

# **DS Creator Duo app for Windows**

## **Quick Start Guide**

v.1.0 July 18, 2023

# Contents

1.	Introduction.....	3
1.1	System requirements .....	3
1.2	Preparing for first time use .....	3
1.3	HDMI 2.0 & HDMI 1.4.....	3
1.4	Supported format.....	4
1.4.1	Video format not supported.....	5
2.	Getting started – Windows PC .....	6
2.1	App overview .....	6
2.1.1	All schedules .....	6
2.1.2	Settings .....	7
2.1.3	Set / Enter device password .....	7
2.2	Create a new project .....	11
2.2.1	Content type .....	15
2.2.2	Scrolling text .....	16
2.2.3	Media (Picture + Video).....	20
2.2.4	Web link.....	22
2.2.5	Project schedule settings.....	23
2.3	Edit project .....	25
2.3.1	Edit content type .....	25
2.3.2	Preview project.....	25
2.3.3	Delete project.....	26
2.4	Upload project.....	27
2.4.1	Upload .....	27
2.4.2	Set / Enter device password .....	28
2.4.3	Forget NS03 device password .....	29
2.4.4	Upload status.....	29
3.	Getting started – NS03 device.....	32
3.1	App overview .....	32
3.1.1	All schedules .....	32
3.1.2	Settings .....	33

3.2	Create a new project .....	36
3.2.1	Content type .....	40
3.2.2	Scrolling text .....	41
3.2.3	Media (Picture + Video) .....	43
3.2.4	Web link .....	46
3.2.5	Project schedule .....	46
3.2.6	NS03 device status .....	47
3.3	Edit project .....	48
3.3.1	Edit content type .....	48
3.3.2	Preview or play an existing project .....	49
3.3.3	Delete project .....	50
4.	Field Character Length .....	51

# 1. Introduction

**DS Creator Duo** is an app for Shuttle XPC NS03 series. You can use **DS Creator Duo** on your Windows PC to upload digital signage contents such as scrolling text, pictures, videos and web link to your digital signage device by following these simple steps.

## 1.1 System requirements

**Windows PC:** Win 10 & Win 11

**System RAM:** 8GB or more

**Note:**

The recommended system memory size is 8GB or more. If the system memory is less than 8GB, the software operations may not be able to complete due to memory constraints.

**NS03 device** (The Android version installed): Android 11

## 1.2 Preparing for first time use

First of all, you need to install the **DS Creator Duo** for Windows software from Shuttle NS03 official website.

Second, you need to connect your PC to the same local area network (LAN) as the NS03 series:

1. In Wi-Fi quick setting, select Manage Wi-Fi connections.
2. Choose the Wi-Fi network you want, then select Connect.
3. Confirm that your Windows PC is connected to the same LAN as the NS03 series.
4. Click to open the **DS Creator Duo** software.

**Note:** Make sure the built-in “DS Creator Duo” app on the NS03 series is running (so that the project content can be uploaded from your client device).

## 1.3 HDMI 2.0 & HDMI 1.4

Support project playback on single or dual monitors (the user needs to configure audio output via HDMI 1.4 or HDMI 2.0)

- HDMI 2.0 supports 4K resolution at 60 FPS
- HDMI 1.4 supports 1080P resolution at 60 FPS

NS03 rear view:



## 1.4 Supported format

1. The specified frames for media (pictures & videos):  
The recommended file size is within 500MB. If the file is too large, it may not be able to upload due to memory constraints.
  - 16:9 (1.78:1) - 4K resolution: 3840 x 2160 pixels
  - 16:9 (1.78:1) - 1080P resolution: 1920 x 1080 pixels
  - 4:3 (1.33:1) - 4K resolution: 2880 x 2160 pixels
  - 4:3 (1.33:1) - 1080P resolution: 1440 x 1080 pixels
2. Multi-media support to run (**recommended formats**):
  - **Support 4K** (3840 x 2160 pixels):
    - H.264/AVC
      - a. Maximum frame rate: 60fps
      - b. Maximum bit rate: 50Mbps
      - c. File format: MP4, MOV, 3GP
    - H.265/HEVC
      - a. Maximum frame rate: 60fps
      - b. Maximum bit rate: 60Mbps
      - c. File format: MP4, MOV

**Note:** 4K video, only single frame is supported. (V1, H1 & H6 layout)
  - **Support 1080P** (1920 x 1080 pixels):
    - H.264/AVC
      - a. Maximum frame rate: 60fps
      - b. Maximum bit rate: 50Mbps
      - c. File format: MP4, MOV, 3GP
    - H.265/HEVC
      - a. Maximum frame rate: 60fps
      - b. Maximum bit rate: 60Mbps
      - c. File format: MP4, MOV

### Important notice:

- **To upload a Single screen project to dual monitors**  
When uploading a Single screen project to a device with dual monitors connected, the project will only be played on the HDMI 1.4 connected monitor, and HDMI 2.0 connected monitor can be operated by the user. The user needs to configure audio output via HDMI 1.4 or HDMI 2.0.

**Note:**  
To leave the playback of the current project, swipe down from the top of the screen to open Quick settings and click the **DS Creator Duo** app to return to app's home page.
- **To upload a Dual screen project to dual monitors**  
When uploading a Dual screen project to a device with dual monitors connected, if the content of the Dual screen project has separate audio outputs from two monitors, the audio outputs from both sides will be played on HDMI 2.0 at the same time. Therefore, you can manually tick the Mute video option in the settings page to mute the sound of one of the screens (please refer to 2.2.3

Media (Picture + Video)). The user needs to configure audio output via HDMI 1.4 or HDMI 2.0.

**Note:**

To leave the playback of the current project, click the Right mouse button or click the Back button in the Navigation bar to return to **DS Creator Duo** app's home page.

### 1.4.1 Video format not supported

#### 1. Why won't MP4 play on NS03 device?

There are a few reasons why MP4 files might not play on an NS03 device.

- 1) The file may be too large or too compressed to play smoothly.
- 2) The file may not be encoded in the correct format.

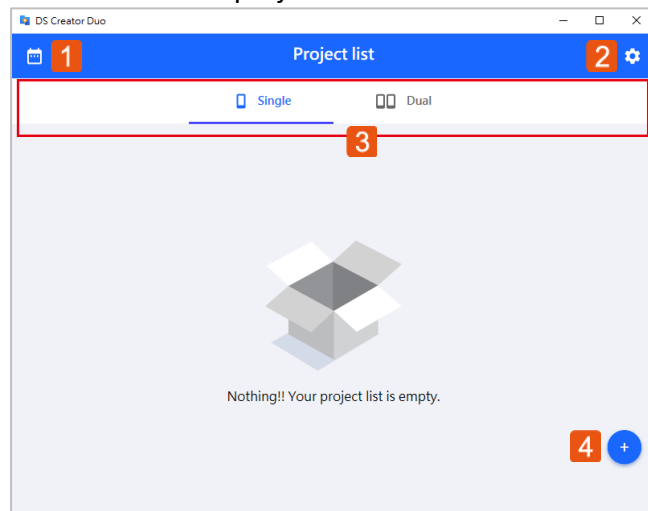
Supported formats:

MPEG-4	<ul style="list-style-type: none"><li>• Video codec: MPEG4</li><li>• Supported image size: 1920 x 1088 pixels</li><li>• Maximum frame rate: 30fps</li><li>• Maximum bit rate: 38.4Mbps</li><li>• File format: MP4, MOV, 3GP</li></ul>
H.264/AVC	<ul style="list-style-type: none"><li>• Video codec: H.264</li><li>• Supported image size: 3840 x 2160 pixels</li><li>• Maximum frame rate: 60fps</li><li>• Maximum bit rate: 50Mbps</li><li>• File format: MP4, MOV, 3GP</li></ul>
H.265/HEVC	<ul style="list-style-type: none"><li>• Video codec: H.265</li><li>• Supported image size: 3840 x 2160 pixels</li><li>• Maximum frame rate: 60fps</li><li>• Maximum bit rate: 60Mbps</li><li>• File format: MP4, MOV</li></ul>

## 2. Getting started – Windows PC

### 2.1 App overview

1. All schedules: Displays all schedules that have been set to play.
2. Settings:
  - Audio output: HDMI 1.4 or HDMI 2.0
  - AutoPlay after system start up
  - Sleep mode
3. Single monitor & Dual monitors mode switch.
4. Create a new project button.

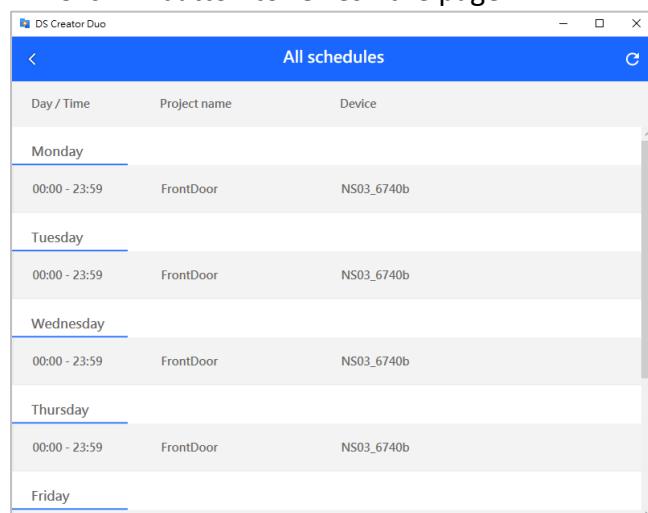


#### 2.1.1 All schedules

Displays all schedules that have been set to play.

Note:

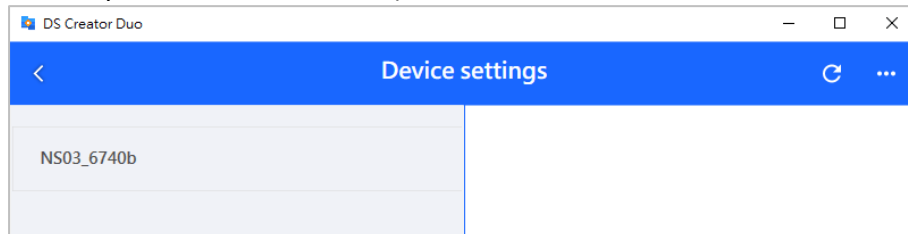
- Click < button to go back to the previous page.
- Click ↻ button to refresh the page.



## 2.1.2 Settings

Before setting up the NS03 device, make sure your Windows PC is connected to the same local area network (LAN) as the NS03 device and the built-in “DS Creator Duo” app is running.

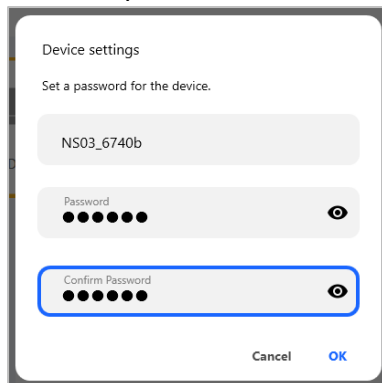
- 1) Click a NS03 in the list (The 5-digit alphanumeric character after the NS03 name is the product serial number).



## 2.1.3 Set / Enter device password

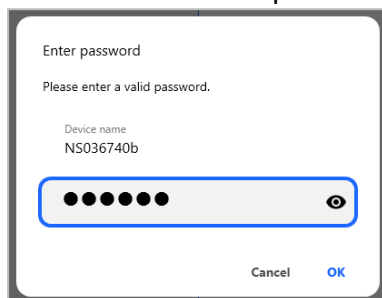
### First time set password:

- The first time connect to NS03 device.
- 8 characters maximum.
- Set a password and enter a confirm password.



### Enter NS03 device password:

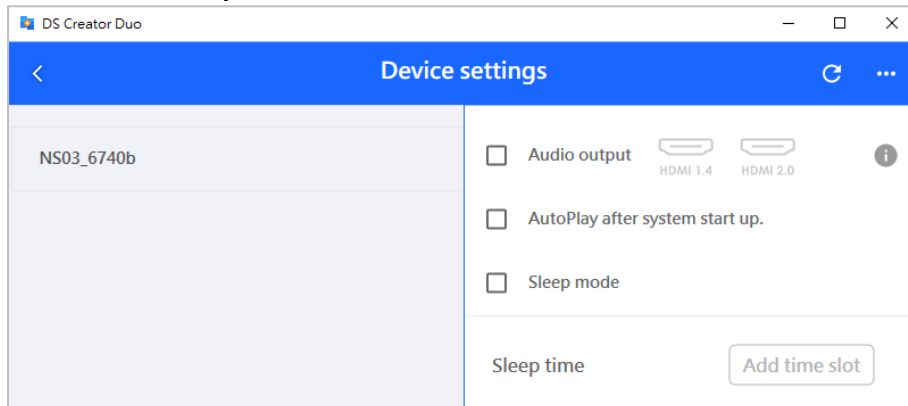
- After setting the NS03 device password, when connecting again, you need to enter the device password before uploading the project.



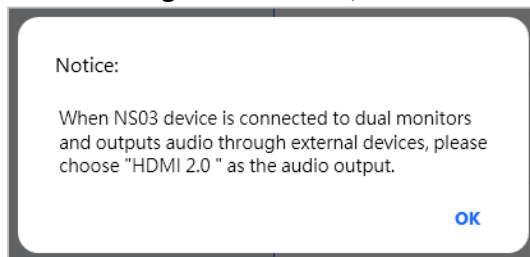


## Audio output

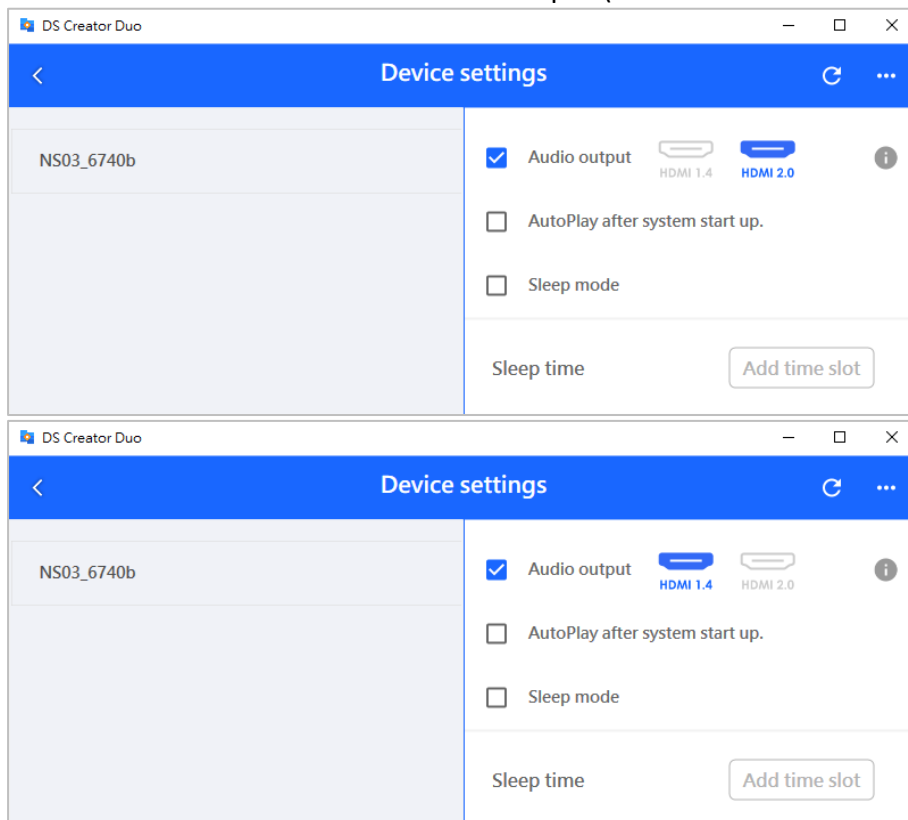
- 1) Select **Audio output** checkbox.



- 2) After reading the reminder, click **OK** button.



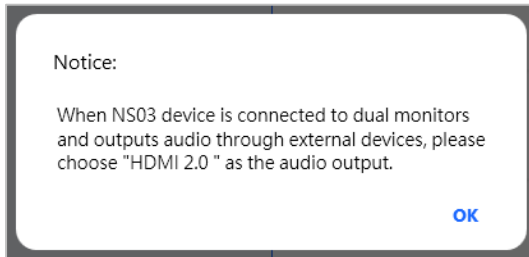
- 3) Select **HDMI 1.4** or **HDMI 2.0** as audio output (Default checked HDMI 2.0).



### **Note:**

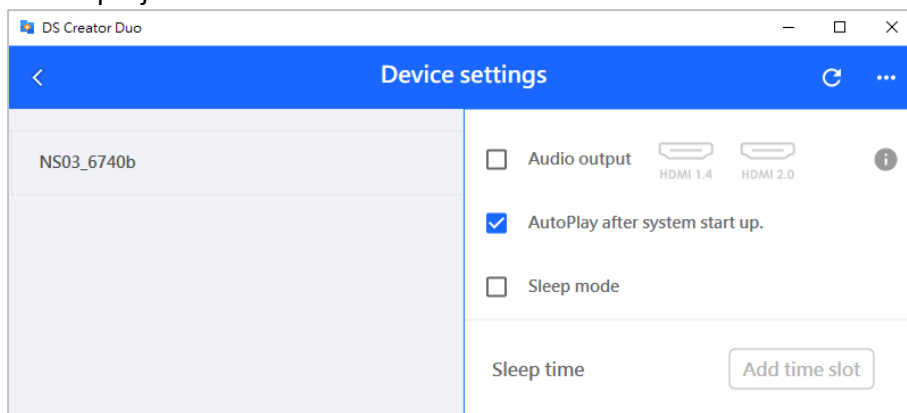
- When NS03 device is connected to dual monitors and outputs audio through external devices (e.g.: 3.5mm earphone or wired/ wireless speakers), you need to choose "HDMI 2.0" as the audio output.

- About “upload a single screen project to dual monitors” & “upload a dual screen project to dual monitors”, please refer to P.4 Important notice.
- Click ⓘ button to display the Audio output reminder.



### **AutoPlay after system start up**

After the system start up, the DS Creator Duo app will be played automatically based on the project's schedule.




### **Note:**

In the Setup Wizard app of NS03, once the DS Creator Duo app is selected, the project will be played automatically after every boot.




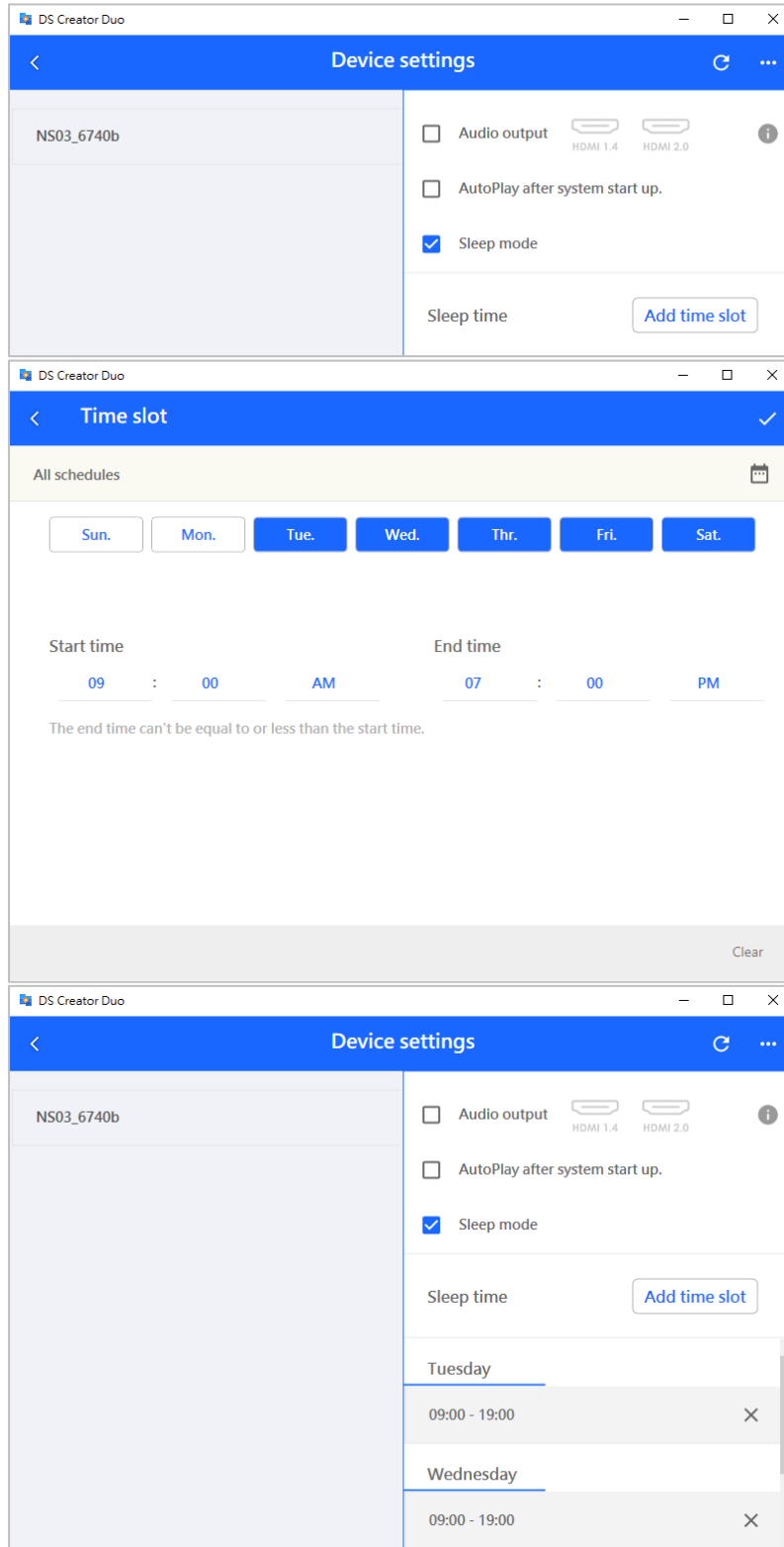
### **Sleep mode**

- 1) Select **Sleep mode** checkbox.
- 2) Select **Add time slot** to set sleep mode.

3) Click  button at the top left to save and go to the next step.

**Note:**

- The end time can't be equal to or less than the start time.
- The settings will be overwritten once the Windows PC successfully uploads the project to the NS03 device.
- Click **Clear** button to reset the settings.
- Click  button to delete the specified sleep time.



The image displays three sequential screenshots of the DS Creator Duo application interface, illustrating the process of configuring device settings and time slots.

**Screenshot 1: Device settings**

The interface shows the "Device settings" screen for device "NS03\_6740b". The settings include:

- ☐ Audio output (HDMI 1.4, HDMI 2.0)
- ☐ AutoPlay after system start up.
- ☒ Sleep mode

Below these settings is a "Sleep time" section with an "Add time slot" button.

**Screenshot 2: Time slot**

The interface shows the "Time slot" screen. It displays "All schedules" with a calendar icon. The days of the week are listed: Sun., Mon., Tue., Wed., Thr., Fri., Sat. The "Start time" is set to 09:00 AM and the "End time" is set to 07:00 PM. A message states: "The end time can't be equal to or less than the start time." A "Clear" button is visible at the bottom right.

**Screenshot 3: Device settings (Expanded)**

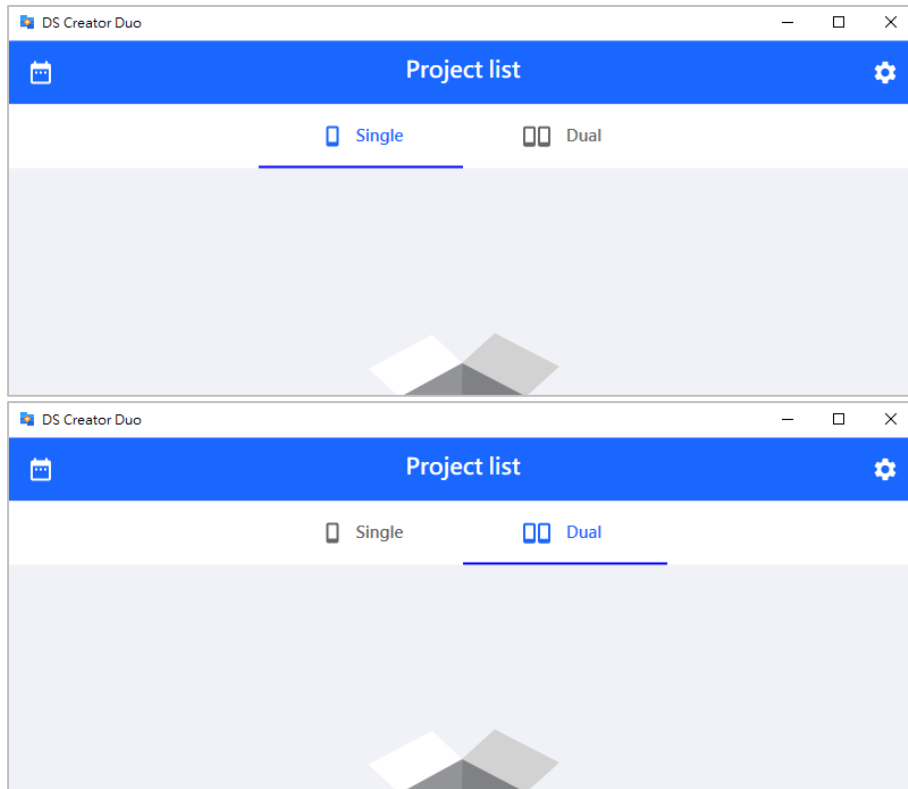
The interface shows the "Device settings" screen again, but with the "Sleep time" section expanded. It shows a list of scheduled time slots:

- Tuesday: 09:00 - 19:00 (with an X icon to delete)
- Wednesday: 09:00 - 19:00 (with an X icon to delete)

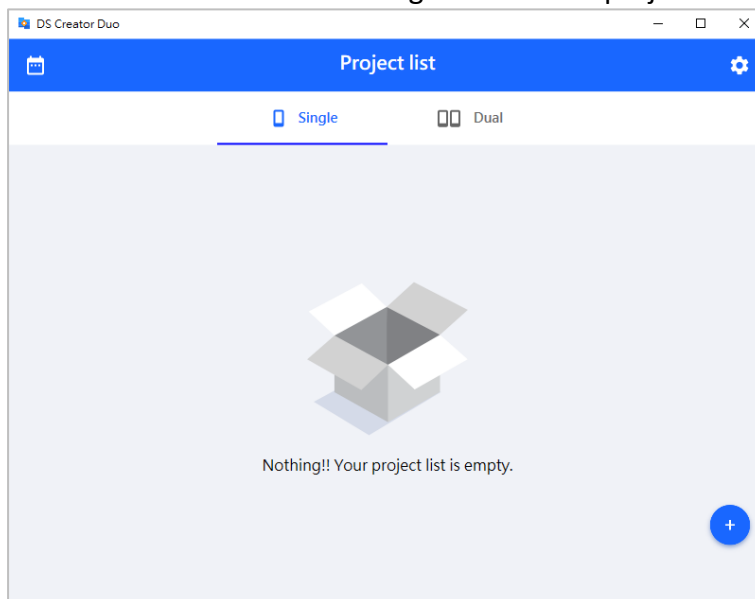
## 2.2 Create a new project

Click to open **DS Creator Duo** app.

1. Choose **Single monitor** or **Dual monitors** mode.



2. Click **+** button at the bottom right to create a project.



3. Enter a project name.

Note:

- Project name can't be blank.
- The created project name cannot be repeated.
- No more than 20 characters in length.
- Project name can only contain 1-20 of English letters (A-Z, a-z), digits (0-9) & special characters (hyphen "-" and underline "\_").

**Note:**

Unsupported symbols (full/half width):

[ `~!@#\$%^&\*()+=|{}';,\\[\].<>/? ! ¥... ( ) - 【 】 ‘ ’ ; : ” ” ° , 、 ? " ]

#### 4. Reminder:

##### Single monitor mode



##### Dual monitors mode



#### 5. Select a frame layout you need. There are 11 frame layouts available.



Note:





- Dual monitors mode:  
Click the **HDMI 1.4** or **HDMI 2.0** icon above to switch.

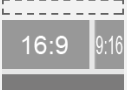
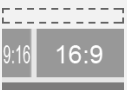

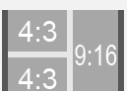



- The specified frames for scrolling text only:



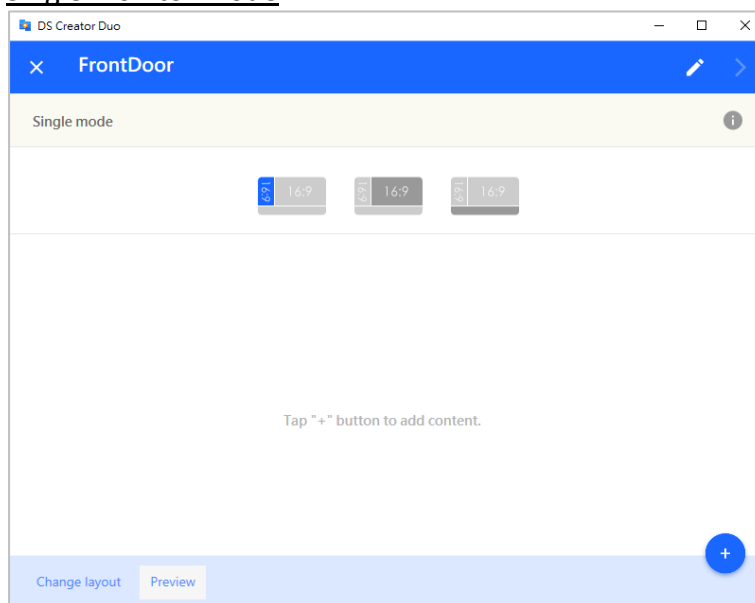
### Type description

Portrait / Vertical (*all resolutions are upper limit)		
V1		<b>Picture:</b> 2160 x 3840px    Format: .jpg, .png, .gif, .bmp <b>Video:</b> 2160 x 3840px    Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
V2		<b>Picture:</b> 1080P                      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P                      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
V3/V4		<b>Picture:</b> 1080P                      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P                      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
Landscape / Horizontal (*all resolutions are upper limit)		
H1		<b>Picture:</b> 3840 x 2160px    Format: .jpg, .png, .gif, .bmp <b>Video:</b> 3840 x 2160px    Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)

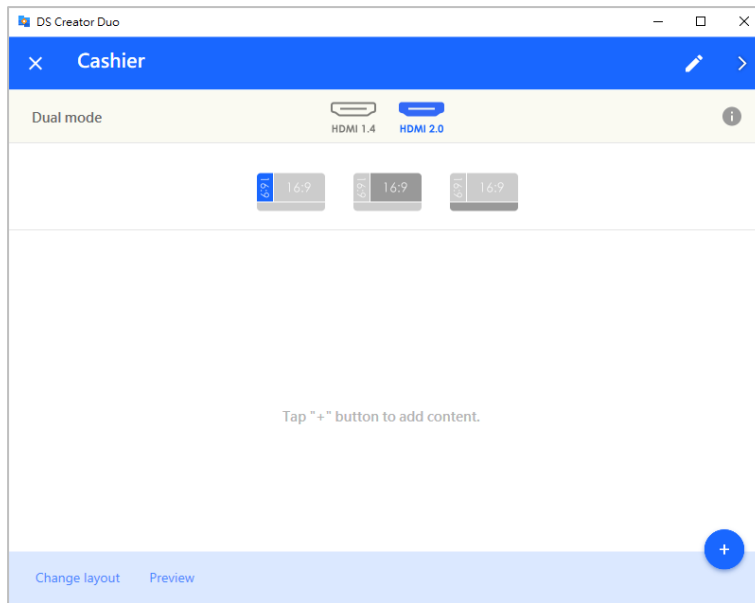
H2/H3		<b>Picture:</b> 1080P      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
H4/H5		<b>Picture:</b> 1080P      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
Landscape / Horizontal (*all resolutions are upper limit)		
H6		<b>Picture:</b> 2880 x 2160px    Format: .jpg, .png, .gif, .bmp <b>Video:</b> 2880 x 2160px    Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
H7		<b>Picture:</b> 1080P      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)

- Click on a frame of layout to add content.
- Click  button at the bottom right to add content.

#### Single monitor mode



#### Dual monitors mode



8. After adding content, click ➤ button at the top right to go to the next step.

Note:

- Click ✎ button to edit the project name.
- Click ✕ button to leave the page.
- Click ⓘ button to display the reminder.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.

### 2.2.1 Content type

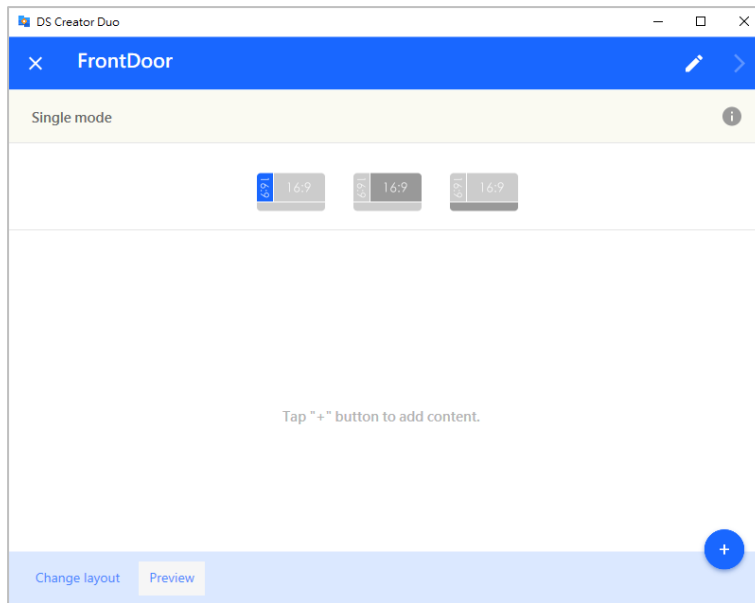
Provides 3 types of content.

Choose a specified frame of layout, then click + button at the bottom right to add content.

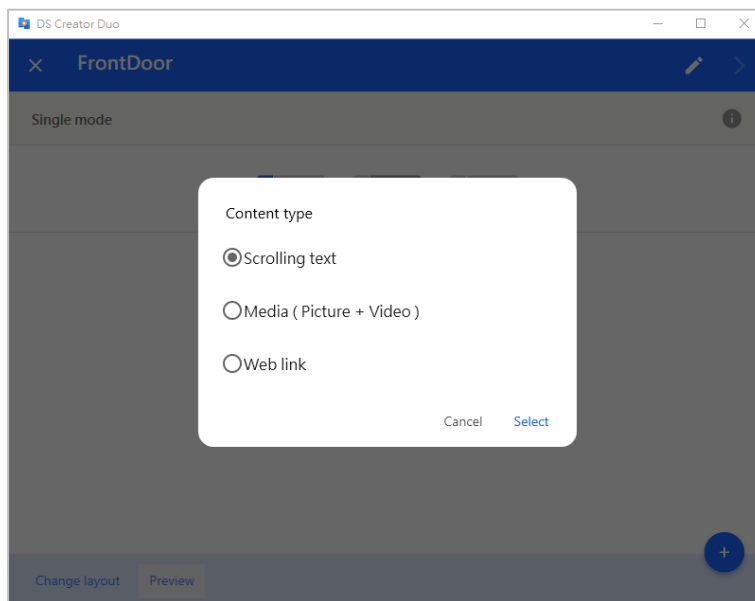
Note:

- Click ✎ button to edit the project name.
- Click ✕ button to leave the page.
- Click ⓘ button to display the reminder.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.



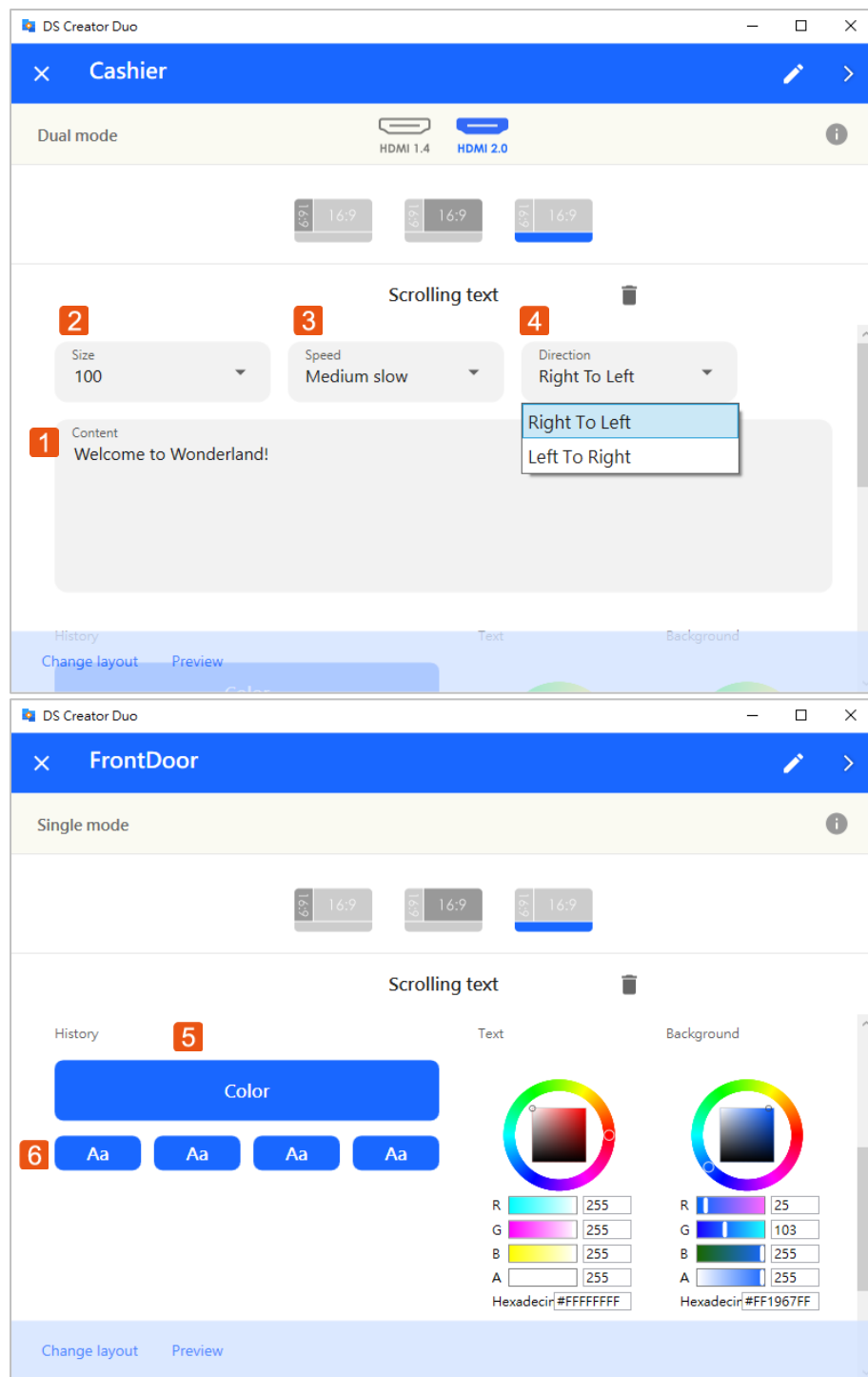


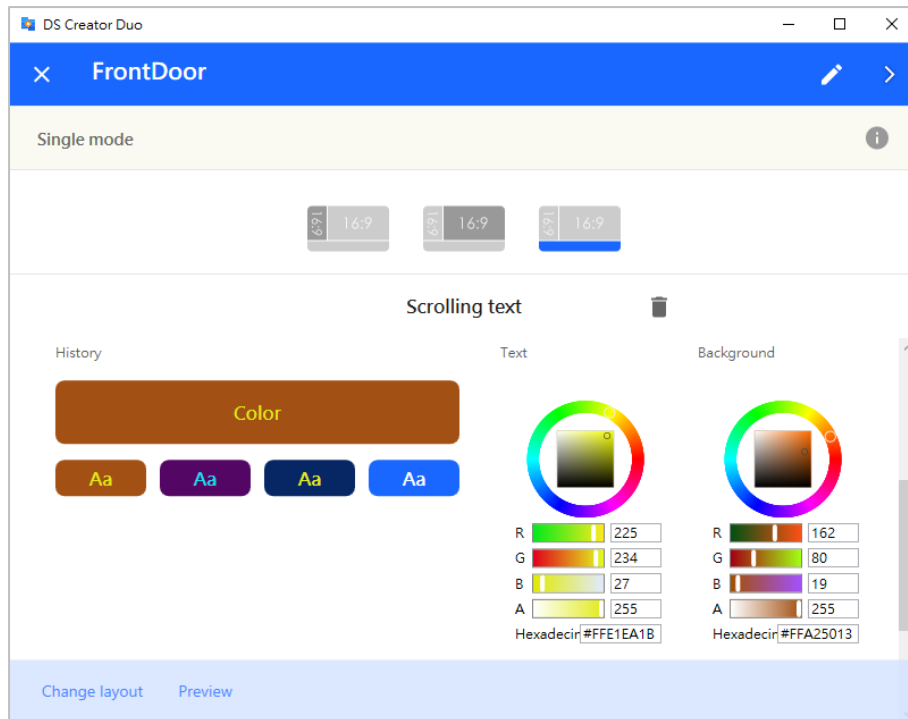
- Scrolling text
- Media (picture + video)
- Web link



## 2.2.2 Scrolling text

1. Text content
2. Font size
3. Speed of scrolling text
4. Direction of scrolling text
5. Color picker of text & background
6. Aa: Color history buttons (the latest 4 text and background color records)



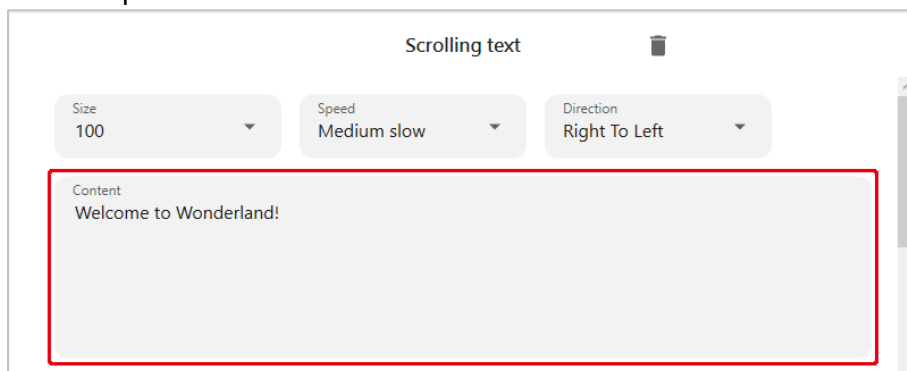


#### Note:

- History: Every selected color will be automatically recorded.
- Click button to edit the project name.
- Click button to leave the page.
- Click button to display the reminder.
- Click button to delete the scrolling text & color.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.

#### 1) Text content

- Font size: 24, 38, 48, 70, 80, 96, 120, 160
- 30-200 pt (Provides option to specify font size and manual input)
- Up to 150 character limit

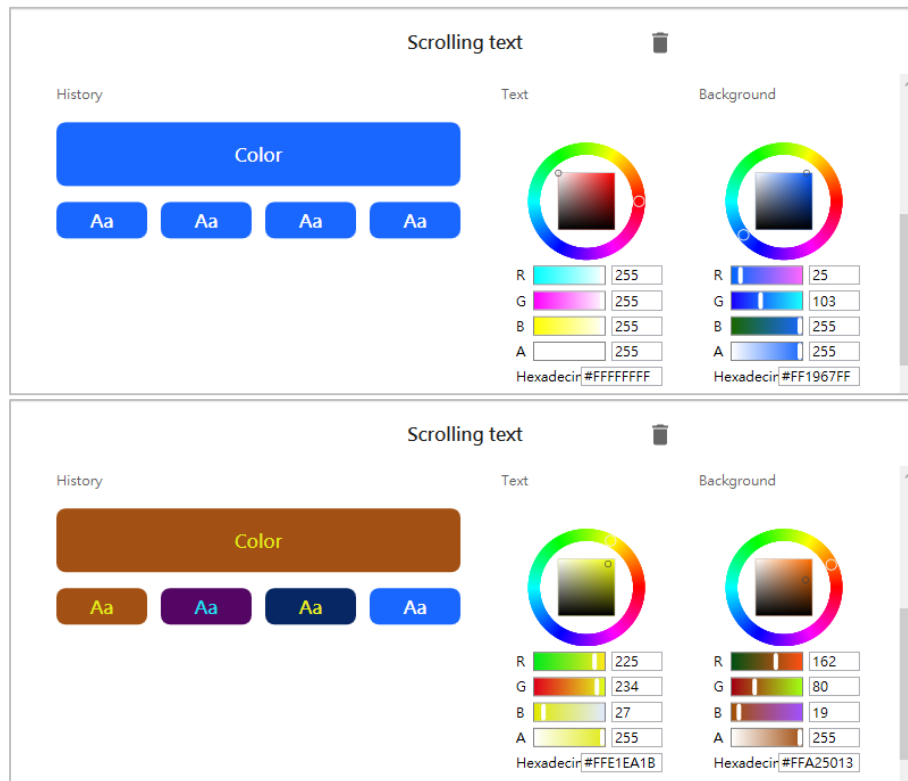


#### 2) Text & background color picker

- Text color
- Background color
- Color: color preview
- Aa: the latest four text and background color records

Note:

- The color displayed by the **Color** button is the color you choose, and the color will be automatically recorded.
- **Aa** button color is the latest four color records.



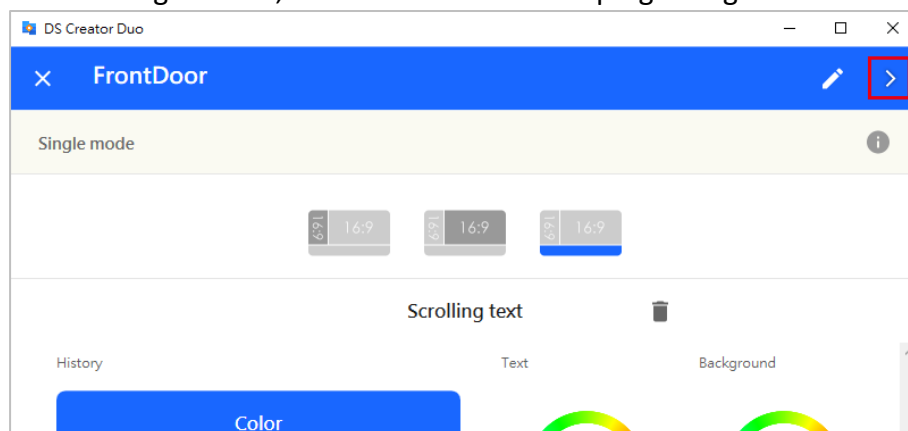
3) Speed

- Slow
- Medium slow (default)
- Medium
- Fast

4) Direction

- Right to left (default)
- Left to right

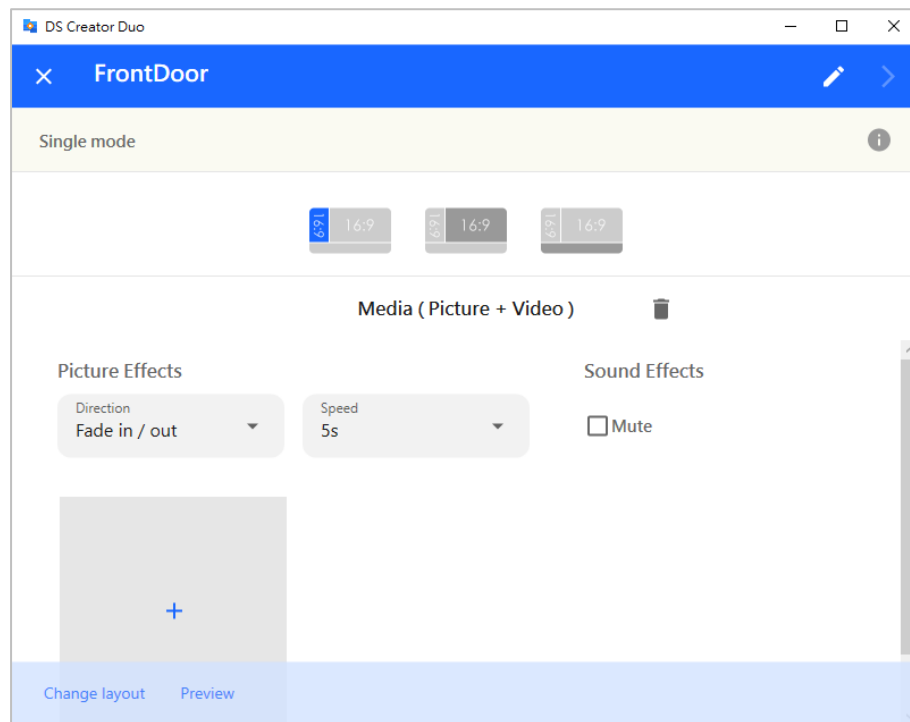
5) After adding content, click > button at the top right to go to the next step.







### 2.2.3 Media (Picture + Video)

The recommended file size is within 500MB. If the file is too large, it may not be able to upload due to memory constraints.

1. Direction of picture
2. Switching speed of picture
3. Mute video



Note:

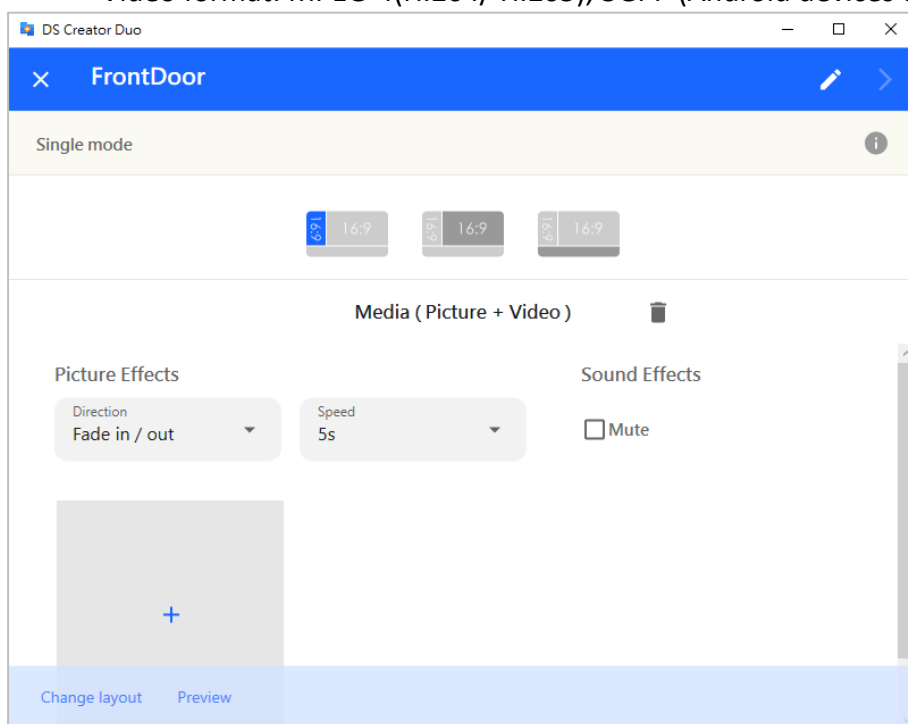
- History: Every selected color will be automatically recorded.
- Click  button to edit the project name.
- Click  button to leave the page.
- Click  button to display the reminder.
- Click  button to delete the picture or video.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.

- 1) Direction of picture(s):
  - Fade in / out (default)
  - Top left
  - Right to left
  - Bottom left
  - Top right
  - Left to right
  - Bottom right
- 2) Speed of picture(s):

- 5 seconds (default)
  - 10 seconds
  - 15 seconds
  - 20 seconds
- 3) Sound effects:
- Mute video
- 4) Click on a frame of the layout to add images or videos.
- 5) Click + button to select pictures/videos or **Cancel** button to leave the page.

Note:

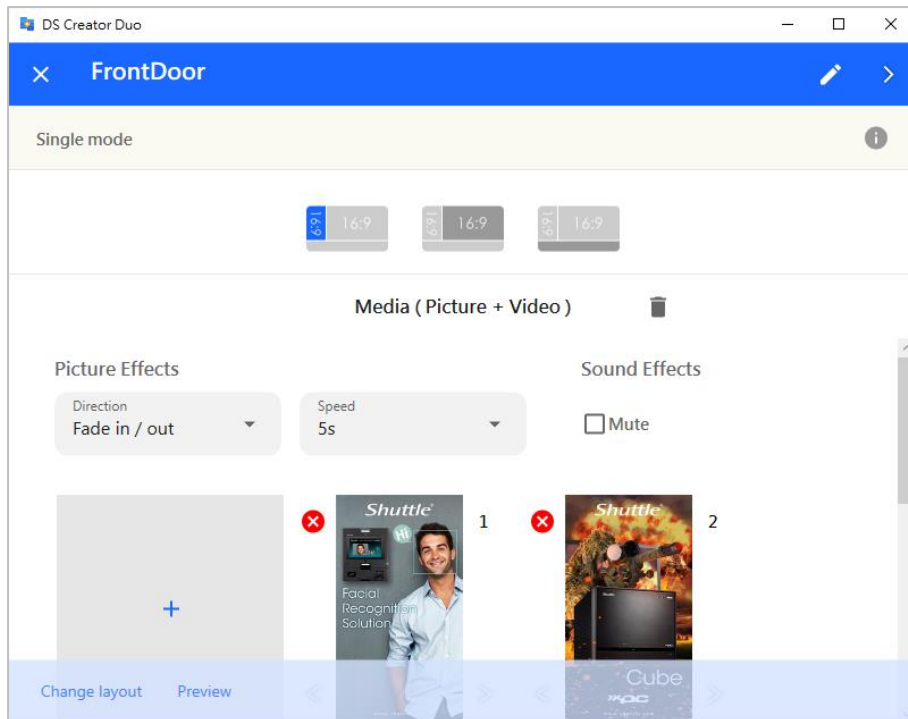
- The separate frame of the layout can add pictures and videos, and the maximum number is 15.
- Picture format: JPG, PNG, GIF, BMP
- Video format: MPEG-4(H.264/ H.265), 3GPP (Android devices only)




- 6) Click > button at the top right to go to the next step.

Note:





- Click [pencil icon] button to edit the project name.
- Click [X icon] button to leave the page.
- Click [i icon] button to display the Reminder.
- Click [trash icon] button to delete the picture or video.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.

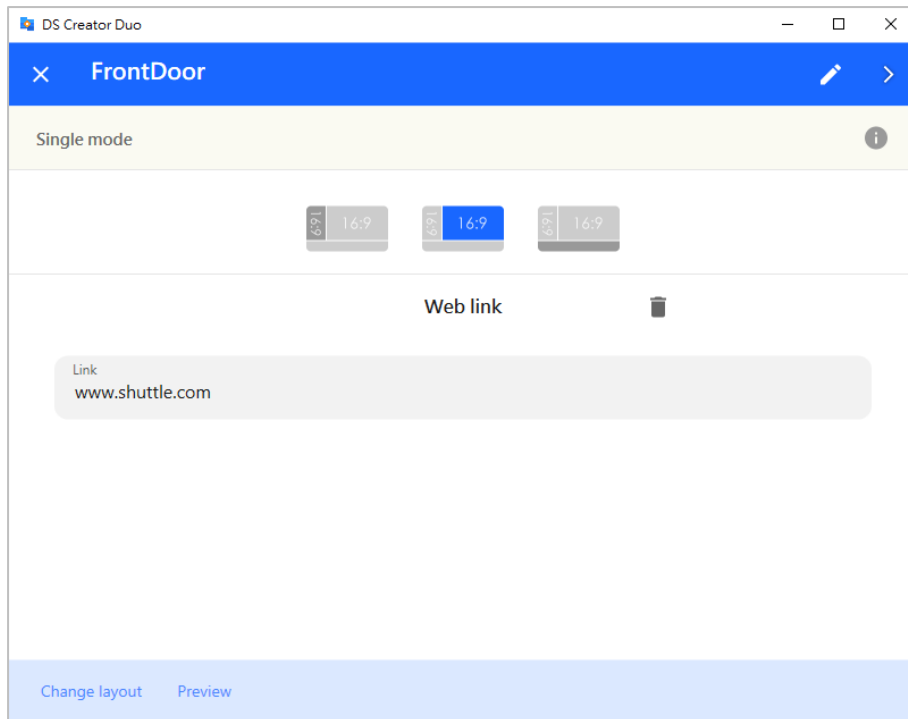


#### 2.2.4 Web link

- 1) Recommend: RWD (Responsive Web Design).
- 2) Support entering URL to link to webpage. URLs start with:
  - www
  - http://
  - https://
- 3) Click  button at the top right to go to the next step.

Note:

- Click  button to edit the project name.
- Click  button to leave the page.
- Click  button to display the Reminder.
- Click  button to delete the web link.
- Click **Preview** button to preview the content of the project.
- Click **Change layout** button to modify the layout of the project.




### 2.2.5 Project schedule settings

Set the playback schedule of the project. Default checked 24/7 – Twenty Four/Seven.

1) 7 days of the week:

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday
- Sunday
- 24/7 - Twenty Four/Seven: twenty-four hours a day and seven days a week.

Note:

- Click  button to go back to the previous page.
- All schedules: Displays all schedules that have been set to play.
- Click **Reset** button to reset the project's schedule.



DS Creator Duo

< Project schedule ✓

All schedules 📅

Sun. Mon. Tue. Wed. Thr. Fri. Sat.

☒ 24/7 - Twenty Four/Seven

Reset

2) Start time & End time:

- 12-hour clock: am & pm: The end time can't be equal to or less than the start time.

DS Creator Duo

< Project schedule ✓

All schedules 📅

Sun. Mon. Tue. Wed. Thr. Fri. Sat.

☐ 24/7 - Twenty Four/Seven

Start time                      End time

00 : 00 AM                      00 : 00 AM

The end time can't be equal to or less than the start time.

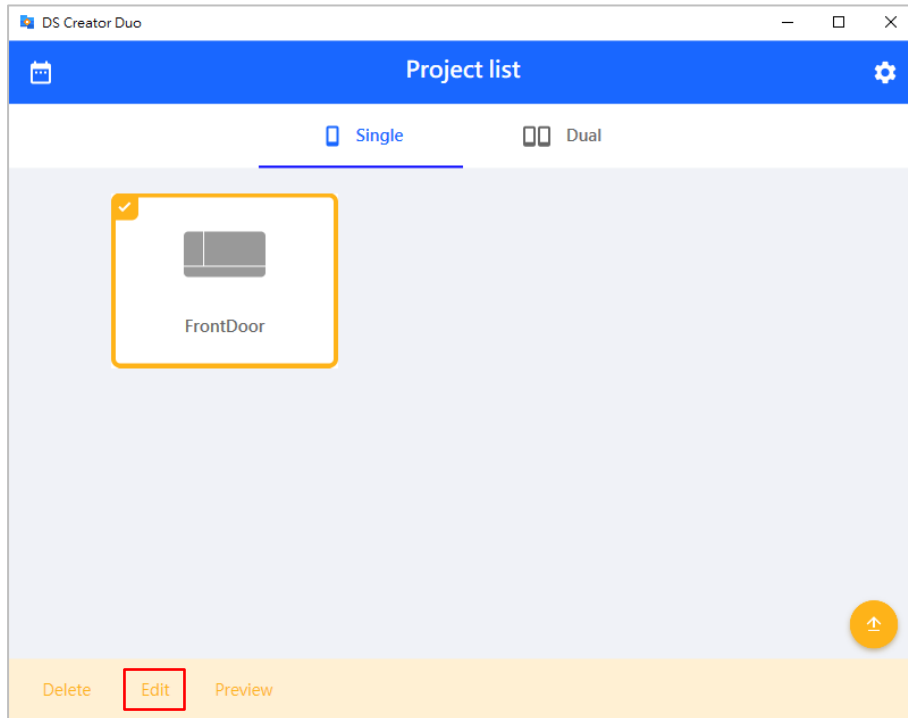
3) After click ☒ button, the screen display will return to the app home page.

## 2.3 Edit project

Edit the content or playback schedule of an established project.

### 2.3.1 Edit content type

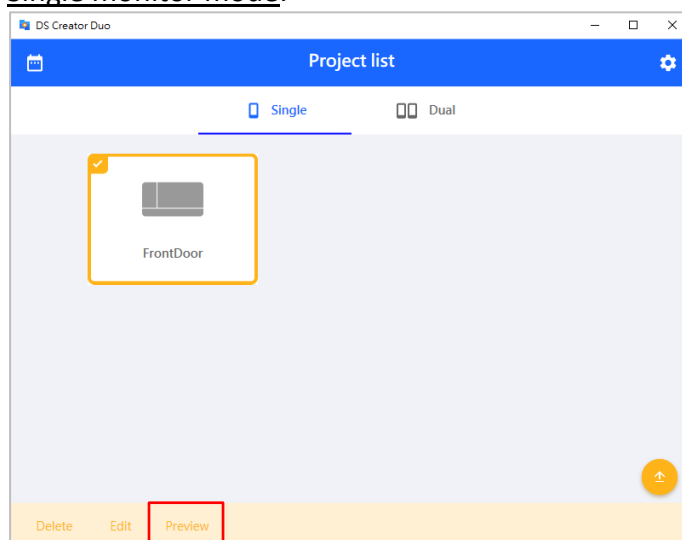
- 1) Click on a project button.
- 2) Click **Edit** button at the bottom to edit the project content.



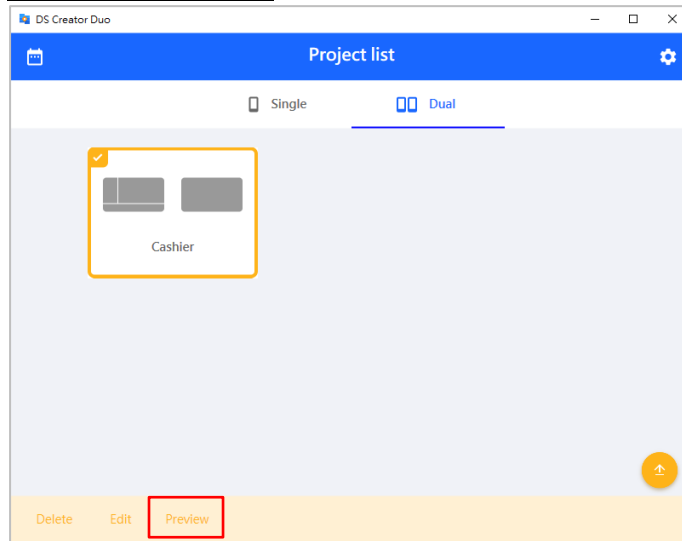
### 2.3.2 Preview project

- 1) Click on a project button.
- 2) Click **Preview** button at the bottom to preview the project for 30 seconds.

Single monitor mode:

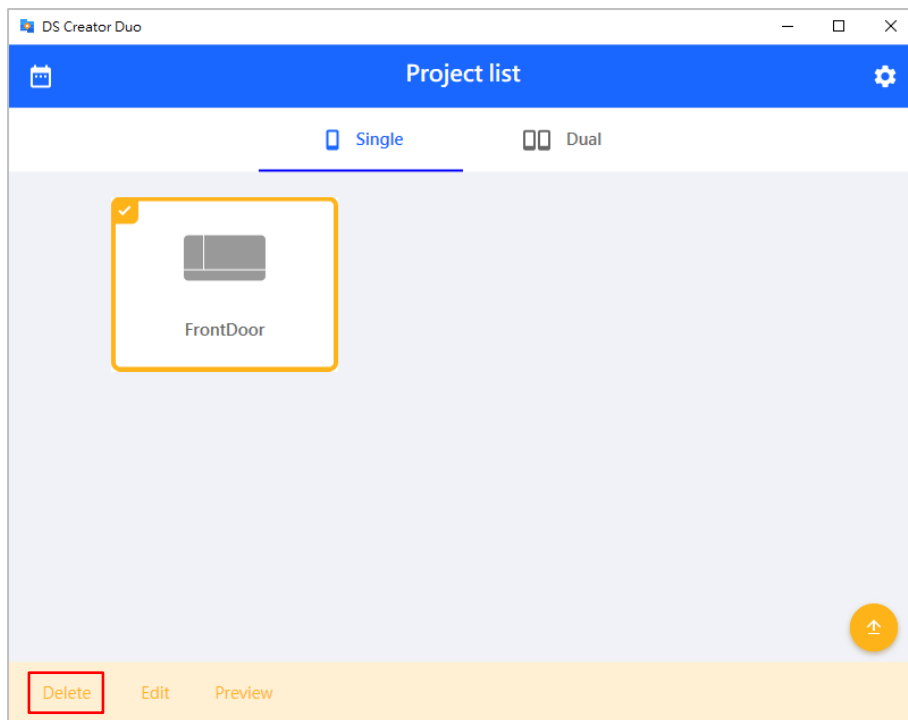


### Dual monitors mode:



### 2.3.3 Delete project


- 1) Click on a project button.
- 2) Click **Delete** button at the bottom to delete the project.
- 3) Click **Delete** button to delete the project or **Cancel** button to cancel the action.

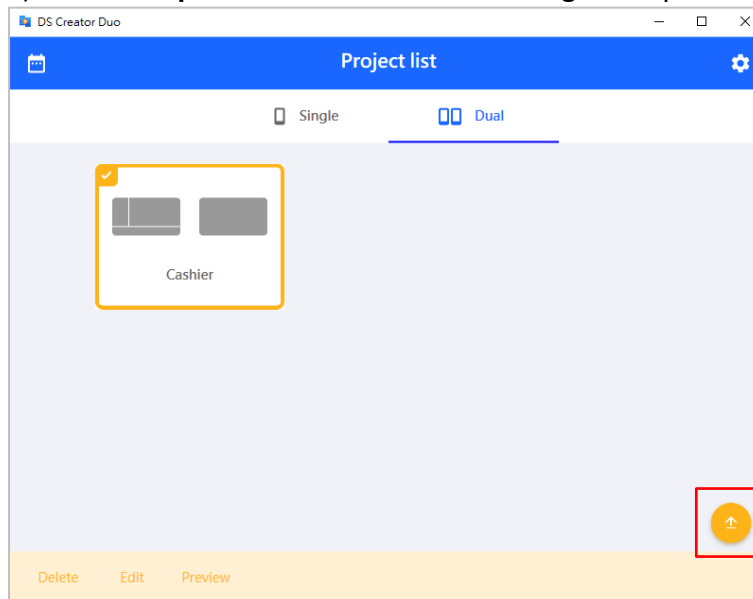


## 2.4 Upload project

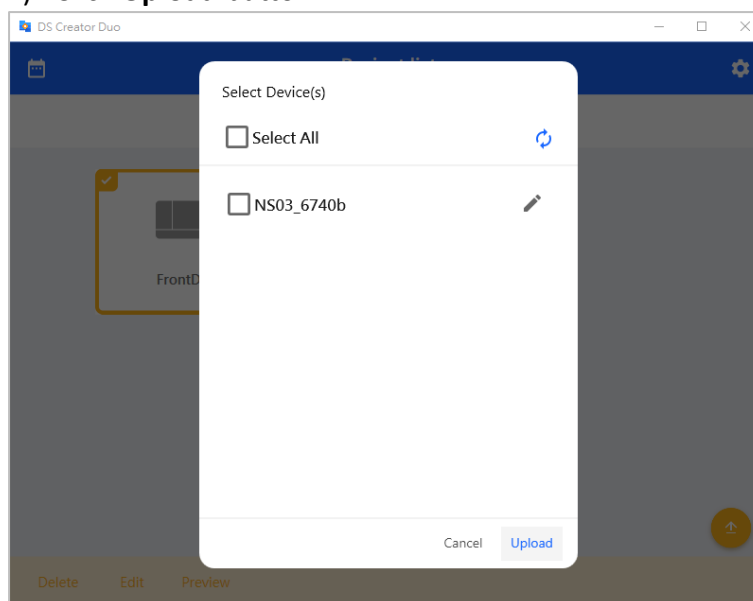
Connect your Windows PC to the same local area network (LAN) as the NS03 series and the built-in “DS Creator Duo” app is running. Select one or several devices to upload.

### 2.4.1 Upload


- 1) Click on a project button.
- 2) Click  **Upload** button at the bottom right to upload the project.




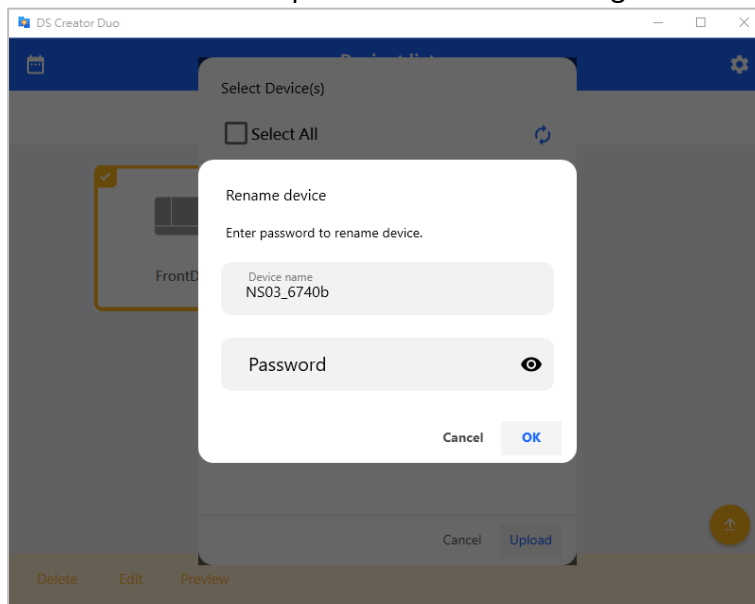
- 3) Tick NS03 devices on the list to upload (The 5-digit alphanumeric character after the NS03 name is the product serial number).
- 4) Click **Upload** button.



Note:

- Click  button to edit the device name (The 5-digit alphanumeric character after the NS03 name is the product serial number).

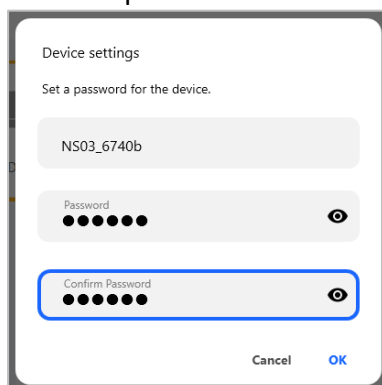
- Click  button to refresh the page.
- Enter the device's password when renaming the device name.



## 2.4.2 Set / Enter device password

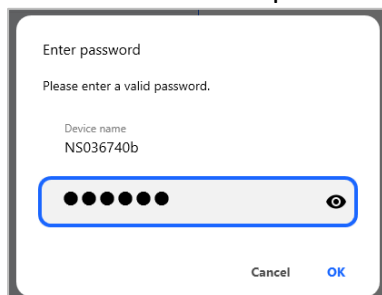
### First time set password:

- The first time connect to NS03 device.
- 8 characters maximum.
- Set a password and enter a confirm password.



### Enter NS03 device password:

- After setting the NS03 device password, when connecting again, you need to enter the device password before uploading the project.



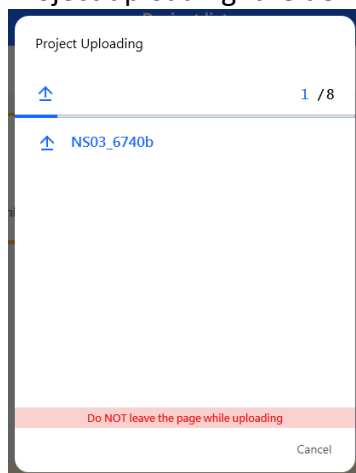
### 2.4.3 Forget NS03 device password

Once you forget the NS03 device password, you have to go to the NS03 device's Settings page and click **Factory Reset**, then set the device password again.

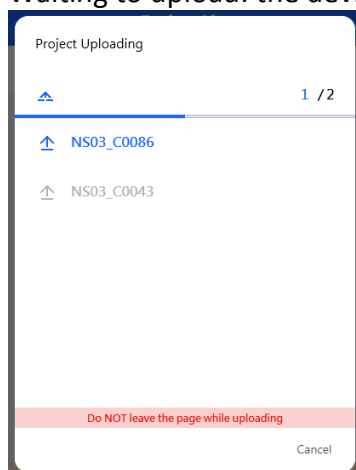
- 1) Click Settings ⚙️ > System
- 2) Reset options > Erase all data (factory reset)
- 3) Click **Erase all data** button

### 2.4.4 Upload status

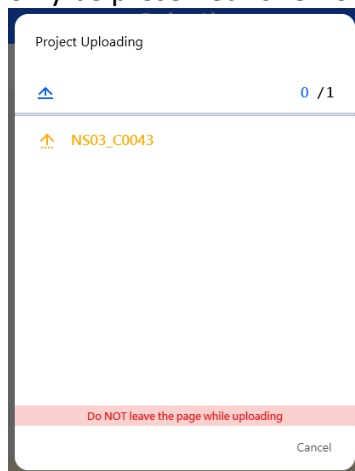
- Project uploading: the device name is displayed in blue.



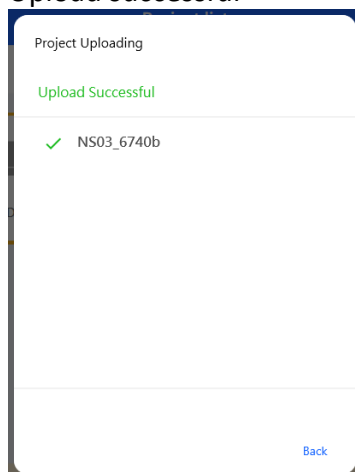
- Waiting to upload: the device name is displayed in gray.



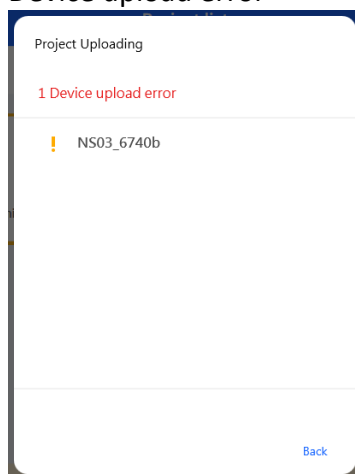
- Resume uploading: the device name is displayed in orange.  
Note: Temporary file uploaded from a Windows PC to the NS03 device will only be preserved for 3 hours.



- Upload successful

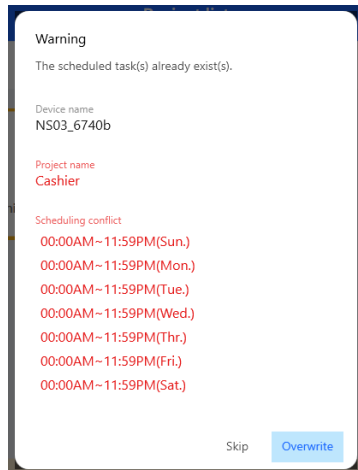


- Device upload error



**Note:** When the upload error is displayed, please check the network connection or the available capacity of the hard disk of the NS03 device.

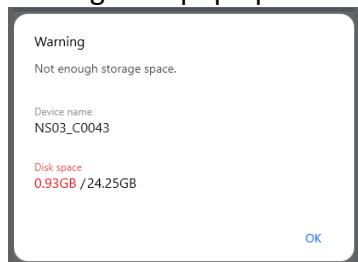
- Scheduling conflict
  - When uploading a project to NS03 device, if the schedule of the project overlaps, the last uploaded project will overwrite the previously uploaded project.
  - Once **Overwrite** button is clicked, the overwritten project and content elements will be deleted.



- Device low capacity: Available capacity /Total capacity

**Note:**

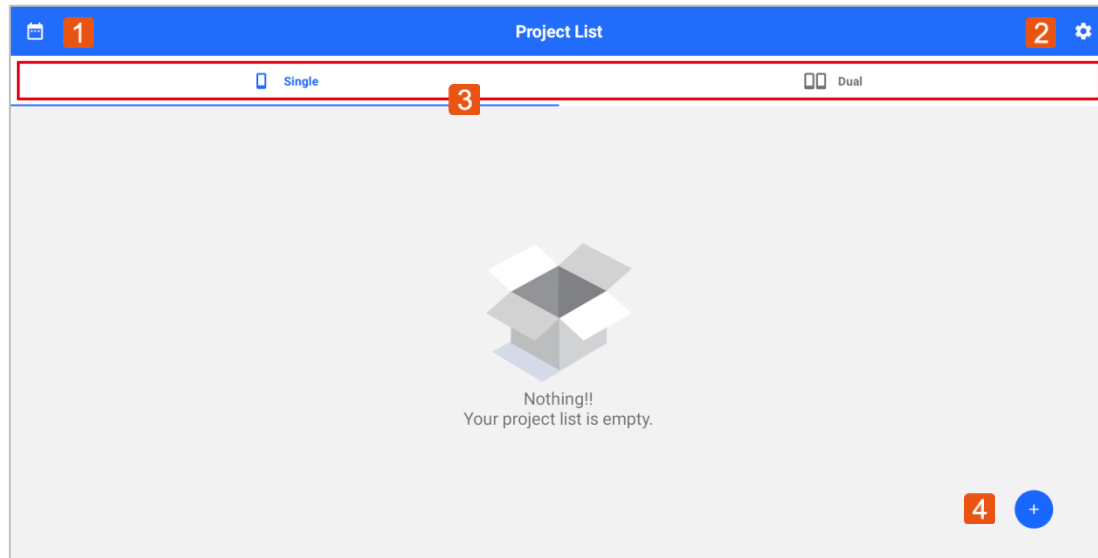
Once the available capacity of NS03 device is less than 20MB, a warning message will pop up.





## 3. Getting started – NS03 device

### 3.1 App overview





1. All schedules: Displays all schedules that have been set to play.
2. Settings:
  - Audio output: HDMI 1.4 or HDMI 2.0
  - AutoPlay after system start up
  - Sleep mode setting
3. Single monitor & Dual monitors mode switch.
4. Create a new project button.  
**Note:** To upload project content from a client device, please make sure the built-in "DS Creator Duo" app is running.

#### 3.1.1 All schedules

Displays all schedules that have been set to play.

Note:

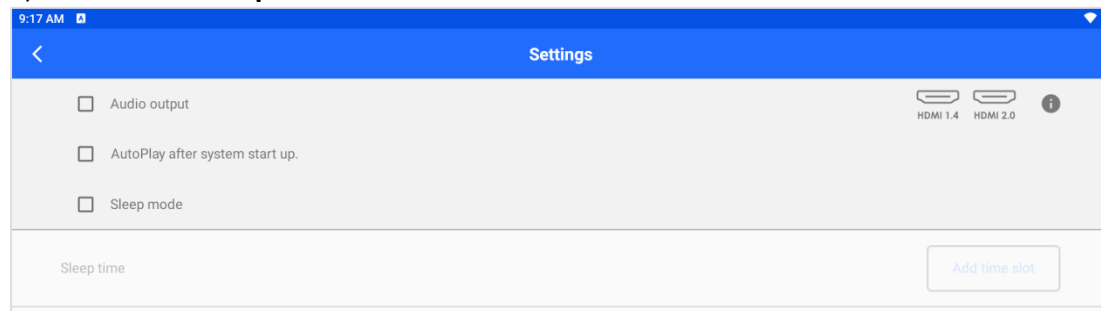
- Click  button to go back to the previous page.
- Click  button to refresh the page.

All schedules		
Day / time	Project name	Device
Sunday		
00 : 00   23 : 59	Cashier	NS03_00003
Monday		
00 : 00   23 : 59	Cashier	NS03_00003

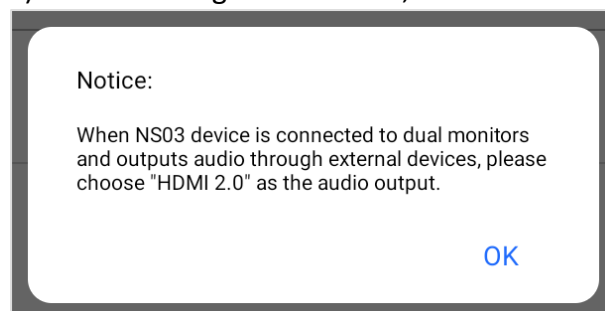
### 3.1.2 Settings

#### Audio output

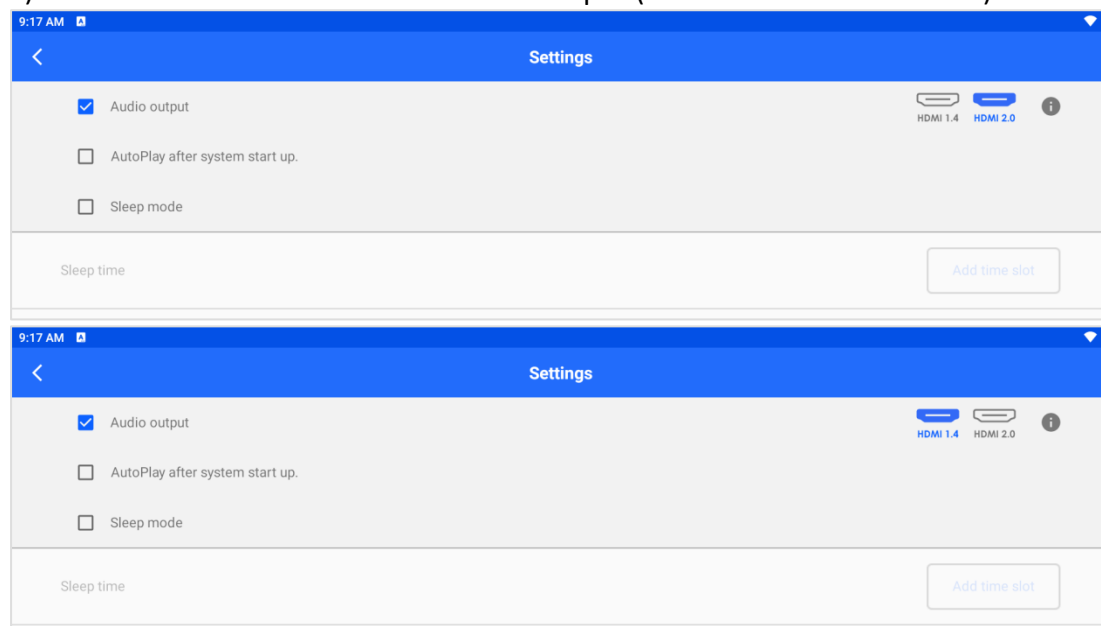
1) Click **Audio output** checkbox.



2) After reading the reminder, click **OK** button.

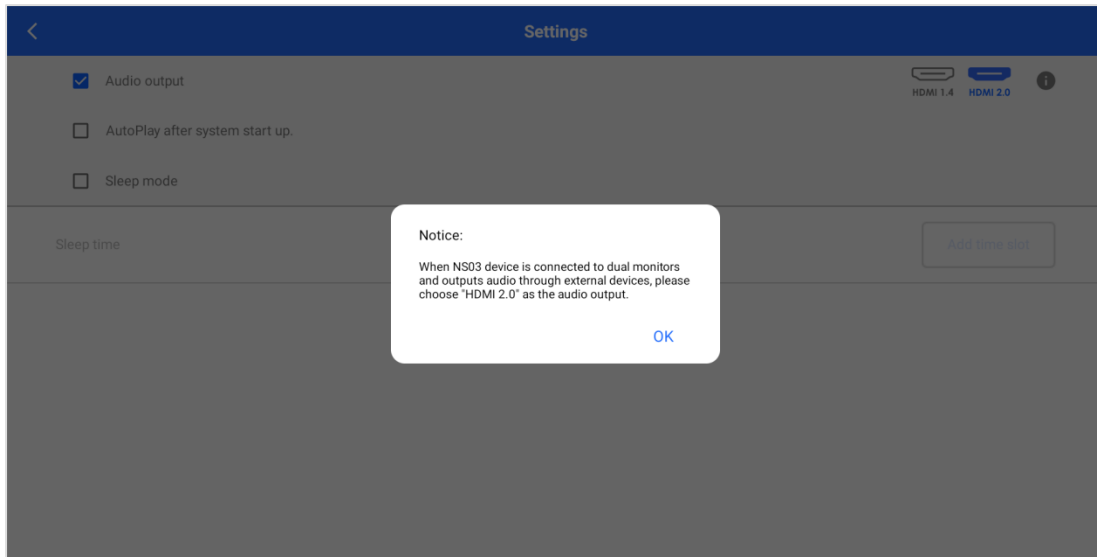


3) Click **HDMI 1.4** or **HDMI 2.0** as audio output (Default checked HDMI 2.0).



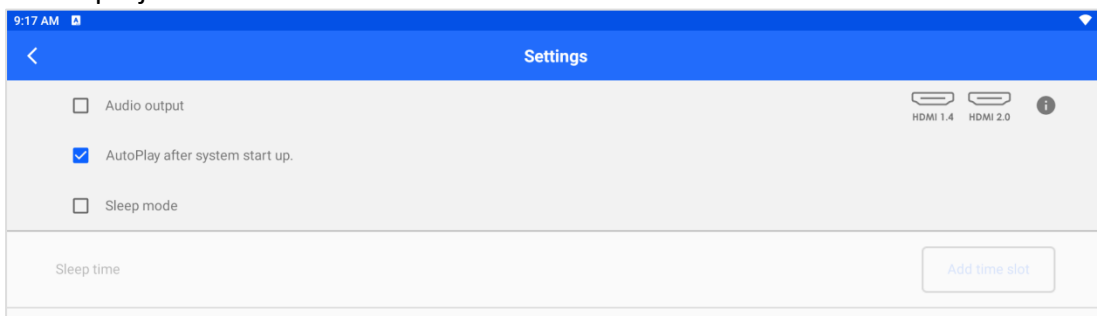
#### Note:

- When NS03 device is connected to dual monitors and outputs audio through external devices (e.g.: 3.5mm earphone or wired/ wireless speakers), you need to choose "HDMI 2.0" as the audio output.
- About "upload a single screen project to dual monitors" & "upload a dual screen project to dual monitors", please refer to P.4 Important notice.
- Click ⓘ button to display the Audio output reminder.



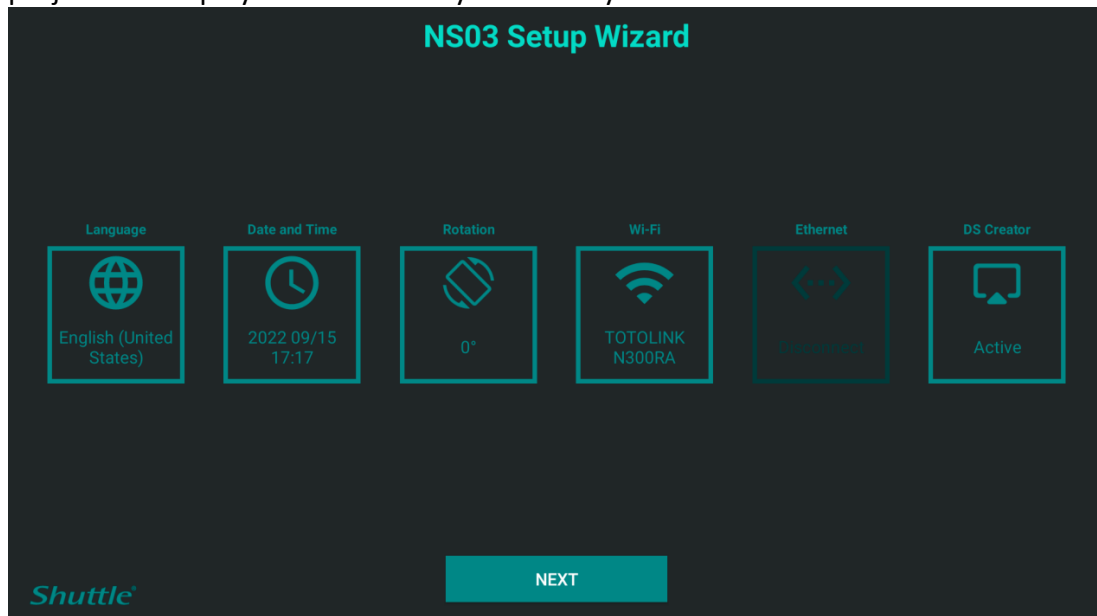
### **AutoPlay after system start up**

After the system start up, the DS Creator Duo app will be played automatically based on the project's schedule.




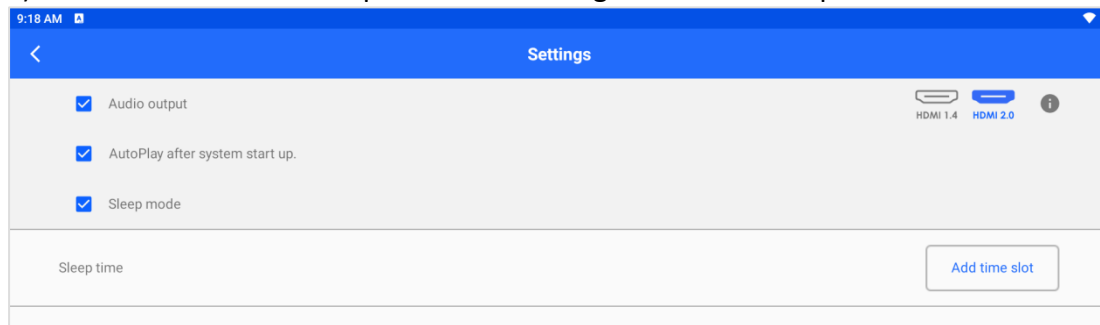
### **Note:**

In the Setup Wizard app of NS03, once the DS Creator Duo app is selected, the project will be played automatically after every boot.




## Sleep mode

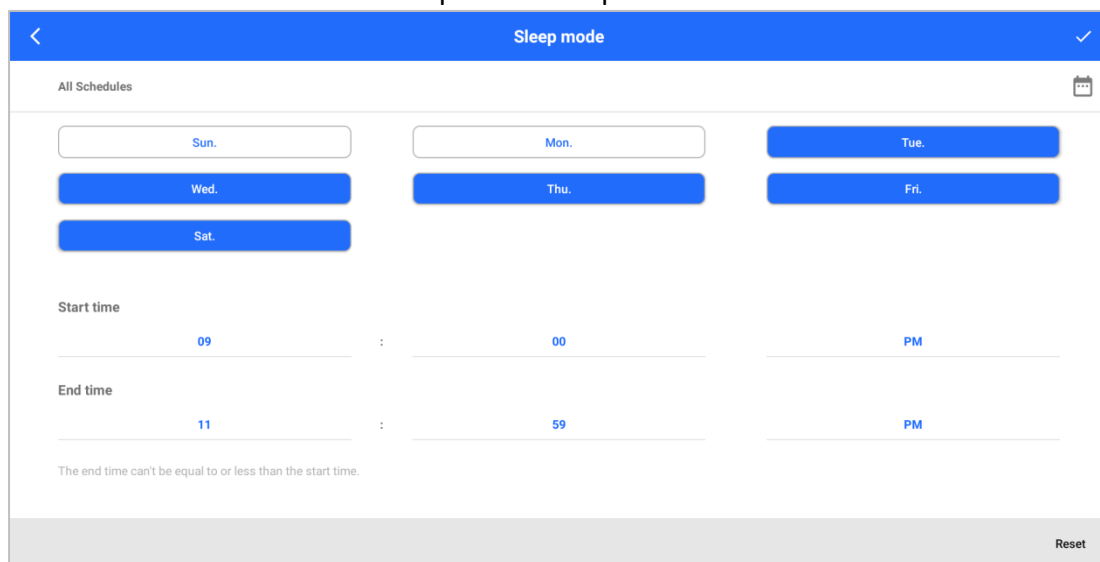
- 1) Click **Sleep mode** checkbox.
- 2) Click **Add time slot** to set sleep mode.
- 3) Click  button at the top left to save and go to the next step.



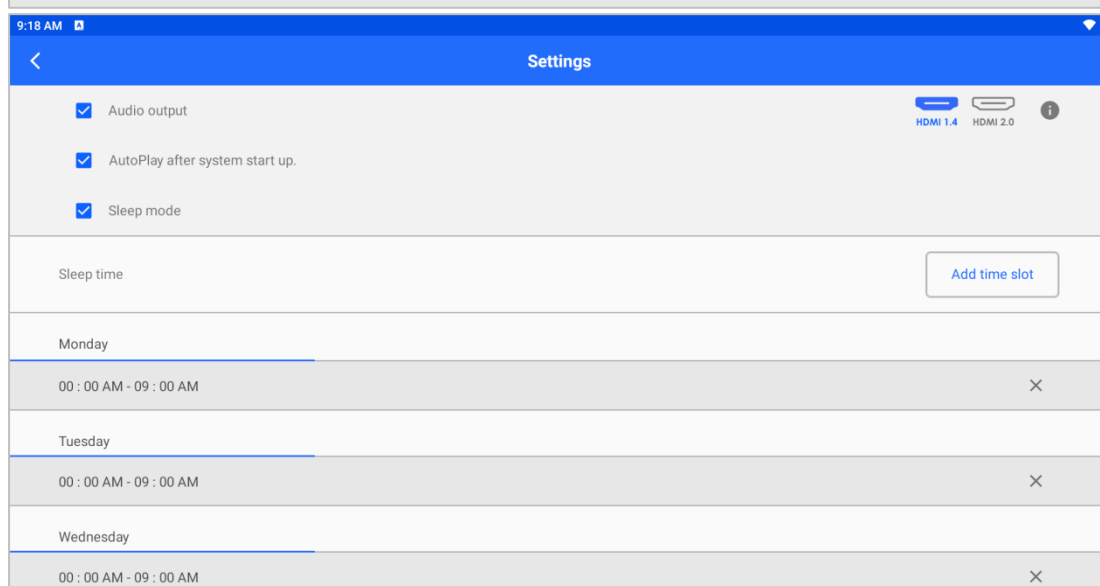
The screenshot shows the 'Settings' screen with a blue header bar. The status bar at the top shows '9:18 AM'. The 'Settings' title is in the center of the header. Below the header, there are three checkboxes: 'Audio output', 'AutoPlay after system start up.', and 'Sleep mode', all of which are checked. To the right of these checkboxes are icons for 'HDMI 1.4' and 'HDMI 2.0', and an information icon. Below the checkboxes is a section titled 'Sleep time' with a button labeled 'Add time slot'.

### Note:

- The end time can't be equal to or less than the start time.
- Click **Reset** button to reset the settings.
- Click  button to delete the specified sleep time.



The screenshot shows the 'Sleep mode' screen with a blue header bar. The status bar at the top shows '9:18 AM'. The 'Sleep mode' title is in the center of the header. Below the header, there is a section titled 'All Schedules' with a calendar icon. The calendar shows days of the week: Sun., Mon., Tue., Wed., Thu., Fri., and Sat. Below the calendar, there are two rows of time slots. The first row is labeled 'Start time' and shows '09 : 00 PM'. The second row is labeled 'End time' and shows '11 : 59 PM'. Below the time slots, there is a note: 'The end time can't be equal to or less than the start time.' At the bottom right, there is a 'Reset' button.



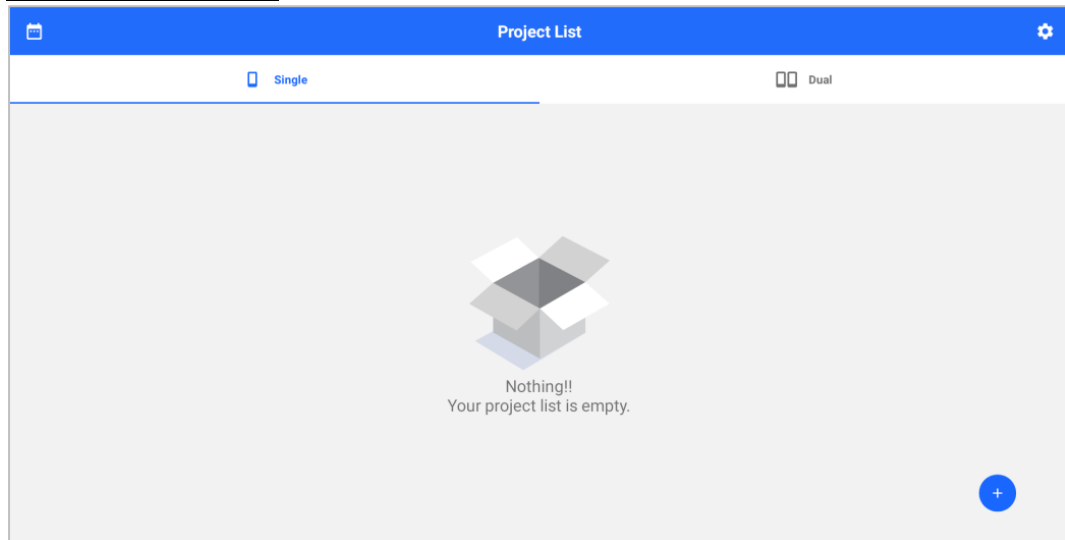
The screenshot shows the 'Settings' screen with a blue header bar. The status bar at the top shows '9:18 AM'. The 'Settings' title is in the center of the header. Below the header, there are three checkboxes: 'Audio output', 'AutoPlay after system start up.', and 'Sleep mode', all of which are checked. To the right of these checkboxes are icons for 'HDMI 1.4' and 'HDMI 2.0', and an information icon. Below the checkboxes is a section titled 'Sleep time' with a button labeled 'Add time slot'. Below this section, there is a list of days: 'Monday', 'Tuesday', and 'Wednesday'. Each day has a corresponding time slot: '00 : 00 AM - 09 : 00 AM'. To the right of each time slot is an 'X' icon to delete the slot.

## 3.2 Create a new project

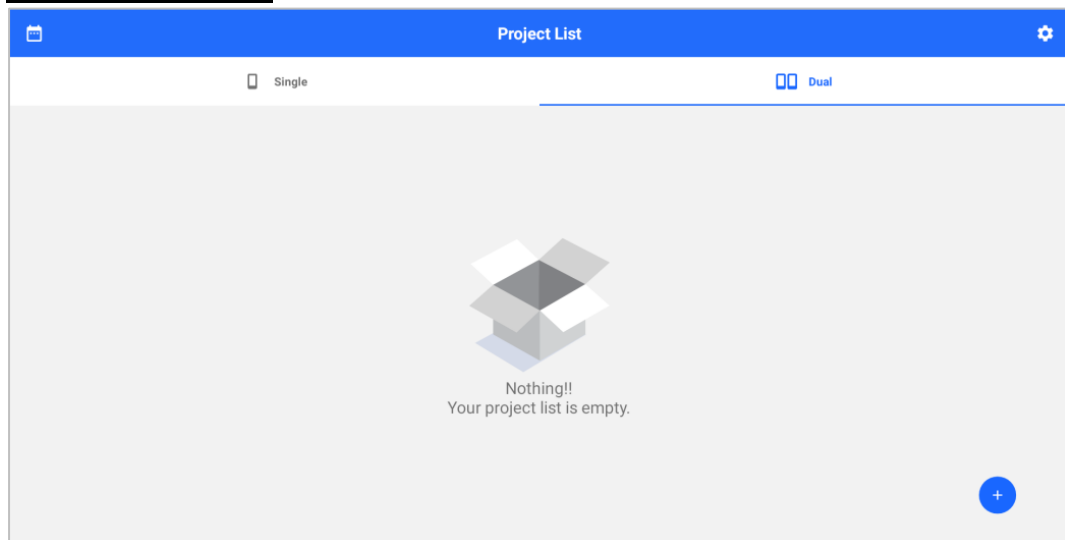
Click to open **DS Creator Duo** app on NS03 device.

1. Choose **Single monitor** or **Dual monitors** mode.

### Single monitor mode



### Dual monitors mode



2. Click **+** button at the bottom right to create a project.
3. Enter a project name.

A dialog box titled 'New project name' is shown. It features a text input field with a light gray background and a blue border. The placeholder text 'Project name' is at the top, and 'FrontDoor' is entered below it. At the bottom right of the dialog, there are two buttons: 'Cancel' and 'OK'.

Note:

- Project name can't be blank.

- The created project name cannot be repeated.
- No more than 20 characters in length.
- Project name can only contain 1-20 of English letters (A-Z, a-z), digits (0-9) & special characters (hyphen “-” and underline “\_”).

**Note:**

Unsupported symbols (full/half width):

[ `~!@#%&^&\*()+=|{}:,;\[\].<.>/? ! ¥... ( ) - 【 】 ‘ ’ ; : ” ” ° , 、 ? ” ]

4. Reminder:

Single monitor mode



Dual monitors mode

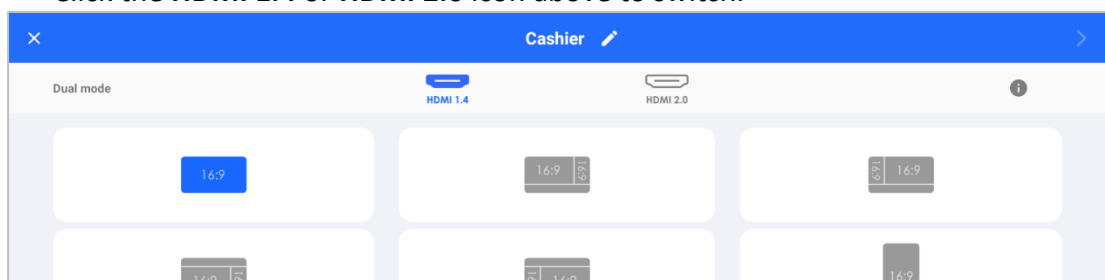


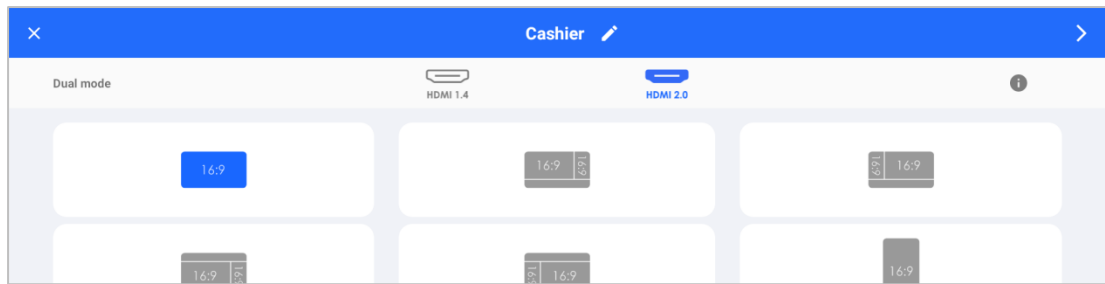
5. Select a frame layout you need. There are 11 frame layouts available.



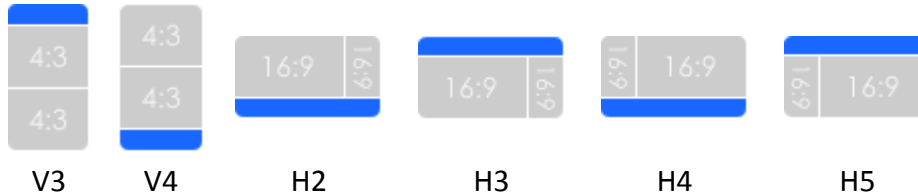
**Note:**

- Dual monitors mode:  
Click the **HDMI 1.4** or **HDMI 2.0** icon above to switch.








- The specified frames for scrolling text only:

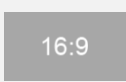
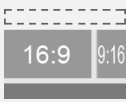



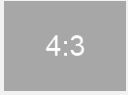
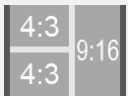
### Type description


Portrait / Vertical (\*all resolutions are upper limit)

V1		<b>Picture:</b> 2160 x 3840px    Format: .jpg, .png, .gif, .bmp <b>Video:</b> 2160 x 3840px    Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
V2		<b>Picture:</b> 1080P                      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P                      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
V3/V4		<b>Picture:</b> 1080P                      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P                      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)

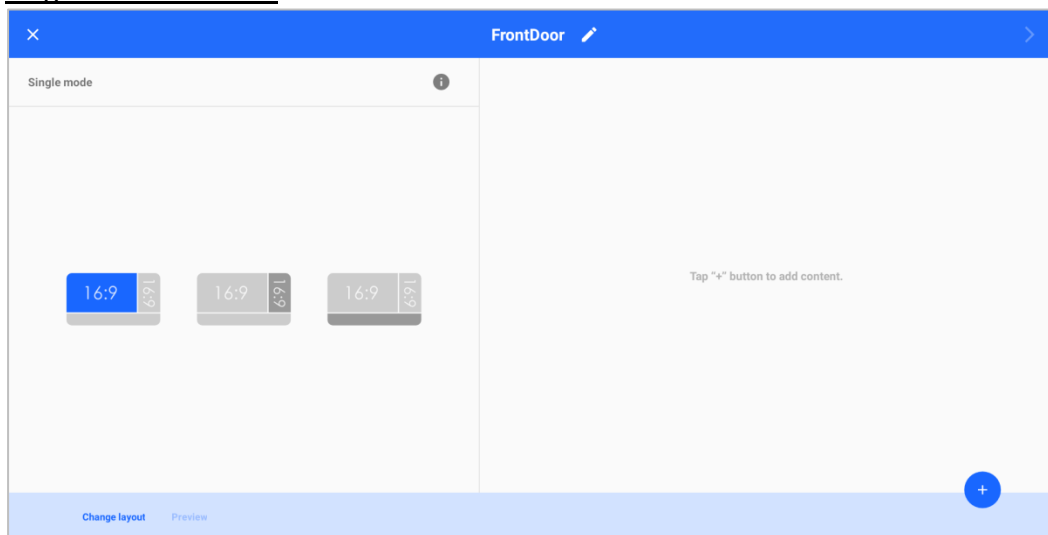
Landscape / Horizontal (\*all resolutions are upper limit)

H1		<b>Picture:</b> 3840 x 2160px    Format: .jpg, .png, .gif, .bmp <b>Video:</b> 3840 x 2160px    Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)
H2/H3		<b>Picture:</b> 1080P                      Format: .jpg, .png, .gif, .bmp <b>Video:</b> 1080P                      Format: .mp4, .3gp, .mov <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)

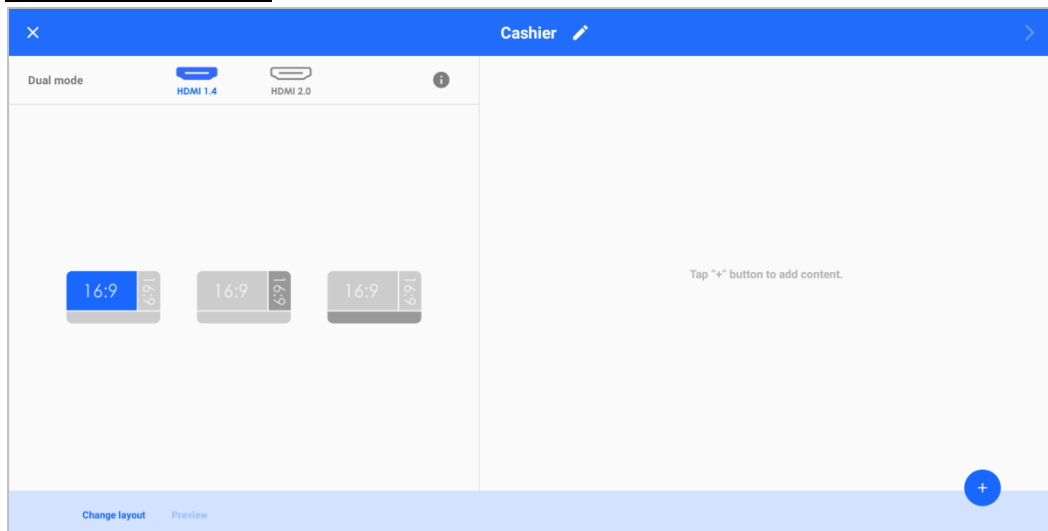
H4/H5		<b>Picture:</b> 1080P <b>Video:</b> 1080P <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)	Format: .jpg, .png, .gif, .bmp Format: .mp4, .3gp, .mov
Landscape / Horizontal (*all resolutions are upper limit)			
H6		<b>Picture:</b> 2880 x 2160px <b>Video:</b> 2880 x 2160px <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)	Format: .jpg, .png, .gif, .bmp Format: .mp4, .3gp, .mov
H7		<b>Picture:</b> 1080P <b>Video:</b> 1080P <b>Scrolling text:</b> font size: 24-160 pt (default 48 pt)	Format: .jpg, .png, .gif, .bmp Format: .mp4, .3gp, .mov

- Click on a frame of layout to add content.
- Click  button at the bottom right to add content.

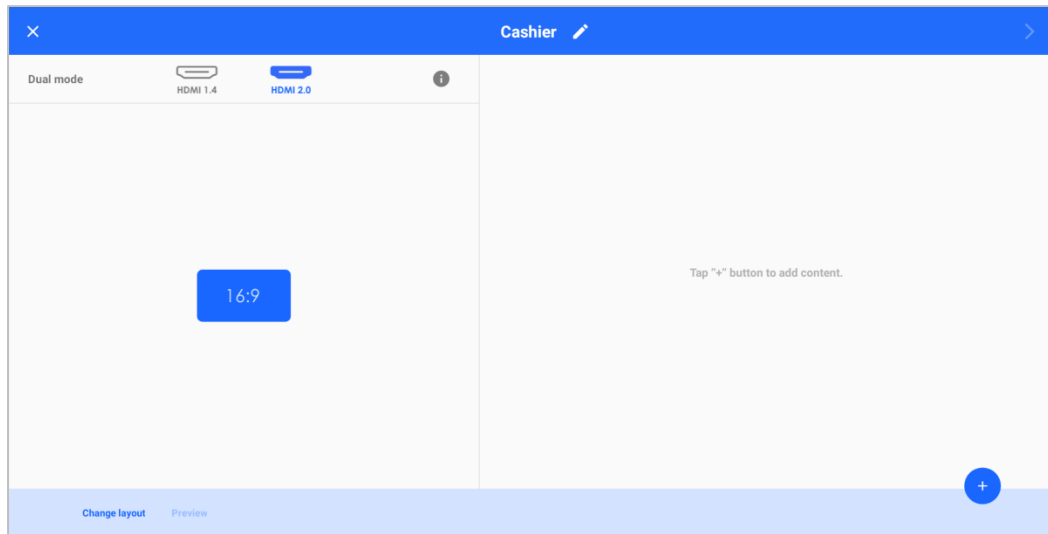
#### Single monitor mode







#### Dual monitors mode





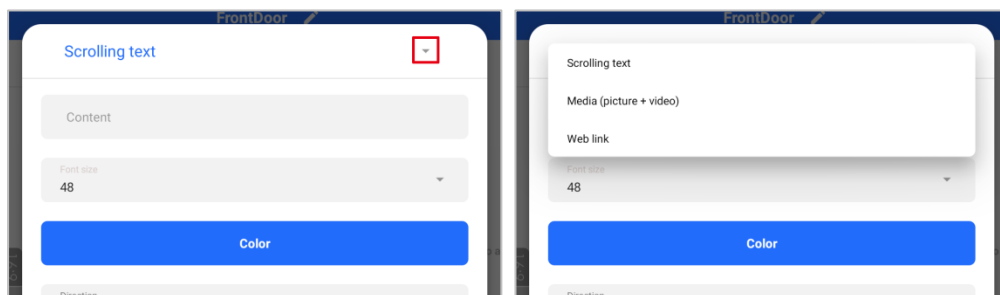


7. After adding content, click  button at the top right to go to the next step.
- Note:
- Click  button to edit the project name.
  - Click  button to leave the page.
  - Click  button to display the reminder.
  - Click **Preview** button to preview the content of the project for 30 seconds.
  - Click **Change layout** button to modify the layout of the project.

### 3.2.1 Content type

Provides 3 types of content.

1. Click the **Down Arrow** button to select a content type.
- Scrolling text
  - Media (picture + video)
  - Web link



### 3.2.2 Scrolling text

The screenshot shows a 'Scrolling text' dialog box with the following elements and annotations:

- 1. Content input field
- 2. Font size dropdown menu (set to 48)
- 3. Color picker button (labeled 'Color')
- 4. Direction dropdown menu (set to 'Right to left')
- 5. Speed dropdown menu (set to 'Medium slow')

At the bottom are 'Cancel' and 'OK' buttons.

1. Text content
2. Font size
3. Color picker of text & background
4. Direction of scrolling text
5. Speed of scrolling text

#### 1) Text content

- Font size: 24, 38, 48, 70, 80 96, 120, 160
- Default size: 48 pt
- 30-200 pt (Provides option to specify font size and manual input)
- Up to 150 character limit

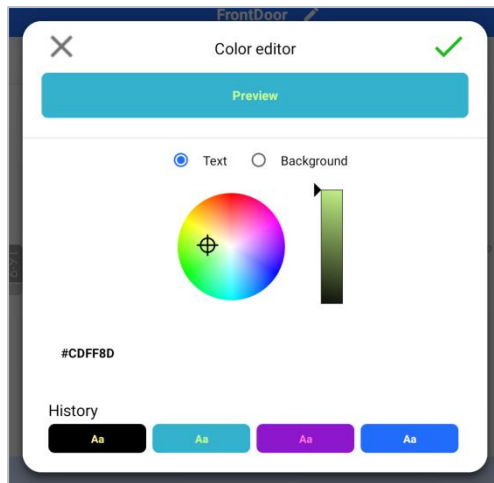
This screenshot shows the 'Scrolling text' dialog box with the text 'Welcome to Wonderland!' entered. A keyboard is visible at the bottom, suggesting text input. The font size is set to 48. The color picker is highlighted in green.

#### 2) Text & background color picker (Click ✓ button at the top right to confirm)

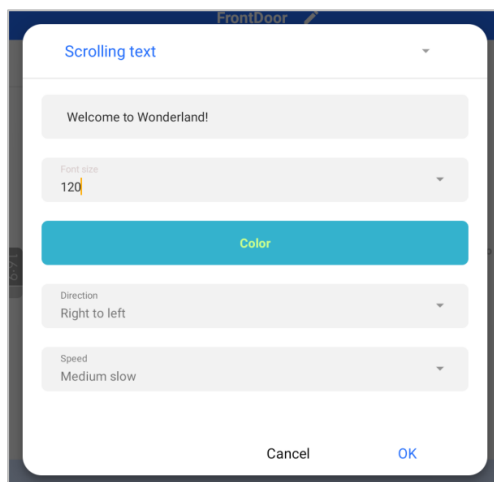
- Text color
- Background color
- Color preview
- Aa: Color history buttons (the latest 4 text and background color records)

Note:

- Click ✓ button at the top right to save.
- Click ✕ button to leave the page.

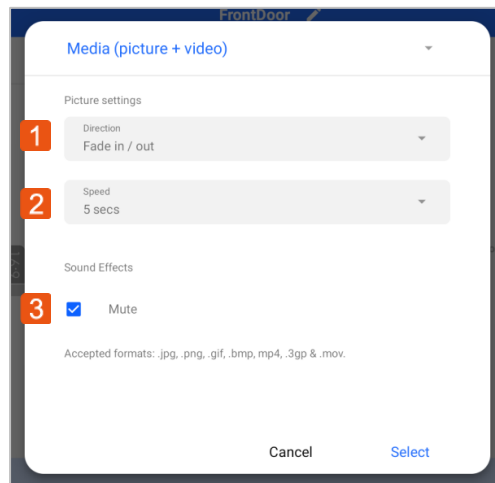


- 3) Direction
  - Right to left (default)
  - Left to right
- 4) Speed
  - Slow
  - Medium slow (default)
  - Medium
  - Fast
- 5) Click **OK** or **Cancel** button at the bottom to next step or leave the page.



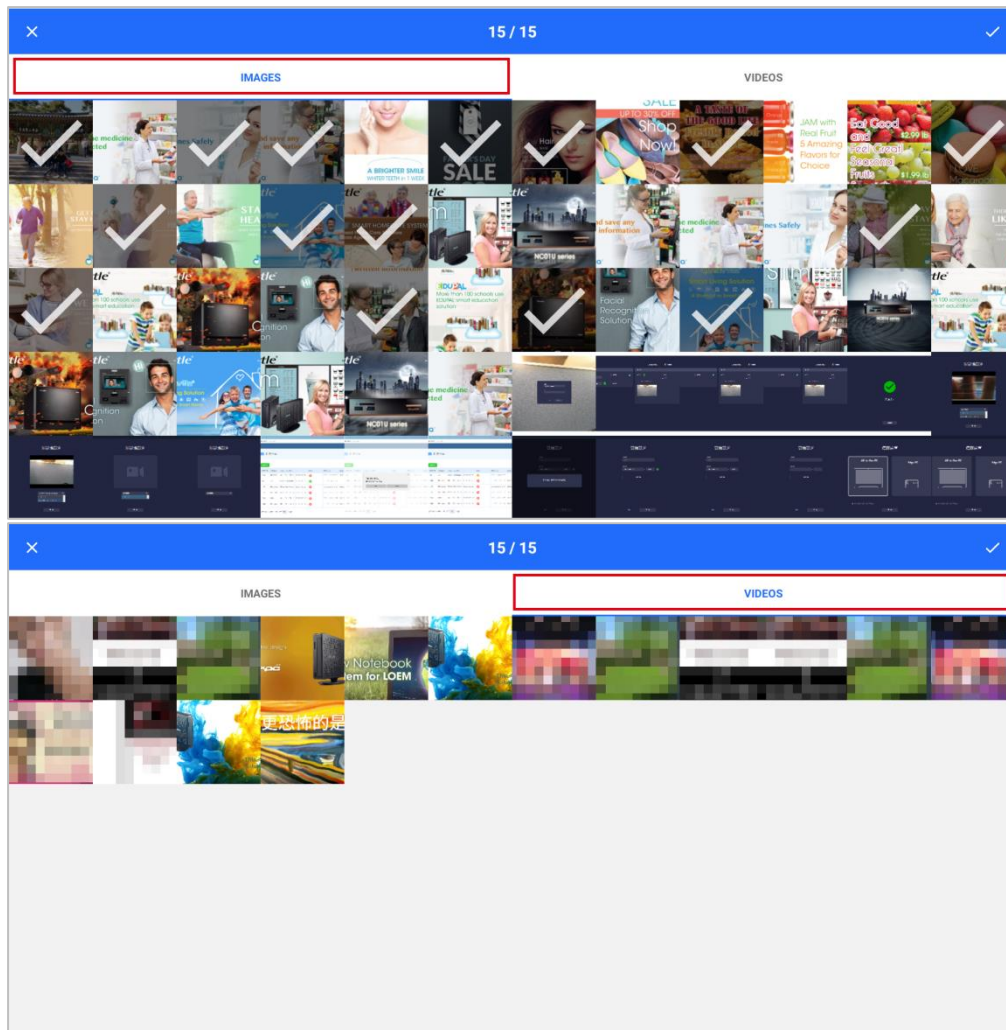
### 3.2.3 Media (Picture + Video)


The recommended file size is within 500MB. If the file is too large, it may not be able to upload due to memory constraints.








1. Direction of picture
2. Switching speed of picture
3. Mute video

- 1) Direction of picture(s):
  - Fade in / out (default)
  - Top left
  - Right to left
  - Bottom left
  - Top right
  - Left to right
  - Bottom right
- 2) Speed of picture(s):
  - 5 seconds (default)
  - 10 seconds
  - 15 seconds
  - 20 seconds
- 3) Sound effects:
  - Mute video
- 4) Click **Select** button to select pictures/videos or **Cancel** button to leave the page.  
Note:
  - The separate frame of the layout can add pictures and videos, and the maximum number is 15.
- 5) Click ☒ button at the top right to save the selected pictures or videos; or click ☐ button at the top left to leave this page.  
Note:
  - Picture format: JPG, PNG, GIF, BMP
  - Video format: MPEG-4(H.264/ H.265), 3GPP (Android devices only)

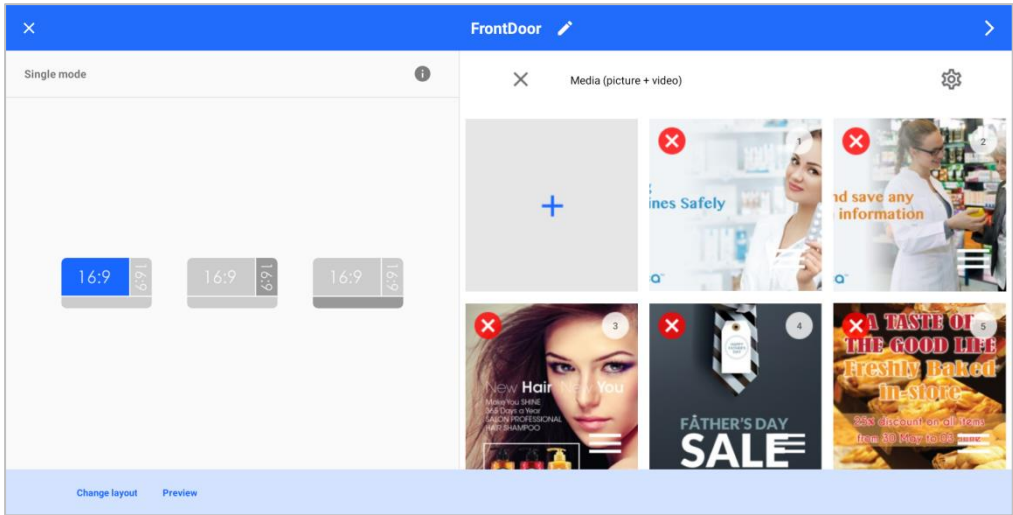


6) Click  button at the top right to go to the next step.

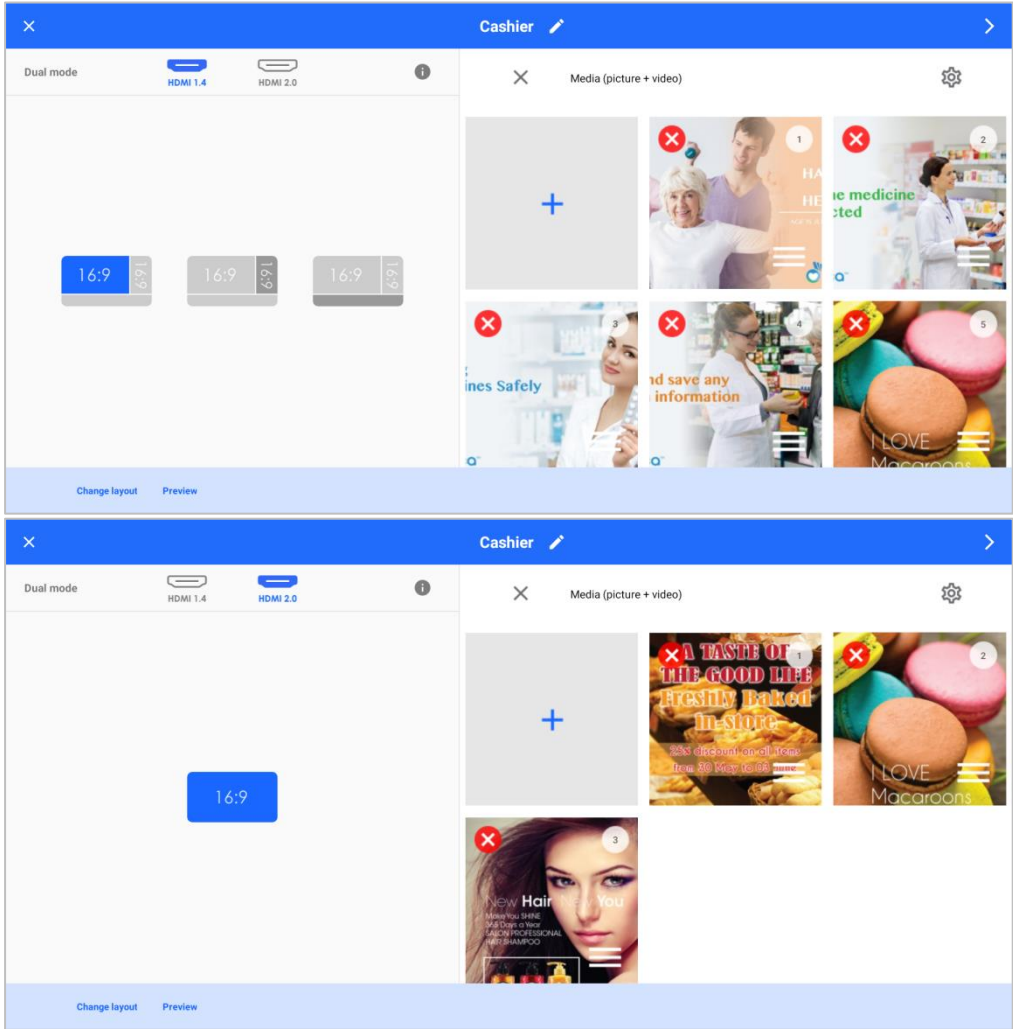
Note:

- Click  button to edit the project name.
- Click  button to leave the page.
- Click  button to edit the project content.
- Click  button to delete the content.
- Click  button to display the Reminder.
- Click **Preview** button to preview the content of the project for 30 seconds.
- Click **Change layout** button to modify the layout of the project.

Single monitor mode

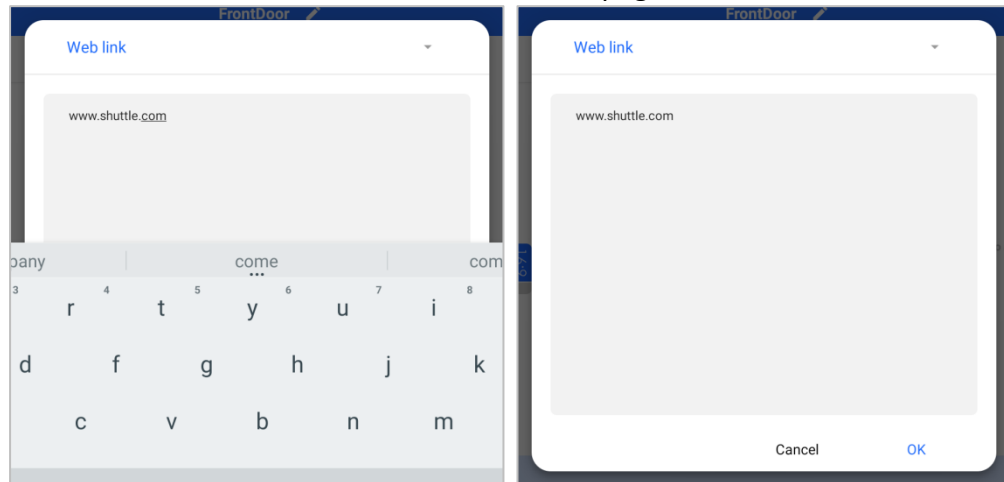


Dual monitors mode



### 3.2.4 Web link

- 1) Recommend: RWD (Responsive Web Design).
- 2) Support entering URL to link to webpage. URLs start with:
  - www
  - http://
  - https://
- 3) Click **OK** button or **Cancel** button to leave the page.




### 3.2.5 Project schedule

Set the playback schedule of the project. Default checked 24/7 – Twenty Four/Seven.

- 1) 7 days of the week:
  - Monday
  - Tuesday
  - Wednesday
  - Thursday
  - Friday
  - Saturday
  - Sunday
  - 24/7 - Twenty Four/Seven: twenty-four hours a day and seven days a week.
- 2) Start time & End time:
  - 12-hour clock: am & pm: The end time can't be equal to or less than the start time.

Note:

- Click  button to go back to the previous page.
- All schedules: Displays all schedules that have been set to play.
- Click **Reset** button to reset the project's schedule.

The image displays two screenshots of the 'Project Schedule' application interface. Both screenshots show a blue header with a back arrow, the title 'Project Schedule', and a checkmark. Below the header, there's a section titled 'All Schedules' with a calendar icon. The main area contains seven day selection buttons: Sun., Mon., Tue., Wed., Thu., Fri., and Sat. In the top screenshot, the '24/7 - Twenty Four/Seven' checkbox is unchecked. In the bottom screenshot, it is checked. Below the day buttons, there are input fields for 'Start time' and 'End time', each with hour, minute, and AM/PM components. A note states: 'The end time can't be equal to or less than the start time.' The bottom screenshot also features a 'Reset' button in the bottom right corner.

- 3) After click ☒ button, the project will start playing until the next scheduled project, the time is up or the device is powered off.

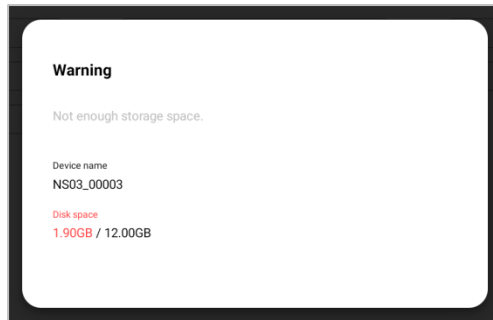
**Note:**

- When the project's playing time ends, the screen will return to the App homepage and stay until the next scheduled project.
- To leave the playback of the current project, swipe down from the top of the screen to open Quick settings and click the **DS Creator Duo** app to return to app's home page.
- To leave the playback of the current project, Click the Right mouse button or click the Back button in the Navigation bar to return to **DS Creator Duo** app's home page.

### 3.2.6 NS03 device status

Once the available capacity of NS03 device is less than 20MB, a warning message will pop up.










### 3.3 Edit project

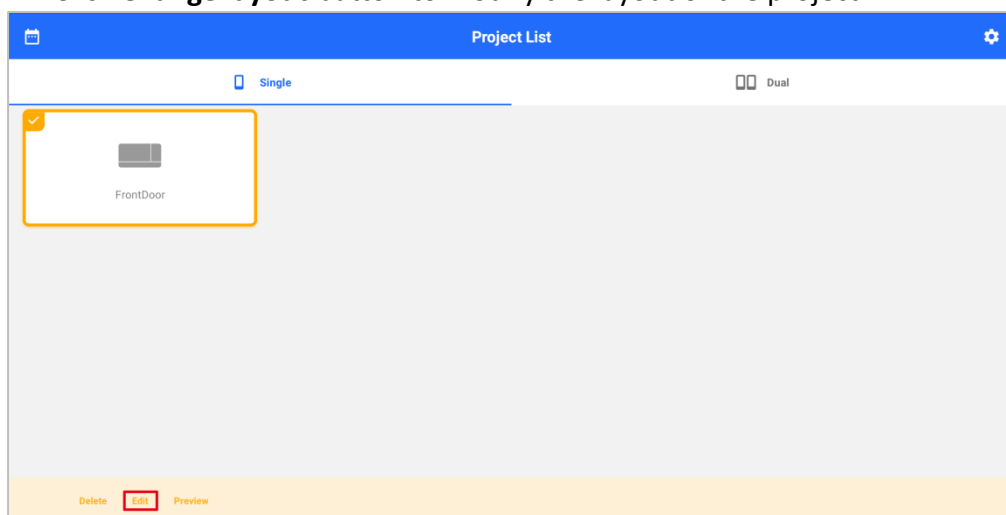
Edit the content or playback schedule of an established project.

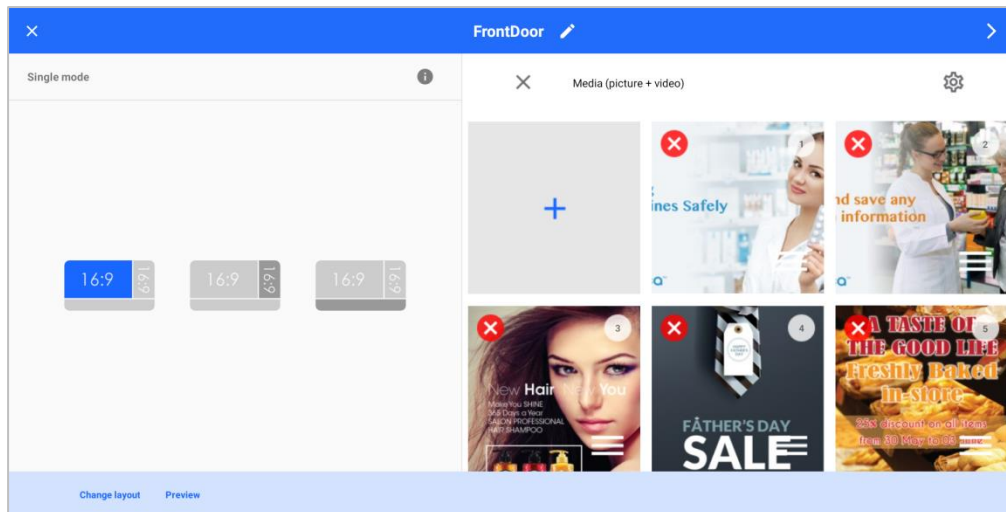
#### 3.3.1 Edit content type

1. Click on a project button.
2. Click **Edit** button at the bottom to edit the project content.

Note:

- Click  button to edit the project name.
- Click  button to leave the page.
- Click  button to edit the project content.
- Click  button to delete the content.
- Click  button to display the Reminder.
- Click **Preview** button to preview the content of the project or play an existing project.
- Click **Change layout** button to modify the layout of the project.





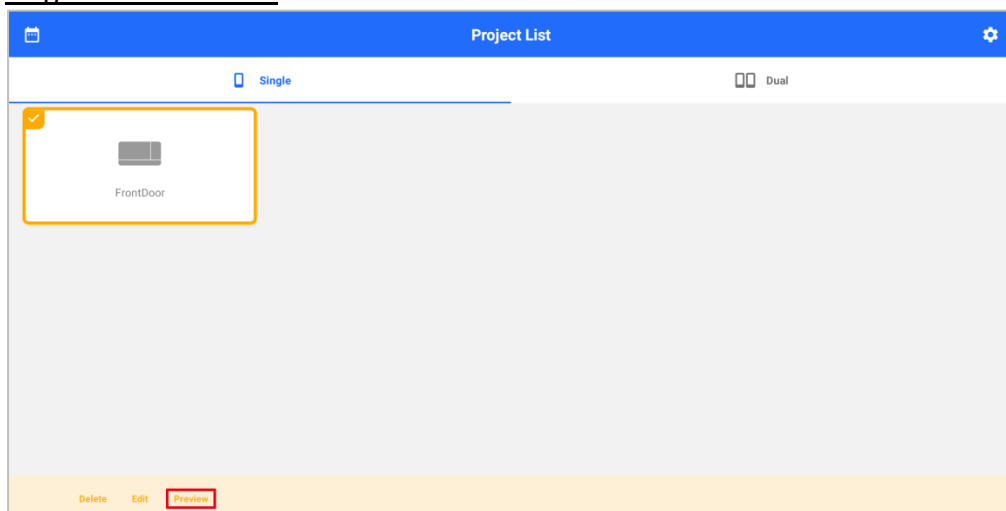
### 3.3.2 Preview or play an existing project

- 1) Click on a project button.
- 2) Click **Preview** button at the bottom to preview the content of the project or play an existing project.

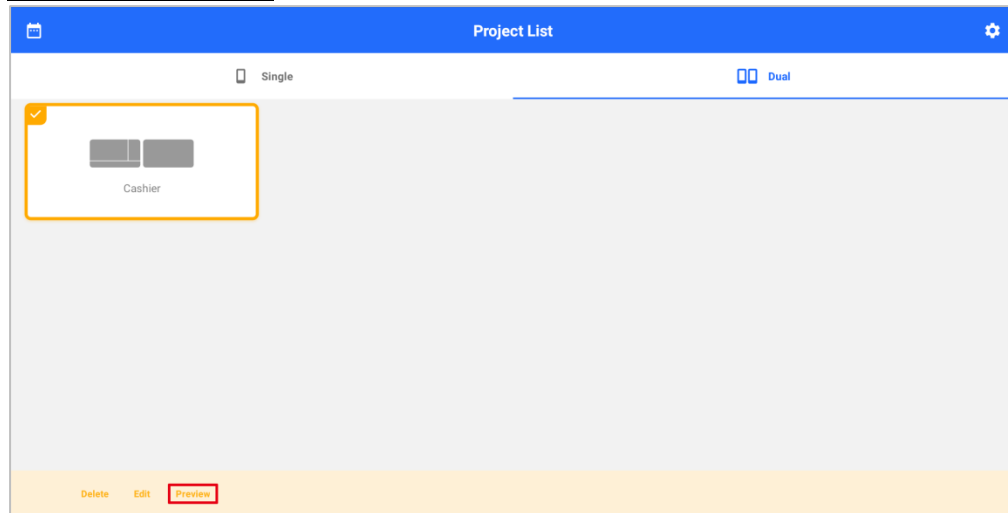
**Note:**

- When the project's playing time ends, the screen will return to the App homepage and stay until the next scheduled project.
- To leave the playback of the current project, swipe down from the top of the screen to open Quick settings and click the **DS Creator Duo** app to return to app's home page.
- To leave the playback of the current project, click the Right mouse button or click the Back button to return to **DS Creator Duo** app's home page.

#### Single monitor mode:

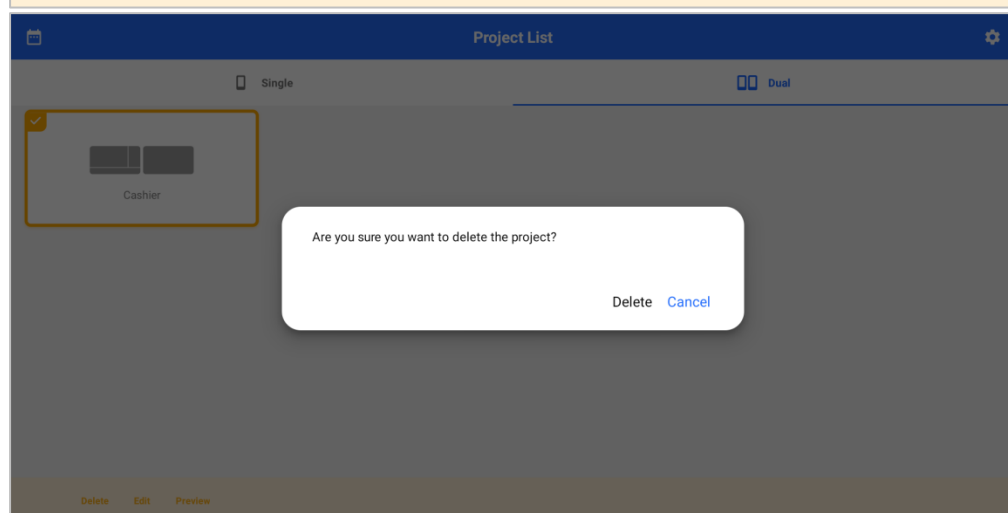
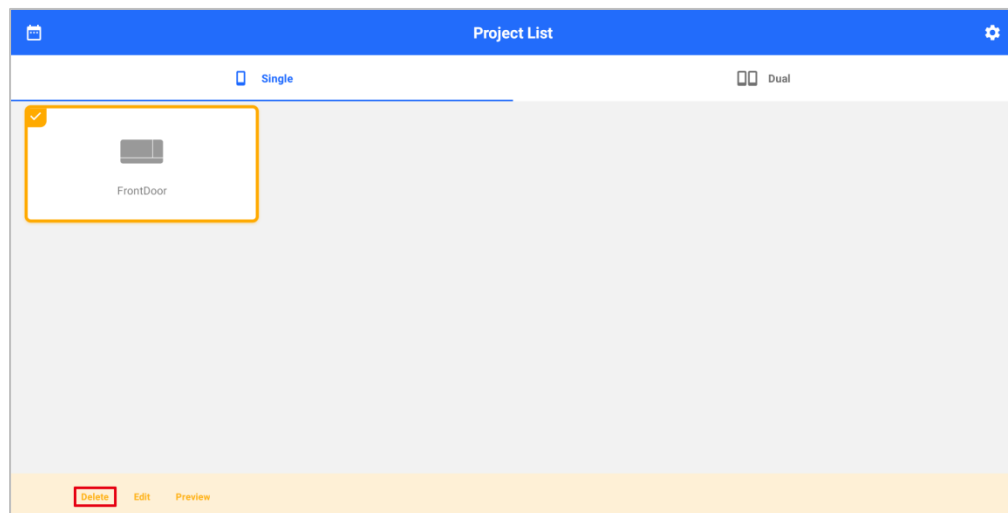


### Dual monitors mode:



### 3.3.3 Delete project

- 1) Click on a project button.
- 2) Click **Delete** button at the bottom to delete the project.
- 3) Click **Delete** button to delete the project or **Cancel** button to cancel the action.



## 4. Field Character Length

Item	Capitalization	Digital number	Underline “ ” _	Hyphen “-”	Unlimited	length
Project name	V	V	V	V		1 ~ 20
Scrolling text					V	1 ~ 150
NS03 device name	V	V	V	V		1 ~ 20
NS03 device password	V	V				1 ~ 8

\*Unsupported symbols (full/half width):

[ `~!@#\$%^&\*()+=|{}';, \[ \]. < > / ? ! ¥ ... ( ) — 【 】 ‘ ’ ; : ” ” ” 。 ’ 、 ? ” ]



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