LED Internet Control Card

Control Card Type: E10 Android Card

Manual

(Scan "QR Code" of Wechat, Follow it and download APP)

Content

1. Overview

1-1 The Introduction Of User Manual

Thanks for your purchasing our LED Internet control card. Hope you can enjoy its outstanding performs. The design of the LED Internet control card is in accordance with International and industry standards. If the improper operation, it may cause personal injury and property damage. In order to avoid the dangerous, please comply with the relevant instructions in this manual.

1-2 Warranty and Obligation

We offer one year warranty service. During the period, any damage of the control card we will repair it for free or replace the parts. But excluding the following situations:

- Damage is caused by fire, earthquake, lightning and other disasters, or abnormal power supply.
- Damage was due to improper maintenance, debugging and modification.
- Damage was caused by improper used and operation.
- The replacement and repair of the consumables.
- When you need service, please contact us or our agent.

1-3 Product Overview

With the growth of the outdoor digital media market, LED display has its larger proportion on the market with its unique advantages. Many advertisers and media companies are eager to have a perfect outdoor digital LED system solutions. Our E10 not only has 3G, WIFI, but also has GPS that can position terminal orbit position. For advertisement fixed point. What's more, it also support AP function, it provide convenience for LED display access to wisdom city and for the third part access to AP. The stability of WEB cloud platform, to achieve display group control, video monitoring, condition monitoring, report statistics and other powerful features.

1-4 Characteristic

WIFI, 3G, GPS highly integrated; Onboard power supply, temperature and humidity, cabinet, smoke, fan etc. LED advertising machine and Car LED display professional custom; No need to install any software; Cloud platform group control; Android mobile phone APP hook up control card hotspot, stand-alone mode control.

1-5 Outside View Drawing
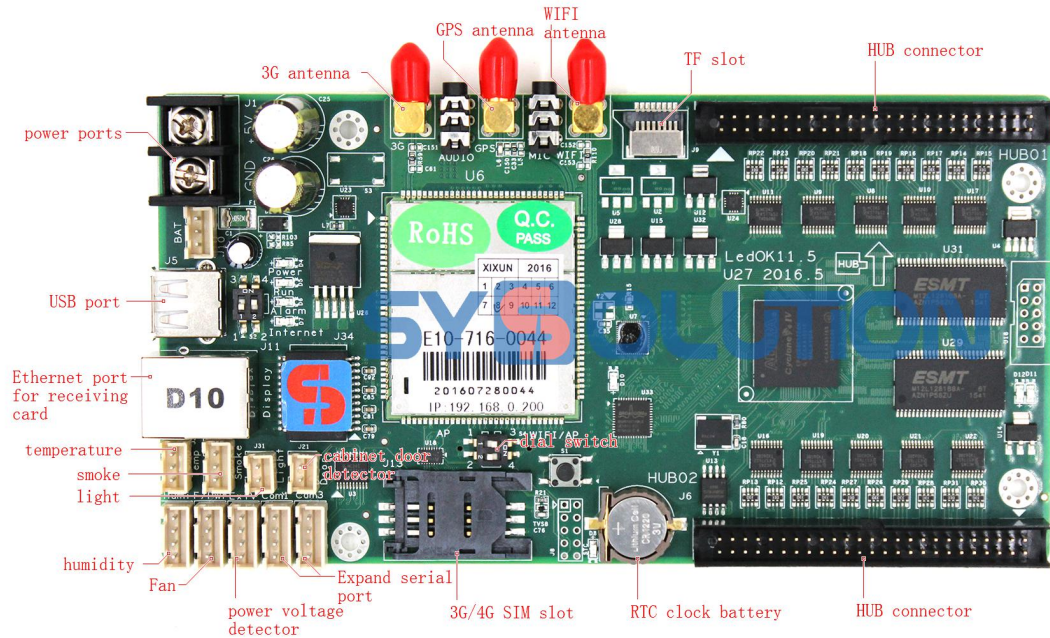
1-6 Functional Characteristic

1) WIFI, 3G, GPS onboard, realized wireless communication;

2) 4GB EMMC storage onboard, 8GB internal memory;

3) Android OS 4.4;

4) Support WIFI/WIFI AP Mode;

5) Access to cloud platform, realize remote release program, remote condition monitoring, remote power management, remote plat log statistics;

6) Support multi screen synchronous play;

7) Support multiple media types, e.g. video, picture, text, weather, clock, count down, real-time message, html code;

8) Support instant notification, timing program task;

9) Timing switch, brightness adjustment;

10) Support terminal group, software and hardware remote upgrade;

11) Can work with 256x256 pixels, after cascading 540x960 pixels;

12) Comprehensive driver IC chip support, support MACROBLOCK, CHIPONE, SUMACRO, MY-SEMI;

13) Support cascading, master card and receive card display effect is completely unified;

14) Support full-color static to 32 scan, support half, one-third, quarter free connection mode;

4

15) Grey level 65536;

16) High refresh and high brightness;

17) Support each cabinet monitor(onboard temperature, humidity, door, smoke, fan, multiplex voltage detection);

18) Support brightness sensing, automatic brightness adjustment;

19) Strong secondary development SDK, protocol transparency, development of simple and efficient;

20) Support TF expand to 32G;

21) Support transient outage protection, guarantee the normal operation of power outage within 6 seconds;

1-7 Parameter Configuration

1) 3G frequency, support 4 frequency GSM/GPRS/EDGE; Working frequency: GSM850, EGSM900, DCS1800 and PCS1900;
   3G support double frequency UTMS/HSPA+; Working frequency: WCDMA BAND1/8(900MHz/2100MHz); Multimode EDGE/GSM/Rel. 8 HSPA+ modem;

2) GPRS/EDGE HSPA+DATA Characteristics;
   HSPA data downlink transmission: maximum 21M bps;
   HSPA data uplink transmission: maximum 5.76M bps;
   EDGE data transmission rate: maximum 236.8kbps;
   GPRS data transmission rate: maximum 85.6kbps;

3) WIFI/WAPI
   Support Soft AP function, Support 802.11 b/g/n;
   Encrypt type: WFA, WPA/WPA2;
   Qos: WFA, WMM, WMM PS;
   The Radio: 11b watts 15dBm, EVM$\leqslant$35%;
        11g watts 13dBm, EVM<-25dB;
        11n watts 13dBm, EVM<-28 dB;

4) GPS/AGPS
   GPS working frequency: 1575.42MHz;
   GPS carrier to noise ratio CN0: 41db/Hz;
   GPS sensitivity: Acquisition sensitivity -148dBm (cold);
          Acquisition sensitivity -156dBm (hot);
   GPS start time: hot start<5s; warm start<15s; cold start<50s;

5) MP4 video format: MPEG-4/H.263, H.264;
   Memory card support Micro-SD card(Maximum 32G);
   Support hot plug in/out;
   MP3 audio format: ARM/MIDI/WAV/MP3/AAC/AAC+

1-8 Optional Accessories

Standard receive card D10-75 or D10 (standard two 50pin output);
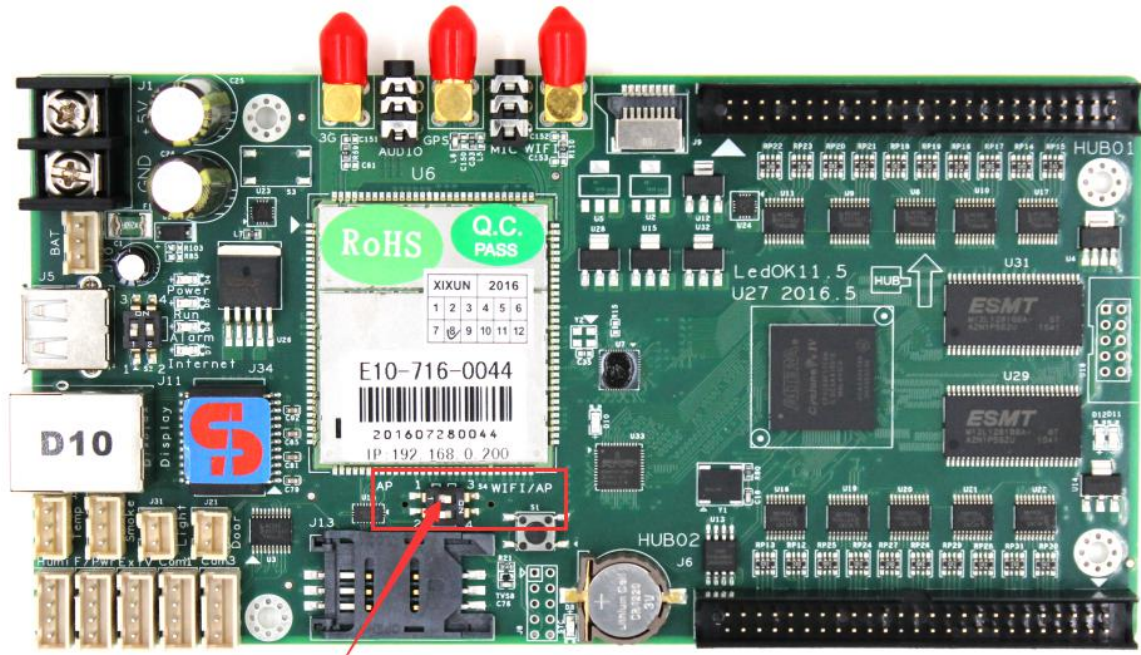Standard R30E brightness, temperature sensor.

Please refer to R30E HUB SENSOR Datasheet for more information.

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2. Usage Introduction

2-1 Factory Display Configuration

WIFI dial switch instruction, as below:

Attention:

Situation A, Set the top dial to number"1" side, it will switch into AP mode, release a WIFI hotspot (WIFI named by control card serial number). Then you can configure display parameter. It is a local area network.

Situation B, Set the top dial to number"3" side, control card will switch into WIFI/WIFI AP mode, set WIFI hotspot name and password so that E10 will get access to Internet. If want to use the E10 as a hotspot, then please set AP SSID and password in LedSet2.0 software.

When plugged the 3G/4G SIM card in, then E10 will get access to Internet through 3G/4G data flow.

As long as the computer and the control card are in the same network, you can setup the control card or do other operations;

2-2 How To Find The Control Card For The First Time

1) Set the control card dial to number"1" side, power on it, wait for one minute, observe "Run" flickering, means the control card gets ready;

2) Use computer to find the WIFI hotspot named by the control card serial number, as below shows:

3) Hook up the WIFI hotspot, input default password 12345678;

4) Open LedSet2.0, you can detect the control card ID and IP address, see picture as below:

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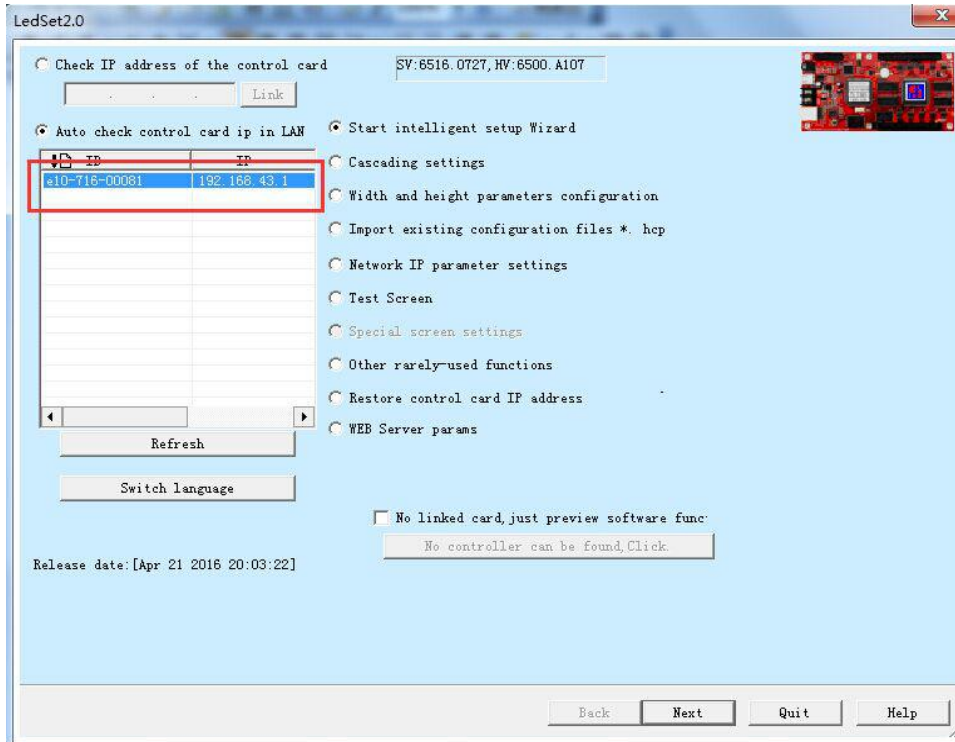
5) Intelligent setup please refer to LedSet2.0 (www.ledok.cn > DOWNLOAD)
6) User can use mobile phone hook up to control card WIFI hotspot, send program via APP.

2-3 The Registration For Controller In Cloud Platform
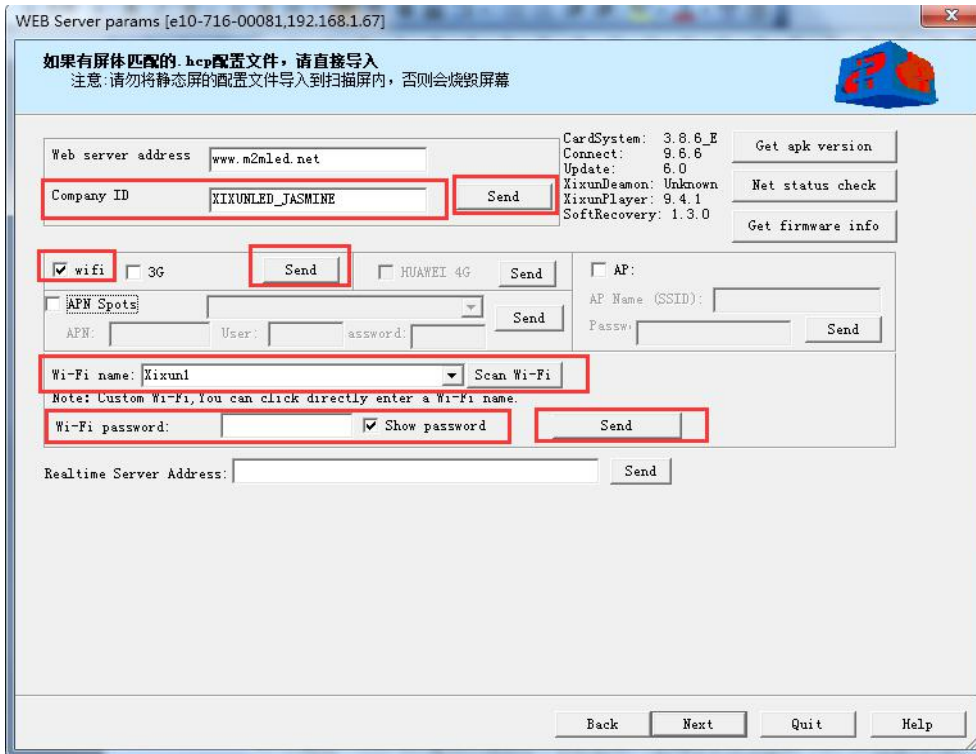
1) Company ID is the one that you got when you register your account in the cloud platform (www.m2mled.net / www.ledaips.com for foreign countries), log in cloud platform and click user to check your company ID, as picture shows below:
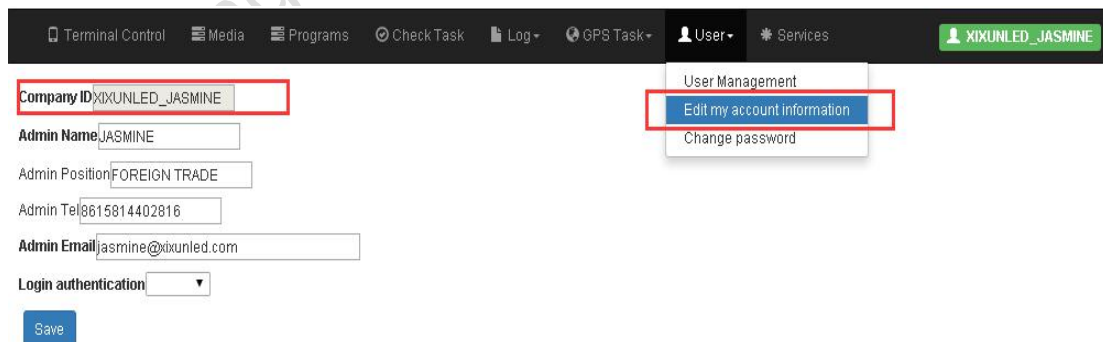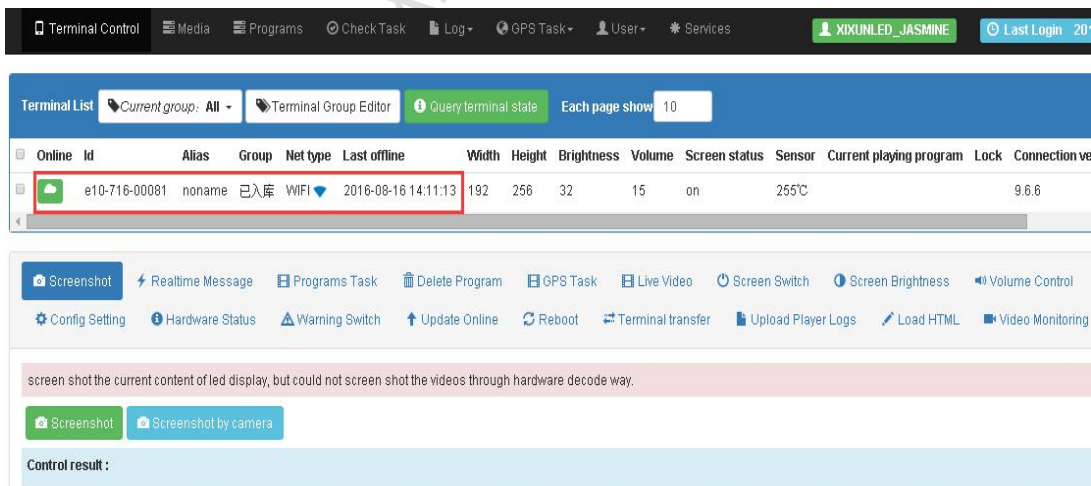
2-4 WIFI Setup

1) Open LedSet2.0>WEB Server params, fill in WEB server address(double right click) and

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company ID, send;

2) Check WIFI, send;

3) Scan WIFI hotspot, type in password, send; Set the WIFI dial switch to number"3" side, hook up WIFI to access Internet;

4) After about one minute, terminal will come online on cloud platform (When E10 come online, "Internet" will flashing);

5) Log in cloud platform management interface, you will see control card online;

2-5 3G Setup

1) Insert 3G SIM card in, fill in WEB server address (double right click can amend) and company ID, send;

2) Check 3G, send;

3) Check APN spots, select SIM card operator, send;

4) After about one minute, terminal will come online on cloud platform (When E10 come online, "Internet" will flashing);

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3. AIPS Platform Usage Instruction

Quick edit program and send to control card

1) Open WEB browser (recommend Google), log in www.m2mled.net;
2) Type in your account and password;
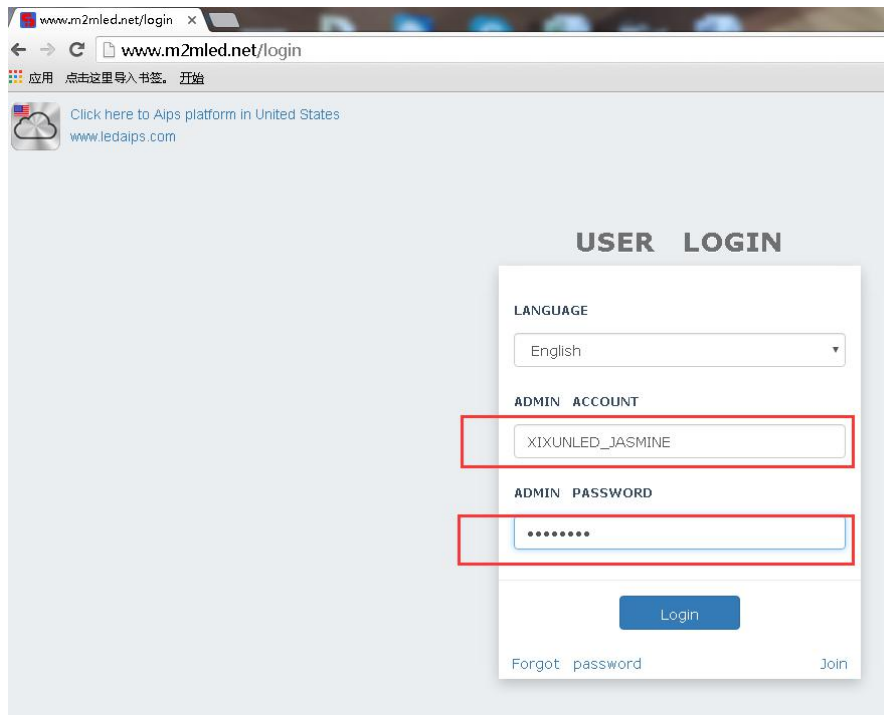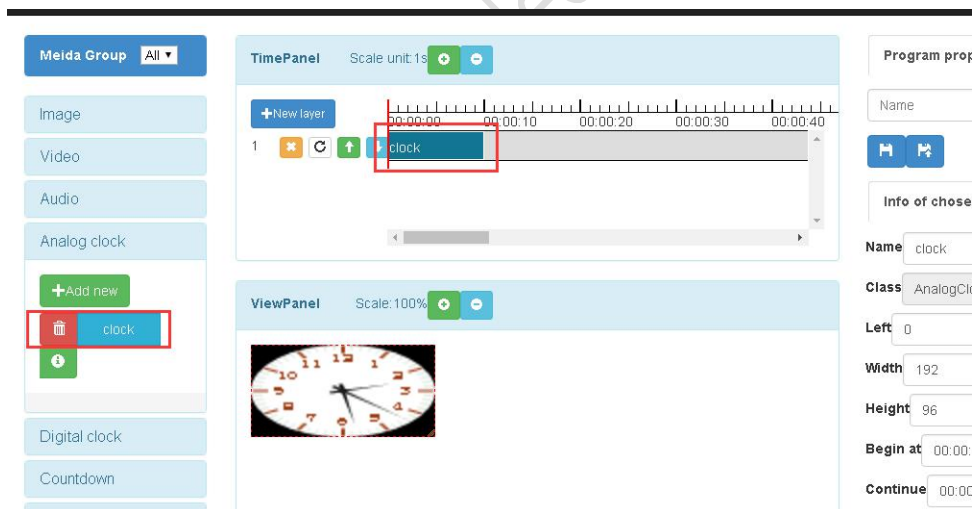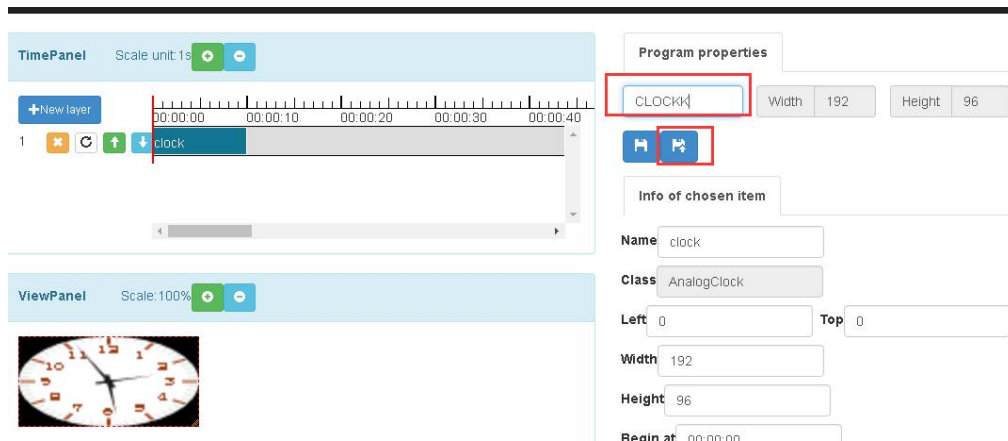

3) Turn into Programs, add advanced program;

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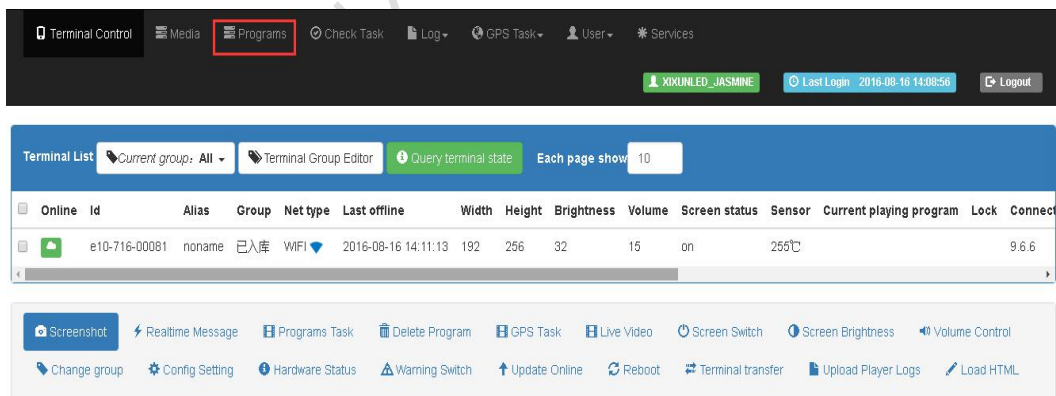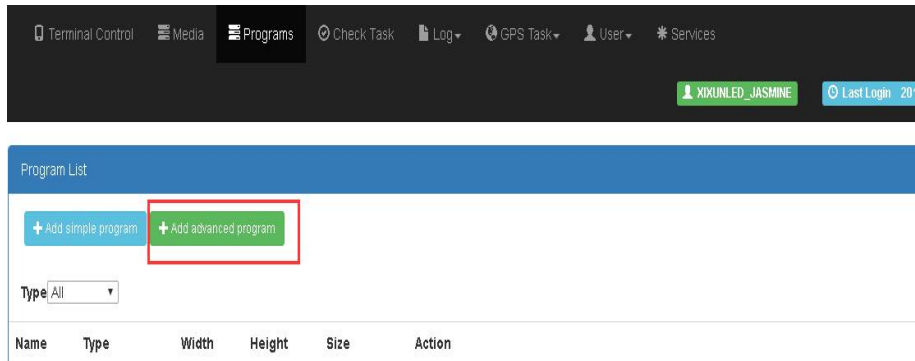
4) Input width and height of your display;

5) Enter programming interface, click material button of left side, drag the material into the timer shaft;

6) Named it and save it:

13

7) Create Task quickly, it will switch to Terminal Control, select the control card and program, send;

8) Go to check Task, check auto refresh, viewing the progress of the program;

Tips: After everything gets ready, please go to Terminal Control>Config Setting>Backup. Backup the params!!!!

Detail WEB operation please refer to <AIPS INFORMATION DELIVERY SYSTEM MANUAL> (www.ledok.cn/en DOWNLOAD)

4. FAQ

4-1 U-DISK Upgrade Program Failed

Login Platform>MEDIA, download the program to your computer(default password 888). Copy "program(15)".zip to U-DISK, then delete"(15)", unless U-DISK upgrade failed, control card only read "program".zip;

4-2 Dial Is On Number"1" Side, Computer Cannot Find WIFI Hotspot Named By Control Card Serial Number

Due to disconnect to hotspot for a long time, control card starts Energy-saving mode to shut off hotspot. Reboot the power or reset the dial to solve it.

4-3 E10 Module Parameter Setup Without Receive Card, Module Display Exception

Run LedSet2.0, go to cascading setting.

4-4 How To Transfer Control Card To US Server For Foreign User

After using China server to send program, log in platform in United State (www.ledaips.com). Re-registered company ID and management account. Log in China server, check the online control card which is needed to be transferred. Go to Terminal Control>Config Setting>Advanced, fill in Server address(www.ledaips.com) and Company ID(the one you got when you registered in US server), submit.