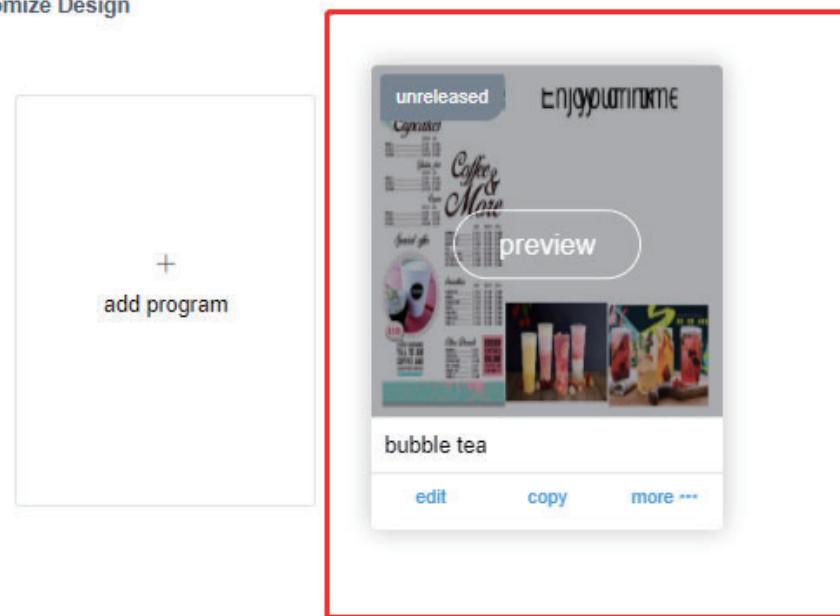
Subtitle

HOME AD

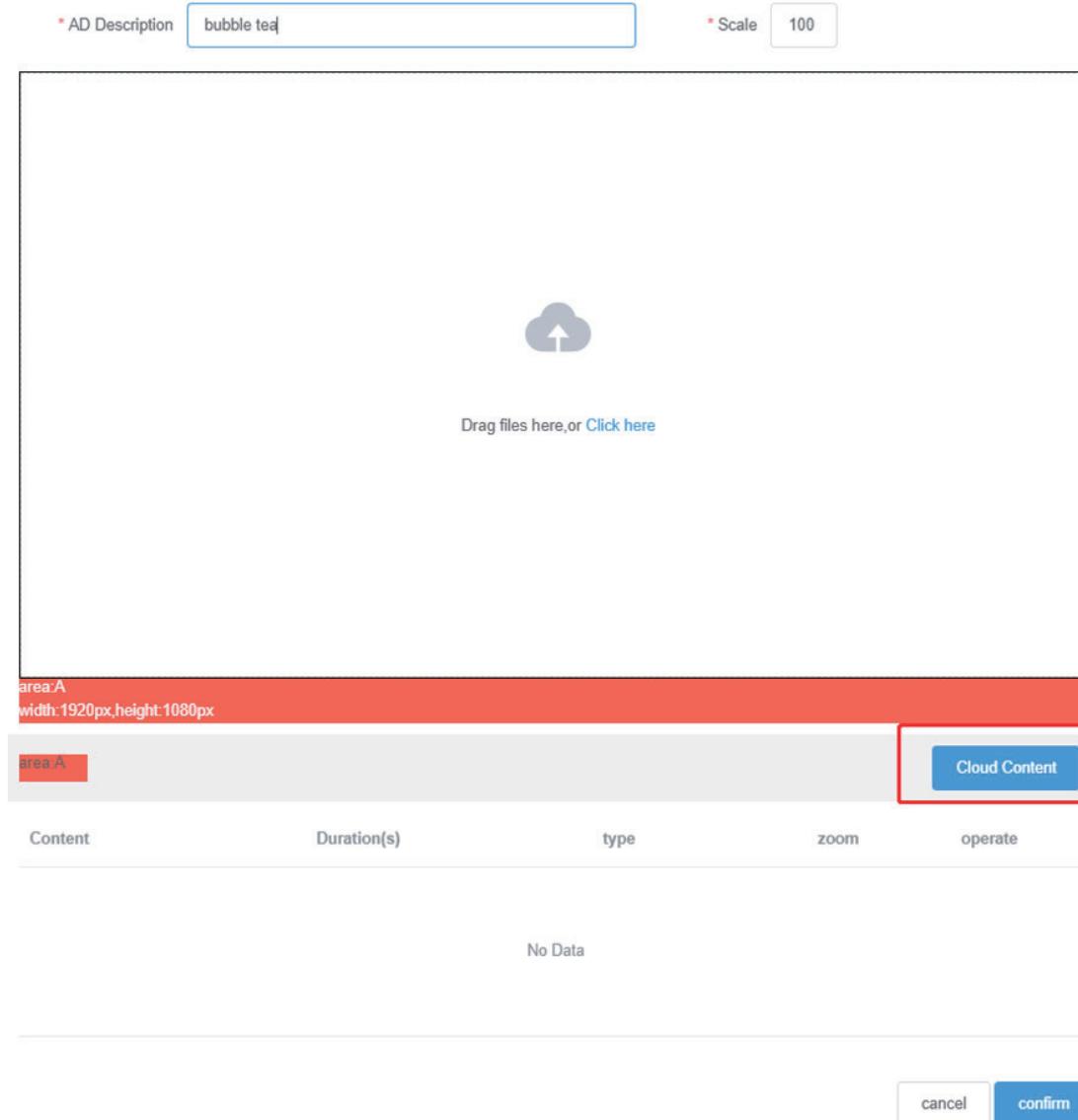
Customize Design

Branch management

Customize Design



④ go back to home page, select a SN number and click “new AD”, choose “full screen” template, choose the file from “cloud content” ---”URL”, then confirm.
(Customize design AD only can be published in “full screen” template.)



select ad resource

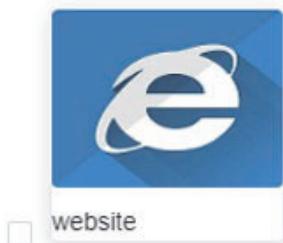
X

picture

video

URL

file



Total 2

10/page

<

1

>

Go to

1

cancel

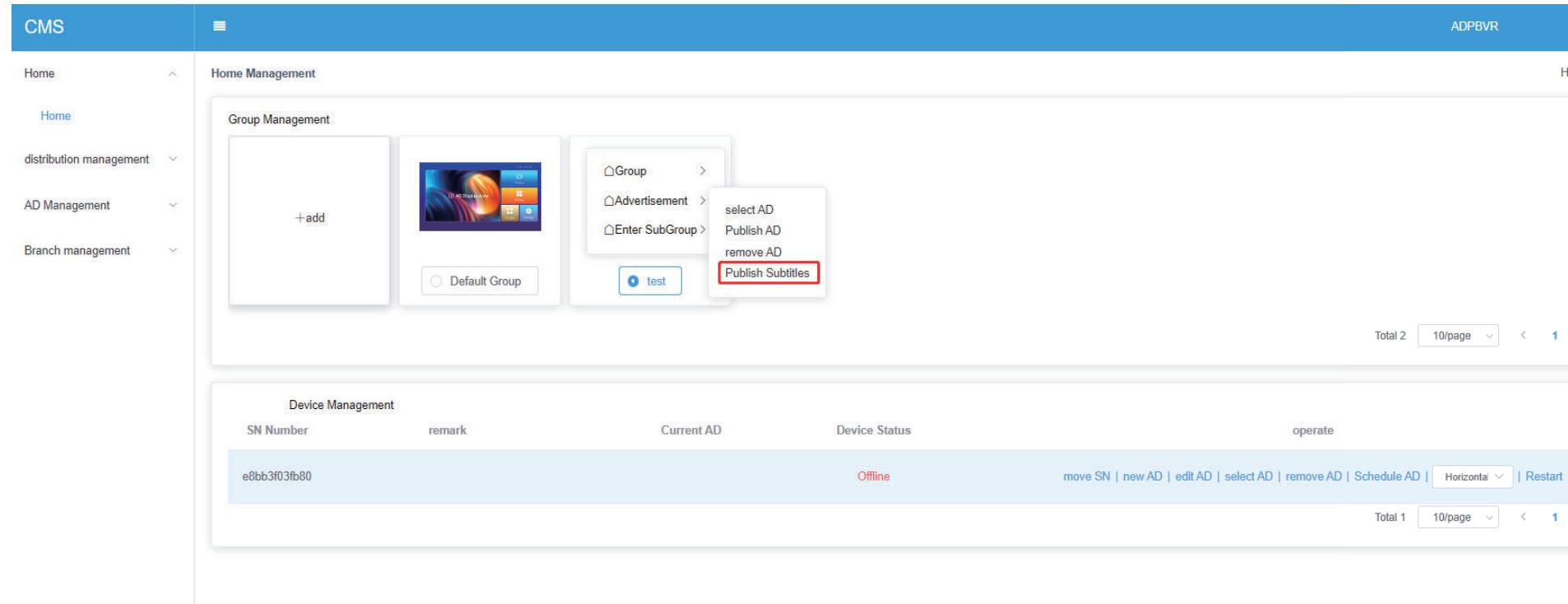
confirm

2.7. How to publish subtitle?

Subtitle only can be published for the group, but can't for SN number separately.

2.7.1 Way 1

In home page, choose a group, click “Advertisement” --- “Publish Subtitles”



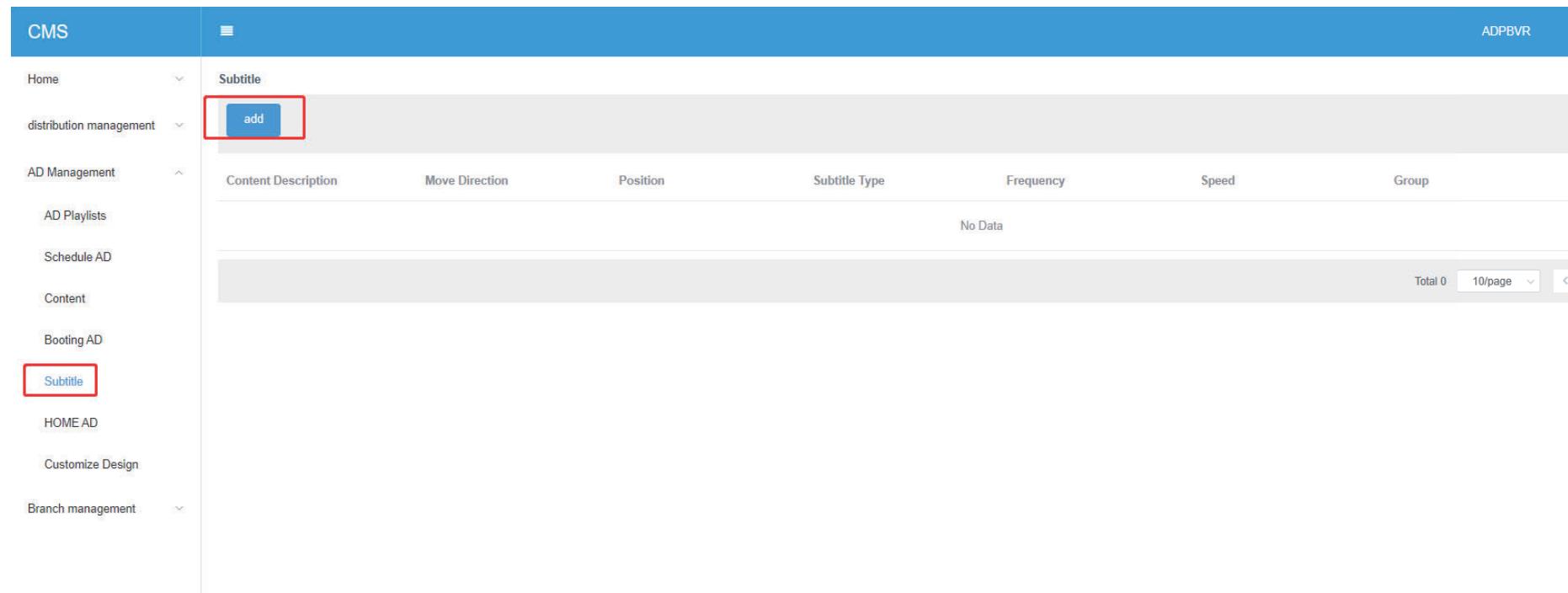
The screenshot shows the CMS software interface with the following details:

- Top Bar:** CMS, ADPBVR, and a user icon.
- Left Sidebar:** Home, distribution management, AD Management, and Branch management.
- Home Management Section:**
 - Group Management:** Contains a '+add' button, a 'Default Group' button, and a 'test' button. A context menu is open over the 'Group' button, showing options: Group, Advertisement, Enter SubGroup, select AD, Publish AD, remove AD, and Publish Subtitles. The 'Publish Subtitles' option is highlighted with a red box.
 - Device Management:** Shows a table with one row:

SN Number	remark	Current AD	Device Status	operate
e8bb3f03fb80		Offline	move SN new AD edit AD select AD remove AD Schedule AD Horizontal Restart	Total 1 10/page < 1
- Bottom Status Bar:** Total 2 10/page < 1

2.7.2 Way 2

Click “AD management” --- “subtitle” --- “add”



The screenshot shows the CMS software interface with the following details:

- Header:** CMS and ADPBVR.
- Left Sidebar:** Home, distribution management, AD Management (expanded), AD Playlists, Schedule AD, Content, Booting AD, Subtitle (highlighted with a red box), HOME AD, Customize Design, and Branch management.
- Current View:** Subtitle (highlighted with a red box). The "add" button is also highlighted with a red box.
- Table Headers:** Content Description, Move Direction, Position, Subtitle Type, Frequency, Speed, and Group.
- Table Data:** No Data.
- Bottom Right:** Total 0, 10/page, and a back arrow.

Edit subtitle:

- ① input subtitle name
- ② Select a group
- ③ Choose a position for the subtitle
- ④ Choose move direction
- ⑤ Set frequency
- ⑥ Set speed
- ⑦ Input text
- ⑧ confirm

Add Subtitle

* Content Description 1

group 2

* Position 3

Move Direction horizontal 4 vertical

* Frequency 5

* Speed 6

* Subtitle Content

File Edit View Insert Format Tools Table

Formats Paragraph

7

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There are differences in the ability of different versions to support subtitle content styles, and some versions may have styles that do not take effect.

30

2.8. About rotate horizontal & vertical

2.8.1. Rotate for device directly

A drop menu in SN list in home page to rotate directly.

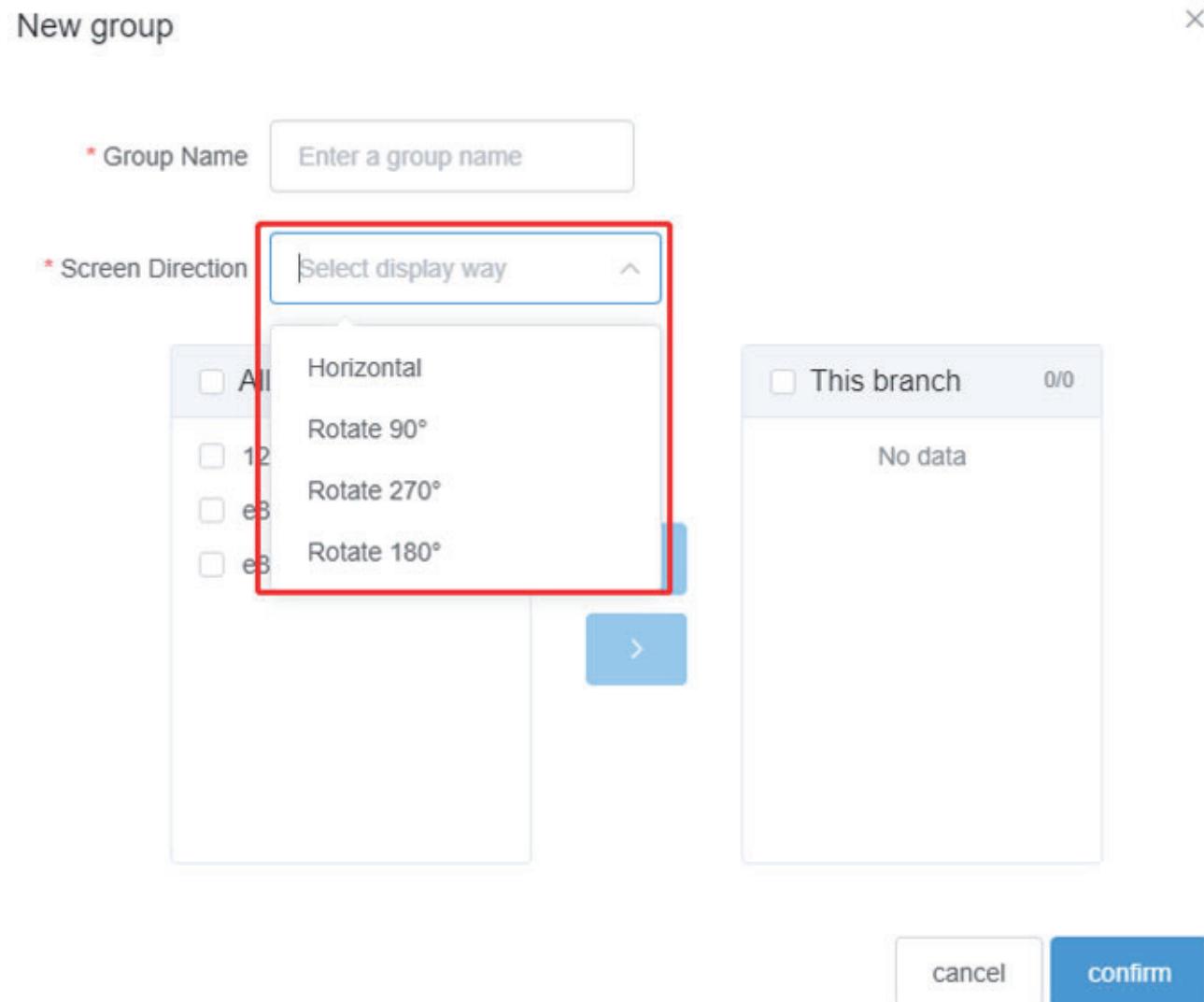
The screenshot shows the CMS Home Management interface. On the left, there is a sidebar with navigation items: Home, Home management (selected), distribution management, AD Management, and Branch management. The main content area is titled 'Home Management' and contains 'Group Management' and 'Device Management' sections. In the 'Device Management' section, there are two device entries:

SN Number	remark	Current AD	Device Status	operate
12345678		Offline	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart
e8bb3e2e2bbe	bubble tea	Online	move SN new AD edit AD select AD remove AD Schedule AD	Horizontal Restart

A context menu is open over the second device entry (SN: e8bb3e2e2bbe), showing options: Horizontal, Rotate 90°, Rotate 180°, and Rotate 270°. The 'Horizontal' option is currently selected.

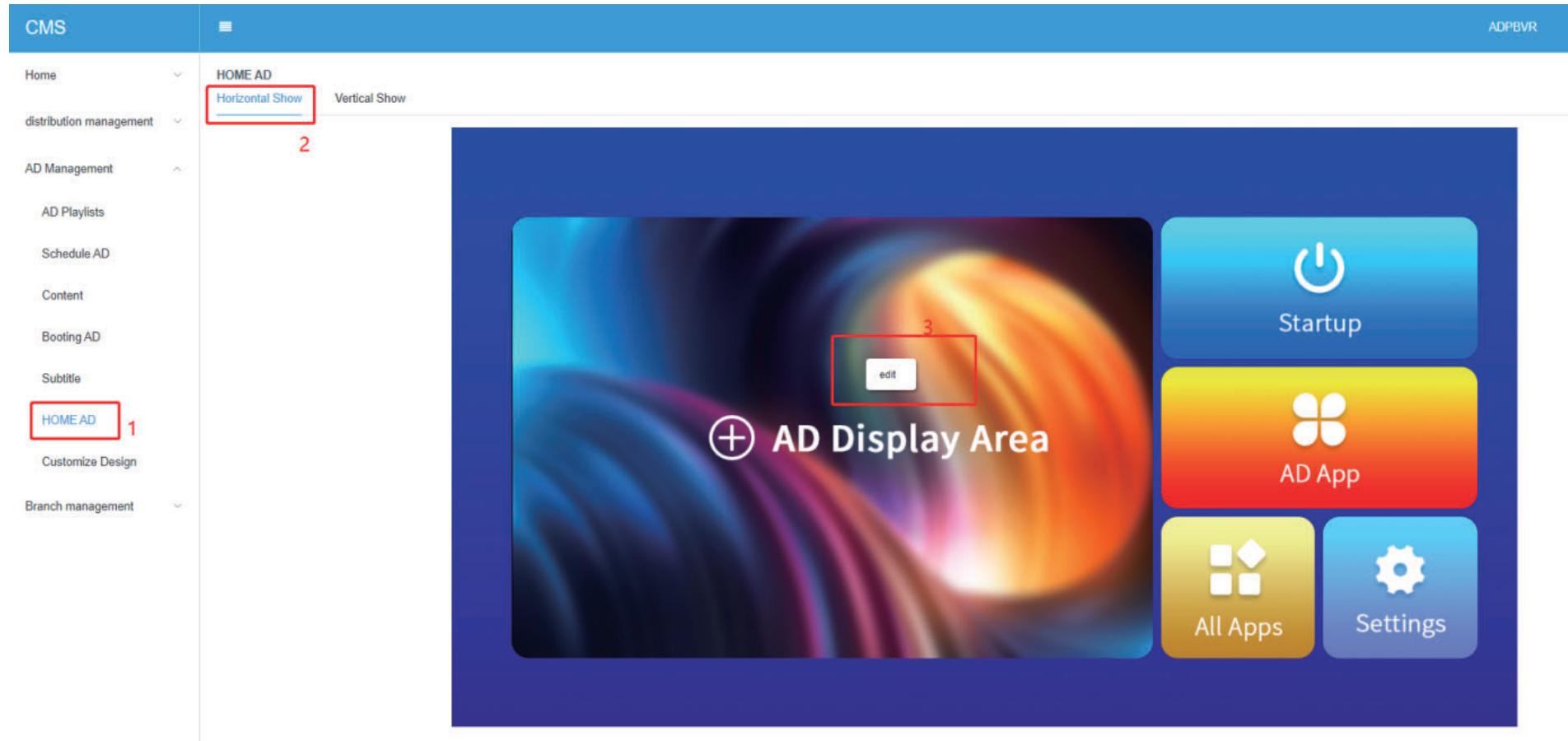
2.8.2 Rotate for group

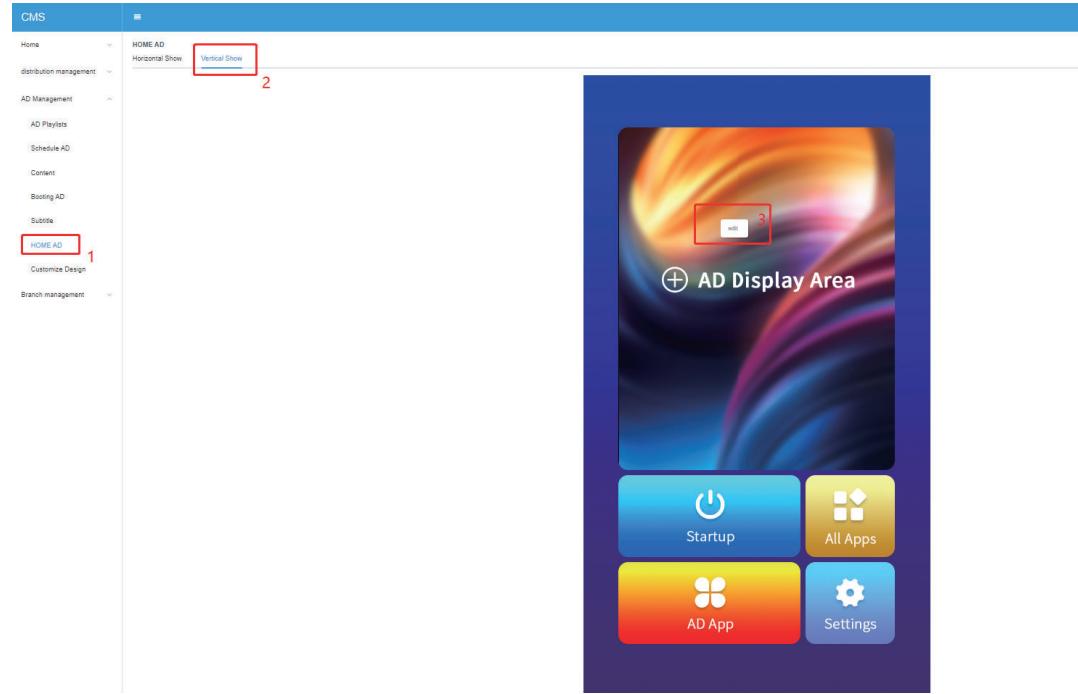
Only can choose horizontal and vertical when you create a new group. It can't be changed anymore. Also group AD direction should be the same to the group direction.



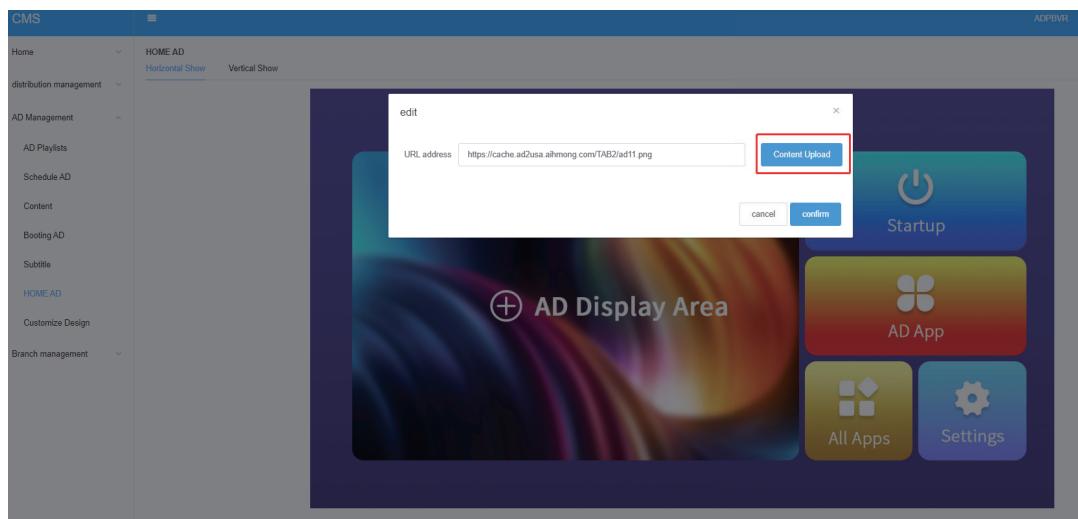
2.9. How to set home AD for device?

① Click “Home AD” --- “horizontal”, or “Home AD” --- “vertical”, put your mouse to the biggest area, click right key, click “edit”



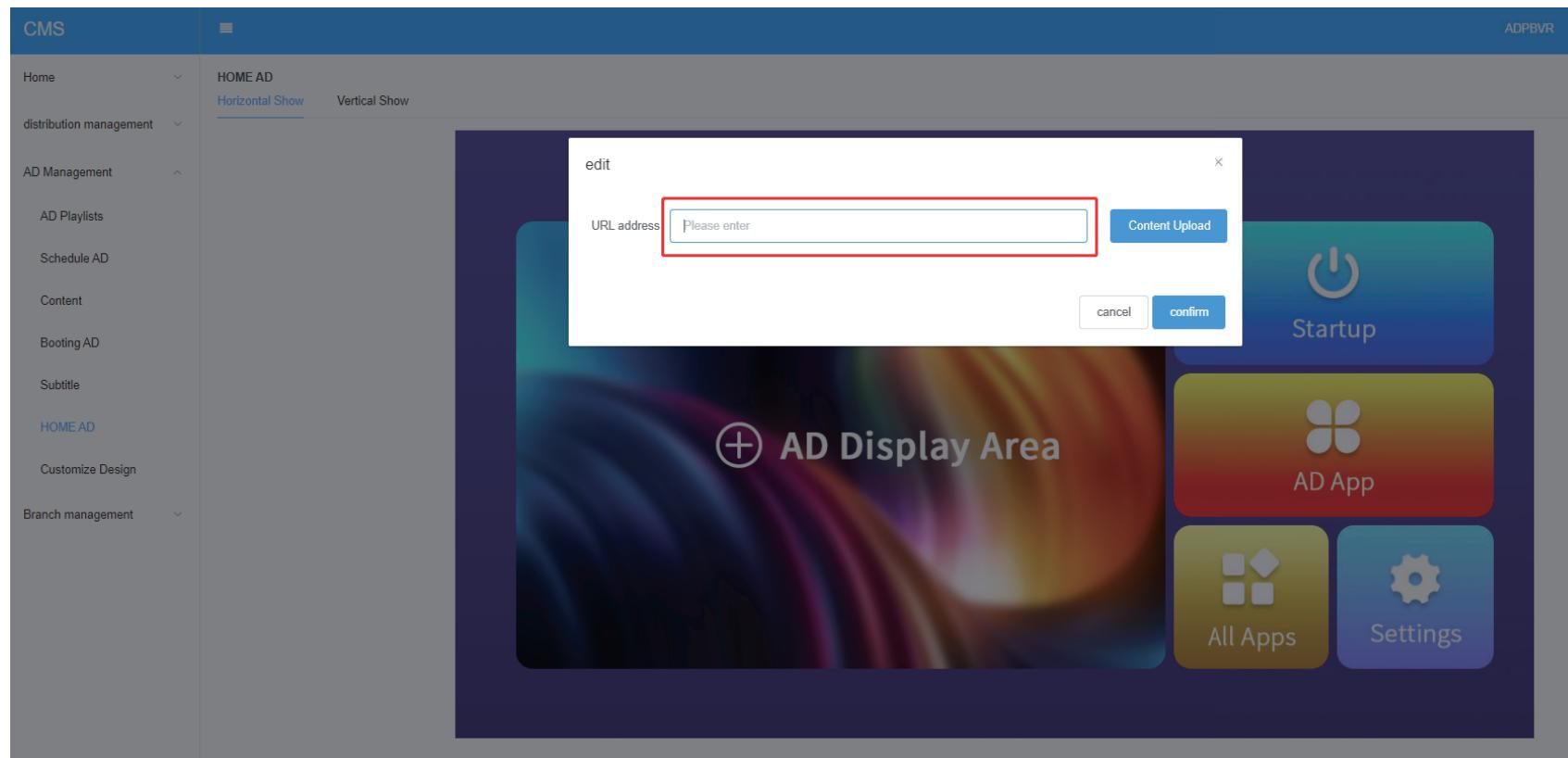


② Click “content upload” to upload a picture or video from your local PC, and confirm.



Note:

- ① Only can upload picture or video for this area.
- ② Need restart device to get the updating.
- ③ If you'd like set back the default page, just need delete the URL address and confirm in CMS, then it will come back the default page.
- ④ “home AD” for all devices in your CMS account. Set horizontal AD for horizontal devices, vertical AD for vertical devices.
- ⑤ If you distribute devices to others, move devices SN numbers to other branches, “home AD” set will disappear and it will come back to default home page.

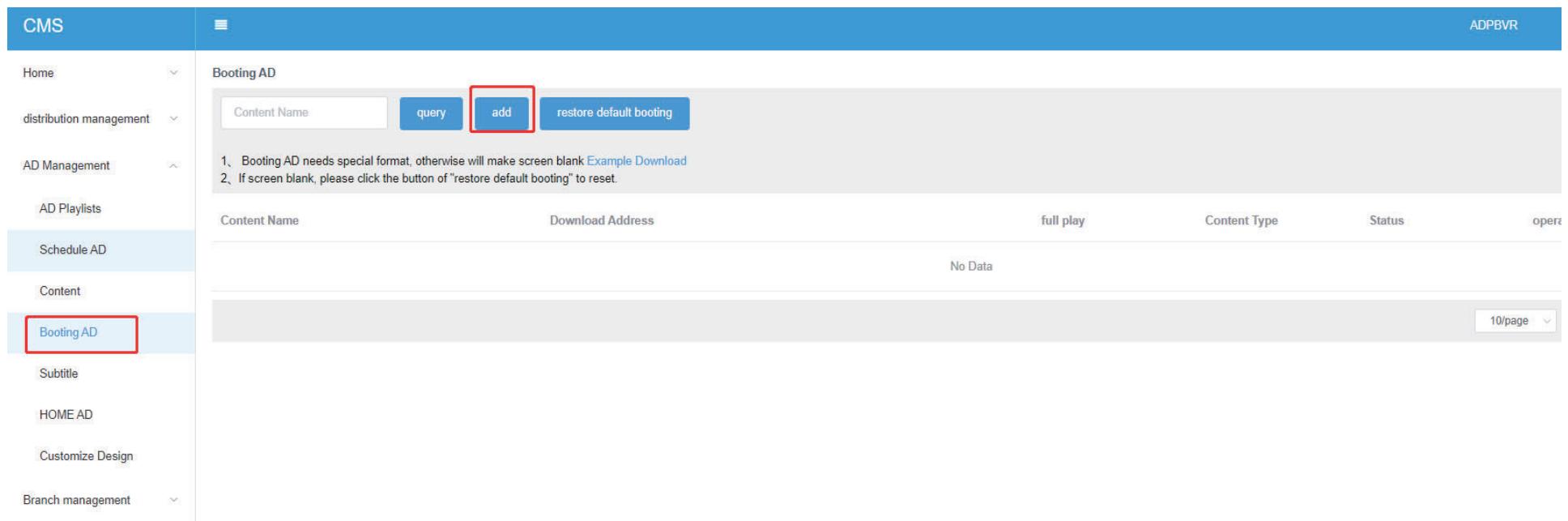


2.10. How to set Booting AD?

Note:

- ① “Booting AD” for all devices in your CMS account.
- ② “Booting AD” won’t disappear even when you distribute devices to other branches.
Unless set new booting AD in new branch to replace it.

Click “AD Management” --- “Booting AD” --- “Add”



Content Name

query

add

restore default booting

1. Booting AD needs special format, otherwise will make screen blank [Example Download](#)
2. If screen blank, please click the button of "restore default booting" to reset.

Content Name	Download Address	full play	Content Type	Status	oper
No Data					

10/page

Input booting AD name, upload file, and confirm.

The file should be zip file or mp4 file. Professional file for booting animation. You can ask your designer to help to make the file, or download “example file” for reference from CMS.

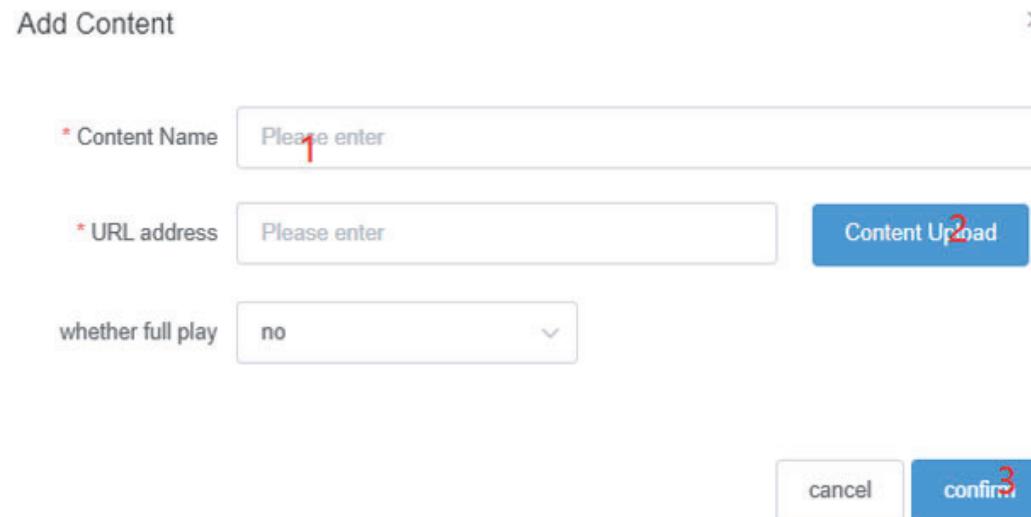
Add Content

* Content Name

* URL address Content Upload 2

whether full play

cancel confirm 3



If you'd like to restore default booting, you can click “restore default booting” to recover.

CMS

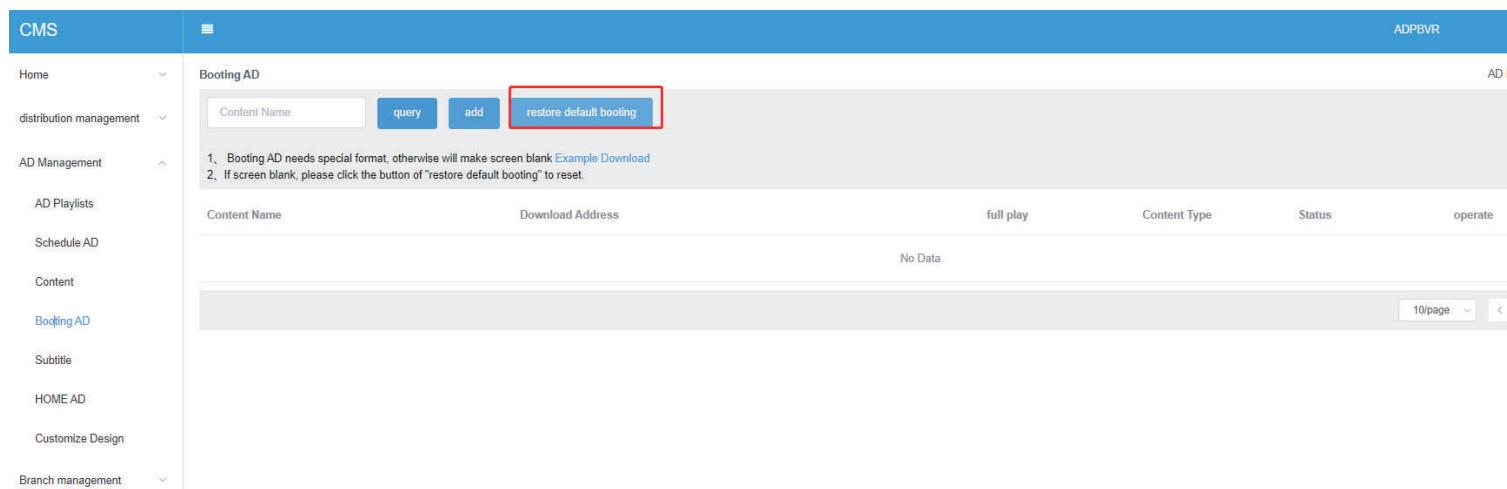
Booting AD

Content Name query add **restore default booting**

1. Booting AD needs special format, otherwise will make screen blank [Example Download](#)
2. If screen blank, please click the button of “restore default booting” to reset.

Content Name	Download Address	full play	Content Type	Status	operate
No Data					

10/page < >



3. Device Operation Guide

3.1. How to set WIFI?

Device will go to AD playing directly when turn on, please use remote controller to click “<---” back to home page, then click “settings” --- “Wi-Fi” to set wifi.

3.2. How to set time zone?

From device home page, click “settings” --- “Date & time” --- “Select time zone”

3.3. How to set display area?

- ① From device home page, click “settings” --- “Display” --- “Display area set”
- ② Click “OK” key on the remote controller to choose “left top” or “right bottom”
- ③ Click “<” “>” “^” “v” to adjust display area.

3.4. How to get a log number?

Log number is for us to check device working record and solve issue for you if any need.

From device home page, click “All Apps” --- “LogUpload”, click this icon 2 times to get a log number.

3.5. How to USB play autoly?

Pictures and videos is saved in USB directly, without any folder.

Plug USB to device, it will play the pictures and videos autoly.

USB playing is prior to CMS playing.

3.6. How to check and select resolution?

From device home page, click “settings” --- “Display” --- “Custom display format”

If your screen supports 3840*2160, the device supports 3840*2160 max too.

If your screen supports 1920*1080 max, the device supports 1920*1080 max too.

Device resolution can't be more than screen's.

3.7. How to factory reset device?

From device home page, click “settings” --- “Backup & reset”

If device is in a CMS account, and you already published AD to device, even after factory reset, the device still can get the AD and play it autoly. Unless you remove the AD in CMS.

4. FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

5. About LUNZN

Shenzhen Lunzn Technology Co., Ltd. was established in 2012 in Shenzhen China. 10+ years experience of professional intelligent digital signage player hardware and software system development. 70+ talents in our R&D team.

We are the National High-Technology Enterprise, excellent supplier of HUAWEI Group, gold partner of IFLYTEK company. We got 100+ national patents and technology authentications in TV Box appearance, multimedia, software, AI voice control tech, etc.

We cooperated with various famous brand customers. Provide solutions for Huawei, Konka, TCL, Hisense, etc. All our products are high quality, valuable and stable. With our complete After-sales service and technology service system, to ensure our products' advancement and market competition.

We provide one-stop solution for customers. Not only a player, but also the appearance design, hardware quality assurance, software development, function customization, etc. We offer OEM & ODM service for customers!