

# User's Manual



## 7-inch SIP Indoor Touch Screen PoE Video Intercom

► VTS-700P



## Copyright

Copyright © 2018 by PLANET Technology Corp. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of PLANET.

PLANET makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability or fitness for any particular purpose. Any software described in this manual is sold or licensed "as is". Should the programs prove defective following their purchase, the buyer (and not PLANET, its distributor, or its dealer) assumes the entire cost of all necessary servicing, repair, and any incidental or consequential damages resulting from any defect in the software. Further, PLANET reserves the right to revise this publication and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

## FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

## FCC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

## Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

**CE Mark Warning**

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

**WEEE Regulation**

To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

**Revision**

User's Manual of PLANET 7-inch SIP Indoor Touch Screen PoE Video Intercom  
Model: VTS-700P  
Rev: 1.00 (August, 2018)  
Part No. EM-VTS-700P\_v1.0

## Table of Contents

Chapter 1. Product Introduction.....	4
1.1 Package Contents.....	4
1.2 Overview.....	4
1.3 Specifications.....	7
Chapter 2. Hardware Interface .....	8
2.1 Physical Descriptions.....	8
Chapter 3. Wall Mounting and Cabling.....	11
Chapter 4. Configuration .....	12
4.1 How to use the VTS-700P .....	12
4.2 To get IP address of VTS-700P.....	13
4.2 Webpage Setting.....	14
4.3 Status .....	15
4.4 Security Setting.....	16
4.5 Intercom.....	20
4.6 System .....	23

# Chapter 1. Product Introduction

## 1.1 Package Contents

The package should contain the following:

- Control Pad x 1
- Quick Installation Guide x 1
- Panel for surface-mounting x 1
- DI/DO cable x 1



Note

If any of the above items are missing, please contact your seller immediately.

## 1.2 Overview

### Touch Screen Video Intercom with PoE

PLANET VTS-700P 7-inch SIP Indoor Touch Screen PoE Video Intercom, the command center of the Video Intercom and Automation Systems, provides you with the convenience of managing functions at the touch of the beautifully-designed unit's screen. The VTS-700P, perfect for homes and businesses, delivers whatever command you have in mind without, for example, having to go the door to unlock it to let a visitor in.



Its simple user interface enables you to easily arm and disarm your home security system, view status of doors and door locks, and see live video from cameras in and around the house – all at the touch of a button. Quick-read information, such as weather, time, and more are available via on-screen widgets that are constantly updated. One glance at the display panel shows who is outside your door, and you can decide to start a dialogue or open the door lock. In addition, with PLANET IP PBX and IP intercoms, the VTS-700P makes the door communication system comprehensive and easy.



### Safeguarding Homes Conveniently via the Multi-functional Sensor

The VTS-700P provides 6 local zones of conventional detectors and 2 local monitored alarm outputs. When detectors are triggered upon detection, the alarm signal is picked up and you will be alerted of the situation via the VTS-700P or alarm outputs. The real-time alert can certainly stop the situation from becoming worse, thereby protecting your home from the would-be burglary.

### Video Monitoring of Indoor Touch Screen IP Intercoms

With Indoor Touch Screen you can view video from the intercom camera at any time. This allows you to have a constant overview of what is happening outside the door or around your home on the screen. Keep an eye on your kids and pets, screen visitors at your entrance and view activities occurring around the interior or exterior of your home whenever and wherever you want.



### Home Automation Management with Personal Scene Mode

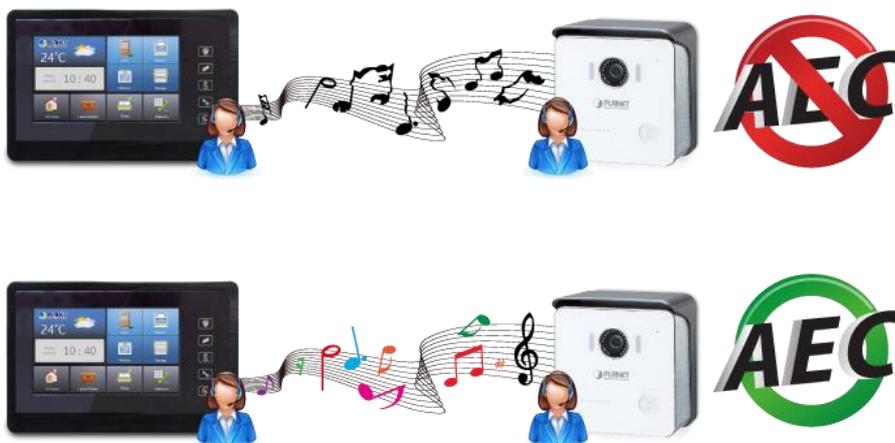
You can easily install the HAC-1000 Z-Wave Home Automation Control Gateway for home automation system control on your Indoor Touch Screen. In the "Scene" mode, you can set everything you want in every room of your home for any activity or anything in-between from morning to night. Four kinds of scenes can be created and customized to your personal preferences.



Multiple Scene Modes For Smart Home

### Audio in HD Quality

Experience PLANET's crystal-clear sound in the HDP-1100PT Door Phone and VTS-700P SIP Indoor Touch Screen PoE Video Intercom. The Acoustic Echo Cancellation (AEC) technology is adopted in PLANET's HDP-1100PT Door Phone and VTS-700P SIP Indoor Touch Screen PoE Video Intercom to minimize the sound signal distortion. In addition, with echo suppression, you'll feel like you're talking to your caller face-to-face, thus guaranteeing the best-in-class sound quality.



## 1.3 Specifications

<b>Product</b>	VTS-700P
<b>Hardware Platform</b>	
<b>Screen Size</b>	7 inches
<b>Brightness</b>	450 cd/m <sup>2</sup>
<b>Video Resolution</b>	800 x 480
<b>Aspect Ratio</b>	16:9
<b>Touch Panel</b>	Projected capacitive (multi touch)
<b>Audio</b>	
<b>Standard</b>	SIP 2.0 (RFC3261), RTSP, TC/IP
<b>Voice / Video Codec</b>	G.711a/u, H.264
<b>Audio Streaming</b>	Two-way audio
<b>Microphone</b>	Built-in microphone
<b>Audio Output</b>	Acoustic Echo Cancellation
<b>Network and Configuration</b>	
<b>Network Standard</b>	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX
<b>Functions</b>	SIP intercom supported (with the HDP Door Phone series) Home Automation Integrated with the HAC-1000 Home Control Gateway
<b>General</b>	
<b>Power Requirements</b>	12V DC, 1A IEEE 802.3af Class 3
<b>Operating Temperature</b>	-10 ~ 50 degrees C
<b>Operating Humidity</b>	0 ~ 90% (non-condensing)
<b>Weight</b>	581g
<b>Dimensions (W x D x H)</b>	245 x 155 x 26.5 mm
<b>Installation</b>	Wall-mount type
<b>Emission</b>	CE, FCC
<b>Connectors</b>	10/100Mbps Ethernet, RJ45 DC power jack Terminal block for 6 alarm inputs and 2 outputs

## Chapter 2. Hardware Interface

### 2.1 Physical Descriptions

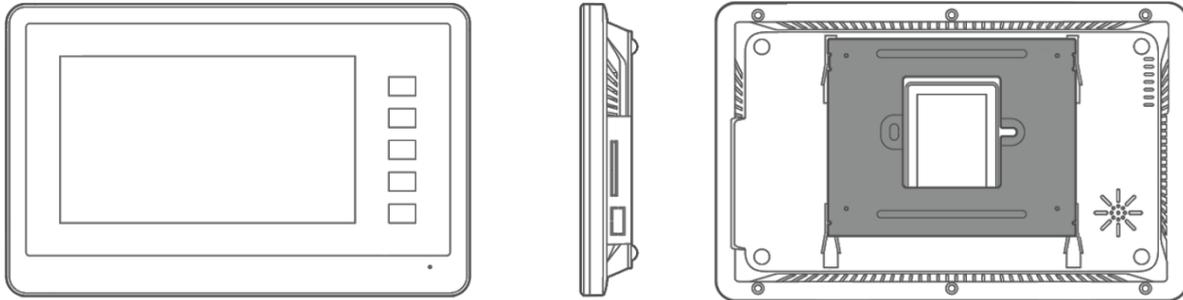
➤ **Dimensions**

<b>Dimensions (W x D x H)</b>	245 x 155 x 26.5 mm
<b>Weight</b>	581g (gross weight)

➤ **Front Panel**



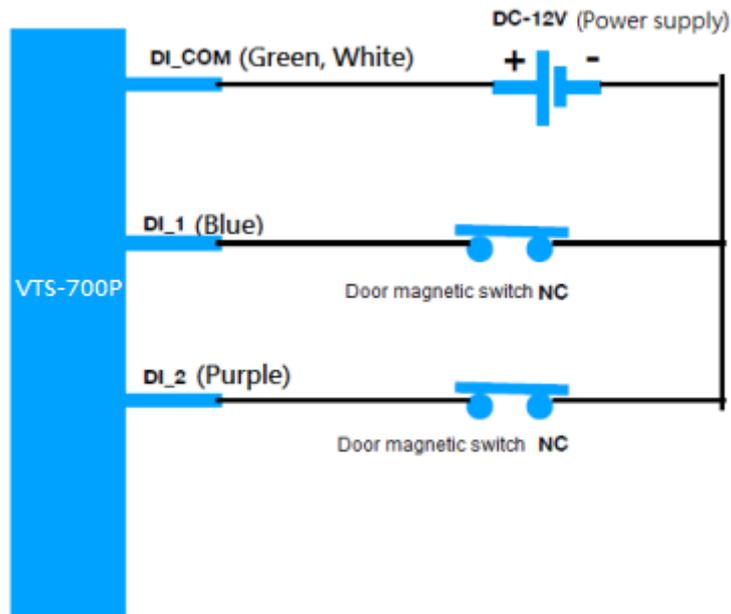
➤ **Rear Panel**



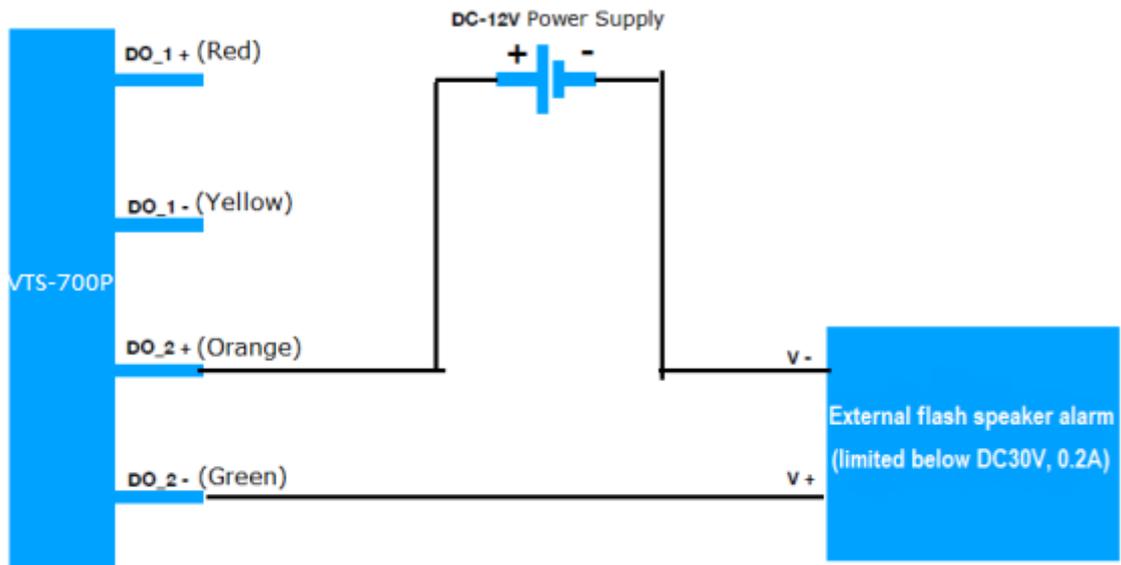
➤ **Security contact configuration diagram**

Name	Color	Function description	Pin
DI_1	Blue	The first security zone	7
DI_2	Purple	The second security zone	8
DI_3	Gray	The third security zone	5
DI_4	White	The fourth Security Zone	6
DI_5	Red White	Emergency button	3
DI_6	Orange White	Fire (smoke detection)	4
DI_COM	Green White	DI (External +12V power input)	1
DO_1 +	Red	Security mode indicator (Electronic relay, limited to below 30V, 0.2A)	11
DO_1 -	Yellow		9
DO_2 +	Orange	Siren (Electronic relay, limited to below 30V, 0.2A)	12
DO_1 -	Green		10

➤ Digital Input security contact



➤ Digital Output Alarm output contact

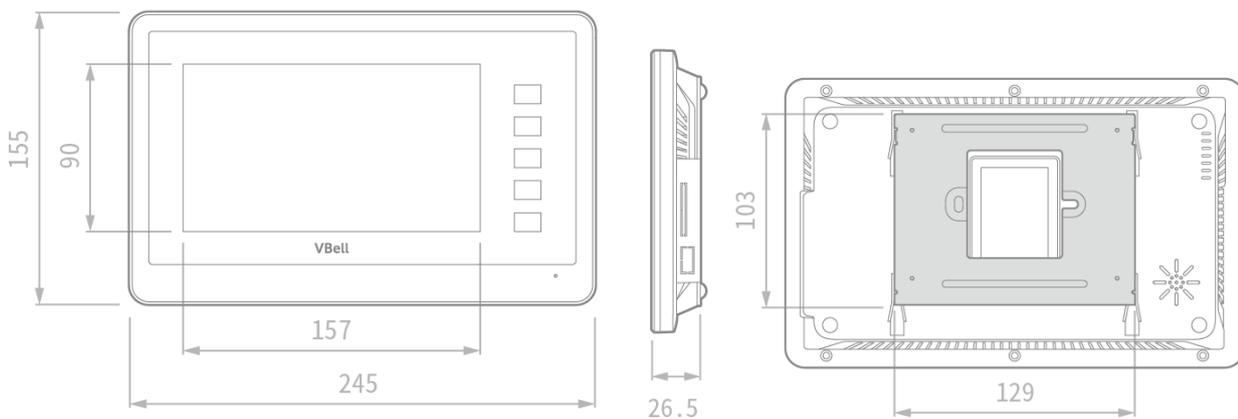


## Chapter 3. Wall Mounting and Cabling

PLANET VTS-700P is easy to install by following the steps below:

**Step 1:** Wiring and mounting on the wall -- Place the wall-mount panel in the position where you want and fix it with four screws, and then hang the VTS-700P main body as shown below.

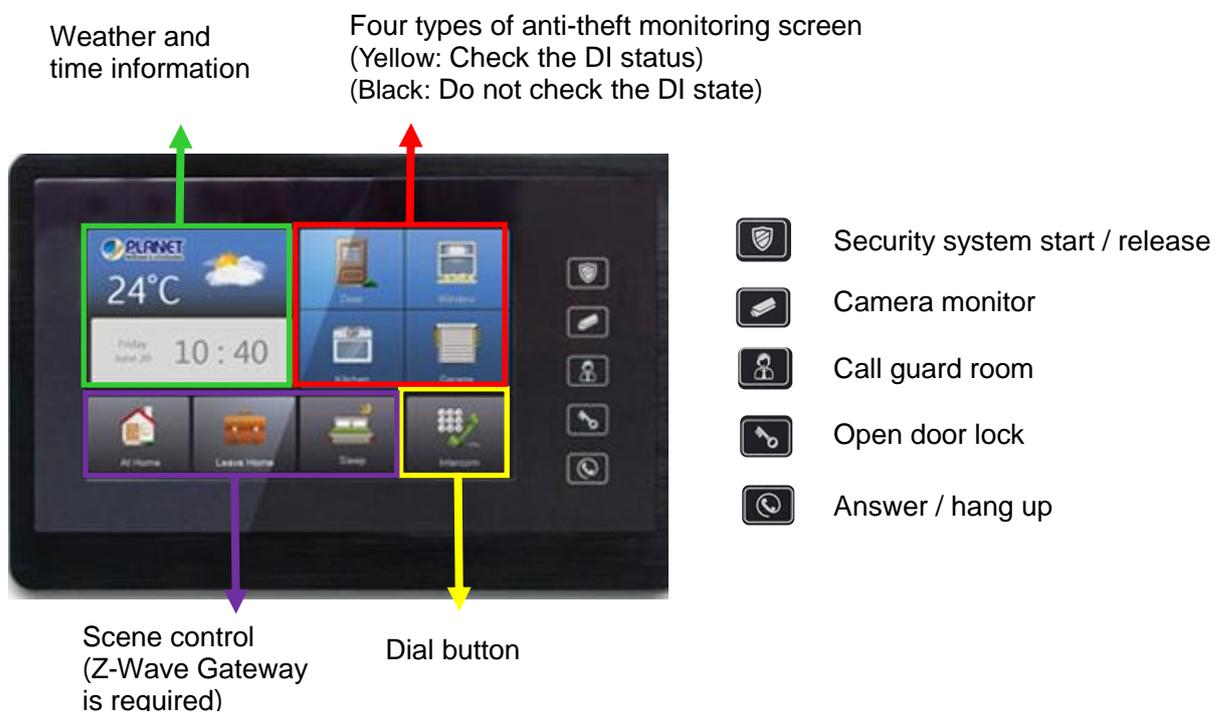
**Step 2:** Please connect the Ethernet cable directly to the LAN port on the back of the VTS-700P for PoE models.



# Chapter 4. Configuration

## 4.1 How to use the VTS-700P

When the PoE Ethernet cable is connected, you will see a penguin in the upper left corner of the VTS-700P screen, and you also can see the MAC address, default IP location (**192.168.0.20**), and the version number. On the left side of the VTS-700P home page, the temperature, weather, date and time are displayed. On the right side of the VTS-700P home page, four types of anti-theft monitoring screen are shown. At the bottom of the screen there are scene control, and intercom function (We will introduce each function later.). There are five function buttons on the right hand side of the screen.



## 4.2 To get IP address of VTS-700P

**Step 1:** When you touch the time display zone of the VTS-700P homepage with your finger, the QR code will jump automatically on the screen



Note

Your smartphone should be set up in the same network segment as that of the VTS-700P.

**Step 2:** Open the link directly by your smartphone or open the browser to log in the VTS-700P settings page (**Default login user name and password:** admin and admin) that provides device information, security setting, intercom setting, and system setting.



Note

Default IP Mode: DHCP Client

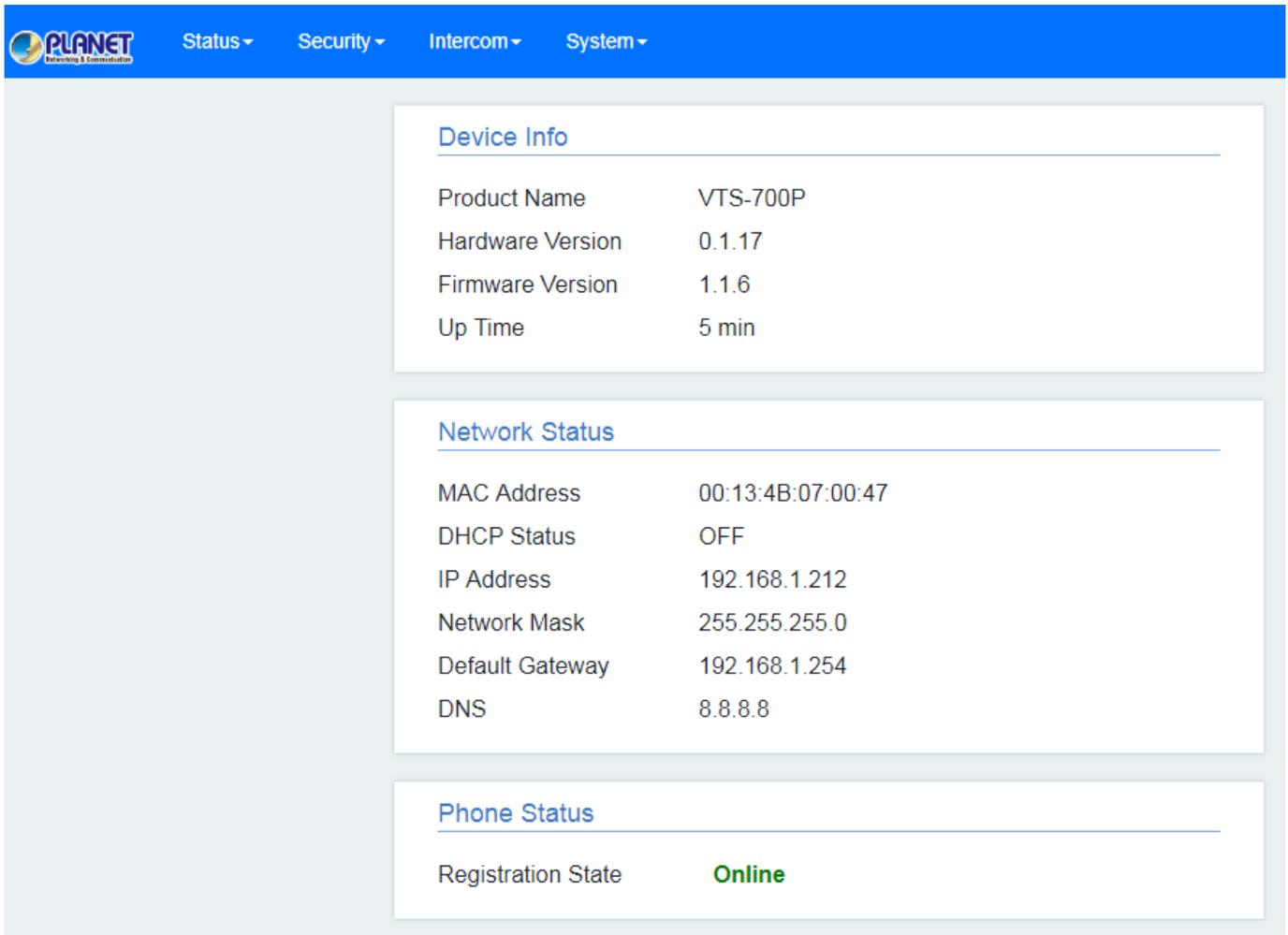
Default IP Address: 192.168.0.20 (For network without DHCP Server)

Default Username: admin

Default Password: admin

## 4.2 Webpage Setting

The main page as shown below displays 4 functions -- Status, Security Intercom and System.



The screenshot shows the main page of the VTS-700P web interface. At the top, there is a blue navigation bar with the PLANET logo and four menu items: Status, Security, Intercom, and System. Below the navigation bar, the main content area is divided into three sections:

- Device Info**: A table showing device details.

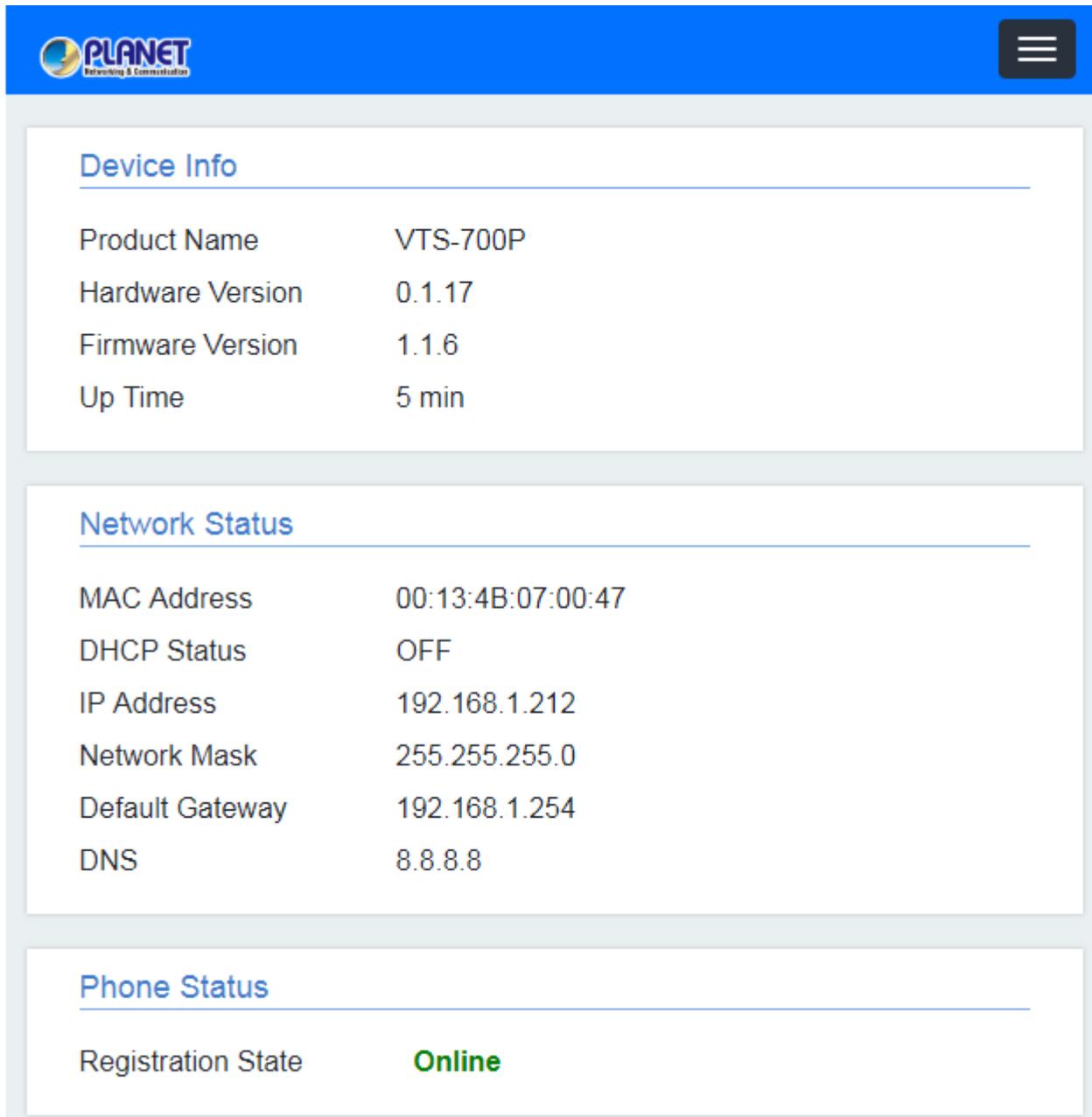
Product Name	VTS-700P
Hardware Version	0.1.17
Firmware Version	1.1.6
Up Time	5 min
- Network Status**: A table showing network configuration details.

MAC Address	00:13:4B:07:00:47
DHCP Status	OFF
IP Address	192.168.1.212
Network Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS	8.8.8.8
- Phone Status**: A table showing the registration state.

Registration State	<b>Online</b>
--------------------	---------------

## 4.3 Status

The page shows the details of the VTS-700P.



The screenshot shows a web interface for the VTS-700P device. It features a blue header with the PLANET logo and a menu icon. The main content is divided into three sections: Device Info, Network Status, and Phone Status. Each section contains a list of key-value pairs.

Device Info	
Product Name	VTS-700P
Hardware Version	0.1.17
Firmware Version	1.1.6
Up Time	5 min

Network Status	
MAC Address	00:13:4B:07:00:47
DHCP Status	OFF
IP Address	192.168.1.212
Network Mask	255.255.255.0
Default Gateway	192.168.1.254
DNS	8.8.8.8

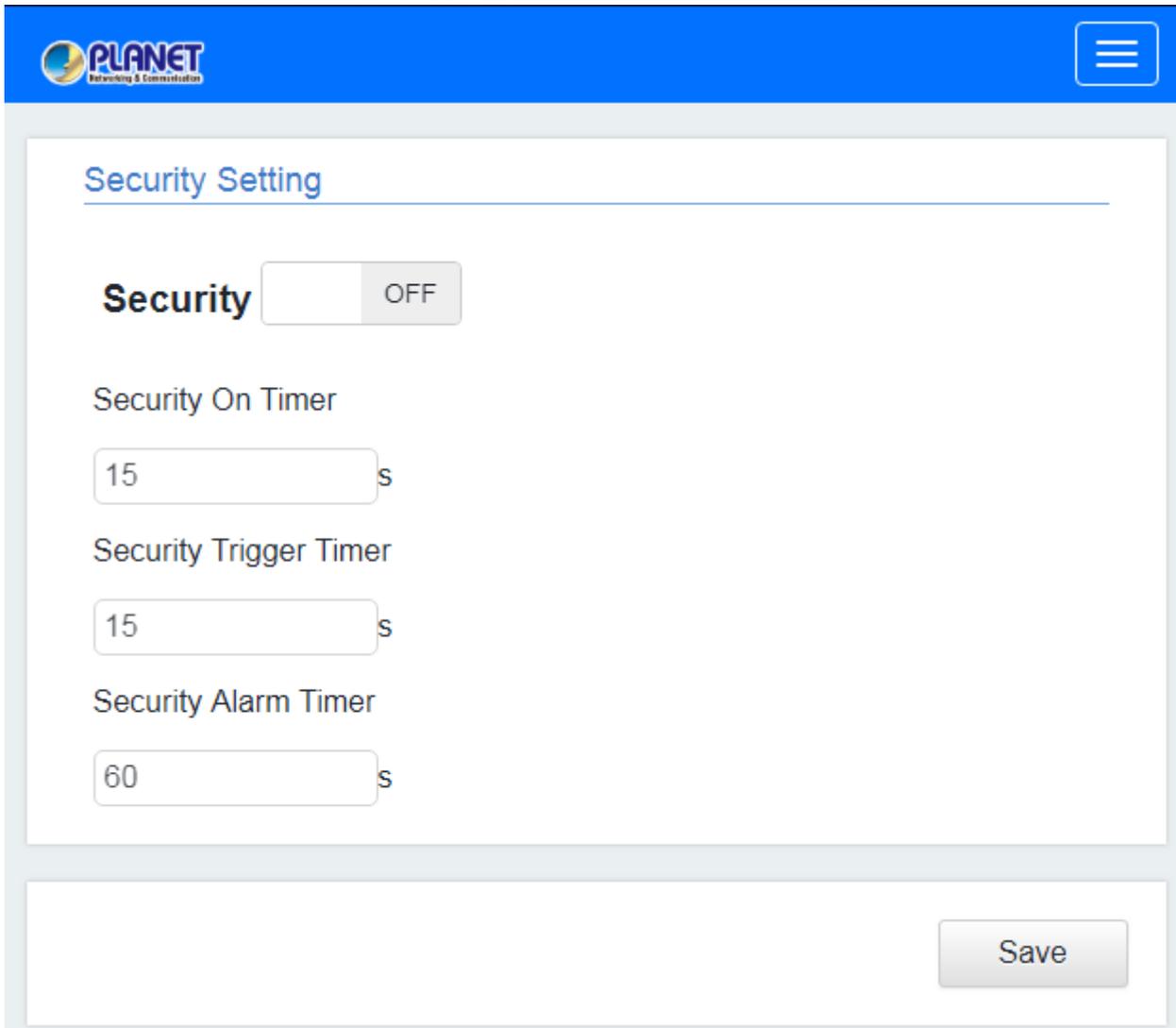
  

Phone Status	
Registration State	<b>Online</b>

## 4.4 Security Setting

Security > security setting

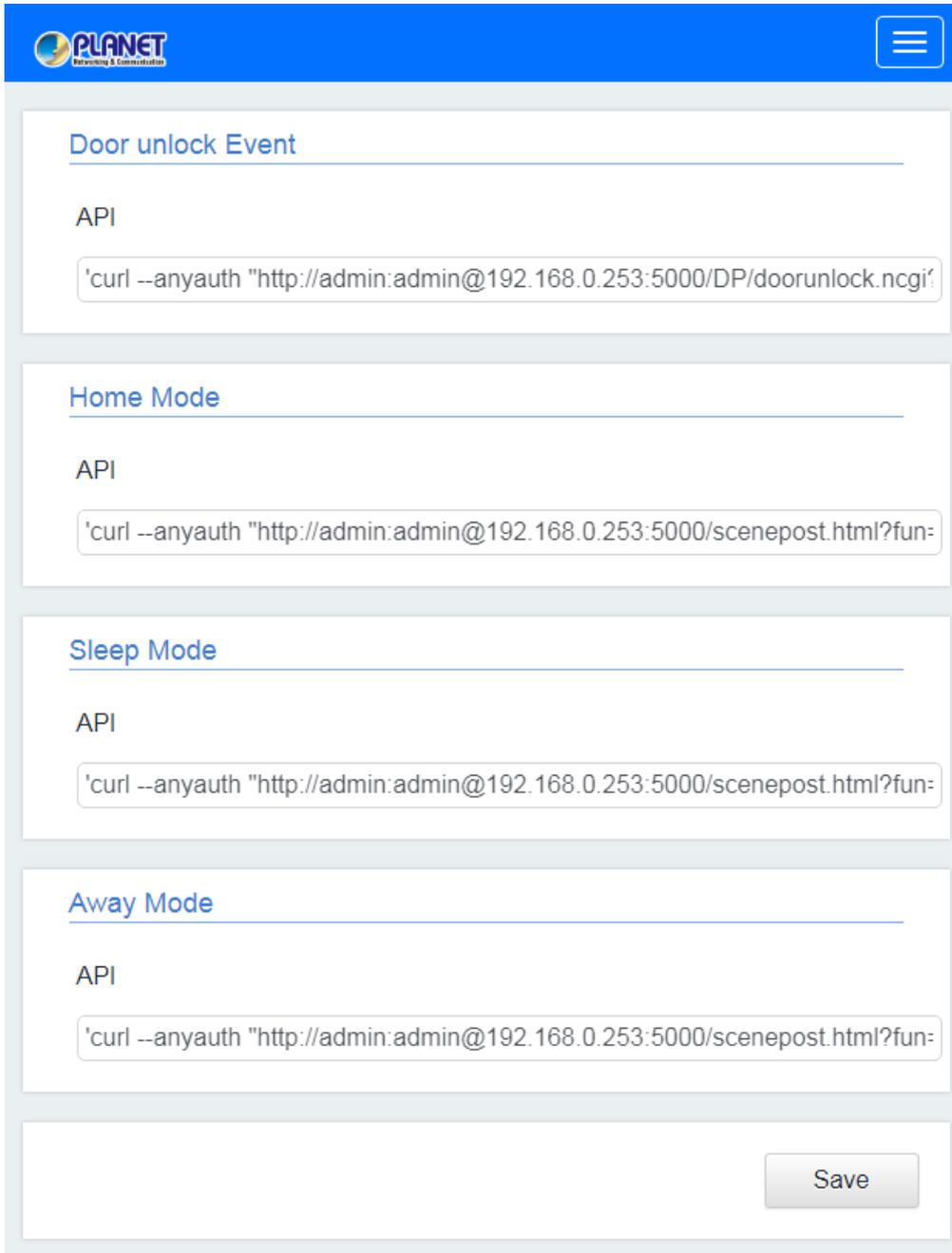
You can set up timer for start time, trigger time and alarm time ranging from 1 to 999 seconds.



The screenshot shows the 'Security Setting' web interface. At the top left is the PLANET logo. At the top right is a menu icon. The main content area is titled 'Security Setting' and contains a 'Security' toggle switch set to 'OFF'. Below this are three timer settings: 'Security On Timer' (15 s), 'Security Trigger Timer' (15 s), and 'Security Alarm Timer' (60 s). A 'Save' button is located at the bottom right of the interface.

## Security>Door Unlock

If customer has the HAC-1000 Z-Wave Gateway that controls Z-Wave door lock and other functions, user can set up door unlock event, home mode, sleep mode and away mode via API.



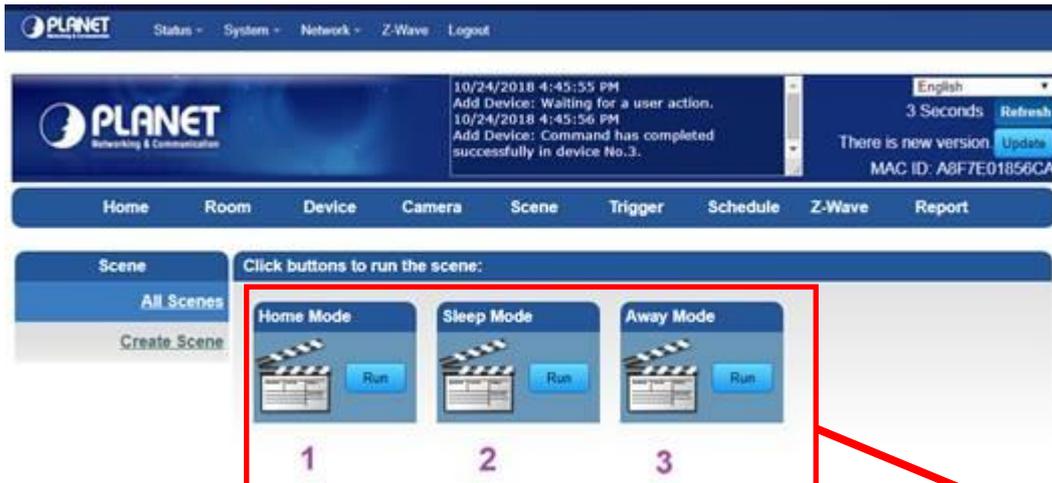
The screenshot shows a web interface with a blue header containing the PLANET logo and a menu icon. Below the header are four configuration sections, each with a title, an API label, and a text input field containing a curl command. At the bottom right of the form is a 'Save' button.

- Door unlock Event**  
API  
'curl --anyauth "http://admin:admin@192.168.0.253:5000/DP/doorunlock.ncgi'
- Home Mode**  
API  
'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun-
- Sleep Mode**  
API  
'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun-
- Away Mode**  
API  
'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun-

For example:

### Door Unlock Event

Input 'curl --anyauth "http://admin:admin@192.168.0.253:5000/DP/doorunlock.ncgi?id=fromVTS700P"&'. If you have changed the password, make sure the new password is correctly typed.



### Home Mode

Input `'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun=execute&id=1" &'`.  
If you have changed the password, make sure the new password is correctly typed.

### Sleep Mode

Input `'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun=execute&id=2" &'`.  
If you have changed the password, make sure the new password is correctly typed.

### Away Mode

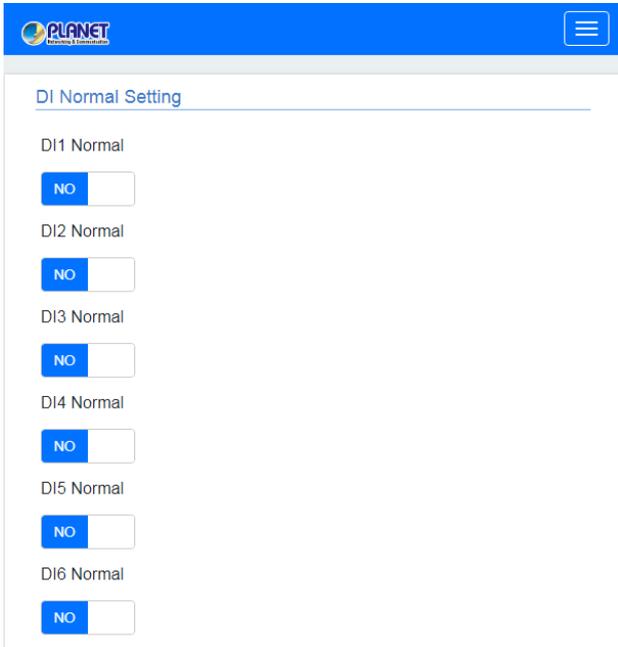
Input `'curl --anyauth "http://admin:admin@192.168.0.253:5000/scenepost.html?fun=execute&id=3" &'`.  
If you have changed the password, make sure the new password is correctly typed.  
Click Save when finished.



3\* Scene control  
(HAC-1000 Z-Wave Gateway is required)

## Security>DI Setting

The VTS-700P provides DI1 to DI6 for NC (normal close) and NO (normal open) setting. Click Save when finished.



DI Normal Setting

DI1 Normal  
 NO

DI2 Normal  
 NO

DI3 Normal  
 NO

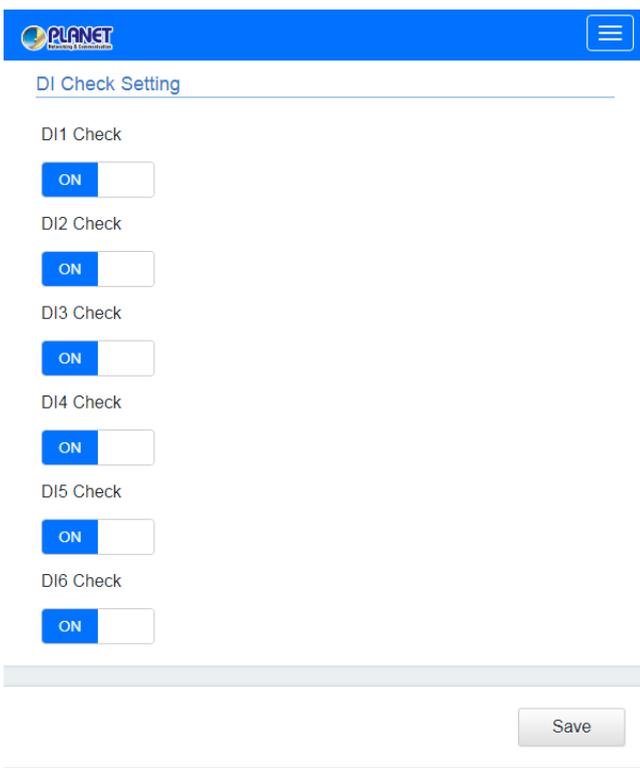
DI4 Normal  
 NO

DI5 Normal  
 NO

DI6 Normal  
 NO

## Security>DI Check Setting

In Security mode, DI1 to DI4 can be set to check and trigger alarm. DI5 and DI6 are for emergency event; system will send notification when alarm is triggered. Click Save when finished.



DI Check Setting

DI1 Check  
 ON

DI2 Check  
 ON

DI3 Check  
 ON

DI4 Check  
 ON

DI5 Check  
 ON

DI6 Check  
 ON

Save

## 4.5 Intercom

### Intercom>SIP Basic Setting

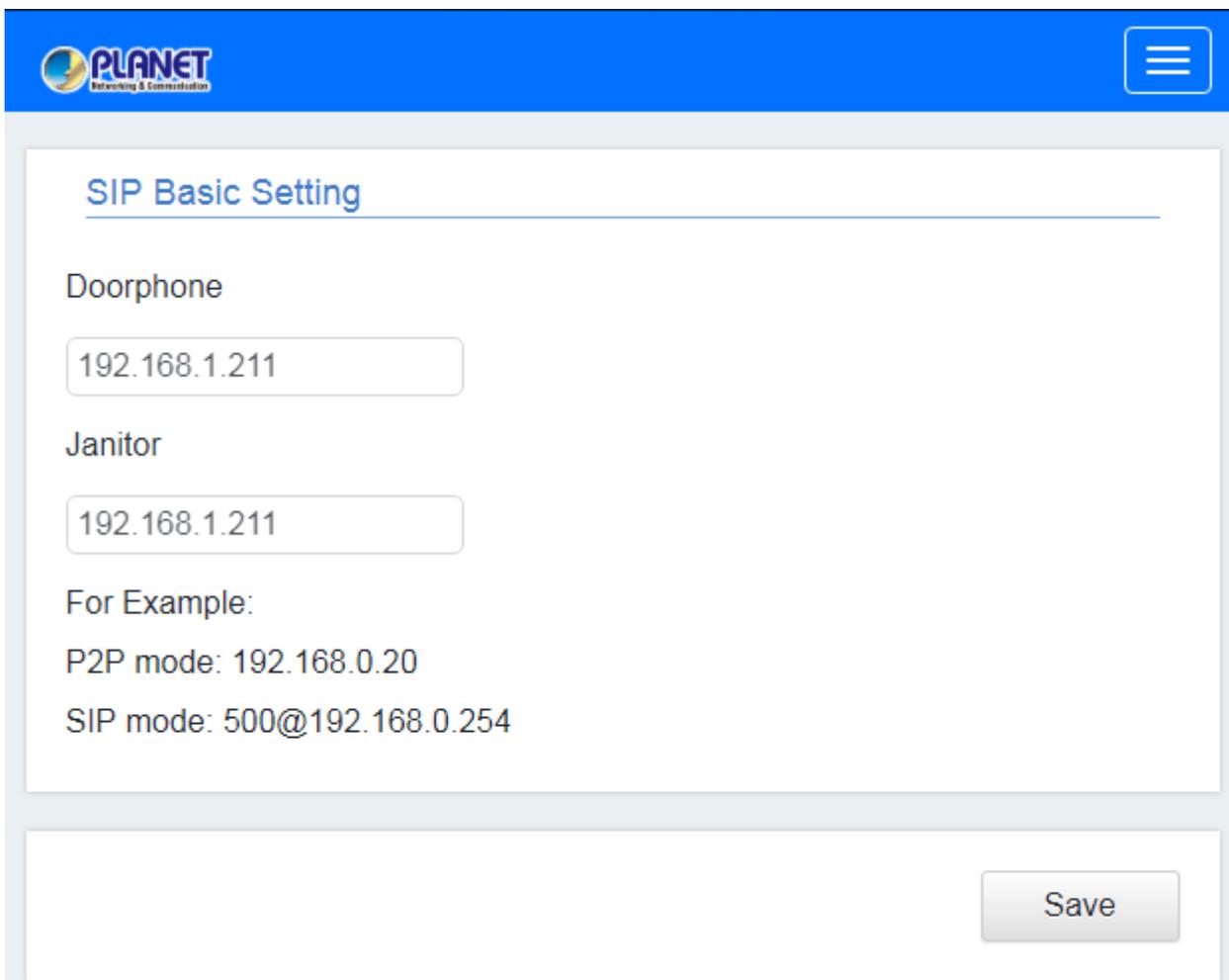
#### Door Phone

1. P2P mode: type in Door Phone IP address (for example, HDP-1100PT)
2. SIP register mode: type in Door Phone subscriber number (SIP ID@IP PBX IP address).

#### Janitor

1. P2P mode: type in Video Phone IP address (for example, ICF-1800)
2. SIP register mode: type in Video Phone subscriber number (SIP ID@IP PBX IP address).

Click Save when finished.



The screenshot shows a web interface for configuring SIP settings. At the top left is the PLANET logo. At the top right is a hamburger menu icon. The main content area is titled "SIP Basic Setting" and contains two sections: "Doorphone" and "Janitor". Each section has a text input field containing the IP address "192.168.1.211". Below these fields, there is an example section with the text "For Example:", "P2P mode: 192.168.0.20", and "SIP mode: 500@192.168.0.254". At the bottom right of the form is a "Save" button.

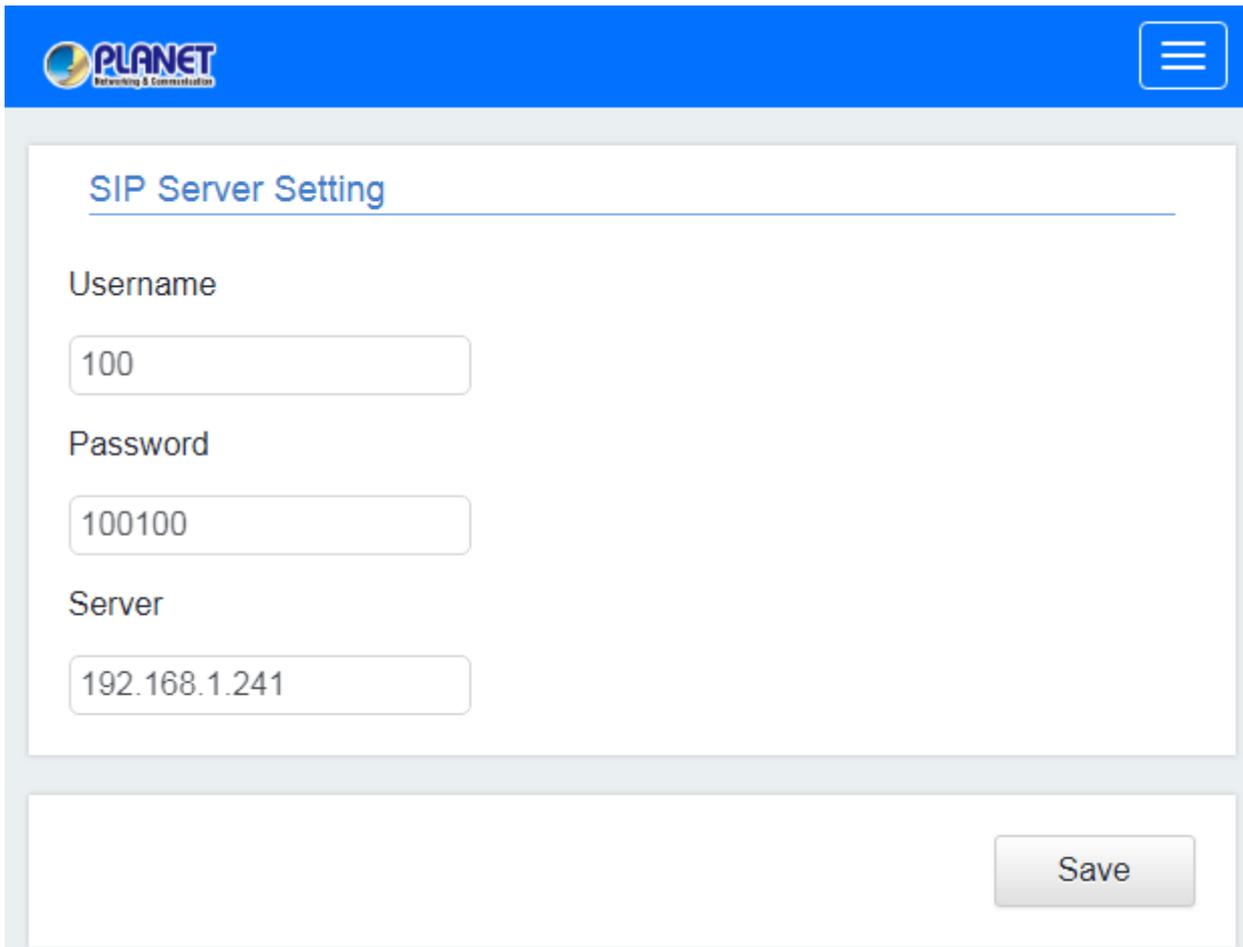
## Intercom>SIP Server Setting

Username: subscriber number

Password: type in password

Server: IP address of SIP server (For example, IPX-2100)

Click Save when finished.

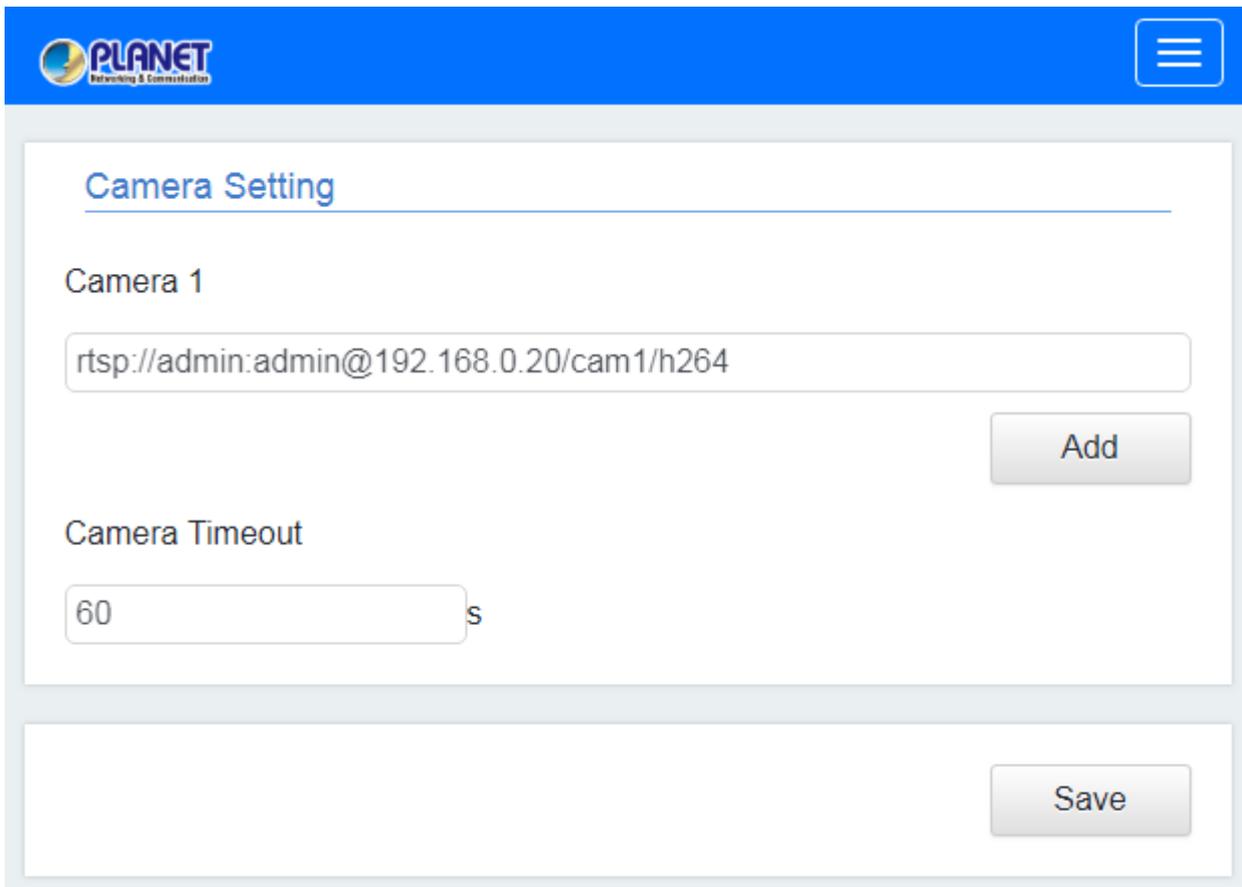


The screenshot shows a web interface for configuring SIP server settings. At the top, there is a blue header with the PLANET logo on the left and a hamburger menu icon on the right. Below the header, the page title "SIP Server Setting" is displayed. The main content area contains three input fields: "Username" with the value "100", "Password" with the value "100100", and "Server" with the value "192.168.1.241". At the bottom right of the form, there is a "Save" button.

## Intercom>Camera Setting

User can add up to 4 IP cameras by typing camera IP address (For example, ICA-3250/4250 or HDP-1100PT).  
Camera Timeout: Set up the time to watch camera.

Click Save when finished.



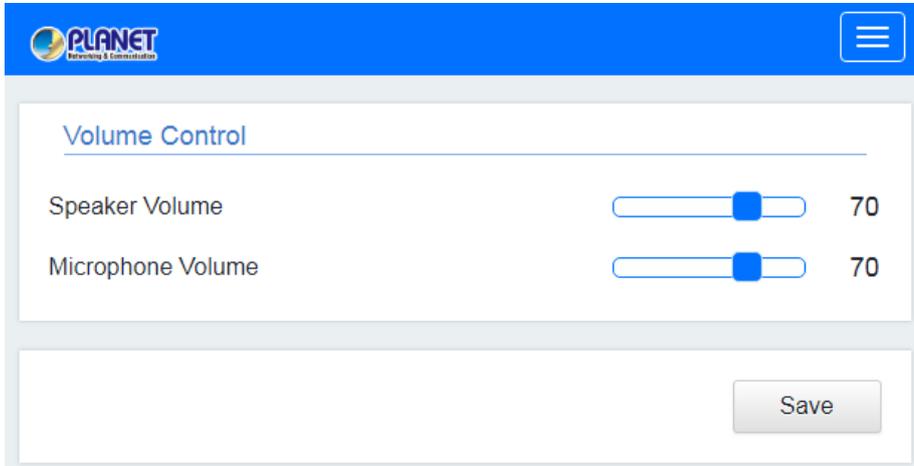
The screenshot shows the 'Camera Setting' web interface. At the top left is the PLANET logo. At the top right is a menu icon. The main content area is titled 'Camera Setting' and contains the following elements:

- Camera 1**: A text input field containing the URL `rtsp://admin:admin@192.168.0.20/cam1/h264`. To the right of the field is an 'Add' button.
- Camera Timeout**: A text input field containing the value '60', followed by a small 's' indicating seconds.
- At the bottom right of the interface is a 'Save' button.

## Intercom>Volume Control

Adjust the volume of the VTS-700P.

Click Save when finished.



The screenshot shows a web interface for volume control. At the top left is the PLANET logo. At the top right is a menu icon. The main content area is titled "Volume Control" and contains two sliders: "Speaker Volume" and "Microphone Volume", both set to 70. A "Save" button is located at the bottom right of the interface.

## 4.6 System

### System>Network

Boot Protocol:

1. DHCP
2. Static: need to type in detailed IP address

Click Save when finished.

Reboot.



---

Network

**The system needs to be reboot after modify the following data:**

Boot Protocol  DHCP  Static

IP Address  .  .  .

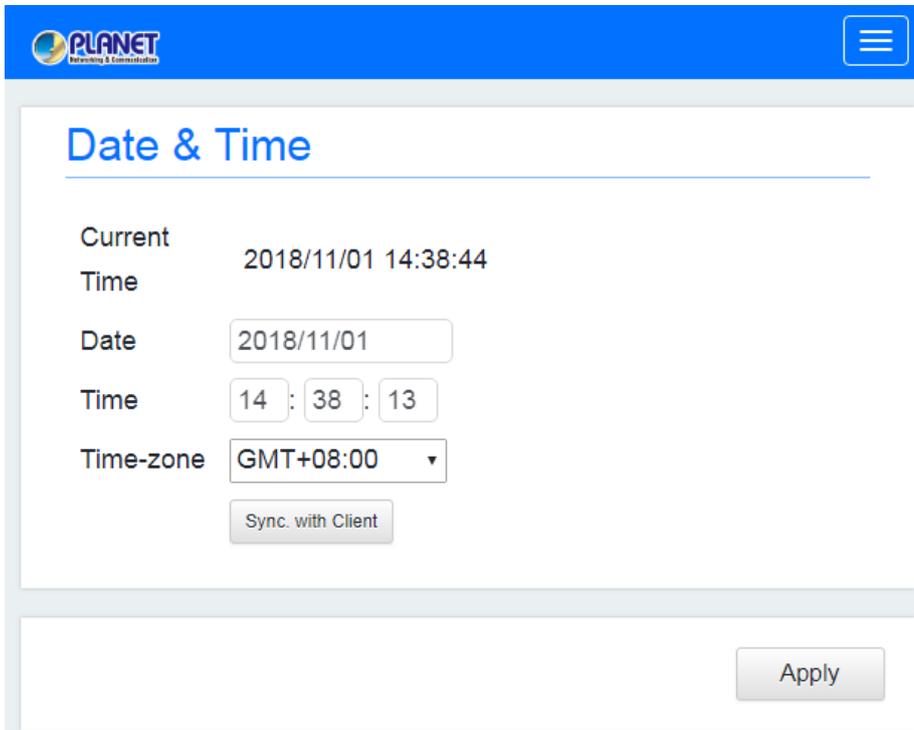
Mask  .  .  .

Gateway  .  .  .

DNS  .  .  .

## System>Date & Time

You may set the Time Zone and may manually configure the system time.



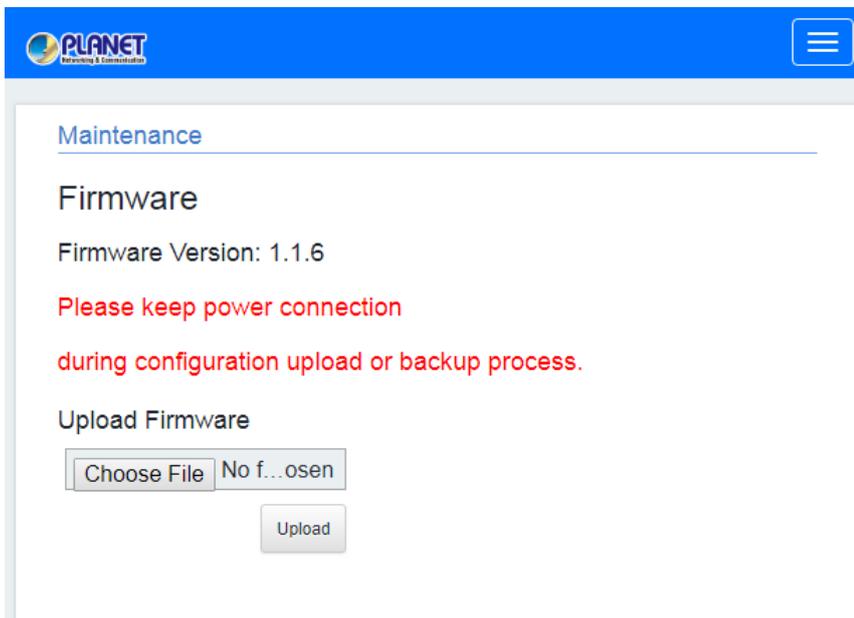
The screenshot shows the 'Date & Time' configuration page. At the top left is the PLANET logo and at the top right is a menu icon. The page title is 'Date & Time'. Below the title, the 'Current Time' is displayed as '2018/11/01 14:38:44'. There are input fields for 'Date' (2018/11/01), 'Time' (14 : 38 : 13), and 'Time-zone' (GMT+08:00). A 'Sync. with Client' button is located below the time-zone field. At the bottom right of the page is an 'Apply' button.

## System>Maintenance

When user gets the latest firmware from Planet website, user can upload the file to update.

Click Upload when finished.

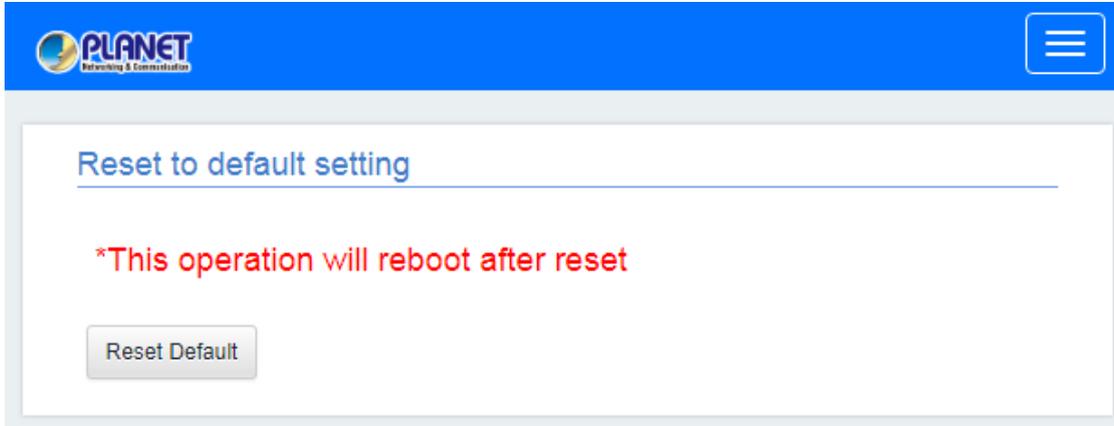
Keep the power always on during processing. DO NOT turn off the power.



The screenshot shows the 'Maintenance' page. At the top left is the PLANET logo and at the top right is a menu icon. The page title is 'Maintenance'. Below the title, the 'Firmware' section shows 'Firmware Version: 1.1.6'. A red warning message reads: 'Please keep power connection during configuration upload or backup process.' Below this, the 'Upload Firmware' section contains a file selection button labeled 'Choose File' (with 'No files open' next to it) and an 'Upload' button.

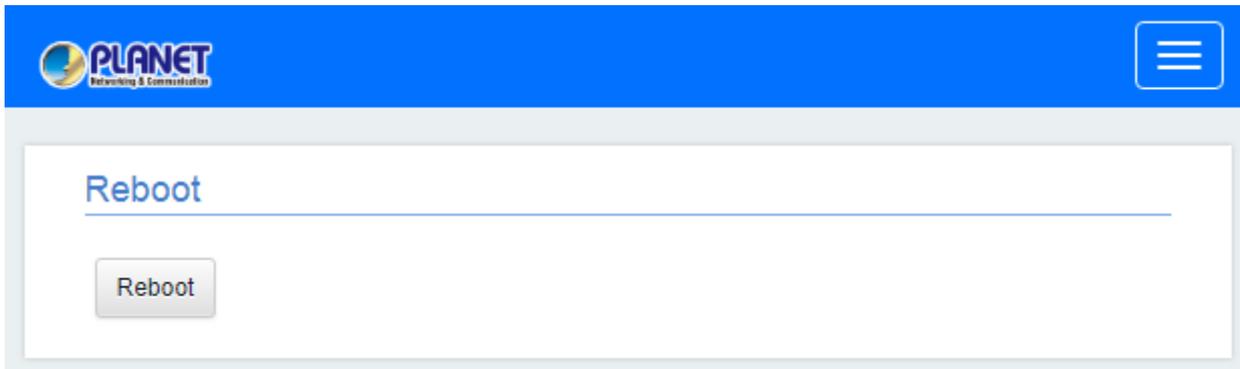
## System>Reset to Default Setting

Reset the VTS-700P by default from the web UI. With that, the network profiles will not be kept, so you will need to access the VTS-700P via the default IP.



## System>Reboot

By clicking on the **Reboot** button, your IPPBX from the web UI will be restarted



System>LCD Setting

For inactivity, user can set up either slideshow or screen off timer.  
Click Save when finished.

System>UI Setting

User can type the names for 4 DI and 4 scenes shown below. These names will be shown on the main page.  
Click Save when finished.

Four types of anti-theft monitoring screen



3\* Scene control  
(Z-Wave Gateway is required)