

LCD Controller

L13 Instructions

Version: Ver.1.0

Statement

Dear user friend, thanks for choosing SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD (hereinafter referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

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Update Record

No.	Version	Details	Date
1	Ver.1.0	Initial	18 th Sep 2020

Note:The document is subject to change without prior notice.

SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD

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Overview

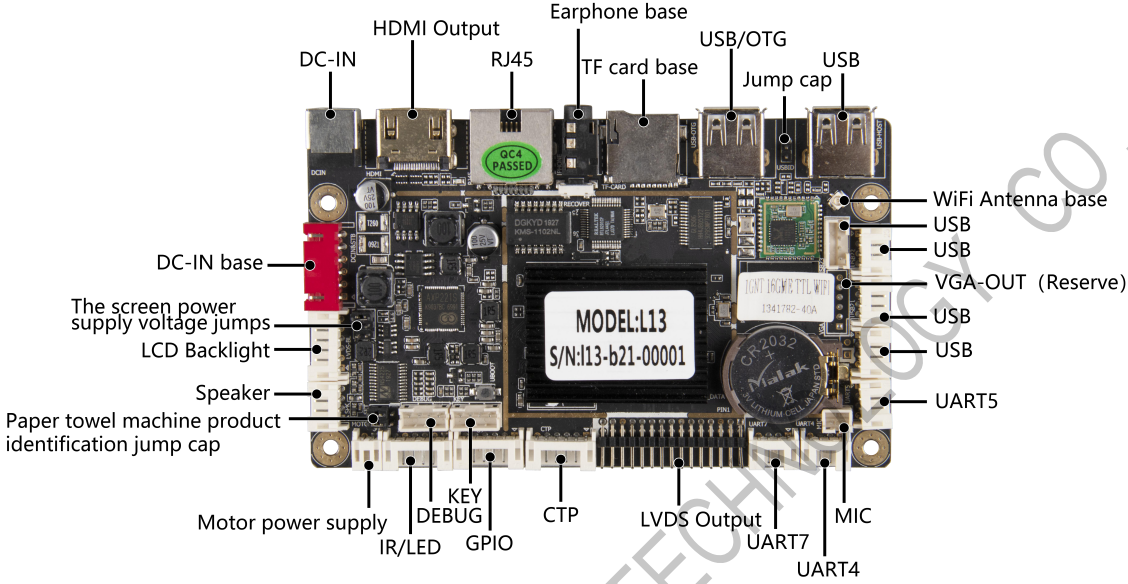
L13 adopts Allwinner A401 quarter core chip, with 4 ARMA kernel and Mail-400MP2 Graphics processing unit, the main frequency can achieve to 1.2GHz, can also compatible with almost all types of video and decoding capability.

With Android 7.1 operation system, standard 1GB RAM and 16G EMMCROM, supports dual channels LVDS ports, can directly drive 15-55inches LCD screen and also support big size infrared touch screen; the main interface uses horizontal socket to meet the ultra-thin requirements of products.

Functions And Features

1. Simplicity design: reserve common used interfaces, super thin and mini size design fits for super thin ads sign.
2. Highly integration: integrate TF card/USB/ LVDS/ HDMI/ Ethernet/ WIFI/ infrared/ serial port together, make the complete product more simple.
3. Rich of expand interfaces: 6 USB ports(2 standard USB, 4 built in sockets), 3 expand serial ports, 1 GPIO/ADC interface, can meet various types of external devices.
4. high quality definition: maximum support 1080P decoding and various LVDS signal.
5. Complete functions: support horizontal and vertical screen, split screen, rolling text, switch schedule, USB import and so on.
6. Simple management: the management software very easy to use, simple to send ads and control terminals. Customer will know the play status through play log.

Interfaces

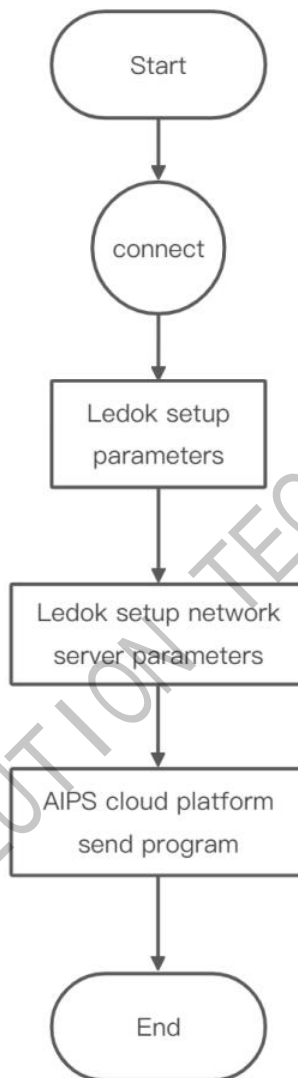


Technical Parameters

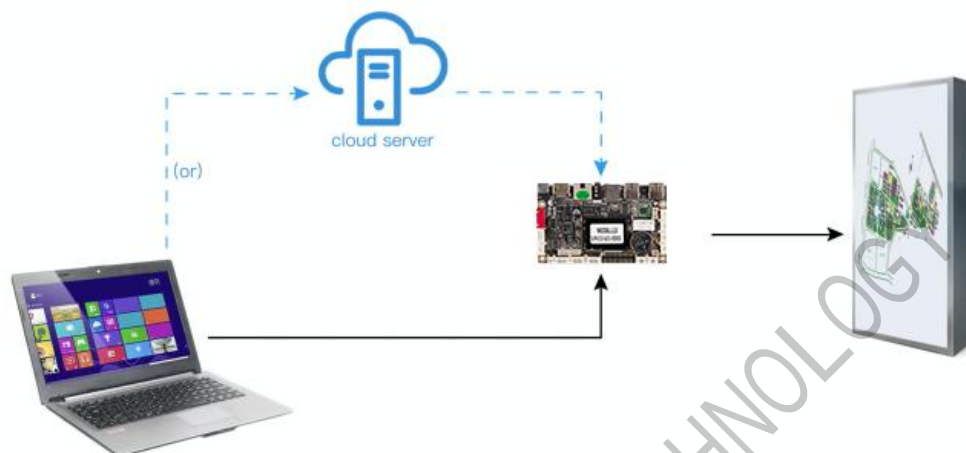
Main hardware information	
CPU	Allwinnner A40I, Cortex-A7structure, main frequency 1.2G
RAM	DDR31G
ROM	EMMCFLASH16G(can expand to 32G)
Expand storage	Support 32GB TF card maximum
Decoding resolution	Maximum resolution 1920*1080
WiFi	Built in WIFI or WIFI/BT modem (choose either one) , 802.11b/g/n,default single WIFI modem
Operation system	Android7.1
Video format	Support AVI (H.264、DIVX、DIVX、XVID) ,rm, rmvb, MKV (H.264、DIVX、DIVX、XVID) , MOV, MP4 (.H.264、MPEG、 DIVX、XVID) , DAT (VCD) , VOB (DVD) , PMP,MPEG, .MPG,, FLV (H.263, H.264) , ASF, TS, TP, 3GP, MPG and so on
Video output	Support maximum Single / dual 6-bit / 8-bit 1080plvds and hdmi1080p Full HD output
Audio format	Support MP3,WMA,MP2,OGG,AAC,M4A,MA4,FLAC,APE,3GP,WAV and song list function
Sound Record function	Support MP3,WMA formats
Image view	Support JPG、BMP、PNG、GIF and other image formats

	browse and support rotation / slide show, up to 3840 * 2160 resolution
Touch screen	Support USB capacitance, infrared touch screen (point control, fast point, Lingchang, CVT, etc.)
Other input devices	Support USB keyboard, mouse, IR remoter (only support turn on/off screen function of remoter)
Video function	Support USB camera
System special function	Bottom and upper hardware watchdog, timing switch, remote switch, system encryption, super standby
3G modem	Support USB3G/4G modem (connect through USB)

Software Operation Procedures

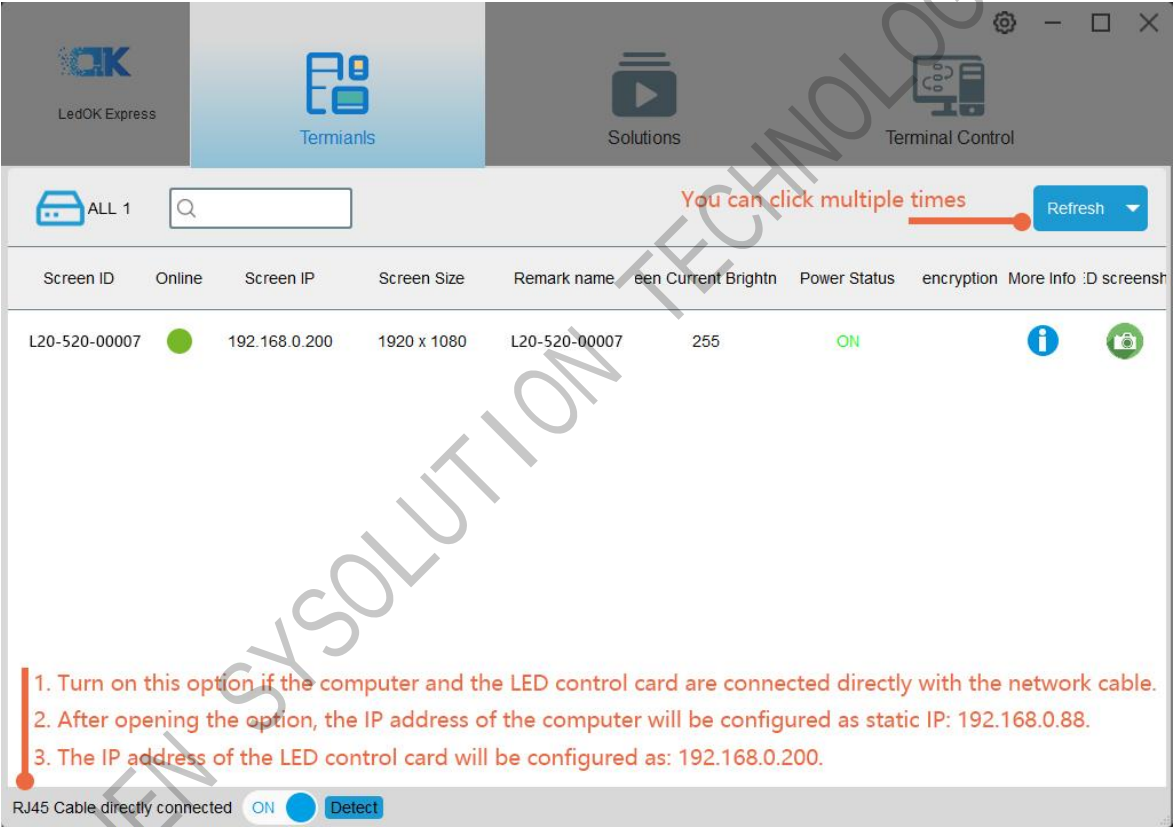


Hardware Connection Diagram



Software Connection

Confirm the hardware connection, open the LedOK Express software, and the sending card can be automatically detected in the device management interface. If the sending card cannot be detected, please click the refresh button on the right side of the software interface. If it is connected by a network cable, please open the "RJ45 Cable directly connected" in the lower left corner of the software interface.



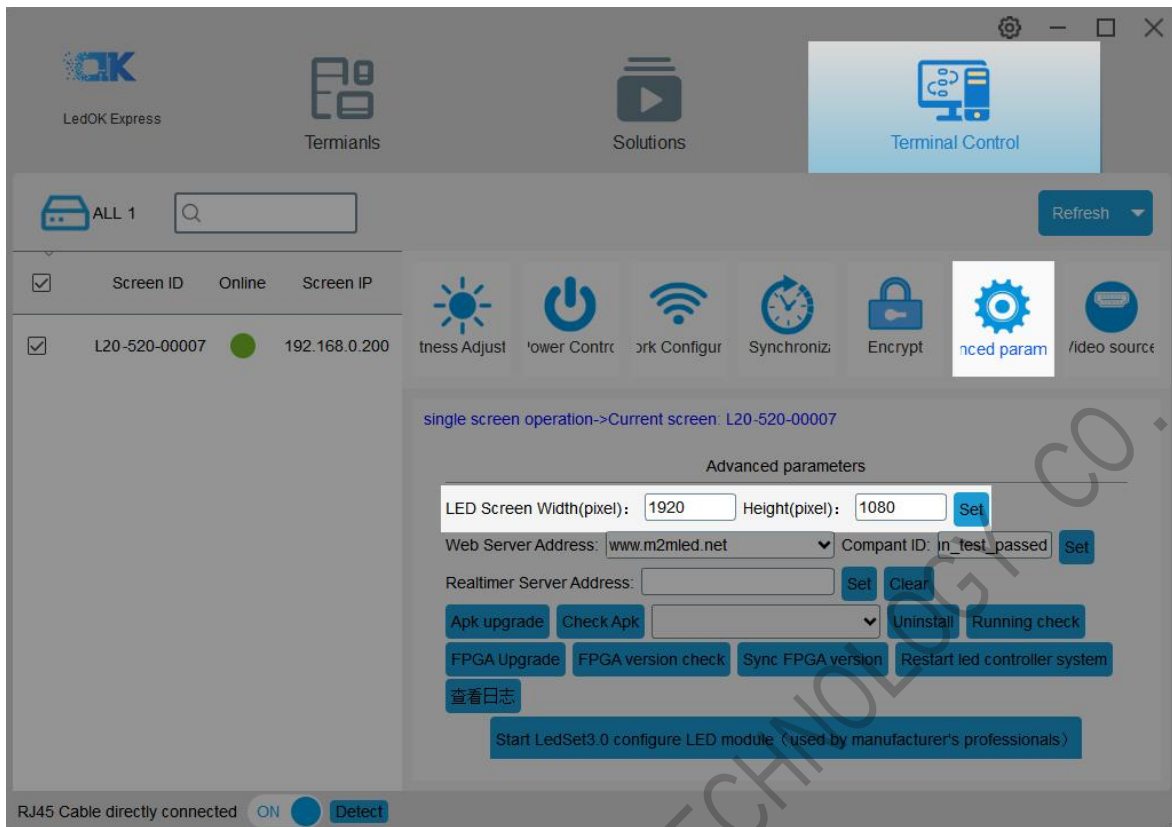
LedOK System Parameters

LED full screen width and height settings

Click Terminal control and select the controller, go to Advanced parameters and input password 888 to enter setup interface.



In the advanced configuration interface, enter the LED screen width and height parameters and click "Set" to prompt success.



LedOK Configuration Network

There are three ways for the control card to access the network, namely, network cable access, WiFi access, 3G/4G network access, and different types of control cards can choose the network access method according to the application (choose one of the three).

Method 1: Wired network configuration

Then open the network configuration interface, the first is the wired network, you can set the IP parameters of the selected control card.

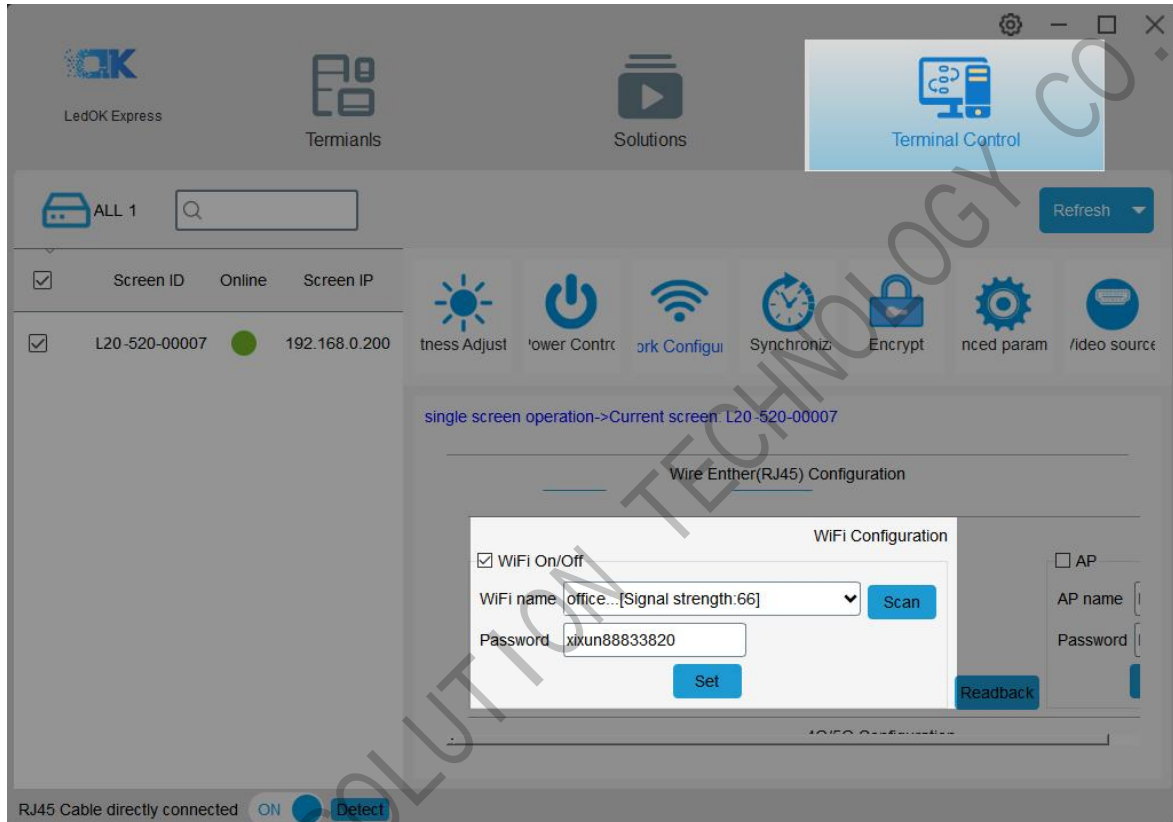


Control card access network priority wire network.

When selecting wireless WiFi or 4G network access, the wired network must be unplugged, and the IP address of the sending card is obtained automatically.

Method 2: WiFi enabled

Check WiFi Enable and wait for about 3 seconds, click Scan WiFi to scan available WiFi nearby, select the WiFi and enter the password, click Save to save the WiFi configuration to the control card.



After about 3 minutes, the control card will automatically search for the WiFi hotspot connected to the configuration, and the "internet" light on the control card will flash uniformly and slowly, indicating that it has connected to the cloud platform. At this time, you can log in to the cloud platform www.m2mled.net to send the program.

Tips

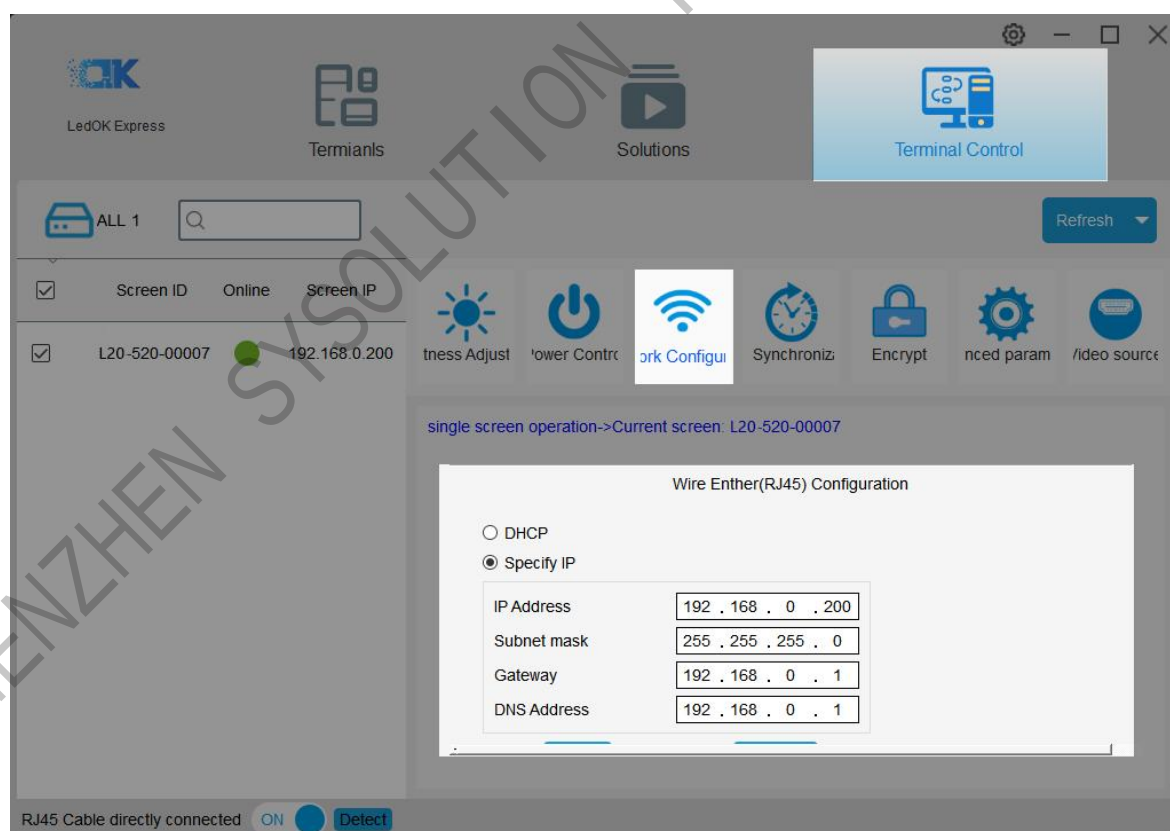
If the WiFi cannot go online, you can troubleshoot the following situations:

1. Check whether the WiFi antenna is tightened;

2. Please check if the WiFi password is correct;
3. Check whether the number of router access terminals has reached the upper limit;
4. Whether the E-card code is in the wifi location;
5. Re-select a WiFi hotspot to configure the connection;
6. Is the Y/M series wired network unplugged (priority wired network).

Method 3: 4G/5G configuration

Check Enable 4G/5G, the country code MMC can be automatically matched by the Get Status button, and then select "Operator" to get the corresponding APN information, if the operator cannot be found, you can check the "Custom" checkbox, Then manually enter the APN information.



After setting the 4G/5G parameters, wait for about 5 minutes for the control card to

automatically dial the 3G/4G network to access the network; observe the "internet" light of the control card flashing uniformly and slowly, which means that the cloud platform has been connected, and you can log in to the cloud platform at this time. www.ledaips.com to send programs.

Tips

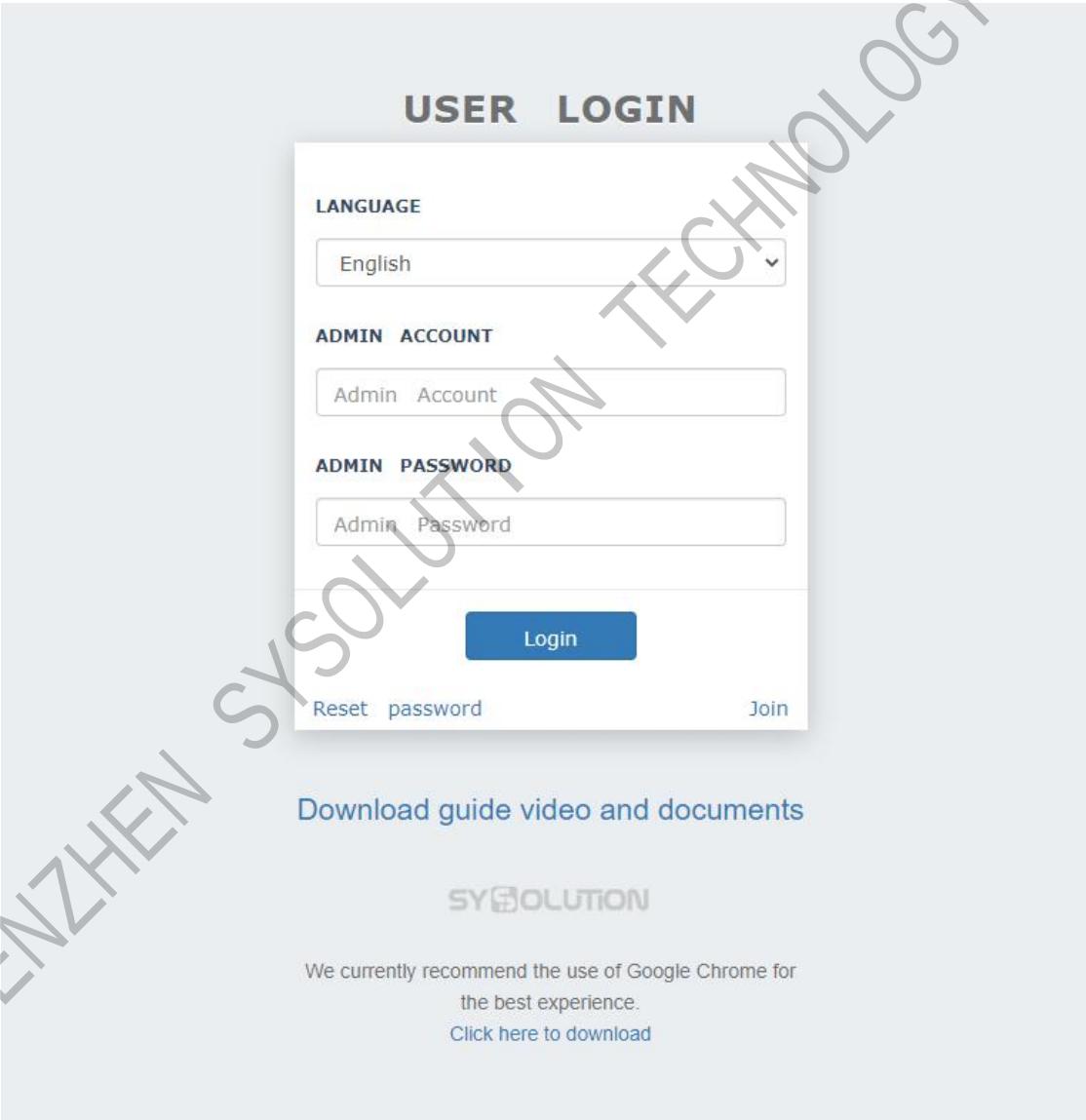
If 4G/4G cannot go online, you can check the following situations:

1. Check whether the 4G/5G antenna is tightened;
2. Is the Y series wired network unplugged (priority wired network);
3. Check whether the APN is correct (you can consult the operator);
4. Whether the status of the control card is normal, and whether the available flow of the control card in the current month is greater than 0M;
5. Check whether the 4G/5G signal strength is above 13, and the 3G/4G signal strength can be obtained through "Network Status Detection".

AIPS Cloud Platform Register

Cloud platform account registration

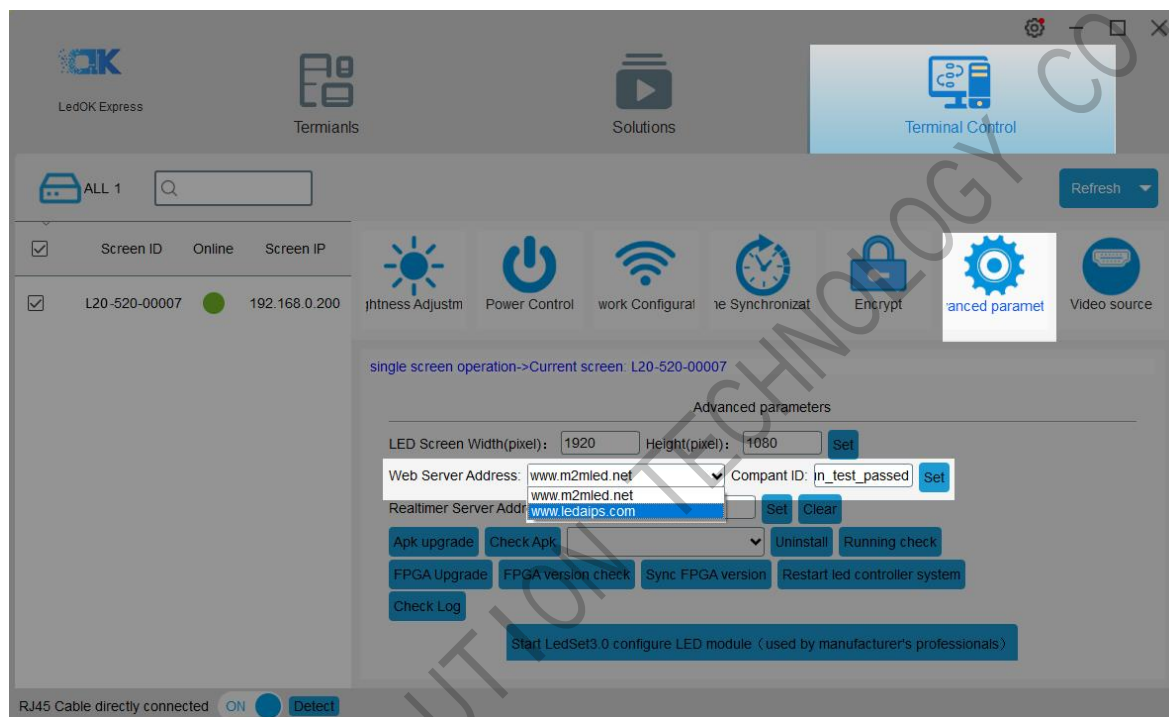
Open the cloud platform login interface, click the registration button, input information according to the relevant prompts and click submit. After receiving the confirmation email, click the link to confirm and complete the registration.



Cloud platform account binding

Enter the web server address and company ID and click Save.

The foreign server address is: www.ledaips.com

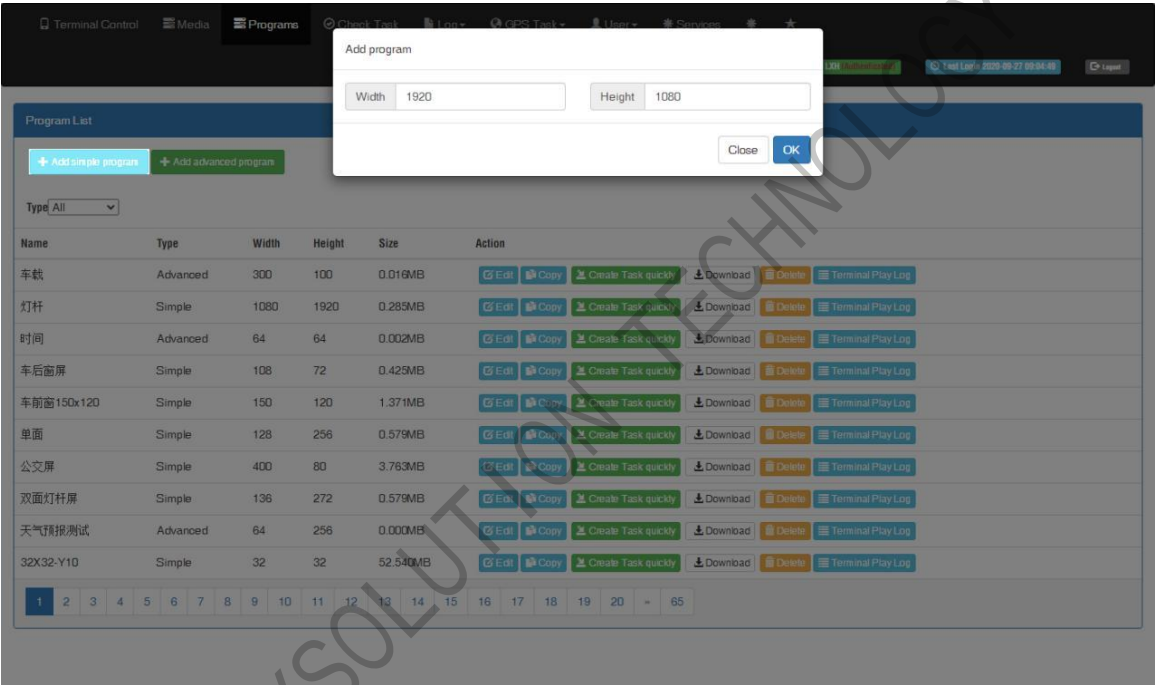


AIPS Cloud Programming

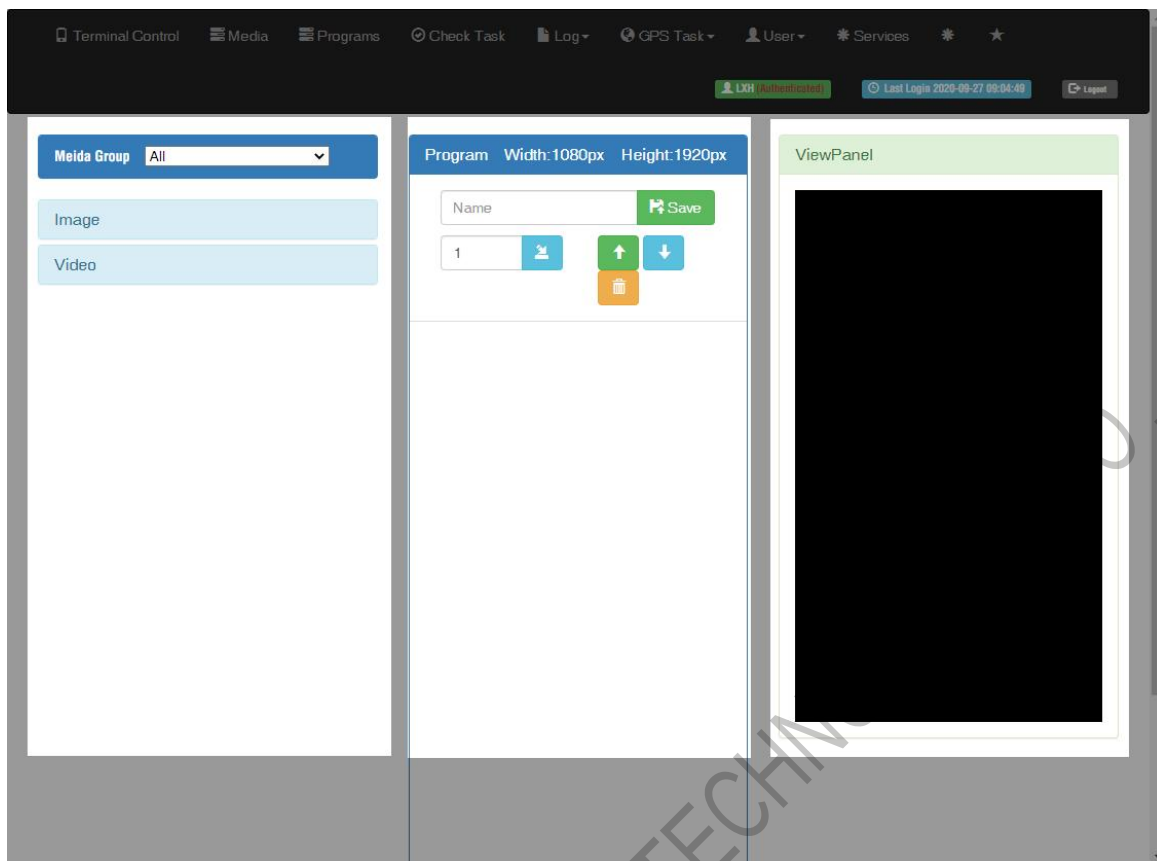
Simple Program

Make simple program ----only support image or video files.

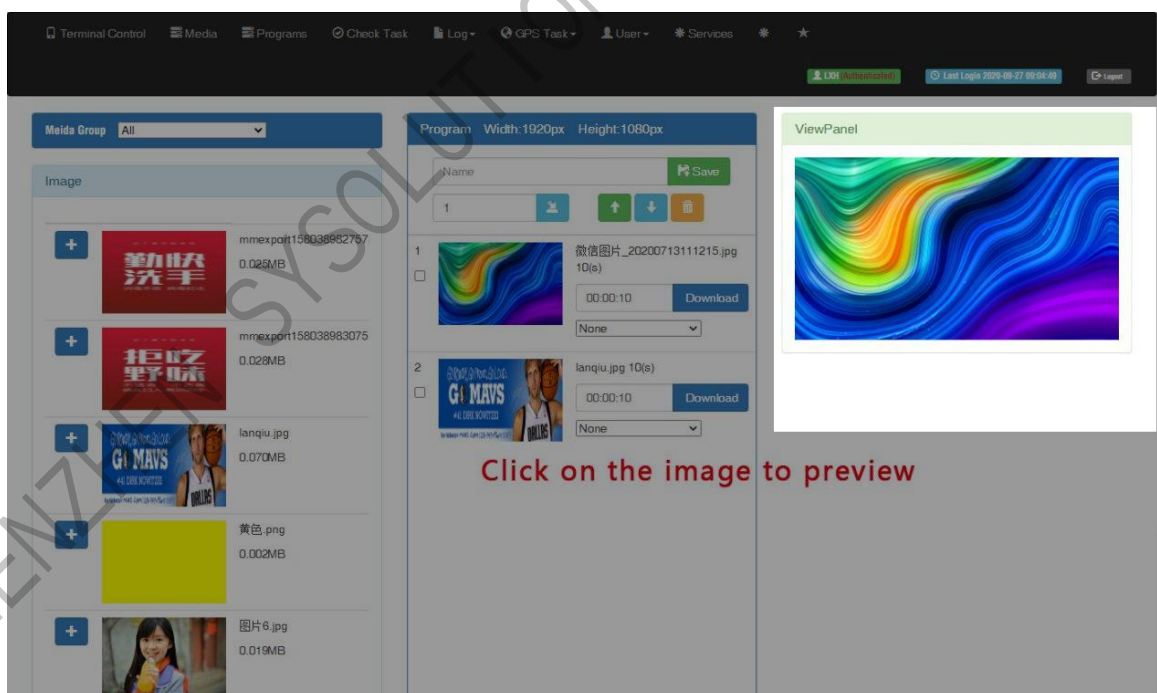
Click “add simple program” button and set correct screen width and height pixels and click OK.



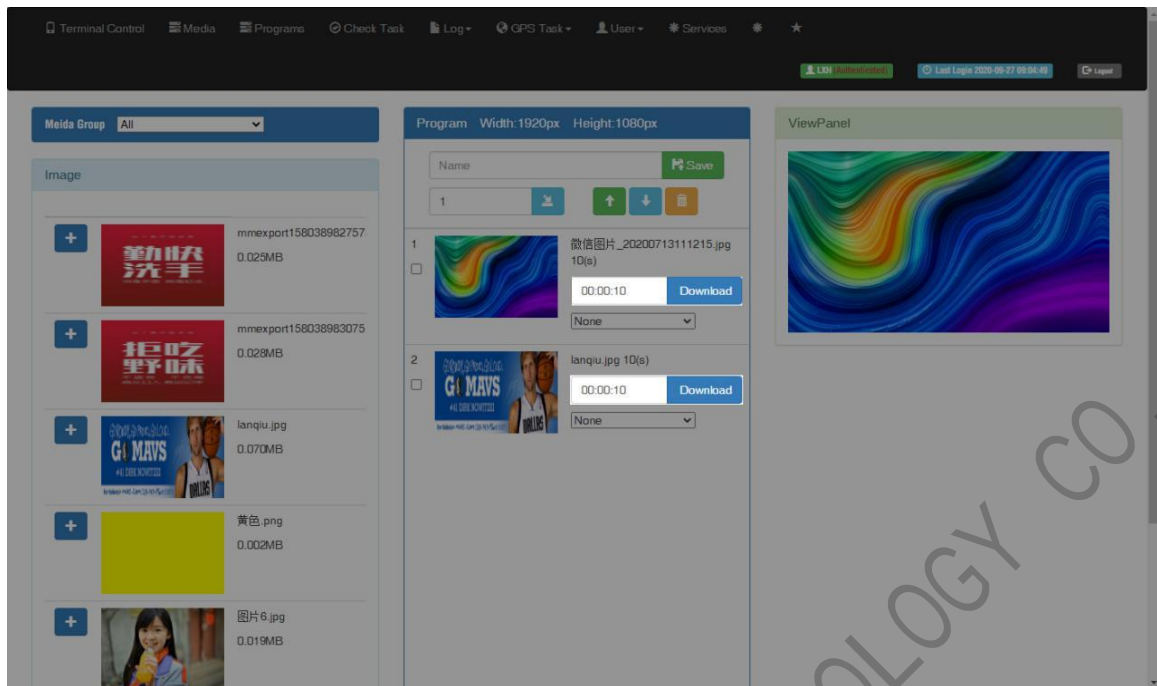
Input program name and select the material from left side, here are 3 zones including material in the left side, program editing in the middle and preview window in the right side.



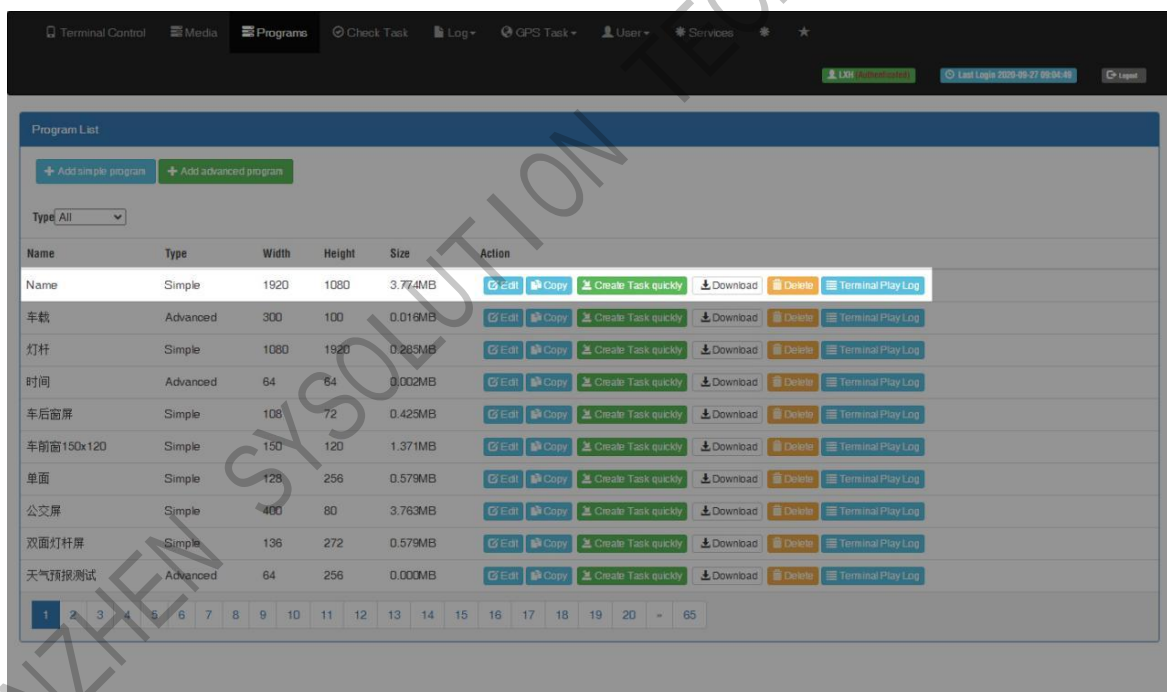
Choose materials and set program name, can check preview in the right window.



Can set the display duration time here, see screenshot in below:



After saving you will see the program in the list.

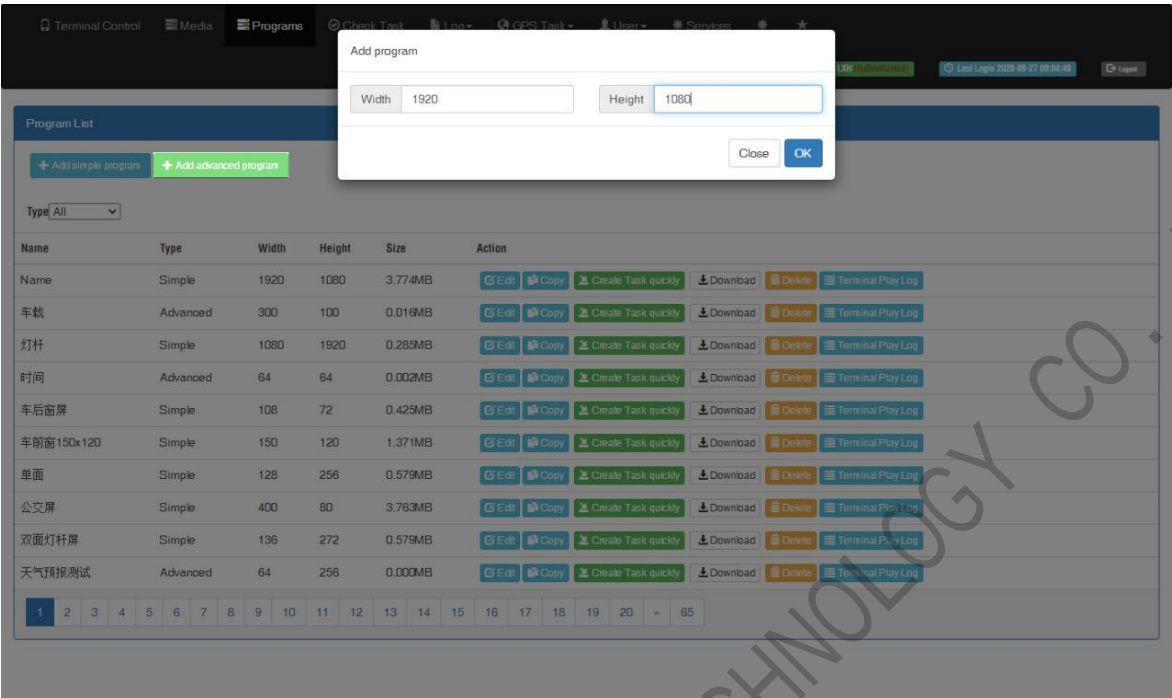


Advanced Program

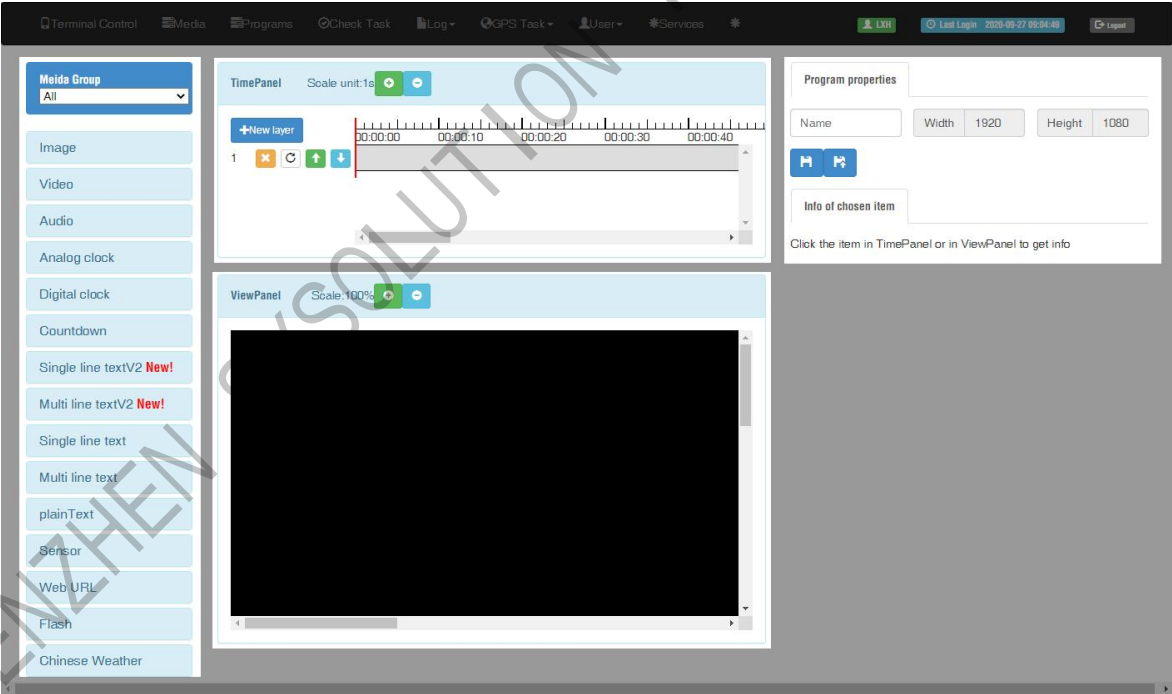
Advanced program including image, video, clock, text, audio and support more layers.

Click "add advanced program" button and set correct screen width and height pixels,

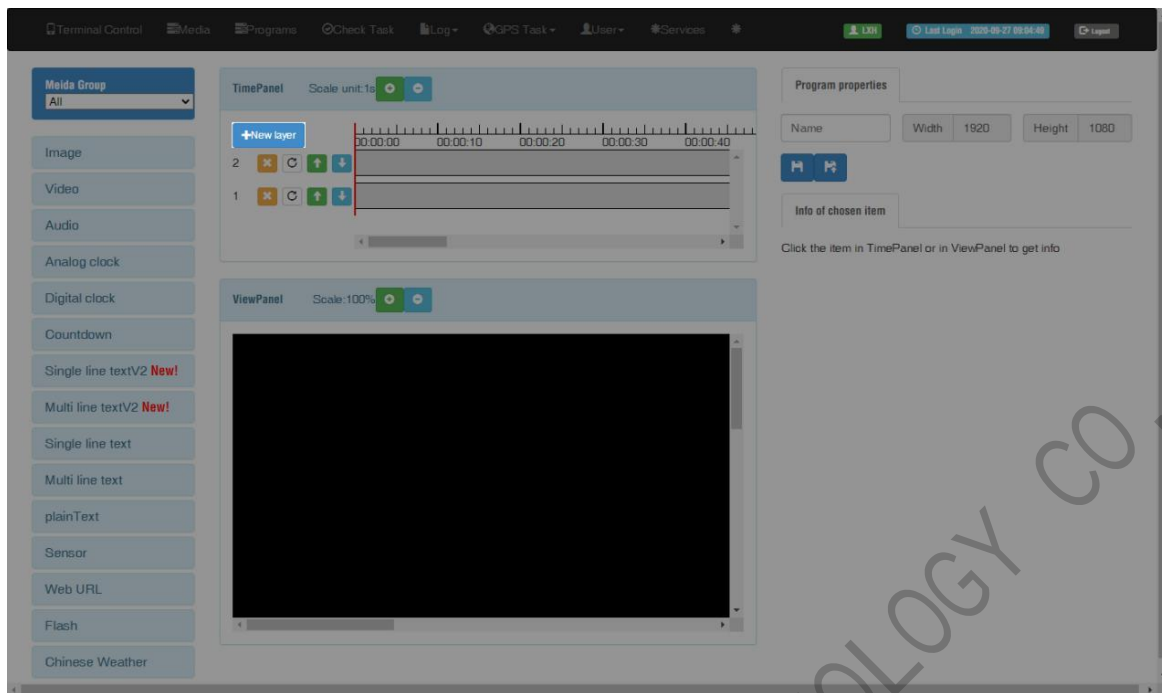
click "OK" .



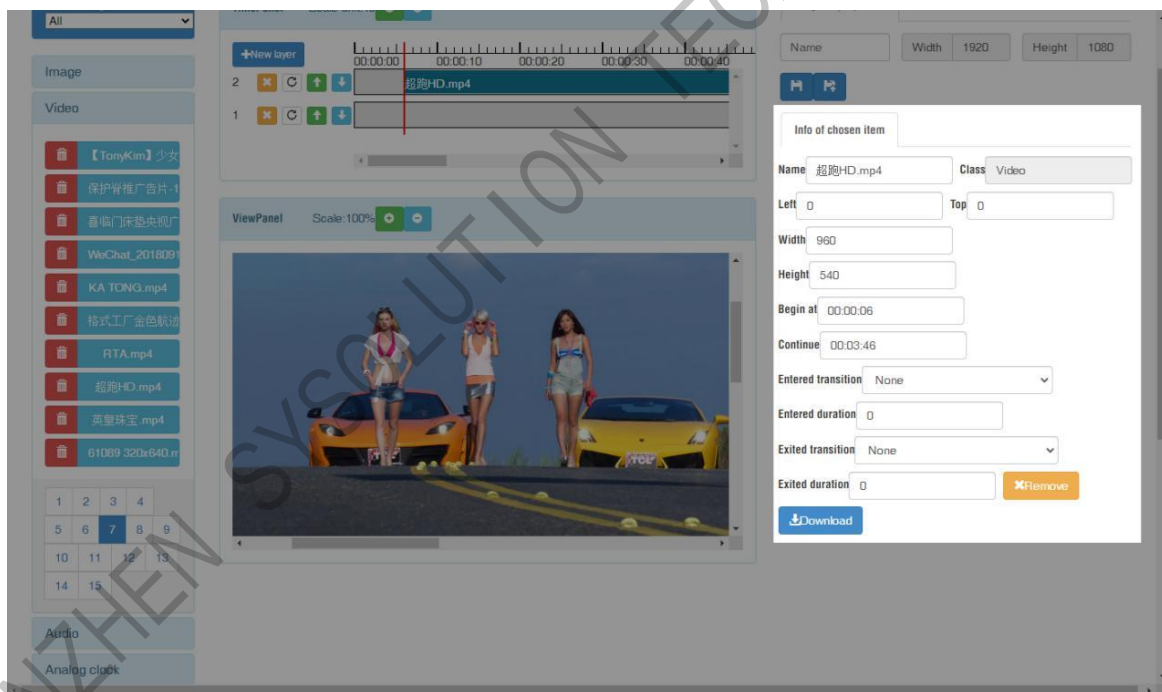
Here are 4 zones including media group, time panel, preview and program property.



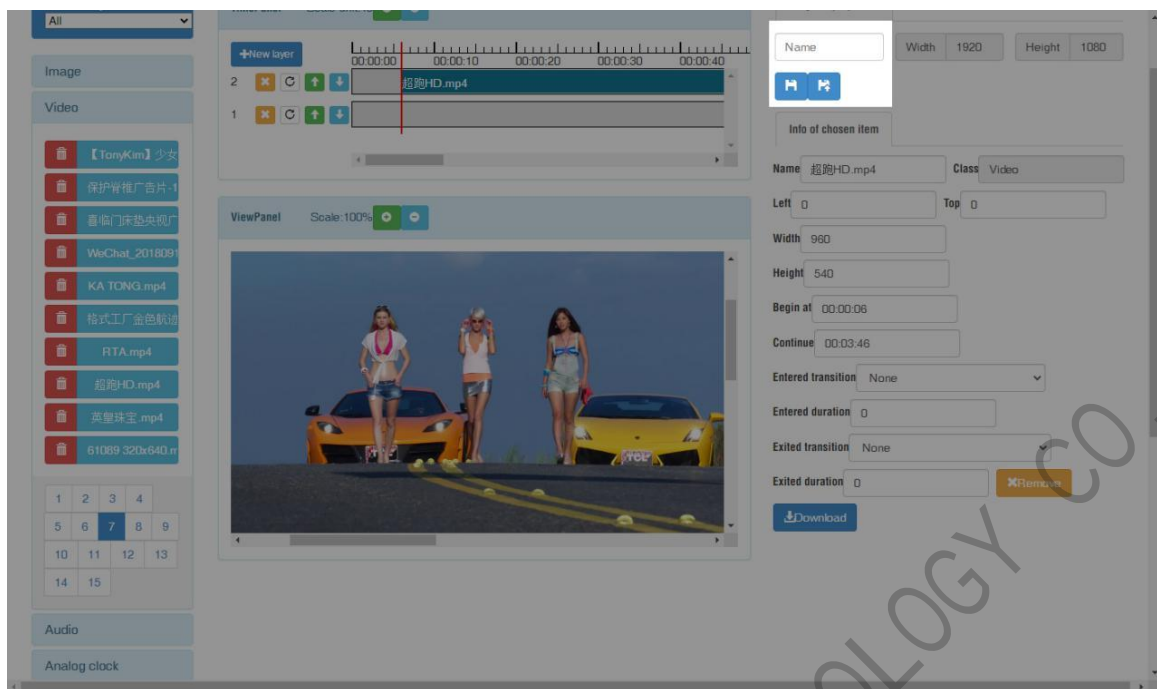
Click "New layer" button and select media file then add to the time panel ,for example:
select video file and add to time panel.



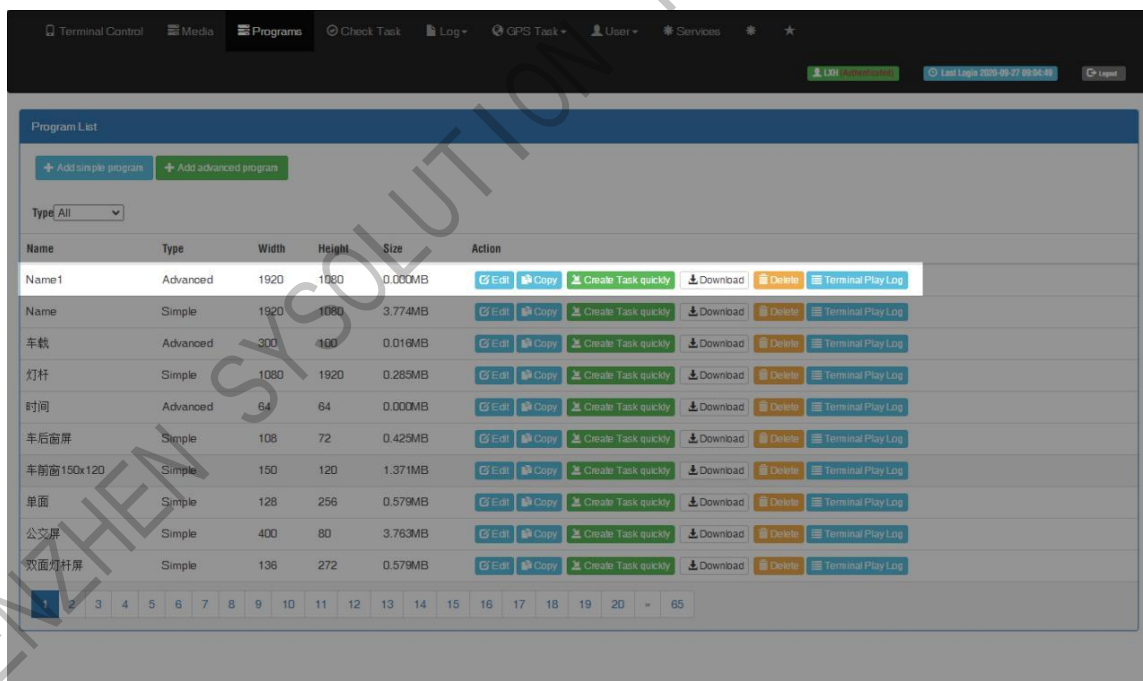
Can set the program parameters, start and end time.



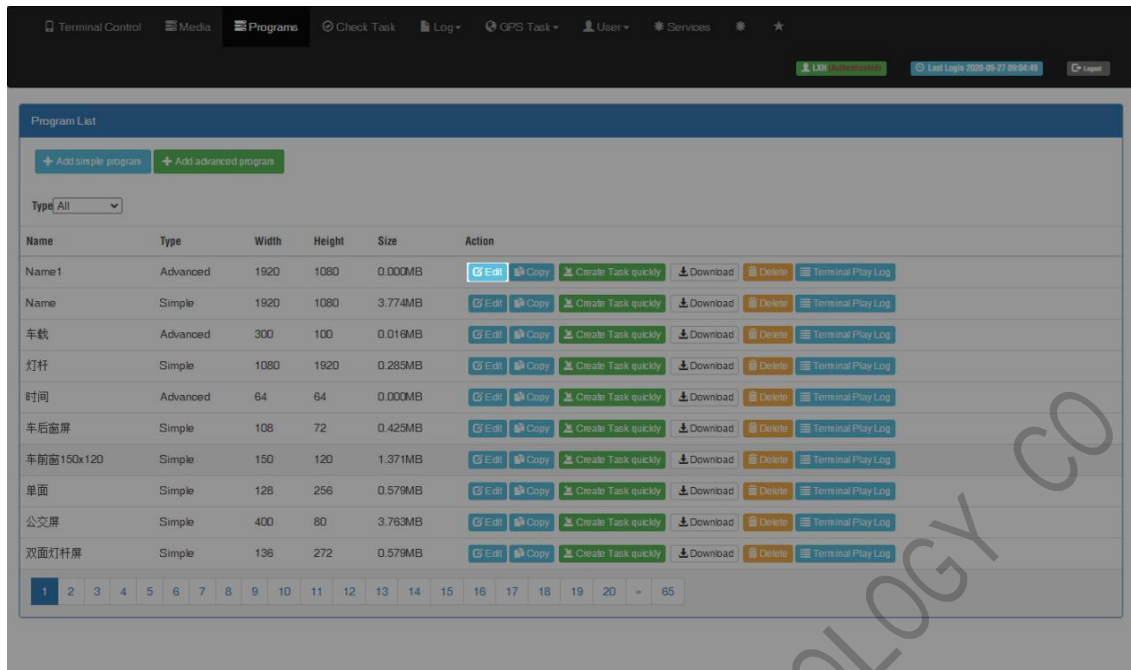
Save and quit after setup all parameters and program name.



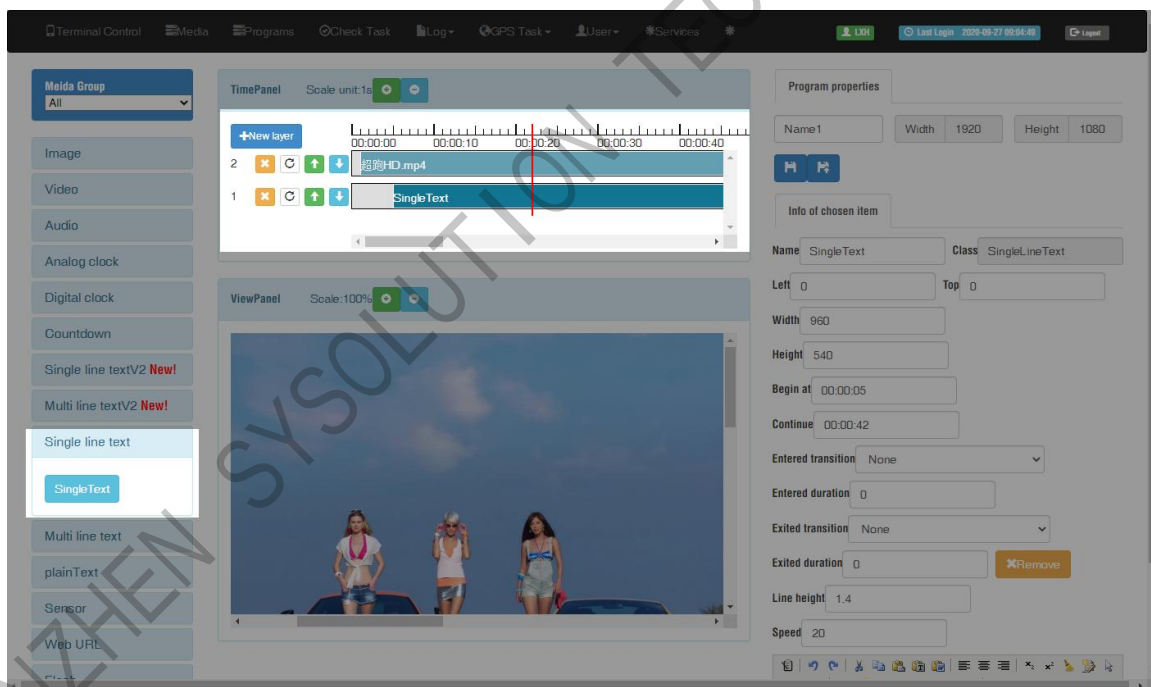
Then jump to program list interface, you can click green button of create task quickly and then select controller and send.



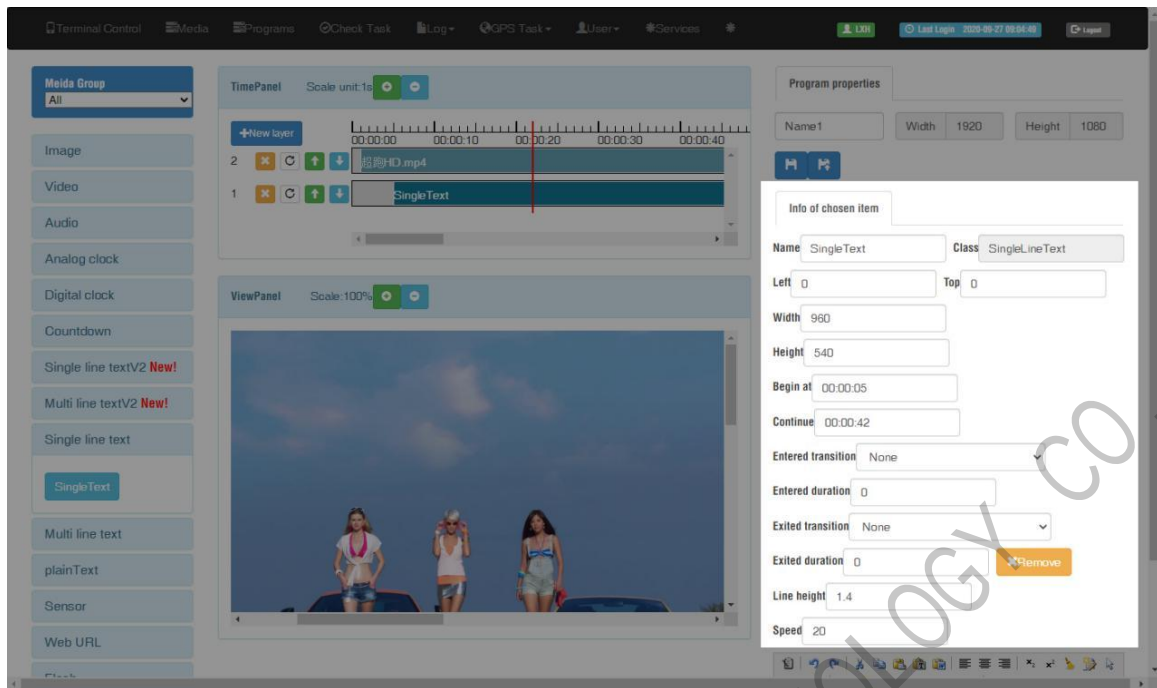
Use the "Edit" button to modify the existing program.



Add multi-line text, click the text (single or multi-text) and add to the time panel.



Setup parameters for text, including the start and end time.



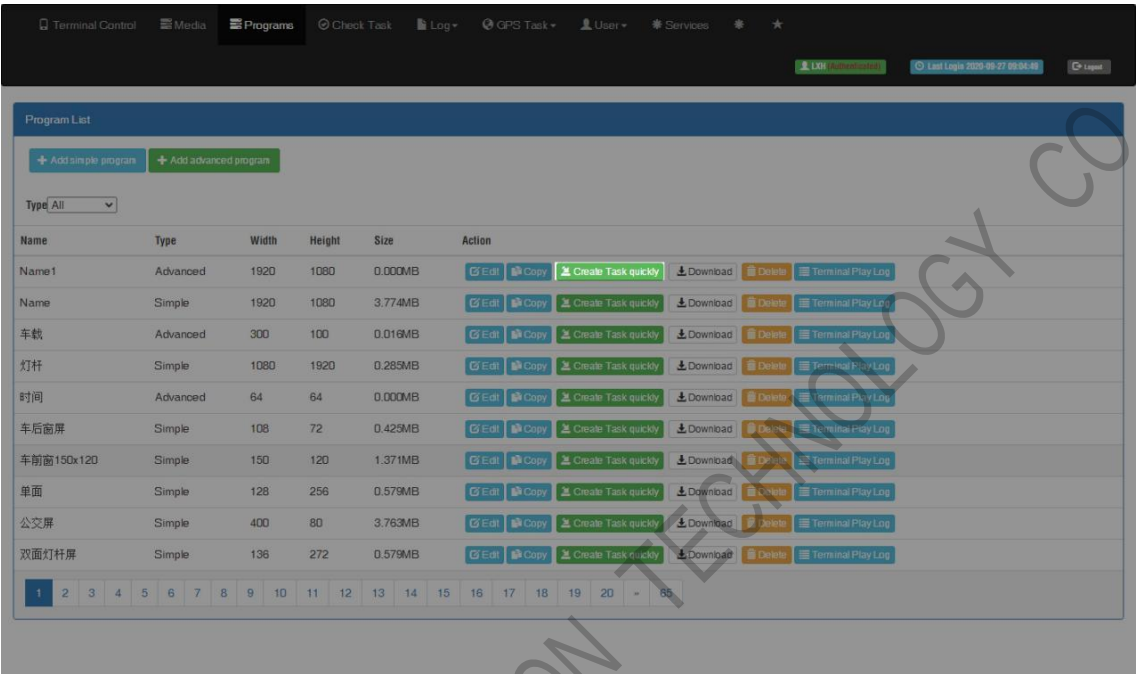
Setup the text color, font size and add more pages, please pay attention to our TIPS message in below, save and quit after finish.



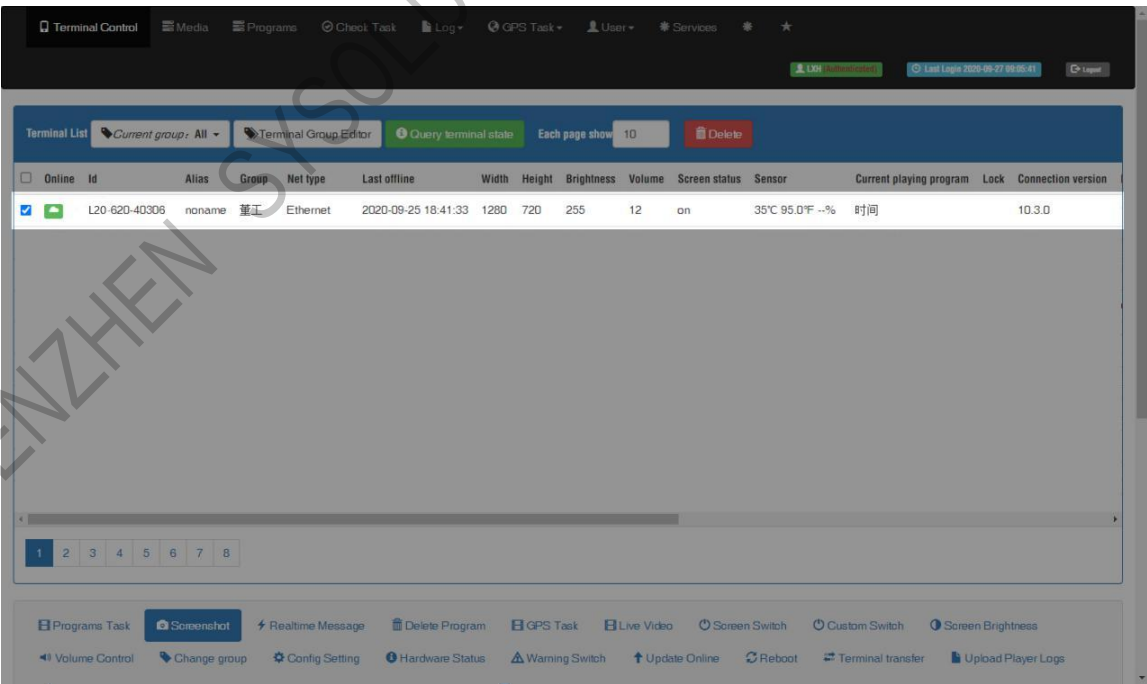
Hint Press Enter to separate next page, Press Shift + Enter to new a line. Define the following string instead of the value of sensors in terminal: %c is celcius, %f is fahrenheit, %h is humidity, (%c1 %f1) or (%c2 %f2) round to 1 or 2 digit(s) after the decimal point

Send Program

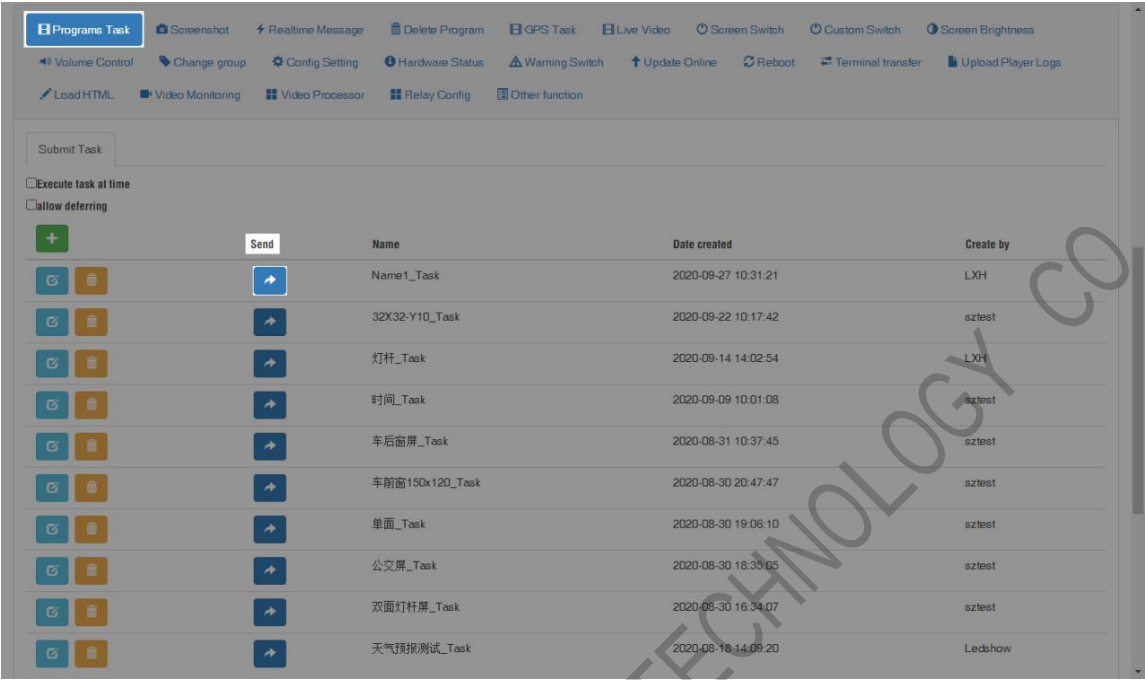
Click “create task quickly” button in the program list interface and will jump to the terminal interface directly.



Select the controller and send program.



In the bottom part of terminal interface, will see program task then choose the program task and click send.



End Page

For more information on the Internet cluster control solution for LED advertising equipment control, as well as related instruction documents, please visit our website: www.ledok.cn for detailed information. If necessary, the online customer service will communicate with you in time. The industry experience will definitely give you a satisfactory answer, Shanghai Xixun sincerely looks forward to the follow-up cooperation with you.

Best regards

SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD

March 2022