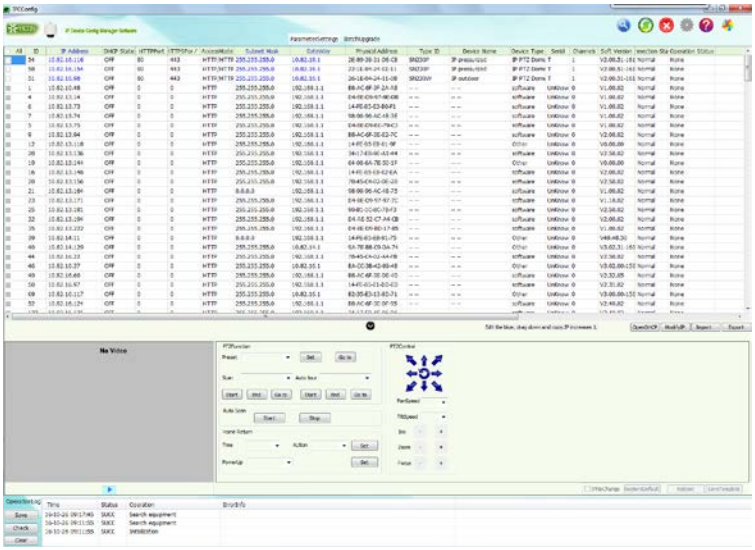
IP Device Search and Configuration Tool Operation Manual



Note

Copyright Statement

Trademarks

Table of Contents

Chapter I Overview

IP Device Search and Configuration Tool (also known as a Discovery Tool; hereinafter referred to as “the Tool”) is used for remote configuration and management of network devices. You can use the tool to search IP devices and make parameter settings and batch upgrade.

The software is compatible with Windows® XP up to Windows 10 operation systems. The camera supports Microsoft® Internet Explorer® 8.0 or above, however, IE 10 or above is required for full functionality, including the file upgrade function.

You may use the Tool to search, configure and upgrade the devices, but you cannot configure or upgrade offline devices.

Note: Depending on your computer and Windows version, some of these screens will be different but functionality will be similar.

1.1 Install Software

1. Double-click IPCConfig.exe application program to start the installation. It will lead you through the installation step by step.
2. First enter the welcome interface.

Figure 1-1

3. By clicking “Next”, it will prompt you to specify a destination location. The default folder is “C:\Program files\IPCConfig\Vicon”. Users can choose their own installation folder, but it is strongly recommended that you choose the default folder to accommodate the software.

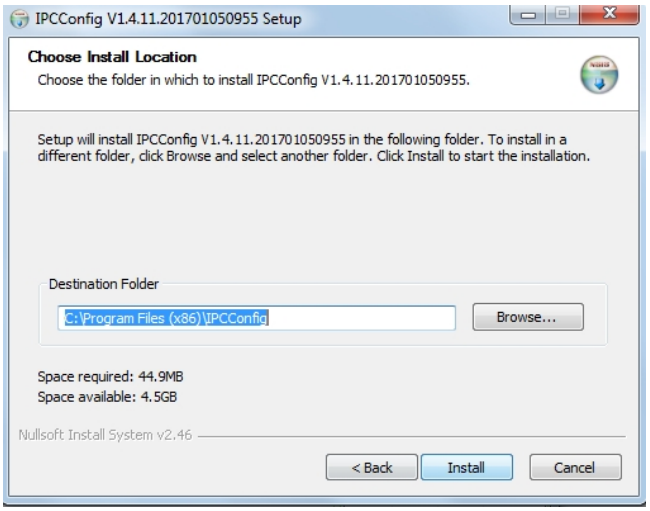


Figure 1-2

4. Click “Install”. A dialog box will display to install the WinPCap program.

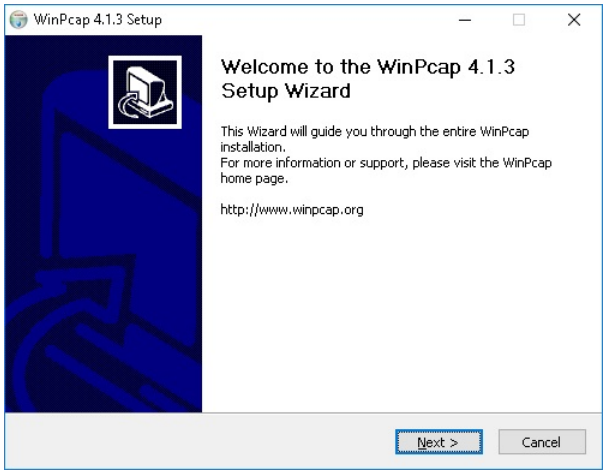


Figure 1-3

5. Click Next, Agree to the License Agreement and follow the prompts to complete the installation. Then the IPCConfig will install.

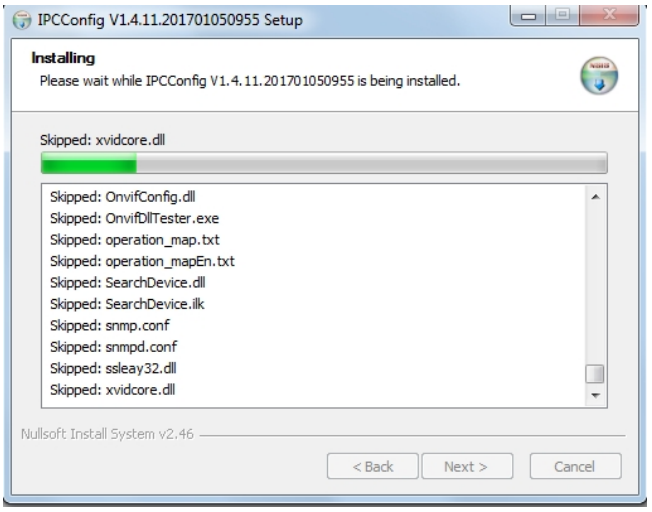


Figure 1-4

6. When the installation is finished the interface below will appear:

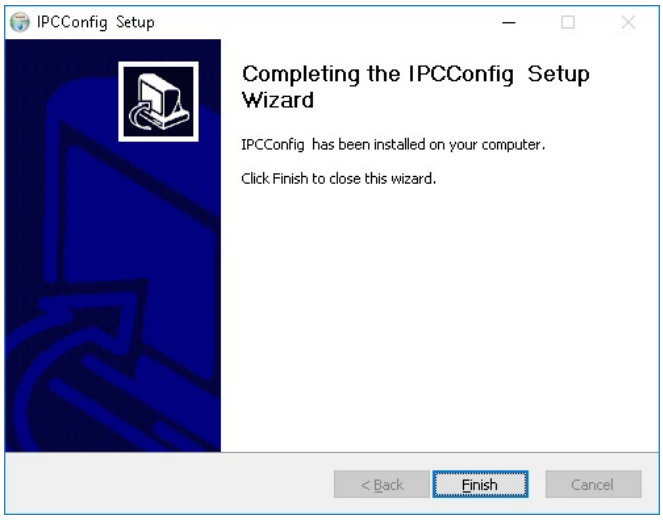


Figure 1-5

7. Click “Finish” to exit. An icon named “IPCConfig” will appear on the desktop and in the Program sub-menu “IPCConfig” of the start menu.

1.2 Uninstall Software

If it is necessary to remove the software from the PC, follow the directions below. Note that this will differ slightly, depending on the version of Windows.

1. Click the Start menu at the task bar of Windows, select “Control Panel” and double-click “Programs and Features.” Find and select the IPCConfig in the dialog box and click the “Remove/Change” button to remove the Software.
2. In the “Start”-“All Programs”-“IPCConfig” menu, click the submenu “Uninstall”; follow the prompts and remove the software. Do not simply delete the installation directories and folders.

1.3 Main Interface

Double click the shortcut 

on the desktop, and the main interface is displayed.

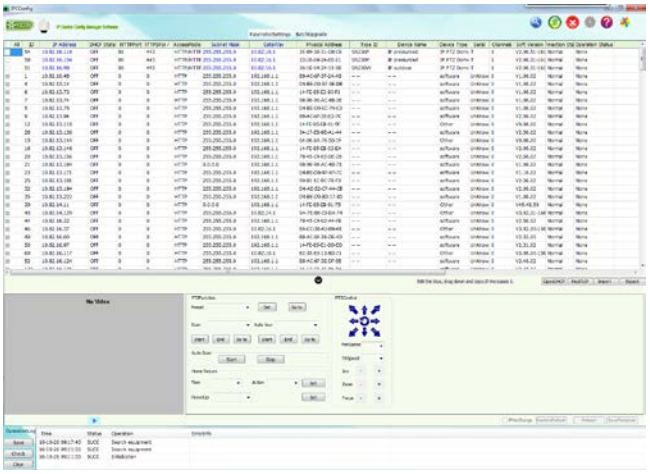


Figure 1-6

The IP devices within current network segment will be shown in the device list. Click  to unfold and  to fold the device parameter area.

By default, the system has DHCP enabled and an IP address will be assigned to each device in the list. If DHCP is not enabled on your network, or if a “Link Local Address” is required (an IP address generated by the camera), follow the directions in Chapter 2, Search for Device, or the Modify IP section in Chapter 3.

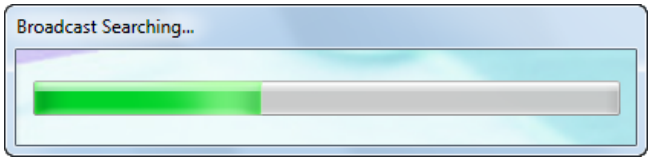
Note: If multiple Network Adapters are running on the computer and you have trouble connecting to or seeing the devices, temporarily disable all Network Adapters except for the one that the device is connected to.

The functionality of the various buttons on this interface, including searching for devices, opening a device web browser, enabling DHCP, changing an IP address, restoring defaults, PTZ functionality, upgrading files and changing the look of the interface, will be described in the chapters that follow.

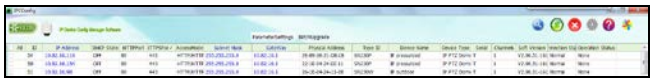
Chapter II Search Device

If there is no DHCP server on the network, the Link-Local (i.e., APIPA) address will show.

1. You may use the Tool to search devices by broadcast or by specifying IP segment. The default is search by broadcast. When the Tool is started, devices will be searched automatically.



2. When search is finished, the devices will be listed.
   You may view such device information as **IP Address**, **DHCP Status**, **HTTP/HTTPS Port**, **Subnet Mask**, **Gateway**, **Physical Address**, **Type ID**, **Device Name**, **Device Type**, **Serial**, **Channels**, **Software Version**, **Connection Status** and **Operation Status**.



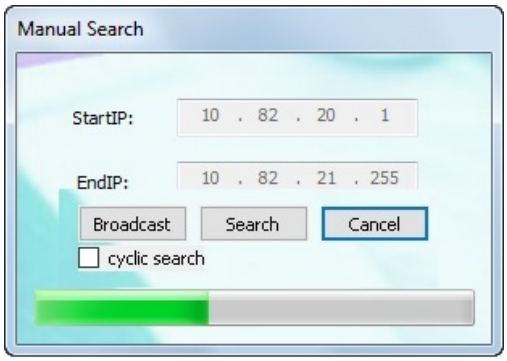
3. For search by broadcast and by specified IP segment, click the button to open pop up manual search dialog box. You can select the cyclic search checkbox to allow IPCConfig to continuously search for devices on line.

To search for devices on the Network:

Broadcast search: You don't need to enter an IP address. Just click **Broadcast**; the Tool will send a broadcast message, and devices in the LAN where the Tool is running will respond.

To search for devices outside of the Network:

Device search in specified IP segment: Enter a **Start IP** and an **End IP** (for example, 10.82.20.1~10.82.21.255); click **Search**. The Tool will search devices with IP addresses from the start IP address to the end IP address.



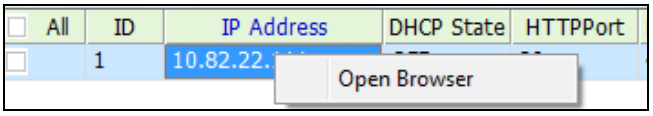
Difference between the two methods:

Broadcast search: The device network is the same as that of the computer where the software is running. The device can be found as long as the network cable is connected to the same LAN subnet. Value of the device IP and gateway is not restrained. Make sure the device is connected correctly.

Note: IP revision is only allowed for devices on the network, i.e., devices found by broadcast search. Refer to Section 3.2 for IP revision.

Device search in specified IP segment: Find devices that are outside the computer's network within the configured IP segment, connecting using TCP. The device will be found when the device information is returned. Make sure the device is connected correctly.

Open device web page: Select a device from the camera list, right click it to open the shortcut menu, and click **Open Browser** to open the device web page.

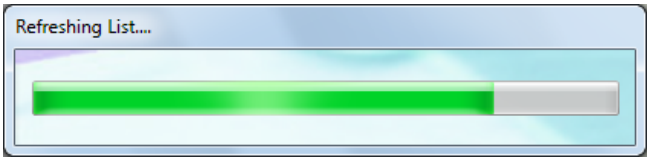


Import device: Click **Import** button, select local .xml file and import it to the device list. If the device was already in the list, the list will remain; otherwise the device will be added to the end of the list.

The added device is online if PING command can be executed on it successfully; otherwise it is offline.

Export device: Select a device from the device list, click **Export** button to export the device to .xml file and save the file locally.

Refresh device: Click button to research devices and refresh current device list.



Clear list: Click button to clear the list.

Chapter III Modify Device Parameters

3.1 Enable or Disable DHCP

The device list has a column “DHCP Status”. To turn DHCP On if it is “OFF”, select the device (or check it off in the list) to open the Login dialog box. Enter the user name and password and check “As All Device Default Login Parameter” if the same password is for all devices in the list. Then click “Open DHCP” to enable DHCP. When DHCP is enabled, IP addresses will be assigned automatically. If DHCP is enabled, the PC must be in the same subnet as the devices.

If there is no DHCP server on the network, the Link-Local (i.e., APIPA) address will show.

3.2 Modify IP

You can modify the IP address, subnet mask and gateway of devices.

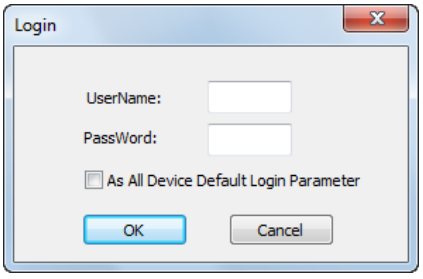
Note: When you modify IP addresses, broadcast messages will be sent. Therefore, you can only modify devices that are in the same network segment as that of the computer running the Tool.

You can also modify the IP addresses of offline (i.e., unreachable) devices within a LAN. (Note: If the IP address of a device with DHCP status “ON” and there is no DHCP server, the Link Local Address will show as connection status “Unreachable”.) If the IP address after modification and the computer’s IP address are within the same network segment, the device status will be refreshed to “Normal” (i.e., online).

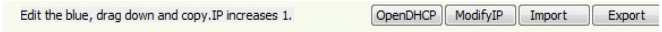
Modify Device IP

(1) In **Parameter Settings** page, click the device and enter correct user name and password in the Login dialog box to get video and parameters.

Note: You may check “**As All Device Default Login Parameter**” to set the present password as the login password of all devices. Note this is checked by default.



Only the text in blue is editable in the browser. Select Edit the blue to make changes.

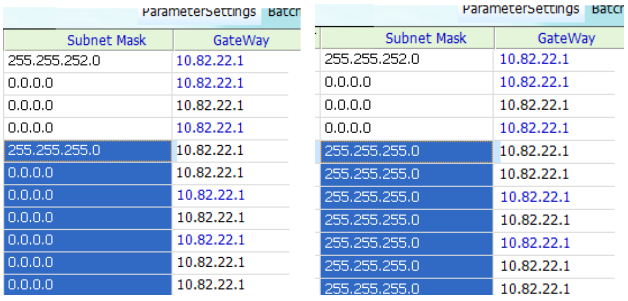


(2) Double click the content to be modified and the textbox will become editable for you to make modification.

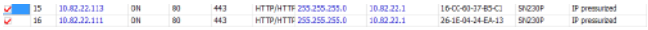
In the device list, you can modify the IP addresses of multiple devices; click a reference item, drag downwards, and then release, so that IP address values will increase progressively by 1.

In the device list, you can quickly modify the gateways and subnet masks of multiple devices; click a reference item, drag downwards, and then release, to apply the same setting to several devices.

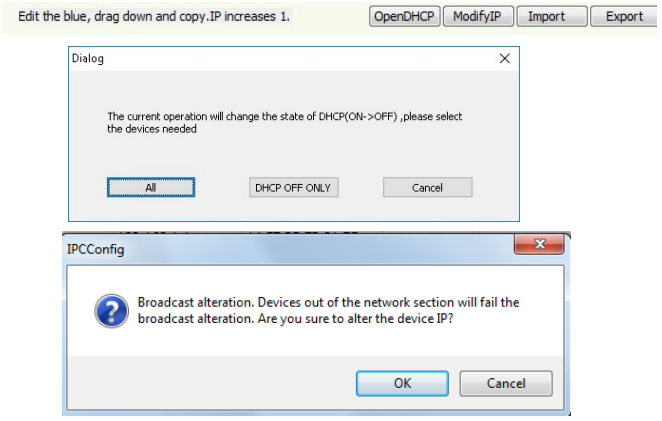
Note: Another way to make modifications to multiple devices is to select a reference item, and click shortcut keys Ctrl+c (copy) and then Ctrl+v (paste).



(3) After editing, click the checkbox on the left of the device line.



(4) Click “**Modify IP**” at the bottom right to pop up confirmation dialog box.



Notes:

When you select one or more devices and click **Modify IP** and the DHCP status of any one of the device is “ON”, the system will prompt “Current operation will change DHCP status (ON>OFF)” and you are requested to choose one of the following three modification method:

1. DHCP OFF ONLY: Only modify the IP addresses of devices with DHCP disabled;
2. All: Modify the IP addresses of all selected devices (regardless of DHCP status);
3. Cancel (i.e., do not modify IP addresses).

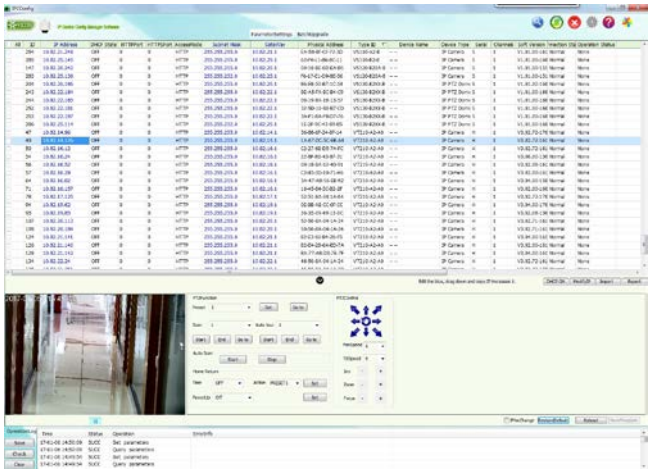
(5) Select **OK**, and then the progress bar will be shown. During this process, do not perform other operations.

(6) After modification is finished, the operation and connection status of the devices will be refreshed automatically. User may also click to refresh device status.

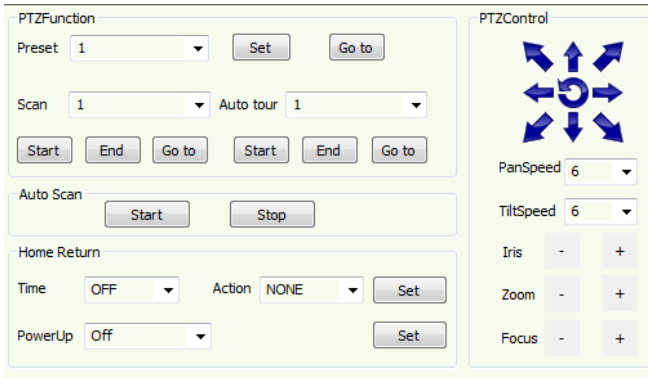
Connection Status	Operation Status
Normal	None
Normal	None
Normal	None
Normal	Success
Normal	None
Normal	None
Normal	None
Normal	None

3.3 Parameter Settings

(1) Select a device. In the prompted login dialog box, enter correct user name and password to obtain device parameters. The operation result will be shown in the operation log area.

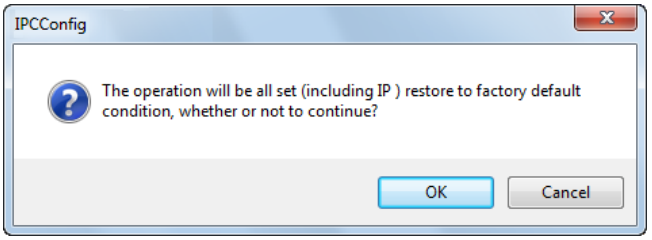


(2) In PTZ function area, basic PTZ functions can be set and controlled. Presets, scan and auto tour, start/stop auto scan, set home return can be set and called. After modification, click **Set** to save.



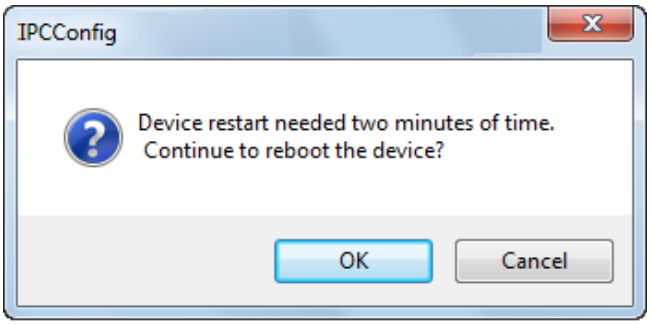
Note: At the bottom section of the interface there is an Operation log. If a fixed camera is selected, a FAIL message may appear for the PTZ operations. This is normal and not a camera failure.

Restore default: You may restore devices to the factory defaults. Just click **Restore Default** to pop up a dialog box, and click **OK**. The device will become offline.



Note: Check “IP no change” on the Restore Defaults, if you want the IP address to remain after the device is restored to defaults. Otherwise, the IP address will also be recovered to the default.

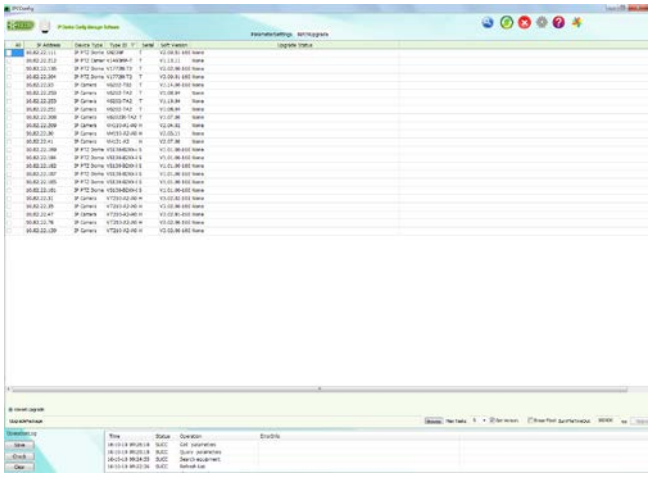
Reboot device: Click **Reboot** to pop up a dialog box, and click **OK** to reboot the device. The reboot takes about 2 minutes.



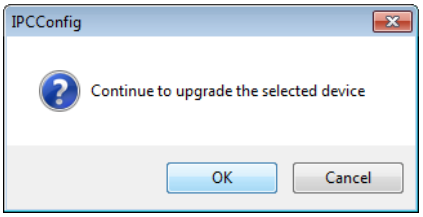
Chapter IV Batch Upgrade

You may select and upgrade the firmware of any or all of the cameras; the system will automatically upgrade them, 5 devices at a time, until completed. You may choose to upgrade them to a higher version or downgrade to a lower one.

(1) Click **Browse** to select an upgrade package. Select the .bin file.



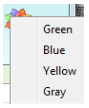
(2) In the prompted dialog box, all device types supported by the package are listed. Select a type and all devices of this type will be chosen automatically.



(3) To obtain the version number after upgrade, you may check **Obtain Version NO**. It is selected by default.
(4) Click **OK** to start upgrade.
(5) During upgrade, do not perform other operations or turn off power to the camera.
(6) After upgrade is completed, upgrade status will be displayed in the list.

Chapter V Others

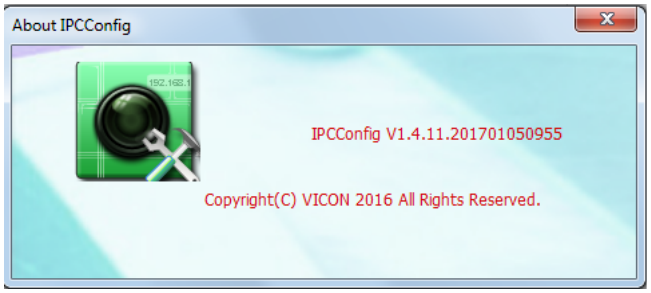
5.1 Change Skin

To change the skin color of the Tool, click  at the upper right corner to open the dropdown box 

and then select a color.

5.2 Copyright Information

To view the logo, version and copyright information of the software, click  at the upper right corner to pop up the **About** dialog box.



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