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## Update Record

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<td>The first version</td>
</tr>
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Statement

Dear customers, thanks for choosing Shanghai XIXUN SYSOLUTION LED control system for your devices, this document will help you learn to how to use control cards. Please call 400-608-6499 or send email to service@xixunled.com if meet any problems or have any suggestions, we will feedback you timely.

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Brand

is the registered trademark of Shanghai XiXun SYSOLUTION LED.
Security Statements

To avoid possible risk, please operate this device as instructed, please contact our technical support and leave the maintenance work to expert if the device is breakdown.

<table>
<thead>
<tr>
<th></th>
<th>Danger-High voltage: Working voltage for this device is 4.8~5.5V DC</th>
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<tbody>
<tr>
<td></td>
<td>Ground connection: This device need to connect to ground by power cable, please make sure the ground connection is good.</td>
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<tr>
<td></td>
<td>EMI: Magnet, motor and transformer.</td>
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<tr>
<td></td>
<td>Damp proof: Please put this device in dry and clean environment and disconnect the power connection immediately if this device get liquid on it.</td>
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<tr>
<td></td>
<td>Please put this device away from the inflammable and explosive dangerous goods</td>
</tr>
<tr>
<td></td>
<td>Avoid liquid, metal chip invading into the inner of this device, or it may cause accident.</td>
</tr>
</tbody>
</table>

Please install socket near the device and easy to reach.
The Application of Personnel

This document introduces the use and setup steps of Android controller Y10, provides guidance to users and technical personnel who use Y10 for the first time.

Operational Flowchart
1.1 Introduction to Y10

Y10 control system has been very popular for its powerful and unique performance since its release.

This chapter mainly introduces the Y10 control card hardware, as well as the connection with adapter board, module, screen and computer.

If the control card has been connected to the screen, you can refer to Section 4 of this chapter directly.
Android Controller Y10

Control Card

Y10 Control System Industrial Application Solution
1.2 Diagram of Y10 Control Card Interface

Y10 is featured with powerful functions. And pixels it can support are much bigger than other conventional asynchronous control card.

It also has many functional interfaces, please see the diagram below to get a clear understanding (Unlabeled area is blurred out).

![Diagram of Y10 Control Card Interface](image)

Interface specifications are as follows:

- **Power interface**: all the Xixun control cards use standard 5V DC input power supply, please pay attention to the positive and negative electrode when connecting power supply;

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Android Controller Y10

- **Computer network port connection**: Y10 control card has two network ports. The computer network port (marked with a computer logo) is close to the power interface, please pay attention;

- **Receiving card interface**: Y10 control card has two network ports, and the receiving card interface (marked with D10) is away from the power supply interface, please pay attention;

- **20PIN sensor interface**: It is used for connecting Xixun sensor board to realize the detection of temperature, humidity;

- **SIM slot**: It is used to insert the 3G phone card for Y10 remote control;

- **HDMI output**: it is used for the HDMI signal output, especially for testing or other special occasions;

- **Smoke sensor interface**: it is used for connecting smoke sensors to monitor the smoke in the box;

- **Humidity sensor interface**: it is used for connecting the humidity sensor to monitor the humidity around.

- **Opening and closing induction sensor interface**: it is used for connecting open and close induction sensor to monitor switch state of the screen box;

- **Power monitoring interface**: it is used for connecting the power supply or monitor the state of the relevant power supply;

- **Fan interface**: it is used for connecting the cooling fan;

- **50PIN adapter board interface (two)**: Standard 50PIN interface for connecting to the adapter of general model;

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● **USB interface**: it is used for connecting the U disk device to update the program, read back / input control card parameters, etc.;

● **SD slot**: it is used for connecting SD memory card to expand Y10 storage capacity;

● **WIFI antenna interface**: it is used for connecting Xixun signal antenna, thereby ensuring the normal use of WIFI function (if use WIFI, the signal antenna must be connected);

● **GPS antenna interface**: it is used for connecting the special GPS antenna, so as to ensure the normal use of GPS function (if use GPS function, GPS antenna must be connected);

● **3G antenna interface**: it is used for connecting Xixun special signal antenna, so as to ensure normal use of 3G function (if use 3G function, the signal antenna must be connected);

● **USB debugging interface**: it is used for connecting USB debugging line, especially for secondary development;

● **TEST button**: it is used to test whether the control card matches the LED screen and resume the control card to default setting.

● **NET indicator**: it is used to display the communication status as control card is connected to the computer network. Communication, uniform flashing indicates that the communication is normal;

● **RUN indicator**: it is used to display the operation status of the control card, uniform flashing indicates that the control card works normally;
Android Controller Y10

- **POWER indicator**: it is used to display the power supply state of the control card, if the indicator light is always bright, it indicates that the power supply is normal;

- **ALARM indicator**: it is used to display the operation status of the control card, the indicator light is off if operating status is good, otherwise, the indicator light will flicker or keeps bright;

- **Internet indicator**: it is used to display the network status of control card though the 3G/WIFI/ cable, if normal, the indicator light keeps uniform flashing.

- **Button battery**: it is power supply for clock chip of the control card, if the control card time displays abnormal, please check button battery voltage is normal or not (normal voltage should be 3.3V).
1.3 Control Card Connection

Y10 control card belongs to the LED asynchronous control system, and it needs to connect to LED display to realize normal process. Related devices are as follows:

- Y10 control card
- LED module
- Hub/Adapter
- Wires of different length
- D10 receiving card
- Cable of different length
1.4 Correct Connection of the Hub

Y10 control card connects to the LED screen through the hub, and the type of hub is determined by the LED module. You need to consult the module supplier about the type of hub that matches. If you are not sure whether the hub matches the corresponding module, please refer to the tag marked on the back of the module:

Tag 1: The type of hub on the back of the module

Tag 2: Interface definition of the data module.

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If it is consistent with the interface definition of the hub board, the application is correct.

If the type of hub plate is defined, next step is to connect hub plate to the interface of Y10 50PIN hub. Please note that each pin buckles correspondingly, and the direction of hub plate gap is toward outside of the control card.
1. Each pin buckles correspondingly
2. The gap of Hub is toward outside of the control card

1. Each pin buckles non-correctly
2. The gap of Hub is toward the wrong side of the control card
1.5 Correct Connection Method of Winding Displacement

After the Hub is properly connected, it is necessary to connect the control card with the module through the Hub. In most cases, there is a bayonet at the interface of the Hub and a module which can prevent the cable from being inversely connected (shown in the picture below).
Or keeping red thread of flat cable on top (shown in the picture below).

In general, an interface on the Hub board corresponds to a row of modules of the control card, for example, the first interface corresponds to the first row of module, and the second interface corresponds to the second row of module, and so on.
*Note: The put of modules according to the direction of arrow.
1.6 Connecting Method of Y10 Control Card and Receiving Card

The pixel of single Y10 control card is 320x192. If pixels of your entire screen exceed this range, or the LED device is rental cabinet, you need to choose Y10 control card (Sending Card) together with the receiving Card to support the entire screen.

If the LED screen is a rental cabinet, the number of receiving Cards will be one less than the number of total boxes (Because Y10 card can also support one cabinet);

If the LED screen is a special cabinet or of other type, please refer to the following web page to calculate the number of receiving Cards:

http://sysolution.net/getcardssolution/GetCardsSolution.html

Y10 control card connects the receiving Cards though cables. It is the same for the connection between receiving Cards.

The receiving Card needs to be connected to the network port marked with D10. Y10 control card is in series with all receiving Cards. Please pay attention to the connection order. You can simply mark it for later setting, such as: Mark Y10 control card as one, mark the first receiving Card which is connected with Y10 card as two, and so on.

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1.7 Selection and Connection of Power Supply

Selection and Connection of Power Supply

Xixun Y10 control card only adopts 5V DC power supply, please make sure the correct power supply output before process, or the control card can’t work properly or even cause overload damage.

It is also important to make clear about positive and negative electrode of power and Y10 control card when connecting the power supply. The interface marked with +5V should be connected to positive electrode of power, and interface marked with GND should be connected to negative electrode of power, just as shown below:

![Diagram showing positive and negative electrode connections](image-url)
Then turn on the power, the control card starts to run automatically as it finishes examination. If it works normally the light marked with RUN will flicker constantly and the light marked with Alarm will be off.
1.8 Connection between Control Card and Computer

This section mainly introduces the connecting method between the control card and computer.

If set the parameters of Y10 control card, first you need to connect it to your computer through cable, then use Xixun supporting software "Detector" or "WebLedSet" to do the settings.
1.9 Network Port Selection and Network Settings

Two communication modes between Y10 control card and computer are as follows:

1. Internet communication: to send program and instructions online to Y10 control card through AIPS platform. For more information about how to make Y10 control card connect to Internet please visit http://www.ledaips.com/learn/

2. The LAN communication connected direct with the computer network: you can use the Detector software to adjust the relevant parameters of the control card.

3. This section focuses on illustrating how to achieve such communication.

From the picture of Y10 control card, we can see that there are two internet ports. Please pay attention that one end of the cable needs to connect with the internet port marked with computer (near power), and the other end needs to connect to your computer.

Then turn on the power of the control card, then open the Detector software on your computer if control card runs normally (Please visit http://www.ledok.cn/download.html to download).
2.1 Software Instruction and Operation Procedure

**Purpose:** Configure LED control card to create the hcp4 file and .cas file, make LED display show correct slash lines and complete S logo, which means the settings are all correct.

**Section 1 Software Instruction and Operation Procedure**

**LedSet Software:**

**Software1:** Detector (only work with LED android series controller), find your card automatically, download link for Software:

http://www.sysolution.net/download.html

**Software2:** WebLedSet(set on web page): Open web page (Google chrome recommended) and input “**card IP address:3000**” at the address bar to enter the configuration interface.

For example: 192.169.1.101:3000, Here the card IP address “192.169.1.101” is changeable, it should be your LED control card IP address.

For example, in the following screen shot, we input “192.168.8.175:3000” to enter the WebSet interface.

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Steps of configuring LED display module:

Step1. System Version Management (Synchronizing all hardware versions)

Step2. LED Screen Smart Setup Wizard (Smart Setup Wizard--Cascading Settings--Effect of Micro Adjustment)

Step3. System Common Parameters Settings including web server parameters.

Steps of Configuring network parameters before publishing programs:


Step2. System Network Server Configuration (Configure web server address, www.sysolution.net)
company ID and internet type WIFI or 3G)

Step3. Log in AIPS platform and publish programs.
2.2 LED Screen Smart Setup Wizard

LED Screen Smart Setup Wizard

Now we use just two pieces of LED modules to do smart setup, one LED module width and height pixels are 64 and 32 respectively, one small LED display width and height pixels are 64 by 64.

Data in number :1

RGB group of one data in: 2

Decode type: scanning 138 (default choice), unless different type of LED module.

Driver IC : no-5041 (default choice), unless the driver IC special.
(customer should know LED module very much so that could check those above information from the back side of LED module.)

**Step1:** Run Detector software (if not windows system computer, then write down 192.168.43.1:3000 in web page, while 192.168.43.1 is the LED card IP address it is changeable, if control card IP address is 192.168.8.175 for example, then write down 192.168.8.175:30000), after this, enter the software interface and select the card ID to continue:

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Default IP address of E series LED card: 192.168.43.1

Default IP address of Y series LED card: 192.168.0.200;

Step2: Select “LED screen smart setup wizard” and enter into the LED module parameters interface, see picture in below:
Step3: When enter smart setup, a tip message will show up “click ‘yes’ to set the module, click ‘skip’ to cascading settings”. Normally need to do smart setup for all brand new controllers. So choose ‘Yes’ and continue, see screen shots in below: (If LED sign already display correct images or videos means the controller has been setup already, so no need do settings again).
Step4: If choose yes then enter next interface, need to write down exactly correct parameters for one LED module.

For example, Module width : 64

Module height: 32

Input flat cable number: 1

RGB group: 2

Decoding type: 138 Decoding

All those information should be known before doing this, if do not know then need to consult the LED module suppliers in advance.

After done here, please click Next Step.
Step5: Need to choose status one, watch the module status, choose status two, watch module status, find out which status is on, which status is off. After done, click Next Step:

Step6: Need to choose status one, watch the module status, choose status two, watch module status, find out which status is bright, which status is dark. After done, click Next step:
Step 7: Need to choose colors, color1, color2, color3, and color4. After done, click Next step:

Step 8: Watch LED module and find out how many bright lines within one LED module, also need to figure out how many lines between the bright lines.

If only one bright line in one module, then choose 0 or only one bright line.

If whole LED module all bright, then also choose 0 or only one bright line.

After done, click Next step.
For example, this means there is one bright line.

So choose interval line is 0 or only one bright line.
Step9: Normally will see two bright pixels, find out which row it is. Click the correct position in the software.

For example, now there are two bright pixels in the top row, so start clicking in the row1 in the software.

Then the two pixels will move, just following the bright pixels movements and click the correct position in the software.
After done, remind message will pop up and ask you go to next step, see screen shot in the below:
**Step 10:** Normally will see one flashing pixels in the module, also need to find its position, in which row and which column and then click in the software correctly, When click the first pixels correctly in the software, the second pixels will show up immediately, need to click in the software for the second pixels either, then third,........

Just need to watch the pixels movements in the module and click in the software correctly.
# Android Controller Y10

Intelligent setting Step seven: Walking point rule

Current control card: Y10-715-00507

- Observe the screen, select the serial number of the screen highlights

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4 |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
After done, the module will show bright lines

Meanwhile, the tip message will pop up to ask you go to next step after confirmation,

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Step 11: After done success for last step, at this step, will see correct and complete slash lines come out from top right to the bottom left, if the slash lines not correct then need double check above steps again.
After clicking, go to next step:Cascading Settings
2.3 Cascading Settings

Cascading Settings for Single Receiving Cards

Normally need to do cascading settings after finishing intelligent setup. Click Yes to set the cascading.

Will see following interface after entering cascading settings

Please write down LED module width and height pixels and cabinet width and height pixels correctly.

For example, one LED module is 64 x 32

LED sign width and height is 64x62

Vertical card number is 1

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Horizontal card number is 1

After set the card numbers, will do the cascading. Look at the LED sign in the front and find the sending card cabinet, click in the software. Then sending card 1, 2, 3, 4, ......

If the sending card does not connect with LED sign, then need to select “master card without screen” option and then do cascading correctly.
After done here, click set and watch the sign to judge if the S logo show correctly, if yes, click save. If S logo show broken or black screen, need to reset it.
Good job!
Cascading parameters save successfully!!

After done here, click next step, see picture in below:

Current control card: 10-715-00397

- Module width(px): 64  □ Custom
- Module height(px): 32  □ Custom
- Receiving card width(px): 64
- Receiving card height(px): 64

⚠️ The order of operation is 'first set block - and then set cascade'!

- Block Param □  □ Clear off

- Cascade Settings
  - Master card without screen
  - Vertical card number: 1
  - Horizontal card number: 1
  - □ Backspace
  - □ Empty
  - □ Set
  - □ Save

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Cascading Settings for Multiple Receiving Cards

One sending card and multiple receiving cards connection diagram, see picture in below:

Check how receiving cards connect with LED modules

For instance: one LED module width and height pixels 32x16

There are totally 96 pcs of LED modules.

The LED sign width and height pixels 256x192

Use one sending card and 3 pcs of receiving cards, each card supports 128x96 pixels.

See LED cards connection diagram in below:

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Write down the cascading setting parameters according to the module information and receiving cards numbers, see picture in below:
Click the empty blocks according to the receiving cards connection orders, if click wrong, please click backspace and redo it. See picture in below:

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Press Set button after confirmation, then watch the screen image correct or not, if correct, click save button and yes, then cascading setting parameters will be stored in controller automatically. See picture in below:

Please look at the screen in below:

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<td>12-5</td>
</tr>
</tbody>
</table>

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2.4 Effect of Micro Adjustment

There is an optional function, if LED screen display all good without any problem, then can omit this step. But if LED screen display with some lines or irregular pixels, please try these micro adjustment.

1. Scan clock: range 25MHz-2.0MHz, default is 12.5MHz, higher scan clock means higher refresh rate;

2. Effect adjust: range 0-41. When there some shadow pixels or irregular/flashing lines in the screen, please adjust the effect number, higher numbers means lower refresh rate;

3. Refresh rate and brightness selection: can leave with default one; there are three choices including high light lower refresh, middle light middle refresh, low light high refresh;

4. Gray level: 65536 is default one;

5. 16/2: select different types according to the HUB type; need some professional knowledge of hub;

6. Lock phase: there are 5 levels for different types of LED module.

7. When LED screen display irregular pixels or broken image, could try this function;

8. Blanking: 400 is default;

9. Phase: 2 is default.

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Note: no need to change or adjust for default parameters.

See screen shot of software interface:

Need to click SAVE button after adjusting all parameters and download and save the backup file in the computer. The backup file name is *.FPGA.click Next step to finished. See picture in below:
# Android Controller Y10

## Effect of micro adjustment

Current control card: y10-715-00597

Scan clock: 12.5MHz

Effect adjust (0% - 40%)

refresh rate and brightness selection: High, light, low refresh

Gray 55556

16/20 Normal 16

Lock phase 7

Blanking 400

Phase 2

Hardware 16/32gb

---

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2.5 System Common Parameters
Settings

Please select “System Common Parameters Settings” in the main menu and enter the following interface:

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1. Control card language: Chinese or English; control card time zone: choose your local time zone;

2. Width and height pixels for the whole LED sign; press save;

3. Volume settings: range 0-15. Input the volume number you need or use the add/reduce button (add 4, reduce 1);

4. Brightness settings:

   Manual brightness: maximum brightness value is 64. Can input the number directly or use the add/reduce button (add 4, reduce 1);

   Automatic brightness: sensor sensitivity, range 0-100; higher sensor sensitivity then higher degree of accuracy (add 5 reduce 1).

NOTE: all numbers could not exceed the range, or will invalid.

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2.6 System Network Server Configuration

Select "System Network Server Configuration" and enter the following interface:
1. Write down the web server address and company id, press SAVE button.

Normally use www.ledaips.com:888 for foreign customers. Customers should use the same company ID that registered in the AIPS platform. Pay attention to the letter case.

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2. Network status detection, press this button and detect the current network connection status and signal strength. See picture in below:
How to Set WiFi Parameters:

WiFi settings: enable WiFi switch and click scanning WiFi, select the WiFi name and write down the WiFi password. Click SAVE.
After set the WiFi parameters, unplug Ethernet cable from controller (Y series controller) and wait for about 5 minutes, controller will come online. Please watch the “Internet” light, if it flashing regularly means online success, go to AIPS platform and check it.

NOTES:

1. If could not scanning the WiFi, please try to on/off WiFi switch.

2. If controller can’t get access to internet through WiFi, please double check:
   A. Ethernet cable has unplugged,
   B. WiFi antenna plug correctly.
   C. WiFi password is correct or not.

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D. If the Wireless router being accessed too many terminals?

E. Try another WiFi hotspot.

**How to Set 3G Parameters:**

1. Choose correct country code, 460 is Chinese code for example (If do not know your country code, please click Network status detection button and check IMSI number, the first 3 numbers are the country code).

![State detection](image-url)

**3G**

State: Ready state

**IMSI:** 460016701508913

Country code: cnPhone number: +8618516707467
User: CHN-UNICOM
Service status: Normal signal
Network type: UMTS network
Roaming: Not roaming
DataActivity: Data connection status: activities, but no data to send and receive
DataState: break off
SignalStrength: 19

Close
2. APN access point: China Unicom for instance. If do not know the APN, please consult your local SIM card provider;

3. After choose correct APN access point, the APN will show up automatically, if has user and password, please write down and press SAVE. If no user and password, leave it empty.

4. After save 3G parameters, unplug the Ethernet cable, waiting for about 5 minutes, please check if card online in AIPS platform.

   “Internet” light will flashing fast for dialing up then flashing regularly means get online success.

NOTES: If controller can’t get online success, please checking following things:

A. Ethernet cable unplugged?

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B. 3G antenna has plugged correctly?

C. APN is correct or not?

D. SIM card has activate? SIM card has enough money and 3G data service?

E. Check 3G signal at least 13 and above? Click Network status detection to check 3G signal.

How to Set Network Parameters:

1. select network IP parameter settings: one is automatically acquisition IP, second is fixed IP address. (Just need to follow your router settings to choose

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the IP type. Normally the router will be set as automatically type. If customer does not familiar with IP settings, please consult network engineer. Another way is verify by connecting the router with laptop through Ethernet cable directly, then change the Computer LAN IP into automatically acquisition, if the laptop can get access to internet means the router has been set in automatically way. If not, means the fixed IP address.)

Press SAVE button after setting the IP, see picture in below:

<table>
<thead>
<tr>
<th>Network Ip parameter settings:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Network Ip parameter settings" /></td>
</tr>
</tbody>
</table>

2. Connecting controller with workable router through Ethernet cable and waiting for controller get online, normally will wait 3-5 minutes.

Also log in AIPS platform to check controller status.

Notes: priority of getting access to internet : Cable is first, then WiFi and last is 3G.

So if choose WiFi or 3G then should unplugged Ethernet cable after set automatically acquisition IP address.

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Internet light position in controller:

Here is the log in interface of AIPS platform

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Please refer to Chapter 3 of “How to Send Program in AIPS Platform”
2.7 FAQ and Solutions

1. Can’t detect Y10 controller through software?
   
   Answer: Please make sure Y10 is connected to your computer and check whether the controller is stay in the same network segment as the computer; Please open LedSet 2.0 software and click “No controller can be found, click” button if you do not know who to change the network segment of your computer.

2. Area of the LED sign which is connected to D10 show nothing on it?

   Answer: Please go to “system version management” and click “synchronization Hardware Version” to make the firmware version of D10 match with it of Y10, after the synchronization, screen will show message properly. P.S. It may take some time if you have several D10 connected.

3. Can not set the controller by “LED screen smart setup wizard” ?

   Answer: ①Please check the drive IC and Decoding chip of the module and contact us to get upgrade firmware if the chips are special. ②You can not set the controller if it is under upgrade or synchronization. Please check the “Alarm” indicator on controller, it means the controller is be upgraded or synchronized if this indicator is flashing very fast, please wait patiently till upgrade or synchronization is finish.

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4. **“RUN” indicator on the controller is off and LED screen show nothing?**

   Answer: Please check the power input of the controller with multimeter, controller need 5V DV to work normally.

5. **Screen show nothing or several blue squares on it?**

   Answer: ① Please check the connection between Y10 and D10s; ② Please refer to the second answer of question 3.

6. **Get nothing after scanning WIFI?**

   Answer: Firstly please make sure you have the WIFI signal nearby. Then ① Please switch off and on the WIFI of controller and scan again. ② Please reboot the controller and scan again.

7. **Controller do not come online via WIFI?**

   Answer: ① Please make sure the network cable is off from the controller; ② Please check the antenna is connected to the WIFI port of the controller nice and well; ③ Please double check the password of WIFI you entered is correct; ④ Please check whether the quantity of devices you connect to your WIFI router has reached to the limit; ⑤ Connect the controller to another WIFI router to check.
8. **Controller do not come online via 3G?**

   Answer: ① Please make sure the network cable is off from the controller; ② Please check the antenna is connected to the 3G port of the controller nice and well; ③ Please check the APN you filled in the 3G setting is correct (You can get the correct APN from your SIM card carrier); ④ Please make sure the SIM card you use is activated and workable; ⑤ Please check the 3G signal. You can check it by clicking “Network status detection” in “system network server configuration”.

9. **Controller do not come online via Ethernet cable?**

   Answer: Please check with your network administrator about the router setting, it can not work if you set the MAC address bond to fixed IP.

   If you have other problems or concerns about our controller, please contact us by visiting: [www.sysolution.net](http://www.sysolution.net), thank you.
2.8 Method of Existed Parameters

Method 1: Copy the parameters to other LED controllers

Copy the correct parameters (including intelligent setup, cascading settings, effect parameters, data numbers, screen width and height pixels) to other LED controllers through software. This method could also be applied to multiple LED controllers within the same local network area.

Example:

Y10-715-00507 control card has been setup correctly. Now let’s copy the correct parameters from this card to other two cards Y10-116-01575 and Y10-116-01578, here are steps:

Step 1. Plugging all LED controllers in the same local network area, select the card Y10-715-00507 that has been already setup, click “ParameterSetting”, following is the screen shot:

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Android Controller Y10

Step 2. Select “Copy LED Screen and System Parameters to Others”, following is the screen shot:

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Step3. Then go to control cards interface and choose the other two cards or more cards those need to be setup, click the arrow and into copy function and result interface, here is the following screen shot:

Method2: Import and export LED display configuration parameters

Import configuration parameters:
With correct FPGA parameters, select “LED Screen Configuration Import and Export” option, here is the screen shot:

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Upload the FPGA parameters and select the file, here is the screen shot:

There will be a tip message pop up to showing the result, Good Job means the parameters have successfully imported to other cards. Here is the screen shot:

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Readback parameters:

Select “Download The Hardware Parameters” and then could readback the correct parameters from the LED control card, here is the screen shot:
NOTE: FPGA file including the intelligent setup file, cascading settings file and effect parameters.

Please refer to Section4: 2.11 Import and Export Backup File Through USB.
2.9 Transfer Controller from China AIPS to Foreign AIPS

China AIPS address: www.m2mled.net

Foreign AIPS address: www.ledaips.com:8888

Method 1:

Select “system network server parameter configuration” and then write down the foreign AIPS address, company ID, press save.

See picture in below:

Method 2:

If controller has already registered in China AIPS and get online. Then go to config setting-->advanced -->write down foreign AIPS address and the company ID, click Submit.

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Then controller will be transferred to the foreign AIPS platform. But need to register the company id in advance. The controller also need to be online then could transfer.
2.10 Hardware and Software
Upgrade and Update online for Controller

Synchronizing Hardware Version

Select system version management and enter
Should synchronization hardware version for all receiving cards before configuration; if change new receiving card also need synchronization hardware version for it.
When pressing this button, a tip message will pop up: synchronous hardware version successful means the command has sent, now need the receiving cards to upgrading one by one.
Please do not turn power off for all controllers or do other operations, can watch the ALARM light in sending card, if ALARM light quick flashing means upgrading, also can click hardware version query to check the result.
Android Controller Y10

Upgrade hardware version for controllers

Click “upgrade hardware version” and select the correct upgrade file from computer, normally the file format is rpd. File name with “m” is for sending card, “s” for receiving card.

When upload process show 100% means upload success to the controller, then controller will auto upgrade, each controller may take 1.5 minutes. Can also watch the ALARM light status in the sending card, if quick flashing means still upgrading, when ALARM light off, means done.

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After that, click hardware version query to check result.

Software Upgrade for Controllers

All of software versions can be upgrade for controllers, if customized own software, need compress with password 888.

1) xixun software upgrade

**Method 1: Online Update**

Log in AIPS platform, select the terminal, click UPDATE ONLINE,

Click the new version and Send to upgrading

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Android Controller Y10

Can see upgrading process and status, after success, means upgrade has done

Click query terminal state to get all software versions for controllers ;

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Method 2 : Offline Update

Log in AIPS platform, go to UPDATE ONLINE, click the download icon to downloading the new version file to computer.

Then go to web ledset, detect the controller IP, go to system version management and choose software upgrade, select the new version file, it is a zip file, no need unzip.
Upload 1005 and wait another one minute and then a upgrade success tip message will pop up;

NOTE: even saying upload file success, need wait another 1-2 minutes for software installation.

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2) Third Party Software Upgrade

Customized own APK software, compress into zip file with password 88888888

Click third party APK application and then click upgrade software version, then select the zip/rar file.

Please wait another 1 -2 minute after uploading 100%, when upgrade success, even

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show success, need waiting for software installation, this will take 1-2 minutes.

Refresh this interface and click drop down box besides software uninstall button will see all apk applications in controller, see picture in below;
Software uninstall

Click drop down box and choose the apk application that need to be uninstalled, then click “Software Uninstall” button, see picture in below:

After done this, the uninstall result will pop up.
Android Controller Y10

Current control card y10-715-00507

- Upgrade software version
- Upload the hardware version of the file
- Upgrade hardware version
- Hardware Versions Query
- Software Uninstall

Good Job
Unloading success
2.11 Import and Export Backup File Through USB

When want to backup the configuration files from the Led controller that has been configured success, plugging an empty or format USB in controller, after wait for one minute, please unplug the USB from the controller. Backup file including hcp4 file, .cas file, effect values, hardware version, width and height pixels.

If want to copy this backup file to other brand new controller, please plug the USB in other controllers and wait for one minute about, then will be success.

Export backup file through USB

**Step1**, prepare an empty USB, plug it in computer, format USB.
Step2, plug USB off from computer and then plug it in working controller’s USB port, wait for one minute, it will copy the configuration files from controller automatically.

After that, please re-plug it in computer again and open the USB, will find the “xixun_config.zip” file, which means backup success.
Import the Backup File into Controller Through USB

**Step1,** plug the USB that contain “xixun_config.zip” file in the brand new controller’s USB port and wait for 2 minutes, the new controller will auto accept the backup file:
NOTE: no other files in the USB and do not unzip the xixun_config.zip

Step 2, after 2 minutes, unplug the USB from the controller. Controller will auto take the backup file and restore to normal working state.

After done, the led screen will work normally with the controller.
3.1 Introduction to AIPS Program

Release Cloud Platform

As the first solution for led display industry, Xixun AIPS program release cloud platform can be used in various systems timely, with powerful features but easy steps, customers will take over it quickly. Please follow the instructions to use our AIPS platform correctly.

For the terminal that access in the AIPS for the first time, please follow the steps:

1. Modify the terminal surname,
2. Backup for the terminal,
3. Set the timezone,
4. Simple program made and send.

For details, please refer to section 3, 4, 5 and 6.
3.2 AIPS Cloud Platform Account and Log in

Based on web page program software, can run AIPS platform in any devices including laptop, smart phone, pad and so on. Please use Google Chrome as recommended to remote control the LED displays.

- www.m2mled.net
- www.ledaips.com:8888

(please use the same AIPS platform address that set in controller)

After open the correct AIPS platform, please write down the administrator ID and password. Click Log in and then enter the interface.
If has not register in AIPS platform, please click register and write down details then will get the verify email, go to administrator email box, please click the link to finish the verification.
1. Click “Join” button

2. Fill in details

3. Get the verify email, click the link to confirm

4. Join done
3.3 AIPS Cloud Platform Overview

AIPS platform integrates various features, following picture shows the main functions of it:

There are functions label menu and operations menu totally, when click different label will have different operation menu. When under “terminal” label, will show all terminals including detailed information and all operations icon.

**Terminal:** Show all terminals under this account with detailed information and all corresponding operation buttons;

**Media:** Download, upload and check all media files under this account, those media files are also the program materials;

**Program:** Includes various types of program, can add simple and advanced program, select the materials and make the programs for led display;

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**Check Task:** Check all operations for controller with state;

**Log:** Includes user log, operation log, fault log and alarm report;

**GPS Task:** Especially for led vehicles or led taxi top signs, switching programs according to device’s locations (longitude and latitude);

**User:** Can manage all sub-users accounts;

**Services:** For administrator accounts only, to get the player record of controller per day, per week or per month.
3.4 Terminal Alias Modification

In order to manage all terminals efficiently and easily, please modify the alias for terminals when reports to the AIPS platform for the first time.

Default Alias name of terminals is “no name”.

Select the terminals then go to Config settings-->set-->terminal alias, write down the new alias and press submit, will see the operation result then. Also click Query terminal state to check the Alias.
3.5 Control Card Parameter Backup

We strongly recommend all customers to backup all terminals for future maintenance, AIPS platform will store the backup file forever, here are steps:

Log in AIPS platform, enter Terminal label, then select the terminals those need to be backup, go to Config setting --> backup, press backup button and then will switch to the Check task interface and show the operation result:
3.6 Time Zone Settings

If the led display devices not in China mainland, can modify android controller’s timezone:

Log in AIPS platform, select the terminals, go to Config setting--->set--->timezone, click drop down box and choose the correct time zone then press submit.
Then go to “Sync setting” and choose Type C for the terminals, and press Set button. When appears green icon means set success.
Finally go to “Query”, keep selecting the terminals and press Query button, can see the time zone result, if show correct local time means all settings correct.
3.7 Simple Program Production and Release

After done basic settings for terminals, can try the simple program immediately. Please refer to AIPS instructions for how to make advance programs and other functions.

Rules of simple program:

1. Simple program materials include images and video (mp4 format only);
2. Simple program display in full screen size;
3. Simple programs display in loop, can adjust the list order manually;

Steps of making simple program:

Prepare the images and videos (mp4 format), upload to media (go to Media --> click upload media files), select the files and upload. Please refer to AIPS instructions for details.
Go to Program label, choose “add simple program” button, then set the correct width and height pixels, press OK then enter the program editing interface.

Program editing interface in below:
Choose the images and videos from the media list and then click the blue add icon before each media file, click the small image to preview it. Can adjust the media file up and down by clicking icons. After done this, write down the simple program name and save it. After save, it will jump to the “program” function label interface, see picture in below:

Will see program name in the upside, click the “create task quickly” button and

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then jump to the “terminal” function label.

Please select the terminals that need to be published and click the “program task” tool, find the program task just created, click the Send button and watch the sending progress.

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After sending success, will jump to “Check task” interface automatically, will show the process of the sending, when achieve 100%, program will be display in led screen automatically.

Simple program made and send operations finished.
This is all about the Y10 controller system settings, hope that could help you to use our products with those instructions.

Thanks again for choosing Shanghai SYSOLUTION LED control system for your devices. Please call 400-608-6499 or send email to service@xixunled.com if meet any problems or have any suggestions, we will feedback you timely.

Please visit our English website: www.sysolution.net to get more solutions and English manuals. It is our honor to cooperate with you and truly to make mutual benefit for future.

Make LED display be more Intelligent!

Shanghai xixun electronic limited

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