Smart Home Control Terminals

《USER MANUAL》
I Preface

Thanks for choosing our smart home system. We sincerely hope the system and products will take the comfortable living environment to you. While it is taking protection of you and your property and it also brings the high-tech to your life.

We suggest you read the instruction carefully before using to know very well on how to install and operate the system. We also are appreciated to get any feedback or suggestion from you to improve the smart home system and products better and better. Thanks again and take a good enjoy in it.

II Notice

2.1 Environment of installation

Keep away from heat source and environment of high temperature and avoid sun shines directly.

To ensure the device dissipate heat well, please put the host at the place with good ventilation and protect well from water, tide and thunder. If the device is deployed outside, please make a good box to store it.

The device should be installed horizontally or vertically hung up to the wall, avoid shocking, and do not put other things on the case.

2.2 Avoid electric shock or fire

Please do not touch the device by wet hand.

Please do not pour water or other liquid onto the device.

Please do not put other things on the device.

Please do not dismantle the device if not by professional person.

2.3 Transportation and carry

The package is designed for vibration to ensure the device not damaged in transportation, please do not take it away while in transportation or carrying.

Avoid changing the environment too hot or too cold, or not, there will be water inside to damage the circuit.

Carrying the device with electric is forbidden.

III Function

3.1 Product description
The smart home system is fourth generation system in our products family. It concentrates monitor, smart security, appliances control, and background music four main functions.

The system adopts RF, WiFi, TCP/IP, 485 protocol to transport data. The lighting, curtain, home appliances are controlled by RF signal, the installation of smart lighting switch is same to the traditional mechanical switch, which is easy to use. The monitor camera is adopted 2.4G wireless IP camera, and alarm sensors are used wireless detectors. The system is controlled by tablet PC, smart phone, personal computer etc. All the devices are used wireless technology, so the system is very easy to install and saves lots of time.

3.2 Features
(1) 1~120 channels camera monitors
(2) 120 channels wireless defense zones
(3) 120 gangs lighting control
(4) 120 gangs curtains control
(5) 120 gangs appliances control
(6) 120 groups scenes control
(7) 6 timing points per day in a week
(8) 1000 alarm records
(9) 1000 operating records
(10) 5 emergency alarm phone numbers
(11) 5 SMS control phone numbers
(12) 5 alarm message receiving phone numbers
(13) 3 get password phone numbers
(14) 5 favorite background music list

3.3 Functions
3.3.1 Intelligent lighting
To control the light as single ON/OFF all ON, all OFF scene by tablet PC, smartphone, personal computer, time, remote controller or hand different ways.

3.3.2 Curtains and appliances control
(1) Curtain control—to control the curtain on/off through different ways.
(2) Appliances control—to control the TV, air conditioner, heater, electric window, fan or other home appliances.

3.3.3 Smart monitor
(1) Real time monitor—Watch the live video by tablet PC, computer or TV projection.
(2) Remote monitor—Watch the live video through internet.
(3) Mobile monitor—Watch the live video through smart phone.
(4) Video record—Store the video to the SD memory card.
(5) Video review—Review the recorded video.

3.3.4 Smart alarm
(1) Wireless defense zone alarm—Manage 128 channels wireless defense zone.
(2) SMS alarm—Send short message to mobile phone when alarm.
(3) Photo alarm—Send the shot photos to mobile phone when alarm.
(4) Logic linkage—Link the light, curtain and other home appliances to the alarm system. When it alarms, it will open these devices automatically.
(5) Dial Number——Dial the preset phone number when alarm.

3.3.5 Remote control
Watch and control the lighting, curtain, appliances outside through internet, 3G telecom network.

3.3.6 Timing control
Set time to control the light, appliance, curtain, security, background music, scene, other control and so on.
(1) Lighting timing control
(2) Curtain timing control
(3) Appliances timing control
(4) Defense zone timing control

3.3.7 Scene control
Combine a group of lamps, curtains, and appliances together, and record the status of ON or OFF to one button, when need this scene, just press one button to start the scene automatically.

3.3.8 Background music
Save the MP3 to the TF card and insert to the smart host, the Audio output channel stereo music, it can connect the external active stereo speaker.

3.4 Logical control
The system detects the status of each sensors and control lights, curtain or other devices automatically.

3.5 Other smart control
To control door, window, gas/water valve, fish feeder, cloth rack etc.

3.6 User friendly interface
User friendly interface software, easy to operate; Customized scene preset, 1-button to reload; Unattended security system, no need manage each time; various timing settings, make the life regularly and happy.

IV Diagram

4.1 Profile diagram

4.2 Technical data
## CS600 Wireless Smart Host (All in one)

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>S600</td>
<td></td>
</tr>
<tr>
<td>Main function</td>
<td>128 Lights/Curtains/Appliances/Doors/Windows/Valves/Feed/Music...</td>
<td></td>
</tr>
<tr>
<td>Control mode</td>
<td>Smart phone/Pad/Computer/Remote/Timer/Logic/Voice control...</td>
<td></td>
</tr>
<tr>
<td>App support</td>
<td>Support Android, iOS, Windows</td>
<td></td>
</tr>
<tr>
<td>Room</td>
<td>128 defined rooms management</td>
<td></td>
</tr>
<tr>
<td>Defense zone</td>
<td>128 defense zones to alarm or logic</td>
<td></td>
</tr>
<tr>
<td>Monitor</td>
<td>128 wireless IP cameras input</td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>Local/SMS/Photo/Dial number alarms</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td>Output: RF303/315/433MHz, RS485; Input: RF315MHz</td>
<td></td>
</tr>
<tr>
<td>Port</td>
<td>RJ45/TF/SIM/RS485/Audio output</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black/Silver/Gold</td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td>DC12V/2A input</td>
<td></td>
</tr>
</tbody>
</table>

### 4.3 Interface of the smart host

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TF car</td>
<td>Support up to 8GB</td>
</tr>
<tr>
<td>2</td>
<td>Power indicator(green)</td>
<td>Power on, the indicator is ON</td>
</tr>
<tr>
<td>3</td>
<td>Network indicator(blue)</td>
<td>Network connected, the indicator is ON</td>
</tr>
<tr>
<td>4</td>
<td>GSM indicator (blue)</td>
<td>Flicker while the GSM card plugged</td>
</tr>
<tr>
<td>5</td>
<td>RF indicator (blue)</td>
<td>Flicker while transmit RF signal</td>
</tr>
<tr>
<td>6</td>
<td>Audio output</td>
<td>Output background music</td>
</tr>
<tr>
<td>7</td>
<td>485 interface</td>
<td>Support the device with 485 agreement</td>
</tr>
<tr>
<td>8</td>
<td>RF transmit antenna (red)</td>
<td>315MHz, receive RF signal from alarm sensors, the protocol</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>is PT2262 fixed code, 3.3M~4.7MΩ</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>RF receive antenna (green)</td>
<td>433MHz, transmit RF signal to smart switches, curtain controller, smart socket and so on</td>
</tr>
<tr>
<td>10</td>
<td>GSM antenna (blue)</td>
<td>Receive control SMS or transmit alarm message</td>
</tr>
<tr>
<td>11</td>
<td>Sim card</td>
<td>Plug mobile phone Sim card</td>
</tr>
<tr>
<td>12</td>
<td>RJ45 port</td>
<td>Connect to network, for example wireless router</td>
</tr>
<tr>
<td>13</td>
<td>Power input</td>
<td>DC12V/3A</td>
</tr>
<tr>
<td>14</td>
<td>Reset button</td>
<td>Reset to factory defaults</td>
</tr>
</tbody>
</table>

**4.4 Notice:**
1. If forget gateway or client password, the user can press and hold on the RESET button for 10 seconds, then the smart host will restore factory Settings. Gateway and client password recovery for factory Settings but all the device configuration information you had set will be delete.
2. Antenna installation location please refer to Figure 5, two long antenna can be interchangeable, adjust the antennas tilt about 30 degrees for the best effect.

**V Smart Home Platform**

5.1 Topology of function
5.2 System components

5.2.1 System platform

(1) Smart host

Smart host is the core of the whole management system. It connects smart switches, alarm sensors, cameras, and other terminal control devices to manage all the devices to work organically.

(2) Operating terminal

It is the bridge by which people communicate with the smart home system. There will be one or more which can be deployed in living room, bedroom, car, office, etc. It runs the smart home system software to control all the smart devices. The operating terminal are tablet pad, smart phone, and personal computer.

(3) Control terminal

It is the device like smart lighting switch, remote socket, curtain controller, wireless IP camera, and wireless detectors and so on.

5.2.2 Control terminal devices

(1) Smart lighting switch

Smart host sends the RF signal to the smart lighting switch. Then switch receives the signal and distinguishes which kind of command it should do.

(2) Smart socket

Smart host sends the RF signal to the smart socket. Then the socket receives the signal and drives the appliances ON or OFF.

(3) Smart curtain controller

Smart host sends the RF signal to the smart curtain controller. Then the controller receives the signal and drives the curtain OPEN, CLOSE, or STOP.
(4) IP camera
   The system supports up to 120 channels wireless IP cameras. The cameras are used for home including infrared dome camera, infrared gun camera and PTZ camera etc. The cameras are connected to host by 2.4G wireless signal through network.

(5) Alarm sensor
   The system supports up to 120 channels wireless alarm sensors. The sensors include: PIR detector, door magnetic, gas detector, smoke detector, wind and rain detector and so on.
   Note: different control terminal devices have different user instructions; please refer to the periphery devices instruction.

5.3 System connection
5.3.1 Connection of smart host and wireless router
   Connect the smart host and wireless router with network cable.

5.3.2 Connection of tablet PC and wireless router
   Use WiFi to connect the tablet to wireless router. Please refer to the settings of tablet PC.

5.3.3 Connection of IP camera and wireless router
   Use WiFi to connect the tablet to wireless router. Please refer to the settings of IP cameras.

5.3.4 Connection of control terminal device and smart host
   Use RF to connect the control terminal devices to the smart host. Please refer to the instruction of periphery devices.

VI Wireless Router Settings

Smart home remote access gateway system configuration

6.1 Network connection
The settings may have difference according to different brand routers. But main Function is similar. Here is talking about the router of TP-LINK.
The smart host factory address defaults to 192.168.1.232, so the router IP for 192.168.1.1 can access to the smart host. If the router is other IP, it is need to modify the router IP through a computer.
Connect the router to the computer through network cable first, enter the defaulted IP into the IE (internet Explorer) address, and then enter the gateway router setting. In turn into the network parameters, LAN port Settings, Change the IP address to 192.168.1.1, save and restart the router.

(1) Regular settings
Connect the router to the computer through network cable first.
To realize the smart host remote access, it need to add two virtual server
Enter defaulted IP http://192.168.1.1 into the IE (Internet Explorer) address, and then enter defaulted username and password to get in router settings.
6.2 Router settings

Network connection
The settings may have difference according to different brand routers. But main function is similar. Here is talking about the router of TP-Link.

(1) Regular settings
Connect the router to the computer through network cable first.
Enter defaulted IP `http://192.168.1.1` into the IE (Internet Explorer) address, and then enter defaulted username and password to get in router settings.

Write in the new SSID.
Open wireless function and SSID broadcast. For others, default. Click "save" button.

(2) Network segment
The IP address of smart home should be in same segment to the router. The default IP of the smart host is: 192.168.1.232, so the router also should be in same segment, such as 192.168.1.1

In order to better protect the system, we strongly suggest open the security protection function. To open the security protection, select one kind of
encryption type, such as WPA-PSK/WPA2-PSK, and enter password.
Click "save" button to save.

(4) Restart the router
When finish the above settings, the system can be logged in and controlled in local network, if you want to control it through internet, please do the below settings:

6.3 Virtual server settings
(1) Smart host port mapping
Port mapping is also called virtual server, maybe also called for other name in different brand router. But they have same function, to appoint the external command to some internal IP server.
Static port mapping: set a fixed port to forward the external command to the internal IP and port.

Click "Add new item" to add one new forward rule. Please input the service port is 5000 and the server IP address is 192.168.1.232, If you had changed the gateway host IP address, please enter the new IP change. Click on "save" button to complete.
Click "Add new item" again, open a new window, please input service port number 8000, enter the gateway host IP default for 192.168.1.232 here. If you had changed the gateway host IP address, please enter the new IP change. Click on "save" button to complete.
6.4 The router’s wireless network Settings.

Please turn the wireless function on the wireless router, Custom wireless SSID name (wireless), and then channel choice in the wireless network Settings for 6, 11 BGN mode selection mixed, authentication type must be connected wpa2-psk, AES encryption algorithm. Other parameters default Settings.

At this point, can be in the browser address bar enter 192.168.1.232:8000, into the smart home gateway host management system. It means the connection of this router and smart host is successful.

VII IP camera Connection

7.1 Wired connection to LAN

Power on the IP camera (please check carefully the voltage of power adaptor, don’t insert incorrect power, otherwise it will be damaged), connect IP camera to router by network cable and connect computer to the same router, example of figure 1.

![Network cable connection diagram](image)

Figure 1

Insert attached CD to computer driver, double click “H&MSearch_en.exe” in the CD, will pop up the interface as figure 2, please operate as the following steps:
Figure 2

1) Click “Search” (Please make sure your firewall will not block up the item to be searched)

2) Choose a camera;

3) Change the IP address of the IP camera according to the information in the red frame on the left. The numbers in the red circle should not be the same. The Http port should be a number between 9000~9999;

4) Enter user name and password for the device, the default is "admin" and "123456";

5) Click “update”;

6) After updating successfully, click "Search (F3)", choose the device again and click “Browse (F4)”. Then you can run the web browser, enter user name and password and login IP camera to view the video, example of figure 3. (please use IE browser at first time)
Notice: Need to download ActiveX when first use, click "download ActiveX( when first use)" in figure 3, will display prompt as figure 4, click ‘run’ will download and install the ActiveX automatically.

![File Download - Security Warning](image)

**Figure 3**

**Figure 4**

Tips: You can hold on reset button on the camera for 10 seconds to restore factory default if you forget user name and password, or not sure the device parameters.

**PIC(1)**

### 7.2 WiFi connection to LAN

After finishing the wired connection as chapter 2.1, you can connect the camera by WiFi. Login camera in wired connection and enter wifi setting, and then operate as the following step, example of figure 5.
Select ‘On’ and click ‘Search’, and then select wireless router in pop up menu, click ‘OK’ and enter its password, click ‘apply’ to save the wireless settings. And you can click ‘check’ to check if the wireless setting is successful. After setting successfully, please pull out network cable and reboot the camera to use the wireless function.

Because the camera supports WPS/QSS, so you can set wireless by simple way as below.

1) Please confirm if the router connected to camera supports WPS/QSS (you can check user manual of the router or get the support from router factory);
2) Press WPS/QSS button on the router, it will launch the function.
3) Press and hold on reset button for 2~5 seconds after it ran normally (not need connect cable), it will launch the WPS/QSS function, then match the setting with the router, the status LED always on when it was matching, and it will flash after matching successfully.
4) Unplug power adaptor and reboot the camera, then you can use the wireless connect function.

Note: The camera will automatically stop the function when the matching is unsuccessful after continuing 50 seconds. Due to different kinds of the router, we don’t sure our camera can be connected to all routers successfully.

7.3 Connection to WAN
You should connect it to LAN network and do the port forwarding at first, and then connect the LAN network to WAN, connect as figure 6.
Figure 6

For example: operation step of port forwarding as figure 7.

1) Please go to the setting interface of Router, and choose “Port Forwarding”;
2) Choose “Add custom Service”;
3) Input IP camera http port;
4) Input LAN IP Address of the camera, click “Apply” (port number and IP address as you set in figure 2)

After finishing the port forwarding, you can use WAN IP address of router and http port of camera to visit the camera by remote computer as figure 6.

Notice: because the routers are different, so the interface and setting method of router are
also different, how to do the port forwarding for various routers, please refer to the user manual of your router or consult with router manufacturer.

### 7.4 Connection Settings of IP camera and smart host

The IP camera and the smart host have to be in the same router. Open browser input 192.168.1.232:8000 into the smart home management system. Click the “Camera Manage”, add and set the new IP camera.
VIII Smart terminal products

8.1 Wireless IP camera
Wireless IP camera has dome, gun, PTZ different models. The installation and settings are similar. The following example is indoor PTZ camera.

8.1.1 Notice
(1) Keep this IP camera away from super-cooled or super-hot environment, and other environment might affect the physical performance.
(2) Please install the IP camera horizontally and firmly, never place any other devices on IP camera.
(3) Please do not touch the power source or IP camera with wet hand.
(4) Please do not open the housing.
(5) Please do not move the IP camera overmuch when power supply is on.

8.1.2 Technical data
(1) High performance SOC processor, stability and low power consumption.
(2) Adopt H.264 video encode technology, high compression ratio and high quality image.
(3) Complete network protocol, built in web browser function.
(4) Support mobile phone monitor
(5) Support PTZ control, alarm I/O, double way talk etc. function
(6) Audio input/output
(7) RTSP, VLC stream media protocol
(8) Support SD card storage
(9) Support WI-FI connection

8.1.3 Installation
Install the camera to wall or ceiling.

8.1.4 Port instruction
(1) [DC 12V]: Power input
(2) [Network]: RJ-45 interface, with two lights
(3) [State]: The indicator light flash means the IP camera works
   [PWR]: Red light on means the power is on.
(4) [RST]: Default to factory settings
(5) [Aout]: Audio output
(6) [Ain]: Audio input
(7) [SW]: Emergency switch
(8) [Alarm IN]: Alarm input
   [G]: ground
   [Alarm OUT]: Alarm output
   [RS485]: Connect PTZ device to IP camera
(9) [WIFI]: Green light flashes means the WIFI connection is ok.
(10) [SIM]: SIM card slot
(11) [SD card]: SD card slot
(12) [ANT]: Wireless antenna

8.1.5 Settings
Please refer to the chapter of camera settings in the user manual of smart host.
8.2 Wireless network repeater

8.2.1 Product introduction:
With the development of smart home system industry and improvement of intelligent household lives, only a smart host has not completely fit for large area, more land for residential and commercial floor. In order to solve these problems, the Network repeater can be used to expand smart home control system. It cannot be used independently, it has to be used with smart host, each smart host can be equipped with multiple extension.

8.2.2 Technical parameters:
(1) Working voltage: DC9V
(2) Working current: 350 mA
(3) The IP address: 192.168.1.249 (free)
(4) Encoding: PT2240B 1.8 M (learning code)
(5) Working temperature: -10 -to +50 °C
(6) Product size: 120 mm * 100 mm * 30 mm

8.2.3 The extension and host Settings:

The extension power connected. Use the cable connect to the router LAN port, open included IP change software TCPIP-232-V3.6.exe. Click the “search” button and the extension equipment connection is successful. The user can modify IP, please refer to below.

Notice: Pay attention to not IP conflict and other equipment.
Open the smart home management system—Extension Manage—enter the name and IP—new added. Equipment management of equipment can according to the area, an extension to choose appropriate extension forward control signal.

When add the new device, choose the suitable extension.
8.2.4 Installation method:

Finish the Settings, Place the extension in the center of the control area, it can be fixed on metope or placed on the table directly. Notice: The extension should as far as possible away from the rest of electrical equipment.