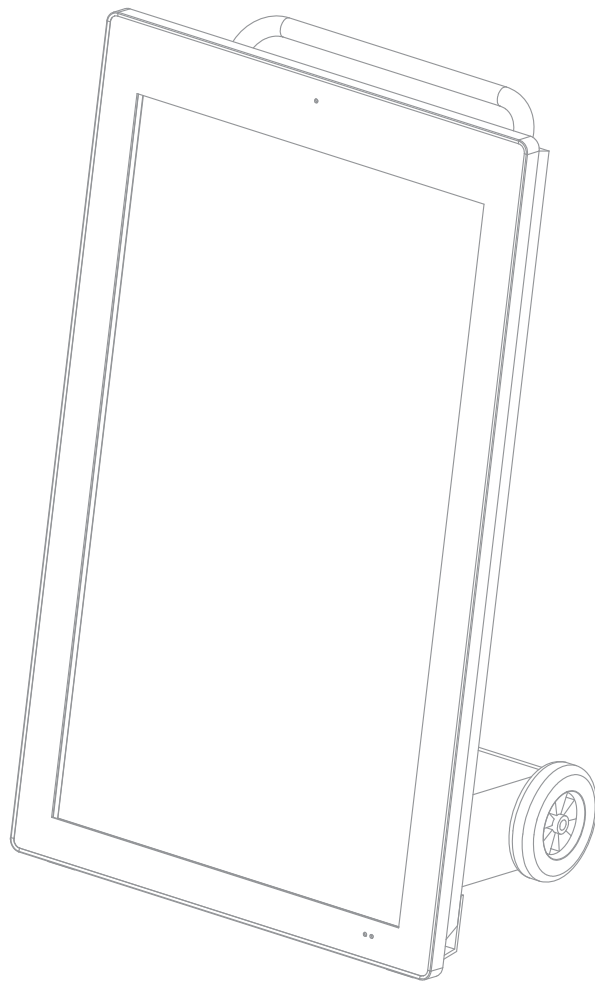


# User Manual

Battery-powered wheel 43 inch waterproof LCD



V1.0 @ 2021.09

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## 1. How to query the battery power and charge

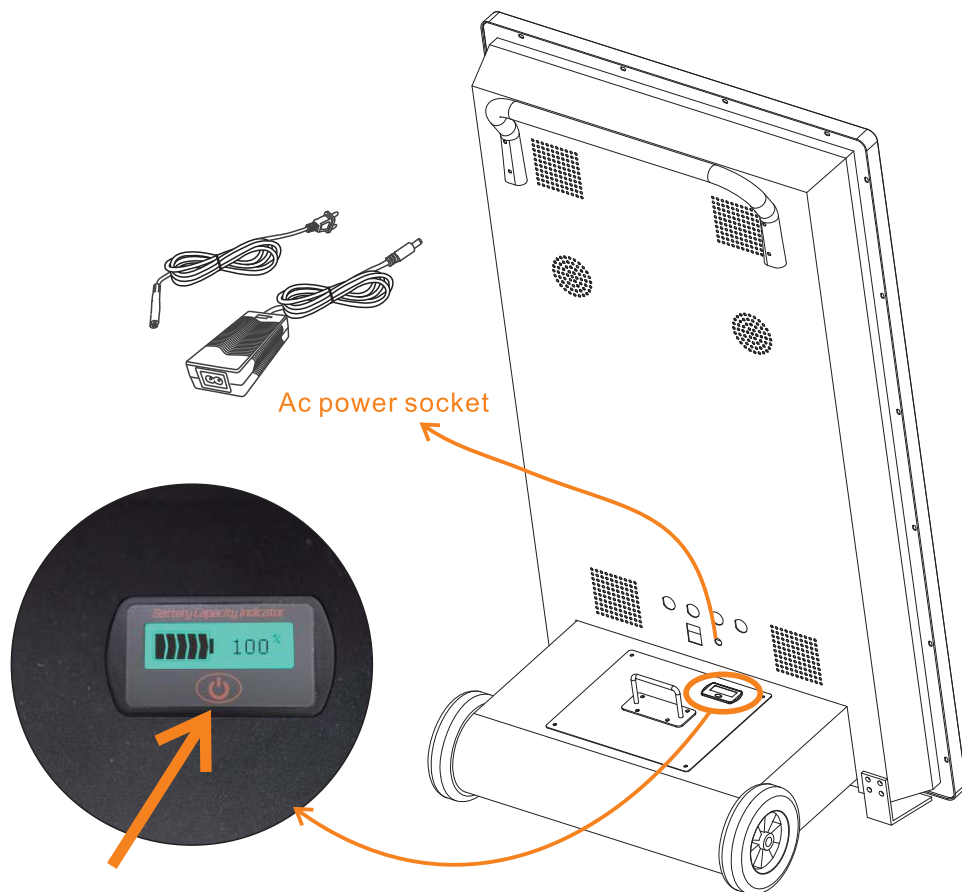
1.1 As shown in the photo, the area is the battery power indicator. If you need to check the power range, please press the  button, and the percentage of power will show on.

1.2 When charging is required, plug the DC plug directly into the DC port to charge.

**Note:** when the battery power is too low and needs to be charged, we recommend that the battery power should not be less than 10% to ensure the life of the battery.

1.3 When the product needs to be stored for a long time, the battery power shall not be less than 30%.

When the storage time is more than 1 month, it is recommended to charge the battery every month, and keep the power not be less than 30%, so as to keep long life of the battery.

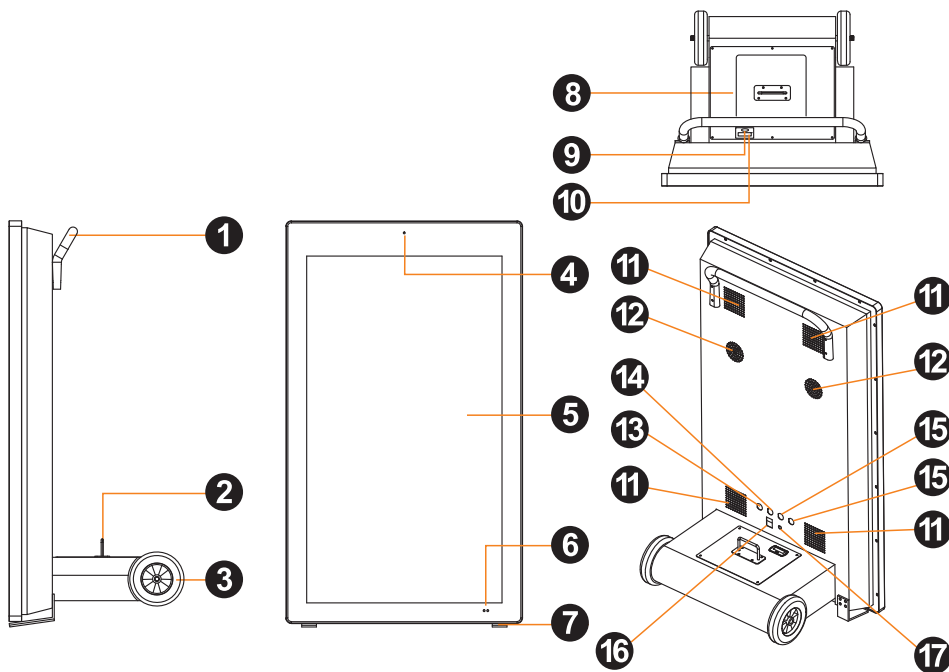


## 2. Product Information

### 2.1 Product feature

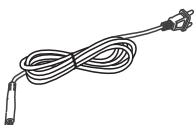
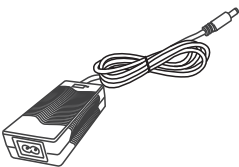

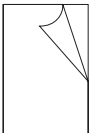
Battery-powered wheel 43 inch waterproof LCD is a Floor Standing LCD signage product with elegant frame design, 43" high quality LCD screen, Signway control board and UL/CE power supply embedded inside, which is capable to have wireless, Ethernet, cloud platform and USB program edit, playback for advertising, education, commercial and every kind of communication use at everywhere in the place you want. Light sensor: The screen brightness can be adjusted according to the ambient brightness (minimum 30%, maximum 100%, 256 levels of intelligent recognition and dimming) in order to save power and extend the use time of the whole machine.

### 2.2 Product Composition



- |                         |                          |                   |
|-------------------------|--------------------------|-------------------|
| ① Handle                | ⑦ Non-slip mat           | ⑬ RJ45 connection |
| ② Handle of battery box | ⑧ Battery box            | ⑭ HDMI port       |
| ③ Wheels                | ⑨ Battery indicator      | ⑮ USB port        |
| ④ Light sensor          | ⑩ Power indicator button | ⑯ Power switch    |
| ⑤ LCD Screen            | ⑪ Heat sink              | ⑰ AC power socket |
| ⑥ IR Indicator          | ⑫ Speaker                |                   |

**\* Standard Accessories Quantity Table**

Accessory	Photo	Qty	Remark
AC Power cord		1	with local plug
Power adapter		1	
Remote control		1	
User menu		1	

## 2.3 Product Technical Data

Items	Specification
CPU	4-core,ARM Cortex A53、 1.5GHZ
RAM	DDR4 2GB
eMMC	16 GB embedded
Outline Dimension	643mm x 427mm x 1094mm
Screen Size	43 inch
Number of Pixels	1080 x 1920 Pixels
Media formats	MPEG1、 MPEG2、 MPEG4、 H.264、 WMV、 MKV、 TSFLV、 MP3 JPG、 JPEG、 BMP、 PNG、 GIF
Input Voltage /Current	Charger: AC100-240 25.2V 5A
Power Consumption	85W
Battery Parameters	24V/45AH

## **2.4 Safety Warnings and Precautions**

Based on the product design and LCD property, the following security works must be complied with in the device handling and use.

- Avoid high temperature and high moisture circumstance use : operating temperature 0~40°C; operating humidity 10%~90%
- Suitable operating time : 20 hours a day or less
- Suitable voltage input : 100~240v, excess voltage will cause damage to the device
- Keep away from strong electromagnetic circumstance : strong electromagnetic wave will cause damage to the device
- Be used in ventilated circumstance : well- ventilated environment would be better for the device use
- Avoid excessive vibration, heavy drop and sever impact : any heavy vibration, drop and impact will cause damage to the device
- Do not replace or modify product parts by yourself : we will not be responsible for any product problems of the device caused by self-adjustment.
- To have regular cleaning work : regular cleaning work is good for the device operation

## **2.5 Product Ingress Protection**

The product is IP65 grade (INGRESS PROTECTION)

6-Prevent dust from entering

5-The anti-spray type machine is directly exposed to the water jet without harmful effects

Precautions:

- Please make sure that all wiring ports are closed when the product is used outdoors.
- Do not use this product in bad weather conditions, such as storms, sandstorms, etc.

### **Lithium Batteries Disclaimer of Liability**

Guangzhou You Guang Optoelectronics Co., Ltd is not responsible for any direct, indirect, special, or consequential damages and personal injuries, including that to life, and health, resulting from the customer's application and use of Guangzhou You Guang products. You, the customer, assume full and unlimited responsibility for all customer Battery applications and uses. Your purchase of this product constitutes your agreement to hereafter assume full and total responsibility for your subsequent utilization of the Battery and you agree to defend, protect, save harmless, and indemnify Guangzhou You Guang, its officers, and employees relative to your potential use and misuse of this product. By purchasing or using a Guangzhou You Guang product you agree to the above terms.

### **IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS**

As Lithium batteries are volatile, please read these safety instructions and warnings before using or charging your batteries. Failure to do so may result in fire, personal injury, and damage to property.

#### **General Guidelines and Warnings**

- Battery charge and discharge rates are given as a multiplier of the capacity. For example, a 3300 mAh (mili Amp-hour) battery with a 20C rating, the maximum continuous discharge rate is:

$$20C \times 3300\text{mAh} \times \frac{1\text{Ah}}{1000 \text{ mAh}} = \mathbf{66A}$$

- Store and charge in a fireproof container; never in your model!
- Never short a battery by cutting both wire leads simultaneously, contact with a conductive object, or any other means. If you accidentally short the wires, the battery must be placed in a safe area for observation as described above.
- In the event of damage (from a crash, etc), or swelling (ballooning); immediately cease use of the battery and observe it in a safe place for at least 30 minutes. Continuing to use a battery that has any physical damage, or has begun to swell may result in fire, injury, or damage.
- We recommend 3-5C max average discharge rate for breaking in new packs. Also be extremely careful not to over-discharge new packs (Packs should NEVER be over-discharged at any time, but over-discharging on the first flight will result in permanent damage to the battery).
- Never store or charge a battery pack inside a vehicle (especially in extreme temperatures).
- Store battery at room temperature between 40 and 80 °F (4 to 27 °C) for best results
- Do not expose battery pack to direct sunlight (heat) for extended periods.



**Charging of Battery Packs**

- Let Battery Pack cool down to ambient temperature before charging. Only charge batteries when the ambient, battery, and charger temperatures are between 32 and 113°F (0 to 45°C)
- Before connecting to charger, make a visual inspection of the pack. Look for any damaged leads, connectors, broken shrink, swelling of cells, or other irregularities. Do not use if you find any of the above issues with your pack.
- Do not charge batteries packs in series. Charge each battery pack individually. Failure to do so may result in incorrect battery recognition and charging functions.
- Use specific Balance Chargers only. Always check that all charger settings have been appropriately set for your specific battery pack.
- Always use balance charging. Do not charge without balancing; this will cause the cell voltages to become unbalanced; which may result in overcharging and damaging cells
- Never charge batteries unattended or overnight. When charging batteries you should always remain in constant observation to monitor the charging process and react to potential problems that may occur.
- Do not charge batteries above 25Volts/pack. Overcharged batteries are extremely dangerous.

**Discharging (Use) of Battery Packs**

- Do not discharge the batteries at a rate greater than they are rated for.
- Do not discharge batteries more than 80% of their capacity.
- Do not discharge batteries to below 3 volts per cell. Doing so will decrease the batteries lifespan.
- Discharge only when the battery and ambient temperatures are between 32 and 140°F (0 to 60°C).
- As a general guideline, a battery should never become so hot you cannot hold it tightly in your hand.

**Battery Disposal**

- Batteries that lose 20% of their capacity must be removed from service.
- Before recycling, discharge the battery to 3V/Cell, make sure output wires are insulated, and then wrap the battery in a bag.
- Do not dispose of batteries in the trash! Take your battery to an approved battery recycling facility.

### 3.Product installation














#### 3.1 Terminology of the product :

- The product : The whole product, including hardware and software of front-end display device and back-end content software platform.
- The device: front-end display device which drawing showed on the 1cover page page of this manual.
- GTV : the display software applied on the front-end device management. Please refer to **"Signway DS Player Software\_Android\_Manual\_V1.0\_140609"** PDF for the detail.
- CDMS: the content management software applied on the back-end content edit, program produce, program publish.. etc. management. Please refer to **"Digital Signage CDMS\_Manual\_V4.6.20"** PDF for the detail.
- Android : Android is an operating system based on a modified version of the Linux kernel and other open source software, designed primarily for digital devices. The product was developed based on Android system.

#### 3.2 Set up the product and the way to access

- Open the device back bracket, place it on a flat floor, and connect AC power
- Turn on power switch, make sure LCD is on and IR indicator, blue light on the surface, is on as well.
- Make sure the mouse or the remote control works well  
( we recommend to use mouse which is a more efficient tool )
  - mouse : connect wire or wireless mouse by using USB port on the back of the device

- remote control

Illustration	Button	Function
		power switch
		Call out OSD setup function ( active at GTV home page home page only)
		Function Key, active in GTV home page and Android home page only, act as moving key
		sequentially press F1-F2-F3-F4 to exit GTV and enter Android home page
		return
		play and pause
		stop playback. press this button, the GTV home page will be presented right after
		up/down/left/right
		mute/volume up/volume down
		Number input keys
		For extension out only, not available for content upload
		No function


### 3.3 Two ways to configure the device

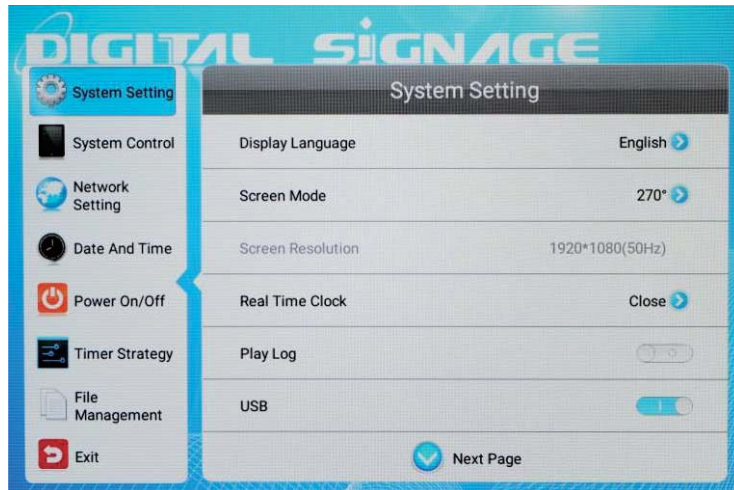
#### 3.3.1 Through GTV Home page ( also called OSD menu)

When the device being turned on, the system will enter into GTV home page at once and playback mode being active automatically, then if there is program ready for playback, either source from ROM or USB storage, the program will playback immediately. But if there is no program ready, GTV home page shown as below will stand still for further action.








GTV home page

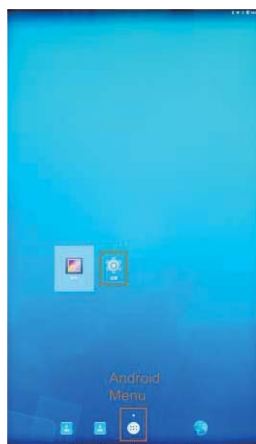
At this moment, you can press **SETUP** button on remote control or click  on the upper left corner of GTV home page and enter into system setting page as below, then you can go on for language, work mode, network, time...configuration.



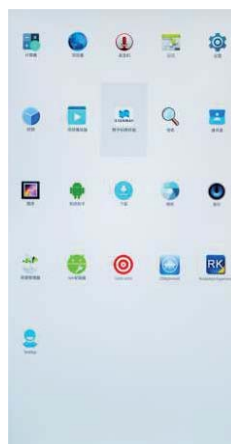
System setting page on GTV

### 3.3.2 Through Android home page :

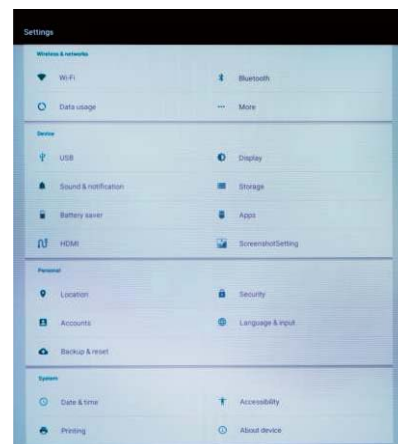
When the device is playing, press  to return to the GTV home page. In that moment, press **F1 F2 F3 F4** sequentially to perform the action of exiting GTV and entering the Android home page. Afterward, you can click  on the page or click  Android menu first and then click  on the Android menu page to enter into Android setup page for device configuration. After configuration, click  to come back GTV and have playback again.



Android home page



Android menu page

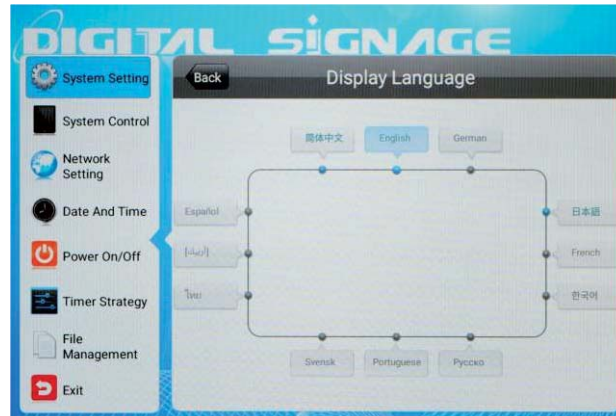


Android setup page

### 3.4 Certain settings required before playback

#### 3.4.1 Language :

English is the default language set in factory, you can choose to select Simple Chinese or Japanese as you want by pressing    + .



Language page

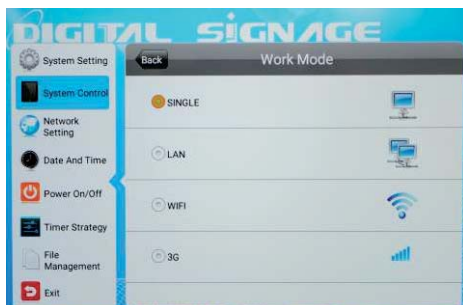
#### 3.4.2 Work mode :

there are two major categories of work mode : network and stand-alone

- Network : It means to upload programs to the device by the network, which is divided into wired(LAN), wireless(wifi) and 3G according to the upload path used.
- Stand alone : It means to upload programs to device by USB manually. You should click Work Mode and select "Single" and you have to activate USB on System Setting page at the same time, then the device will recognized USB storage and upload the program inside when USB inserted into USB port.



System control page



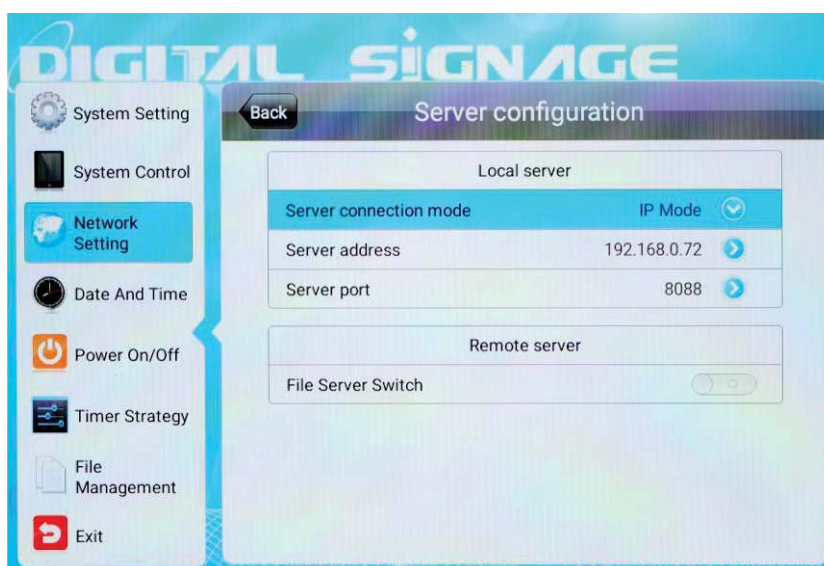
Work mode page



System setting page-USB

### 3.4.3 Network setting :

When you select one of the network paths as your Work Mode, you must ensure that the network environment is properly set and available. If you have correct setting, you will see server address (web IP) showed on the page below.



Network setting page

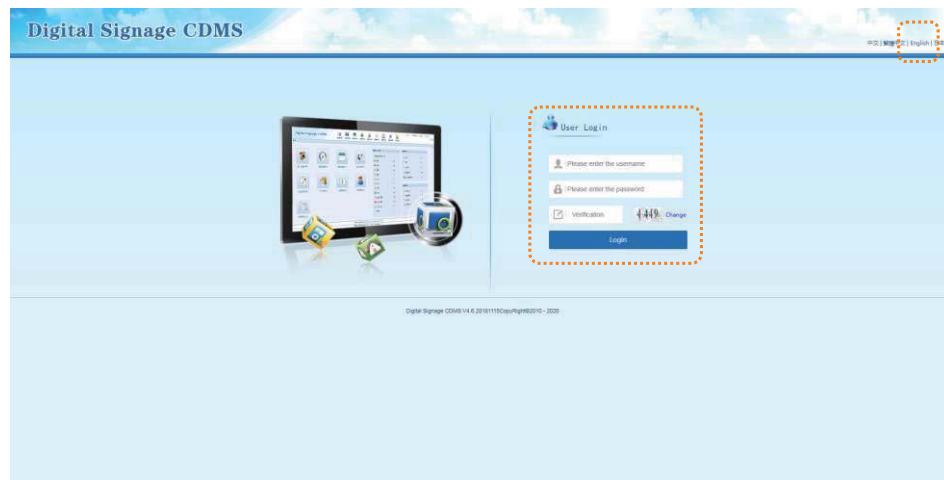


## 4. Content Edit and Playback

### 4.1 Cloud CDMS server platform

We have set up a cloud CDMS server platform on web to serve our customers. Please have you account and password and enter the website by using computer.

<http://47.52.207.18:8088/cdmsA/index.jsp>



### 4.2 Content edit and produce program

After log-in the cloud CDMS platform, you can edit content, produce program, creat display plan and publish program to the devices on the platform. CDMS is a powerful platform for your displays, including images, text, video, audio or a complex, please refer to "Digital Signage CDMS\_Manual\_V4.6.20" PDF for the detail of operation.

### 4.3 Content upload and playback

As mentioned on 2.4.2 Work mode, there is two ways of uploading programs to the devices,

- Newwork : Be sure your device network is fully configured and functioned well, then you can publish programs to the devices easily.
- USB : In stand-alone (single) scenario, you need to configure to activate USB first, as shown in >>"System Setting page-USB" on 2.4.2, down load programs from CDMS platform to your USB storage and insert the USB into USB port of the device, then the device will recongize the USB, upload program and playback atuomatically.



## **5. Product Warranty and Maintenance**

### **5.1 Warranty Policy**

- The product provides one-year warranty starting from the ex-work delivery date under the premise of normal and reasonable use of the product.
- Any unauthorized replacement of parts and components and wiring changes are deemed to be a violation of normal and reasonable use, and we will not perform the warranty responsibility

### **5.2 Product Maintenance**

- Regular cleaning on the product including dedusting of the surface and frame is required
- Follow through the use precautions mentioned on “1.4 Safety Warnings and Precautions” above is the most basic maintenance work.
- In case of a failure, please Inform the manufacturer and have maintenance operations by qualified person under the manufacturer's guidance.

## 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.