

IP Utility

Version 3.5.25

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Start IP utility



To start IP Utility, double-click the “IP Utility” program icon.

As the program starts, IP Utility will run an initial search to find all devices on the network. It will display a message stating ‘Searching Device... Please Wait’. The search time usually takes about 10-15 seconds, but may take up to two minutes. Please have patience and wait for the search.

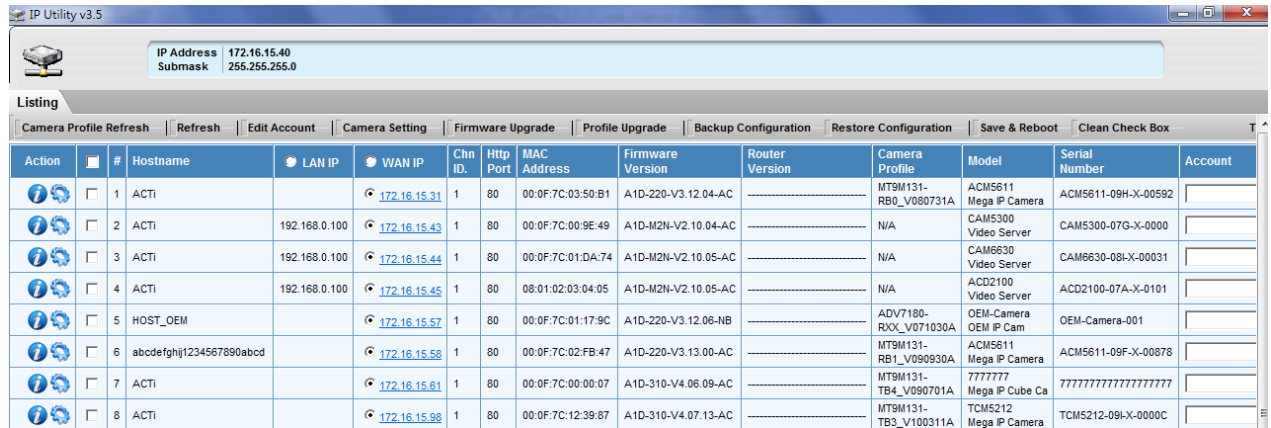


Figure 1 IP Utility is searching for available devices

After the search is done, the Device List screen will appear.

IP Utility Device List

User Interface



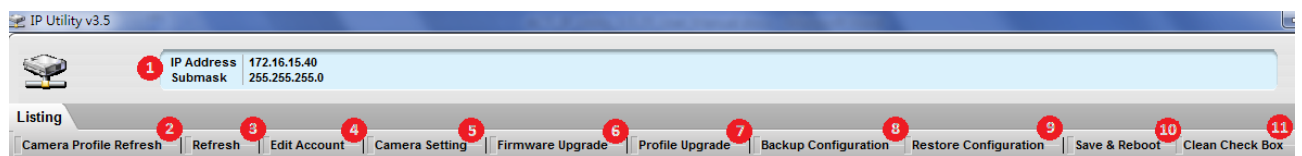
The screenshot shows the IP Utility v3.5 application window. At the top, there's a status bar with IP Address 172.16.15.40 and Submask 255.255.255.0. Below this is a 'Listing' tab with a menu bar containing: Camera Profile Refresh, Refresh, Edit Account, Camera Setting, Firmware Upgrade, Profile Upgrade, Backup Configuration, Restore Configuration, Save & Reboot, and Clean Check Box. The main area displays a table with 14 columns: Action, #, Hostname, LAN IP, WAN IP, Chn ID, Http Port, MAC Address, Firmware Version, Router Version, Camera Profile, Model, Serial Number, and Account. The table lists 8 devices, each with a camera profile and model.

Action	#	Hostname	LAN IP	WAN IP	Chn ID	Http Port	MAC Address	Firmware Version	Router Version	Camera Profile	Model	Serial Number	Account
	1	ACTI		172.16.15.31	1	80	00:0F:7C:03:50:B1	A1D-220-V3.12.04-AC		MT9M131-RB0_V080731A	ACM5611 Mega IP Camera	ACM5611-09H-X-00592	
	2	ACTI	192.168.0.100	172.16.15.43	1	80	00:0F:7C:00:9E:49	A1D-M2N-V2.10.04-AC		N/A	CAM5300 Video Server	CAM5300-07G-X-0000	
	3	ACTI	192.168.0.100	172.16.15.44	1	80	00:0F:7C:01:DA:74	A1D-M2N-V2.10.05-AC		N/A	CAM6630 Video Server	CAM6630-08I-X-00031	
	4	ACTI	192.168.0.100	172.16.15.45	1	80	08:01:02:03:04:05	A1D-M2N-V2.10.05-AC		N/A	ACD2100 Video Server	ACD2100-07A-X-0101	
	5	HOST_OEM		172.16.15.57	1	80	00:0F:7C:01:17:9C	A1D-220-V3.12.06-NB		ADV7180-ROCK_V071030A	OEM-Camera OEM IP Cam	OEM-Camera-001	
	6	abodeghij1234567890abcd		172.16.15.58	1	80	00:0F:7C:02:FB:47	A1D-220-V3.13.00-AC		MT9M131-RB1_V090930A	ACM5611 Mega IP Camera	ACM5611-09F-X-00078	
	7	ACTI		172.16.15.61	1	80	00:0F:7C:00:00:07	A1D-310-V4.06.09-AC		MT9M131-TB4_V090701A	77777777 Mega IP Cube Ca	77777777777777777777	
	8	ACTI		172.16.15.98	1	80	00:0F:7C:12:39:87	A1D-310-V4.07.13-AC		MT9M131-TB3_V100311A	TCM5212 Mega IP Camera	TCM5212-09I-X-0000C	

Figure 2 Device List

The User Interface of IP Utility can be divided into the **Menu Bar** and the **Device List** sections.

Menu Bar



- 1 Computer Network Settings:** These are the currently available network connections from this PC. IP Utility will use all available networks to search for devices.
- 2 Camera Profile Refresh:** During the device search period, the IP Utility will try to get the camera profile ID by using the default account name and password. If the camera account name and password are not correct, the IP Utility fails to read the camera profile ID. The "Authentication failed" will be shown on the Camera Profile field. As the correct account and password are typed into the Account and Password fields for the camera (refer to Edit Account below), the camera profile ID could be read back by click this tab (Camera Profile Refresh). The IP Utility will NOT perform device search in this action.
- 3 Refresh:** Refresh this page and search for available devices again. This will take from 15 seconds to 2 minutes.
- 4 Edit Account:** Display a page to set account and password. Check the boxes in front of the devices you wish to apply this account, and the Account / Password text boxes will be automatically filled with this. This is a handy function when you need to setup many devices from

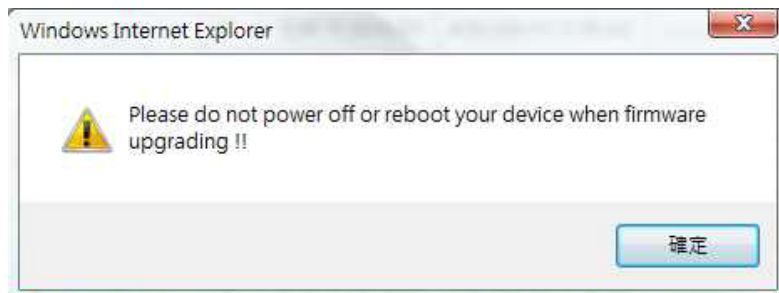
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IP utility and do not want to type the same password into each and every one.

- 5 Camera Setting:** This will allow you to log into the selected device and change Serial Port and Date/Time settings.

If there is more than one camera were checked, these camera serial port and date/time settings will be updated by this function.

- 6 Firmware Upgrade:** Use this function to upgrade device firmware. You should first check the checkboxes before the devices you wish to update, and enter Account / Password for every device. Clicking this will display a warning message, reminding you to NOT reboot or power off during upgrade.



Please follow this warning, as powering off at the wrong time may damage the device. Click OK to proceed to the upgrade screen.

Apply

Upgrade

☒ **Server**

Firmware Images File:

MD5 File:

☐ **Router**

Firmware Images File:

MD5 File:

Note	Status
The firmware upgrade process will take about 2 to 5 minutes, depends on the number of channels you are upgrading at the same time. Please check the device network light.	1. LED Flush: Save firmware now.
	2. LED OFF: System reboot.
	3. LED ON: System reboot finish.

You may upgrade two kinds of firmware. One is called **Server**, which means Video Server Channels and all IP Cameras. The other type is the **Router**. This is the "System" firmware in multi-channel video servers. When upgrading multi-channel video servers, please always upgrade Server firmware first, and upgrade Router firmware afterwards.

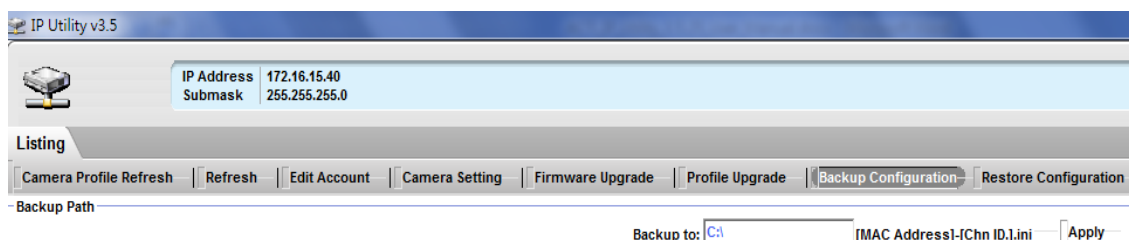
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- 7 **Profile Upgrade:** This will display a dialog window that asks you to select a profile pack file to use.



After you've selected the proper file, click apply to proceed. The profile pack contains necessary profiles for all devices, and will automatically match the proper profile to each device. This means there's no need to choose a different profile for each device anymore. The device will perform save and reboot after the upgrade of camera profile.

- 8 **Backup Configuration** This will display a section right above the device lists. This will show the backup path for the configuration file. The configuration file will be saved to the path you assign in the text box. The file name will be based upon the MAC address and the Channel ID. For regular IP cameras the file name would be MAC address, with "-0" attached to the end. For the 2nd channel in a multi-channel video server, the backup file name will look something like:
000F7C011FBB-2.ini

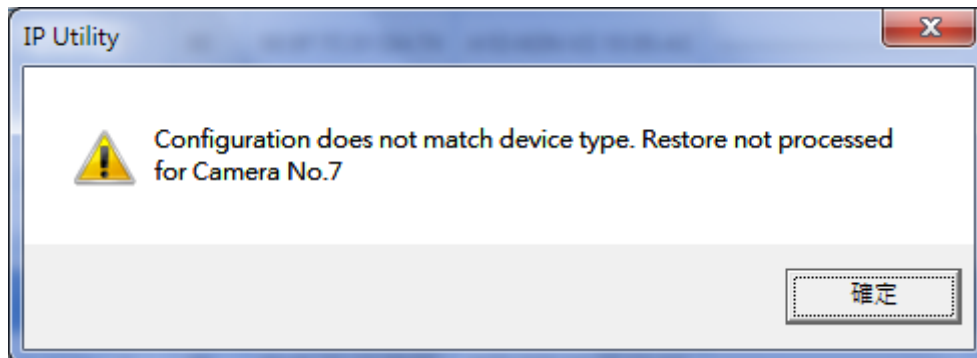


- 9 **Restore Configuration** This will display a dialog box for you to select the file to restore. Click "apply" when you wish to proceed. Please note that configurations backed up with older version of IP Utility may only be restored to the same devices with this version of IP utility (3.5.25). ***For configurations backed up with this version of IP Utility, you may restore the settings to multiple devices at once, but only to devices of the same family.*** For example, you may back up settings from one MPEG4/MJPEG CMOS camera and restore it to another type of MPEG4/MJPEG CMOS camera. For some models, you can restore the settings only to multiple devices of the same model number. NTSC / PAL devices of the same model number also count as different product families, and you cannot restore settings across the family line. Please only check boxes in front of devices of the same type before clicking restore configuration. When restoring to individual video server channels, expand the channels to select the individual video

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server so that it shows the “-“ sign. When restoring configuration to the multiple-channel routers, collapse the channels so that it shows “+” sign, to restore to multi-channel router.











The error message will be pop-up when the restored configuration file does not match the target device.



- 10 Save & Reboot** This will force the device to save all current settings and reboot. Settings that have not been saved will be lost when the device loses power. So please always perform Save and Reboot right after you changed device settings.
- 11 Clean Check Box** This will remove all check marks on the checkboxes before each device, deselecting all in the process.

Device List

You may click on the column headers to sort the device list by that column

1	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Action	#	Hostname	LAN IP	WAN IP	Chn ID	Http Port	MAC Address	Firmware Version	Router Version	Camera Profile	Model	Serial Number	Account	Password	Status	
	1	ACTi		 172.16.15.94	1	80	00:0F:7C:1A:2B:3F	A1D-220-V3.11.13-AC	-----	MT9M131-RA0_V091014A	ACM4200 Mega IP Cube Camera	ACM4200-10A-X-12390				
	4	ACTi		 172.16.15.64	1	80	00:0F:7C:AB:CD:87	A1D-220-V3.11.13-AC	A4D-R2N-V2.07.01-AC	ADV7180-RX0_V080415A	ACD2200 4-CH Video Server	N/A				
	5	ACTi		 172.16.15.64	2	80	00:0F:7C:AB:CD:87	A1D-220-V3.11.13-AC	A4D-R2N-V2.07.01-AC	ADV7180-RX0_V080415A	ACD2200 4-CH Video Server	N/A				
	6	ACTi		 172.16.15.64	3	80	00:0F:7C:AB:CD:87	A1D-220-V3.11.13-AC	A4D-R2N-V2.07.01-AC	ADV7180-RX0_V071030A	ACD2200 4-CH Video Server	N/A				
	7	ACTi		 172.16.15.64	4	80	00:0F:7C:AB:CD:87	A1D-220-V3.11.13-AC	A4D-R2N-V2.07.01-AC	ADV7180-RX0_V080415A	ACD2200 4-CH Video Server	N/A				

- 1 Action Column** This column contains two quick buttons that you can use to access device settings. Multi-channel video servers will also display a “+” or “-” sign in front of it, to expand or collapse multiple channels into one row.
- 2 Info Button** This will display a dialog box showing basic settings of this device. This allows you to check important settings without going through login and multiple Web pages.

Camera Detail -- 網頁對話

LAN IP

172.16.15.94

Firmware Version

A1D-220-V3.11.13-AC

MAC Address

00:0F:7C:1A:2B:3F

Factory Default Type

Two Ways Audio(0x71)

SYSTEM

Embedded system

TYPE

Encoder

NO OF CHANNEL

1 channel

MULTIPLEXING

No multiplexing

NO OF AUDIO WAYS

2-way audio

VIDEO BRIGHTNESS

25

VIDEO CONTRAST

50

VIDEO SATURATION

67

VIDEO RESOLUTION

N1280x1024

VIDEO BITRATE

3M

VIDEO FPS

Constant

VIDEO FPS NUM

8

- 3 Setting Button** This will display a dialog box showing the model, firmware version, IP and hostname. This also allows you to change device hostname, IP and port number without logging in. Click “Apply and save & reboot” to use the new settings.

Camera setting -- 網頁對話

Apply and Save & Reboot

Camera Information

Camera Model: ACM4200 Mega IP Cube Camera
 Camera Version: A1D-220-V3.11.13-AC
 Camera IP: 172.16.15.94
 Hostname: ACTi

Camera Setting

Hostname: ACTi

☐ LAN IP: disabled

☐ WAN IP: 172.16.15.94
 Subnet Mask:
 ISP Gateway:
 Http Port: 80

*Need to save and reboot to make this effective

- 4 Check Boxes** Select the devices you wish to do further operation on with the check boxes. You may also check or uncheck all devices by clicking on the checkbox in the title row.
- 5 Device No** This column shows the device sequence number. This is not fixed to the device, and even if you resort the whole list based upon different columns, this will remain in the same place.
- 6 Host name** This column displays the hostname of the device.
- 7 LAN IP** This column displays the LAN IP of the device. Most devices have only one IP, and uses WAN IP column instead.
- 8 WAN IP** This column displays the WAN IP of each device. For both WAN IP and LAN IP, the numbers may be either shown as plain text or shown as an underlined link. If the numbers are shown in underlined link form, this device is reachable and clicking this will automatically use the IP,

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HTTP port and the Account / Password to connect to device.

- 9 Channel ID** For IP Cameras, this column will show 1. The individual channels in Multiple Channel video servers will show the channel number here.

- 10 Http port** The HTTP port used to access the device is shown here. If the device is shown in IP utility, but you cannot connect by typing the IP address in Internet Explorer, sometimes the HTTP port is not the default 80. You should check here to find out.

- 11 MAC address** The MAC address of the device is shown here. For multi-channel devices, the MAC shown is the system MAC address.

- 12 Firmware Version** This column shows the device firmware version. For multiple channel video servers, this shows the **Channel** firmware version. The **Router** firmware version does not have a row of its own, and is instead shown in the Router Version column

- 13 Router Version** This column shows the Router firmware version.

- 14 Camera Profile** This column shows the camera profile of the device. For MPEG4 only devices, the Camera Profiles will not be displayed. Read camera profile ID from the camera needs account authentication. If the authentication fails, the "Authentication failed" will be shown in this field.

- 15 Model** This column displays the model and type of the device.

- 16 Serial Number** This column displays the Serial Number of the device.

- 17 Account** This column displays the account used to log into device.

- 18 Password** This column displays the password used to log into device.

- 19 Status** This column is usually empty. It will show system messages when an action performed is successful or not. An example would be "Backup Successful" when you've completed configuration backup.

Limitations

- 1 The model description depends on the device's capabilities. In new device firmware, it gives clear definitions of model description. The IP Utility could read the model description from the device and show on model filed. For old device firmware which it does not export the model description, the IP Utility uses its internal database to present the model description. Therefore, the model description might be not consistent.
- 2 The IP Utility is capable of decoder devices discovery. It just could link to decoder's WEB page through WAN port IP. The rest functions have not been tested and should not be used. You need to go to decoder's WEB page to manage it.
- 3 For CAM-xxxx camera, the device discovery was tested only. The rest functions have not been tested and should not be used. You need to go to device WEB page to manage it.