

# **IP Outdoor High Speed Dome**

**Ver. 070307**

## **Quick Installation Guide**

# 1

## Getting Started

### 1.1 PACKAGE CONTENTS

Outdoor High Speed Dome



Product CD



Power Adaptor (Option)



Power & A/V Cable



LAN/WAN Cable



Alarm Cable



5.4" Transparent Cover



Screws

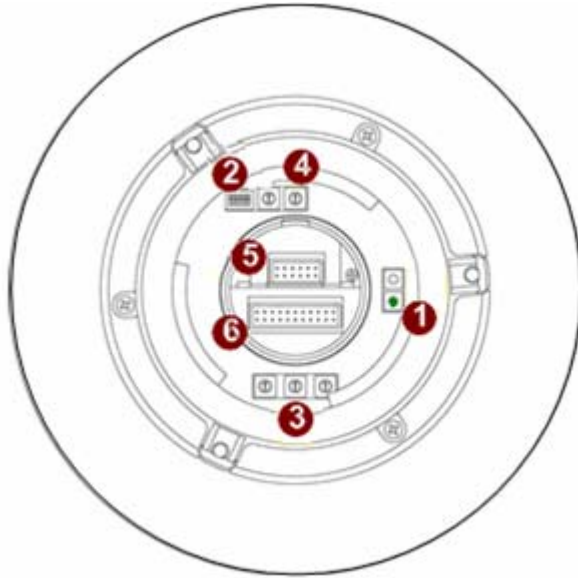


Lubricant



## 1.2 PHYSICAL DESCRIPTION

### Outdoor High Speed Dome Bottom



#### 1. Reset Button

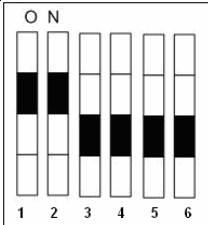
**Step 1:** Switch off IP camera by disconnecting the power cable

**Step 2:** Using a suitable pointed object, press and continue to hold the Reset Button depressed. While continuing to hold the reset button depressed, reconnect the power cable.

**Step 3:** Keep holding the reset button depressed around 6 seconds, release the reset button. The unit will start up with factory default settings.

#### 2. Communication Switch Setting

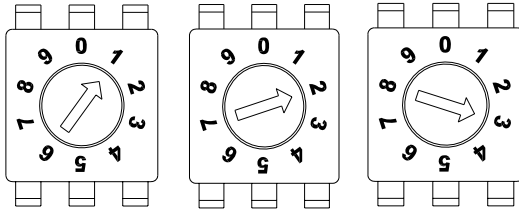
The table below shows the function of each pin within the Communication Switch.

Communication Switch	Pin 1	RS-232 Setting (Reserved)
	Pin 2	
	Pin 3	Termination
	Pin 4	Line Lock
	Pin 5	System Initialization (for upgrade)
	Pin 6	Reserved

RS-232 is reserved for internal use only; The Pin 3 and Pin 4, they are used for termination and Link Lock adjustment respectively. The Pin 5 is mainly used for return to factory default of camera setting.

#### 3. Dome ID Setting

Use the switch to change your speed dome ID by turning the arrow to the desired number respectively. For instance, if the speed dome ID is 123, the ID switch should be set as below:



centesimal                  decimal                  single digit



**NOTE:** No two speed domes should be given the same ID, or communication conflict may occur.



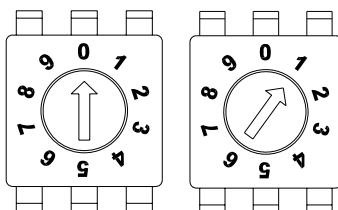
**NOTE:** The number “0” should locate upwards as shown in above diagram for correct switch definition.

#### 4. Dome Control Protocol

Protocol is a specific set of rules, procedures used for data communications. Basing on the protocol of your management software that you are going to use. Use the switch to set your dome control protocol and the baud rate. Refer to table below and turn the arrow to choose a protocol for your speed dome.

Switch No.	Protocol	Baud Rate
01	Pelco D	2400
02	Pelco P	4800
07	Dynacolor	9600
11	Pelco D	4800
12	Pelco D	9600
13	Pelco P	2400
14	Pelco P	9600

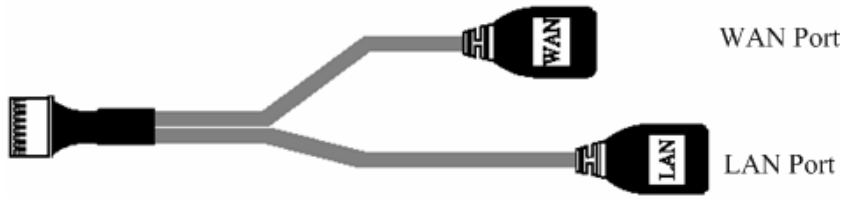
Select protocol: Pelco D, with switch no. 01 and baud rate 2400, for instance, the ID switch should be set as below:



decimal                  single digit

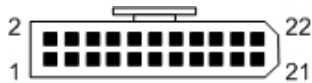
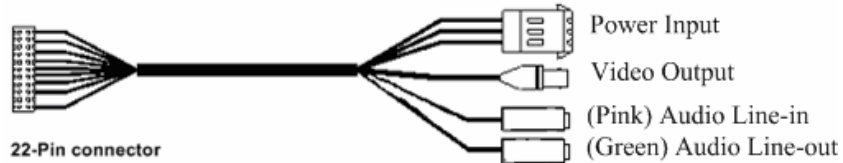
#### 5. 16 Pin Connector for LAN/WAN

The LAN/WAN cable (shown as the figure below) is shipped with IP high speed dome. Please find it in the accessory bag.



## 6. 22 Pin Connector

A 50cm data cable (shown as the figure below) is shipped with IP high speed dome. Please find it in the accessory bag.



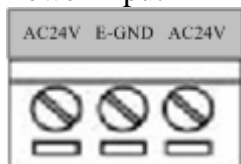
The 22-pin connector definition is listed as below.

No.	Pin	Cable
1	AC 24-1/DC GND	20AWG
2	Alarm Pin (Not wired)	
3	AC 24-2/DC 12(+)	20AWG
4	Alarm Pin (Not wired)	
5	FG	20AWG
6	Alarm Pin (Not wired)	
7	T+	24AWG
8	R-	
9	T-	
10	R+	
11~20	Alarm Pin (Not wired)	
21	VGND	24AWG
22	Video	



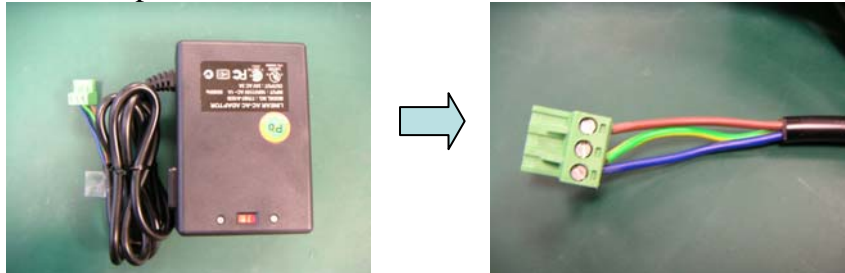
**NOTE:** For alarm connection, please refer to section [1.3 Cable Wiring](#).

Power Input



PIN	NAME	DESCRIPTION	Wiring Indication of Power Adapter
1	AC24V	AC 24V of Power Input	Brown
2	E-GND	E-Ground Pin of Power Input	Green/Yellow
3	AC24V	AC 24V of Power Input	Blue

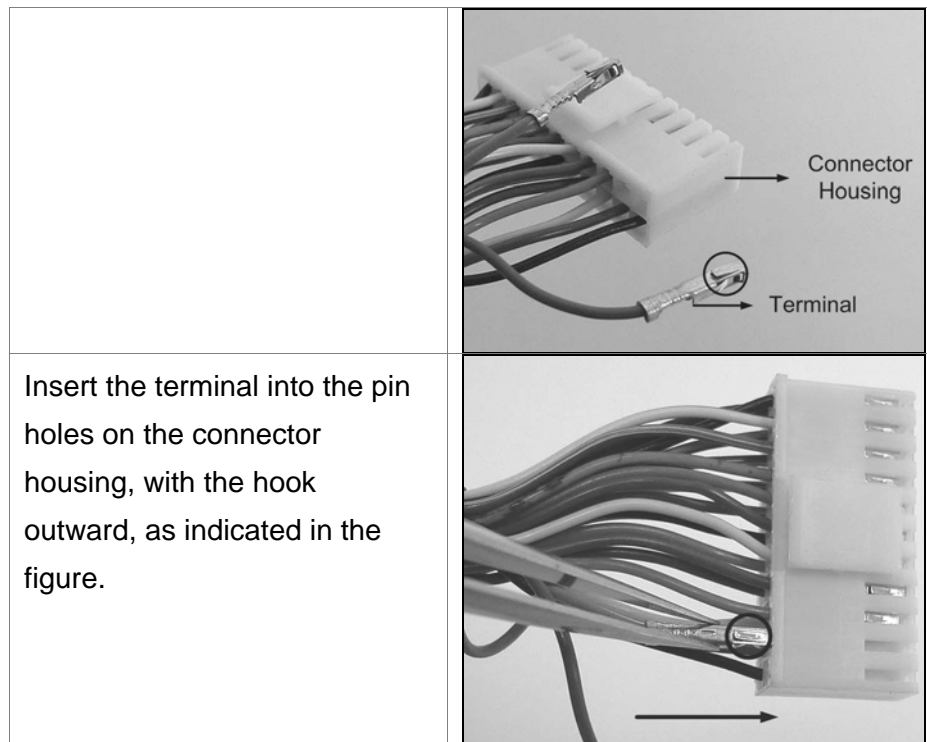
Power Adpater



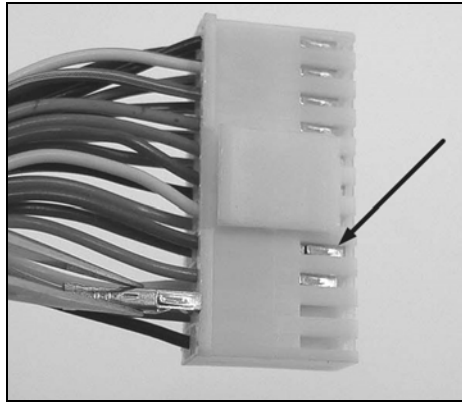
### 1.3 Cable Wiring

#### Cable Wiring and Connection

Users may need to do cable wiring when connecting alarm input and output devices. The table follows will illustrate the way to wire cords into the connector housing (shown in the figures below).

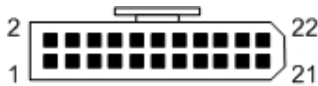


To unlock the terminal, press the hook, as indicated in the figure, with a proper tool and pull it out gently.



### Alarm Cable Wiring

The alarm pins are serviceable for connecting alarm input and output devices, such as alarm sensors, sirens or flashing lights with the surveillance system. The table shown as follows lists the definition of alarm pins on the 22-pin connector.



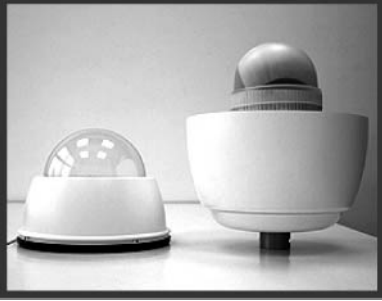



Pin	Definition
2	ALM NC
4	ALM NO
6	ALM COM
11	ISOG
12	ALM-1
13	ALM-3
14	ALM-2
15	ALM-4
16	ALM-5
17	ALM-6
18	ALM-7
19	ALM-8
20	ALM GND

## 1.4 IP High Speed Dome Setups





Before installing or connecting the speed dome camera, please refer to this section and complete preparation, switch setting and communication switch settings.

### 1.4.1: Preparations for Dome Setups

The section will illustrate the speed dome housing installation procedure of the outdoor speed dome equipped with sunshield. Please follow the steps below to complete speed dome housing installation.

<p><b>STEP 1</b></p> <p>Unpack the dome package and take out the dome body.</p>	 A black and white photograph showing two white dome camera housings. One is a smaller, dome-shaped unit with a lens, and the other is a larger, cylindrical base unit with a mounting bracket. They are placed on a light-colored surface.
<p><b>STEP 2</b></p> <p>Rotate the top holder and take it off from the dome body.</p>	 A close-up black and white photograph of a person's hands rotating a white, dome-shaped top holder. A black arrow points to the right, indicating the direction of rotation.
<p><b>STEP 3</b></p> <p>Set the dome on a flat table to keep it stable and then remove the protective cover and PE cloth.</p>	 A black and white photograph showing a person's hands lifting a white, dome-shaped protective cover off a cylindrical base unit. A black arrow points upwards, indicating the direction of removal.
<p><b>STEP 4</b></p> <p>Attach the dome cover to the dome body. Before doing that, apply some lubricant on the dome cover's water-proof rubber to make the installation process smoother.</p>	 A black and white photograph showing a person's hands applying a small amount of white lubricant from a tube onto the black rubber seal of a white dome cover. A black arrow points to the rubber seal.



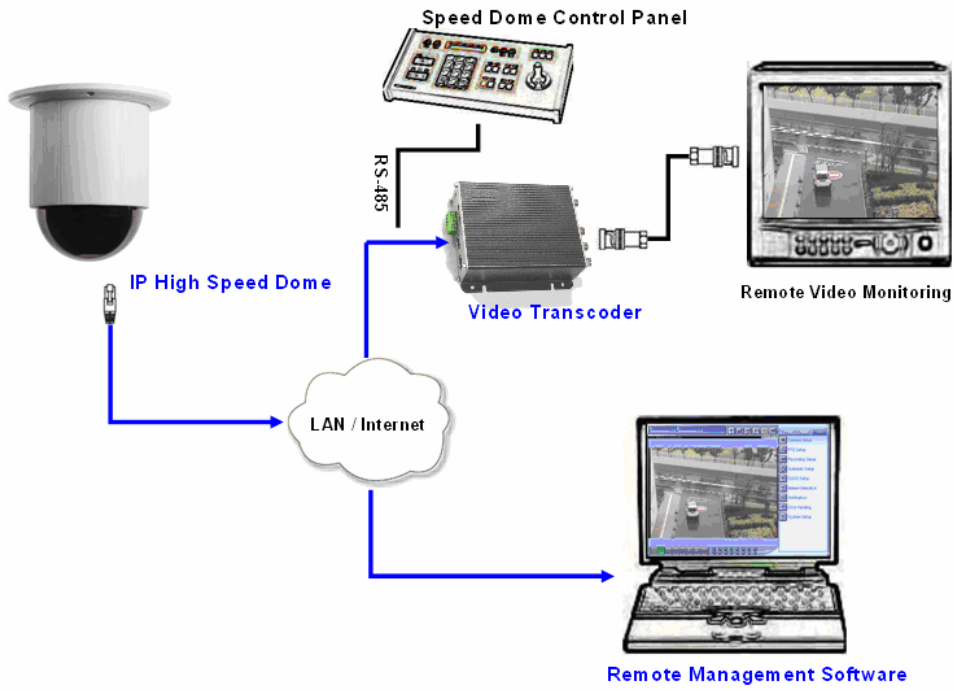
<p>Note that the tiny protrusion on the dome cover must align with one of the four holes on the dome body.</p>	
<p><b>STEP 5</b> Assemble the dome cover to the dome body by pressing the cover gently downward to the dome body with two hands on the side of the cover.</p>	
<p>DO NOT press the cover as shown in the figure; this might cause damage to the dome body.</p>	
<p><b>STEP 6</b> Screw the dome cover and body together.</p>	

#### 1.4.2: Dome Setups

Before connecting the speed dome camera to other devices of CCTV system, please complete the speed dome ID and communication switch settings. These switches are located on the bottom of the speed dome camera (refer to section [1.2 Physical Description](#)).

# 1.5 Basic Connections

Follow the procedures below to connect the IP high speed dome to the respective apparatuses.



# 2

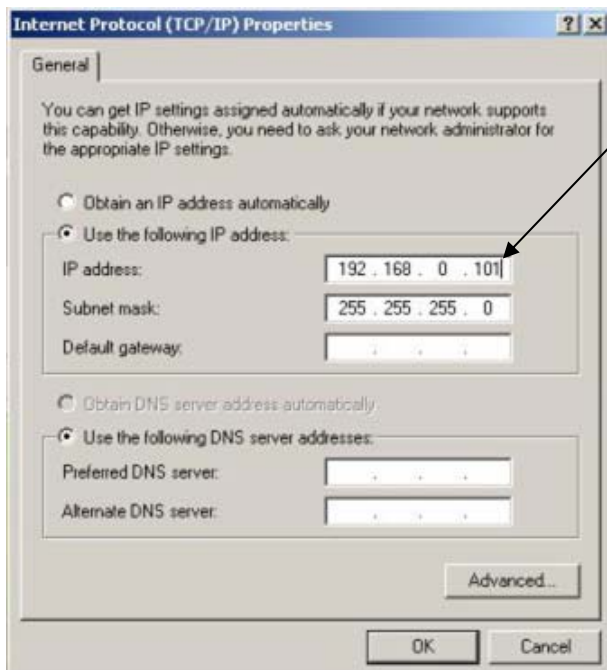
## Quick Tour

This section guides you with a quick tour on IP high speed dome.

### 2.1 Configure the IP High Speed Dome

#### 2.1.1 Make sure network environment

Default IP of IP high speed dome is 192.168.0.100. Please make sure IP high speed dome and your PC are on the same network segment before running the installation.

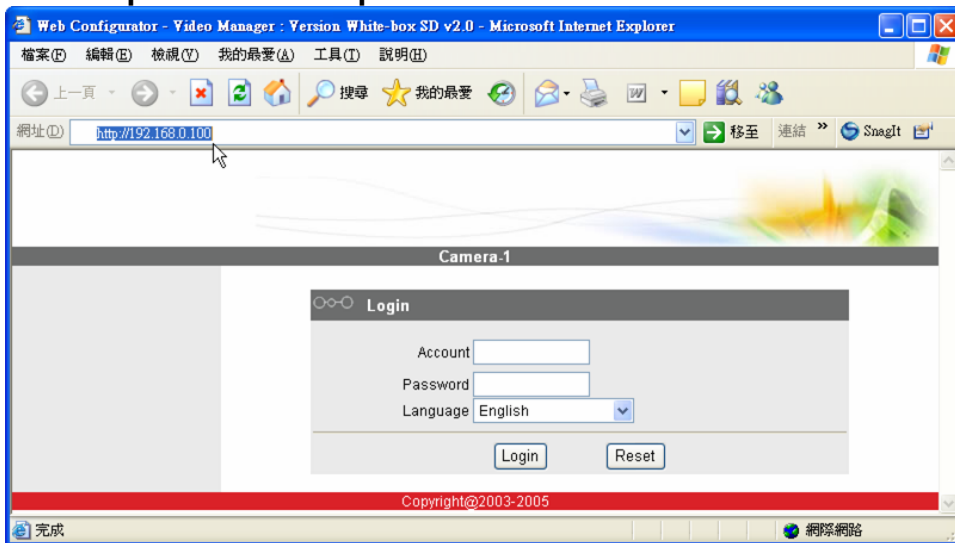


Please set the settings as below.

IP address: 192.168.0.xxx  
Subnet mask: 255.255.255.0

(NOTE: xxx should be a number from 1 to 254, but 100 is excepted.)

## 2.1.2 Open Internet Explorer with IP address



**NOTE:** If your web browser is earlier than IE6, then download IE6 is recommended.



**NOTE:** The IP high speed dome default IP address is set to **192.168.0.100**

## 2.1.3 Login with default administrator's account & password

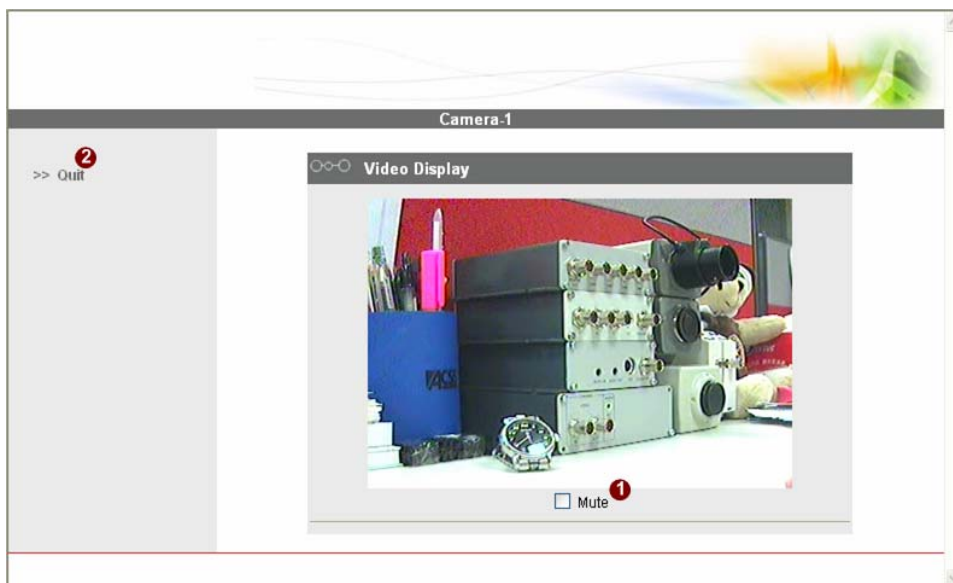


**NOTE:** Default administrator account is set to **Admin**, password is set to **123456**, and click **Login** button.

## 2.1.4 Preview the video



**NOTE:** In your Client PC, please make sure the setting of Network Connections Type is set to Auto Negotiation, since IP high speed dome follows MII standard. Otherwise, you might not see the live image.



## 2.15 Set the new IP address

The screenshot shows the 'Camera 1' web interface. On the left is a navigation menu with options like Video Display, Host Setting, WAN Setting, Date Setting, Video Setting, Video Adjust, User Account, System Info, Firmware, Factory Default, Save Reboot, and Logout. The main content area is divided into three sections: 'Host Setting', 'LAN Setting', and 'Network Link Speed & Duplex'. Red numbers 1-8 are placed over the interface to indicate key elements: 1 points to the Host Name text box; 2 points to the Language dropdown menu; 3 points to the Apply button in the Host Setting section; 4 points to the Reset button in the Host Setting section; 5 points to the IP Address text boxes (192, 168, 0, 100); 6 points to the Subnet Mask text boxes (255, 255, 255, 0); 7 points to the LAN Port dropdown menu; 8 points to the WAN Port dropdown menu. Each section also has its own Apply and Reset buttons.

\***Host Name** : Enter in the domain name.

\***Language** : Language setting for Web Configurator after Save Reboot. Default setting is English.

\***IP Address** : The IP address of the LAN interface. The default IP address is 192.168.0.100.

\***Subnet Mask** : The subnet mask of the LAN interface. The default subnet mask is 255.255.255.0

\***Click**  button



**NOTE:** Check with your MIS department, if Client PC and IP high speed dome are setting in different VLANs, please connect to WAN port.



**NOTE:** In your Client PC, please make sure the setting of Network Connections Type is set to Auto Negotiation, since IP high speed dome follows MII standard. Otherwise, you might not see the live image.



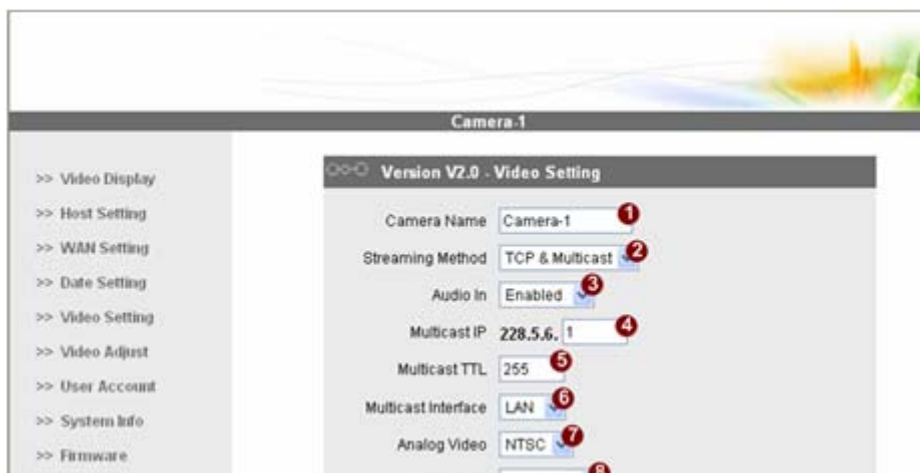
**IMPORTANT:** After the IP address is changed, please record this IP address. There is no way to connect to the IP high speed dome if user forgets the new IP address.

## 2.1.6 Check Default Video Setting



The streaming type [Version 1.0] – without audio function

The streaming type [Version 2.0] – with audio function



**NOTE:** Please make sure the TV Input (NTSC / PAL) is meet your requirement, and click **Apply** button.

**2.1.7** Click **Save Reboot** to restore all settings and please wait about 30 seconds for system reboot.