



IP Camera  
Management Software  
**IP TOOL**

# **User's Manual**

(EN Rev 1.1)

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# **IP TOOL**

## **Installation and Operation Manual**

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This user guide is explaining usage of IP TOOL.

Please be informed of this user guide before use of the product.

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**Contents of this manual could be different based on software upgrade and product design along with specification can be subject to be changed without any pre-notice to users.**

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# Product Overview

## Basic Information

IP TOOL is a control software that can check condition and change setting of IP Camera installed in remote locations. IP TOOL makes it easy to discover cameras, change IP addresses, restart the cameras, export/import settings, change the settings(via Webviewer), firmware upgrade, IP address change of all cameras, activation and so on.

If there is a problem with the camera, you can reboot the camera using camera restart function, also you can change the settings (video, time setting, etc.) of a number of cameras by means of import setting function from remote.

The IP change feature allows you to change the camera's IP Address, Gateway, Netmask, DNS, and Port to any value you want, and the IP batch change function makes it easy to assign the values sequentially from the user-set value.

The reset password (reset password with authentication key) function allows you to change the password of the camera to the initial value, and you can make camera inactive for some camera models. (see table below)

Also, you can activate the inactivated camera with IP TOOL. For activation, new password assign is necessary, and some camera models (see table below) can set questions and answers that will be used to reset passwords.

Through VLC player, you can monitor the live video from a camera you choose, you can perform firmware upgrade without having to access the camera's web page. Also, you can open camera's web page by clicking Go to settings button and you can proceed with the desired action.

Through the Save camera list function, it provides the ability to save brief information of all discovered cameras as an Excel file.

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# Main Features

## Change settings and initialization

This program allows you to perform a brief setup of your camera (Stream, Time, ISP) without accessing the web page. It can be applied not only to one camera but also to two or more cameras. Also, it supports initialization, which allows you to change all settings on the camera to their initial values.

- ✓ **Stream setting**
  - Encoding Type
  - Profile
  - Resolution
  - FPS
  - Bitrate/Bitrate control
  - GoP(IDR)
- ✓ **Time setting**
  - SNTP
  - Get PC time
- ✓ **ISP setting**
  - Day&Night
  - Flame

## IP and Port Change

Supports the ability to change the camera's IP Address and Gateway, Netmask, DNS1, DNS2, and Port settings. Activation of dynamic IP address(DHCP) also enables automatic assignment of currently available IP address. Supports the ability to assign IP address for multiple cameras sequentially using IP batch changes.

- ✓ Dynamic IP address (DHCP) support
- ✓ IP Address, Gateway, Netmask, DNS Change
- ✓ Port Change

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# Installation

## System Requirements

Items	Recommended
OS	Windows 10(x64) 2004 or higher

## Notice before installation

IP TOOL is optimized for IPTOOL Windows 10(x64) 2004 operating system.  
You should always keep Windows up to date and install a vaccine program to prevent viruses and malware that affect your system operations.

<Caution>

1.

1. The PC user who has no permission to set the path to the folder that cannot write.

2.

In order to avoid a conflict with the program that is used in the PC, close all programs that are running and encouraged to proceed with the installation.

## Installation Program

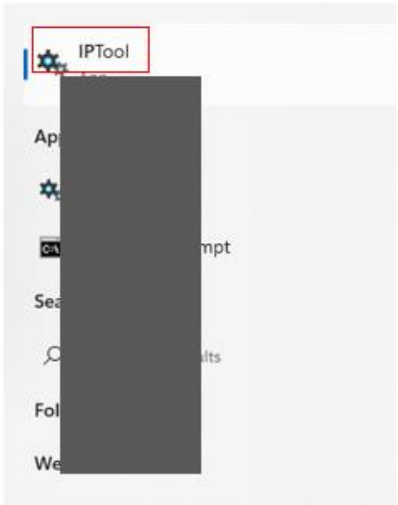
### Installation

Install IPTOOL by running the installer Nk5Uwp\_1.2.x.x\_x64.msix on the local PC.  
If the existing IPTool 1.0.x version is installed on the PC, delete IPTool 1.0.x and install Nk5Uwp\_1.2.x.x\_x64.msix.

### To verify the results of the installation

To check whether IP TOOL installed in properly after completed the installation.

- 1) Windows icon → All Programs
- 2) If IPTOOL is properly installed, 'IPTool' shortcut will be created.



# Getting Started

※ It is recommended that you always keep the camera firmware up to date.

## Discover cameras

If you execute the IPTool, IP cameras connected to your network will be listed. Click 'Refresh' to refresh the list of IP cameras.

## Activation

If you click 'Activate' button after selecting an Inactivated camera, a window will pop up where you can set the camera's user ID and password. After entering the User ID and password, click 'start' button to complete the activation.

\* More than two cameras can be set simultaneously

Discovered Cameras 59

admin Password  ☐ Show Password

Refresh **Activate** Reboot Change IP Export Import Web Site FW Upgrade

IP Address	Activation	Model	HTTP	Mac Address	Serial	FW Version	HW Version	DHCP
192.168.108.50	Activated	NK5100D-IR30-AF	80	00:30:A1:11:12:14	NK5100_v2.0_xx1	1.2.0a	2.1	OFF
192.168.108.52	Inactivated	NK5100BL-IR-550AF	77			3.3.0fire	2.1	OFF
192.168.109.101	Activated	N2KA-V06-AF	830			1.4.0	2.1	OFF

**Activate**  
User ID   
Password   
Confirm Password   
The password must be at least 9 characters and must be a combination of at least 3 of uppercase letters, lowercase letters, numbers and special characters.  
Start Close

## Camere rebooting

Enter user ID, password and select a camera from the list, then click 'Reboot' to reboot the selected camera.

\* It can be applied to more than two cameras simultaneously.

## IP change

Enter user ID, password and select the camera you want to change from the list, then click 'Change IP' to launch a pop-up window. Enter the IP address you want to change and click 'Start' button to change IP.

\* It can be applied to more than two cameras simultaneously.

Discovered Cameras 59

admin Password  ☐ Show Password

Refresh Activate Reboot **Change IP** Export Import Web Site FW Upgrade

IP Address	Activation	Model	HTTP	Mac Address	Serial	FW Version	HW Version	DHCP
192.168.108.50	Activated	NK5100D-IR30-AF	80	00:30:A1:11:12:14	NK5100_v2.0_xx1	1.2.0a	2.1	OFF
192.168.108.52	Activated	NK5100BL-IR-550AF	77			3.3.0fire	2.1	OFF
192.168.109.101	Activated	N2KA-V06-AF	830			1.4.0	2.1	OFF

**Change IP Address**  
DHCP ☐ Off ☒ On  
Change IP Address ☒  
(First)IP Address   
increases the last digit of the IP address by 1 and applies it to the selected cameras. example)  
192.168.0.100(First IP Address)  
192.168.0.11  
192.168.0.12  
192.168.0.13  
192.168.0.14  
192.168.0.15  
192.168.0.16  
Subnet Mask   
Gateway Address   
DNS   
Change Port ☒ On ☐ Off  
80  
Start Cancel

<Caution>

1. To use IP batch change function, start IP, Gateway, Netmask, DNS values should be entered in advance.
2. IP address incremented by one from the specified IP will be automatically designated to each camera.

## Camera Setting Export

You can back up camera's video (stream) settings, camera settings (ISP), and time settings to one file(.json)

1. Enter ID, password and select the camera which you want to back up settings.
2. Click 'Export' button, then specify the path to save the setting file and click the 'Save(S)' button.
3. Check that the backup file (.json) was successfully created in the specified path.

\* Use one camera at a time

Name	Date modified	Type
 New Document.json	6/29/2022 2:46 PM	JSON

<Note>

When exporting settings, all of the settings below are backed up.

- ✓ Video Setting - Encoding Type, Profile, Resolution, FPS, Bitrate/Bitrate control, GoP(IDR)
- ✓ Time/DST Setting - TIME(NTP/Get PC time/Manually), DST(OFF/ON - auto/manual)
- ✓ Camera Setting - Day&Night Mode, Flame

## Import Camera Settings

You can change the camera settings by importing the backup file.

\* It can be applied to more than two cameras simultaneously.

1. Enter ID, password and select the camera which you want to apply backup file.
2. Click 'Import' button, then select the backup file(.json)

## Web Site

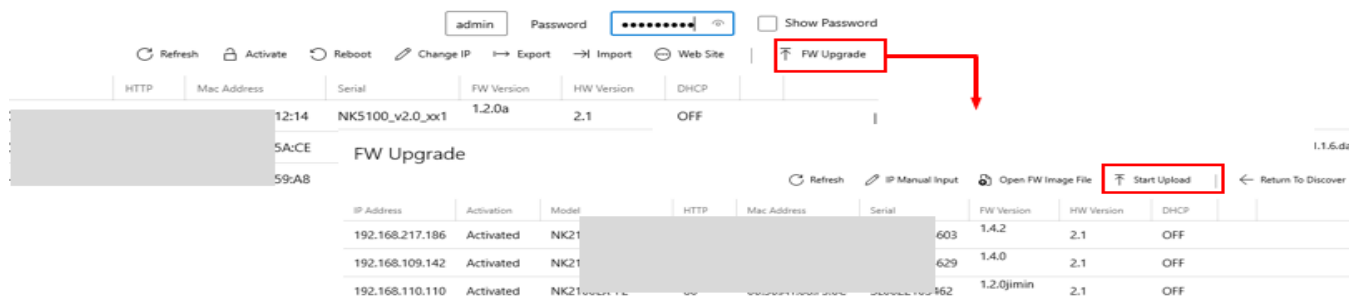
Select a camera from the list, then click the 'Web Site' button to launch the web browser and you can get the Webviewer of the selected camera. (Login Required)

\* Use one camera at a time

## FW Upgrade

1. Enter User ID and password.
2. Click 'FW Upgrade' button.
3. Click 'FW Image File Open' button.
4. Select the FW file (\*.x.x.dat), then click 'Open(O)'.
5. The camera that can be upgraded by the selected FW is automatically displayed.
6. Select the camera which you want to upgrade from the list, then click 'Start Upload' button.
7. Please wait for the upgrade to complete.

\* It can be applied to more than two cameras simultaneously.



IP Address	Activation	Model	HTTP	Mac Address	Serial	FW Version	HW Version	DHCP
192.168.217.186	Activated	NK21			603	1.4.2	2.1	OFF
192.168.109.142	Activated	NK21			629	1.4.0	2.1	OFF
192.168.110.110	Activated	NK21			162	1.2.0jimin	2.1	OFF

<Caution>

Be careful not to turn off the camera during the upgrade.





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