

Software
IP Utility
V3.2

User's Manual

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1

Getting Started

Start IP Utility

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



After double-click “IP Utility”, you will see the page.

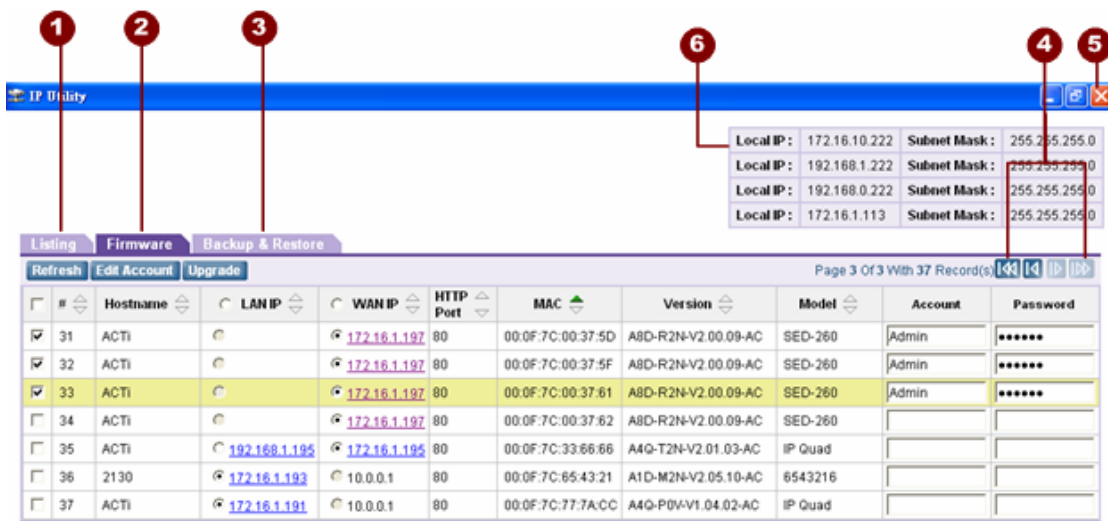

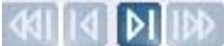

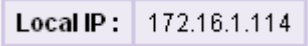


Figure 1. IP Utility

1. **Listing** : Listing available servers, user can edit “Hostname” “LAN IP” “WAN IP” of connections in this page.
2. **Firmware** : User can upgrade firmware and MD5 to update server in this page.

3.  : User can backup and restore setting of server in this page.
4.  : “First Page” “Previous Page” “Next Page” “Last Page”, click these buttons to skim over listing.
5.  : Click this button to close IP Utility.
6.  : Listing local IP addresses.

2 IP Utility Listing User Interface

IP Utility is designed with a user-friendly interface, and deployed with minimal training.

Understating the User Interface

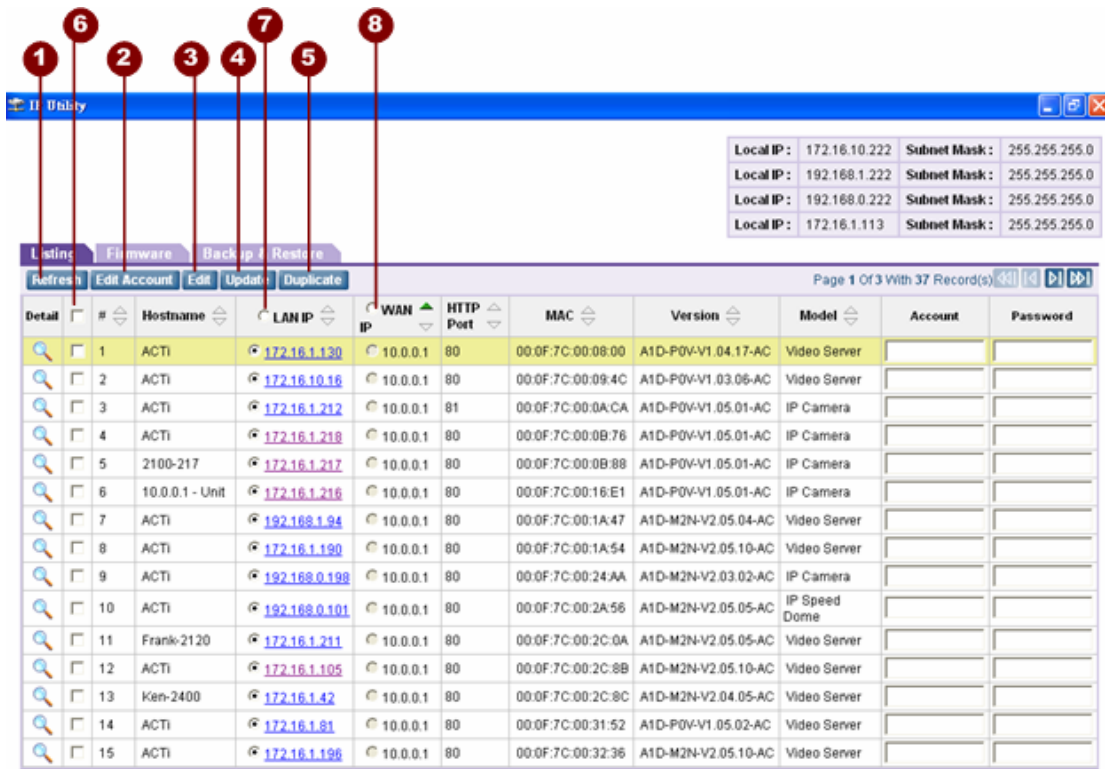


Figure 2. IP Utility Listing User Interface

1. **Refresh:** Refresh this page and search available servers again.
2. **Edit Account:** Display a page to set account and password, and fill setting of selected connections with those data be used to login servers.
3. **Edit:** Click this button to let “Hostname” “LAN IP” “WAN IP” of selected connections to be changeable.
4. **Update:** Update all setting of selected connections, and servers will reboot after several minutes.
5. **Duplicate:** Duplicate data to selected connections.
6. **Select all:** Select all or cancel all selected connections.
7. **Select all LAN IP:** All connections are connected by LAN IP .

8. **Select all WAN IP:** All connections are connected by WAN IP .

Server Information

Detail	#	Hostname	LAN IP	WAN IP	HTTP Port	MAC	Version	Model	Account	Password
	1	ACTI	172.16.1.130	10.0.0.1	80	00:0F:7C:00:08:00	A1D-P0V-V1.04.17-AC	Video Server		
	2	ACTI	172.16.10.16	10.0.0.1	80	00:0F:7C:00:09:4C	A1D-P0V-V1.03.06-AC	Video Server		
	3	ACTI	172.16.1.212	10.0.0.1	81	00:0F:7C:00:0A:CA	A1D-P0V-V1.05.01-AC	IP Camera		
	4	ACTI	172.16.1.218	10.0.0.1	80	00:0F:7C:00:0B:76	A1D-P0V-V1.05.01-AC	IP Camera		
	5	2100-217	172.16.1.217	10.0.0.1	80	00:0F:7C:00:0B:88	A1D-P0V-V1.05.01-AC	IP Camera		
	6	10.0.0.1 - Unit	172.16.1.216	10.0.0.1	80	00:0F:7C:00:16:E1	A1D-P0V-V1.05.01-AC	IP Camera		
	7	ACTI	192.168.1.94	10.0.0.1	80	00:0F:7C:00:1A:47	A1D-M2N-V2.05.04-AC	Video Server		
	8	ACTI	172.16.1.190	10.0.0.1	80	00:0F:7C:00:1A:54	A1D-M2N-V2.05.10-AC	Video Server		
	9	ACTI	192.168.0.198	10.0.0.1	80	00:0F:7C:00:24:AA	A1D-M2N-V2.03.02-AC	IP Camera		
	10	ACTI	192.168.0.101	10.0.0.1	80	00:0F:7C:00:2A:56	A1D-M2N-V2.05.05-AC	IP Speed Dome		
	11	Frank-2120	172.16.1.211	10.0.0.1	80	00:0F:7C:00:2C:0A	A1D-M2N-V2.05.05-AC	Video Server		
	12	ACTI	172.16.1.105	10.0.0.1	80	00:0F:7C:00:2C:8B	A1D-M2N-V2.05.10-AC	Video Server		
	13	Ken-2400	172.16.1.42	10.0.0.1	80	00:0F:7C:00:2C:8C	A1D-M2N-V2.04.05-AC	Video Server		
	14	ACTI	172.16.1.81	10.0.0.1	80	00:0F:7C:00:31:52	A1D-P0V-V1.05.02-AC	Video Server		
	15	ACTI	172.16.1.196	10.0.0.1	80	00:0F:7C:00:32:36	A1D-M2N-V2.05.10-AC	Video Server		

Figure 3. Server Information

1. **Hostname:** The name of server.
2. **LAN IP:** The IP of server in local area network.
3. **WAN IP:** The IP of server in wide area network.



NOTE: Before connecting a server, make sure you have chosen the correct type of IP for your device.

4. **HTTP Port:** The HTTP ports that HTP connection use.
5. **MAC:** The MAC address of server.
6. **Version:** The version of firmware that server use.
7. **Model:** The type of server.
8. **Account:** The account to be authorized by the server.
9. **Password:** The password to be authorized by the server.
10. **Detail:** Click the picture button to display a page with detail information of

the server.

Edit Account

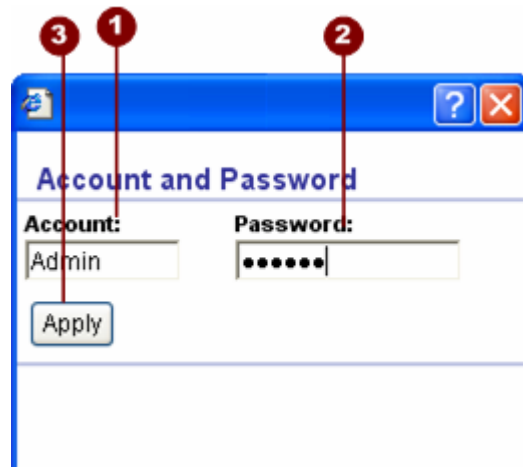
The screenshot shows the IP Utility interface with a table of 15 device connections. Two red circles labeled '1' and '2' point to the selection checkboxes and the 'Edit Account' button, respectively. The table lists 15 devices with columns for Detail, #, Hostname, LAN IP, WAN IP, HTTP Port, MAC, Version, Model, Account, and Password. The second and third rows are highlighted in yellow.

Detail	#	Hostname	LAN IP	WAN IP	HTTP Port	MAC	Version	Model	Account	Password
<input type="checkbox"/>	1	ACTI	172.16.1.130	10.0.0.1	80	00:0F:7C:00:08:00	A1D-P0V-V1.04.17-AC	Video Server		
<input checked="" type="checkbox"/>	2	ACTI	172.16.10.16	10.0.0.1	80	00:0F:7C:00:09:4C	A1D-P0V-V1.03.06-AC	Video Server	Admin	*****
<input checked="" type="checkbox"/>	3	ACTI	172.16.1.212	10.0.0.1	81	00:0F:7C:00:0A:CA	A1D-P0V-V1.05.01-AC	IP Camera	Admin	*****
<input type="checkbox"/>	4	ACTI	172.16.1.218	10.0.0.1	80	00:0F:7C:00:0B:76	A1D-P0V-V1.05.01-AC	IP Camera		
<input type="checkbox"/>	5	2100-217	172.16.1.217	10.0.0.1	80	00:0F:7C:00:0B:88	A1D-P0V-V1.05.01-AC	IP Camera		
<input type="checkbox"/>	6	10.0.0.1 - Unit	172.16.1.216	10.0.0.1	80	00:0F:7C:00:16:E1	A1D-P0V-V1.05.01-AC	IP Camera		
<input type="checkbox"/>	7	ACTI	192.168.1.94	10.0.0.1	80	00:0F:7C:00:1A:47	A1D-M2N-V2.05.04-AC	Video Server		
<input type="checkbox"/>	8	ACTI	172.16.1.190	10.0.0.1	80	00:0F:7C:00:1A:54	A1D-M2N-V2.05.10-AC	Video Server		
<input type="checkbox"/>	9	ACTI	192.168.0.198	10.0.0.1	80	00:0F:7C:00:24:AA	A1D-M2N-V2.03.02-AC	IP Camera		
<input type="checkbox"/>	10	ACTI	192.168.0.101	10.0.0.1	80	00:0F:7C:00:2A:56	A1D-M2N-V2.05.05-AC	IP Speed Dome		
<input type="checkbox"/>	11	Frank-2120	172.16.1.211	10.0.0.1	80	00:0F:7C:00:2C:0A	A1D-M2N-V2.05.05-AC	Video Server		
<input type="checkbox"/>	12	ACTI	172.16.1.105	10.0.0.1	80	00:0F:7C:00:2C:8B	A1D-M2N-V2.05.10-AC	Video Server		
<input type="checkbox"/>	13	Ken-2400	172.16.1.42	10.0.0.1	80	00:0F:7C:00:2C:8C	A1D-M2N-V2.04.05-AC	Video Server		
<input type="checkbox"/>	14	ACTI	172.16.1.81	10.0.0.1	80	00:0F:7C:00:31:52	A1D-P0V-V1.05.02-AC	Video Server		
<input type="checkbox"/>	15	ACTI	172.16.1.196	10.0.0.1	80	00:0F:7C:00:32:36	A1D-M2N-V2.05.10-AC	Video Server		

Figure 4. Edit Account

1. Select the connections that you will edit their accounts.
2. Click “Edit Account” button to display the page of account and password setting.

Page of Account and Password Setting



The image shows a dialog box titled "Account and Password". It has a blue title bar with a question mark icon and a close button. The main area contains two input fields: "Account:" with the text "Admin" and "Password:" with a masked password of seven dots. Below these fields is an "Apply" button. Three red circles with numbers 1, 2, and 3 are positioned above the dialog box. Red lines connect these circles to the "Account:" label, the "Password:" label, and the "Apply" button, respectively.

Figure 5. Input Account and password

1. **Account:** The account to be authorized by the server.
2. **Password:** The password to be authorized by the server.
3. **Apply:** Click "Apply" button to fill setting of previous selected connections with account and password of this page.

Account and Password setting

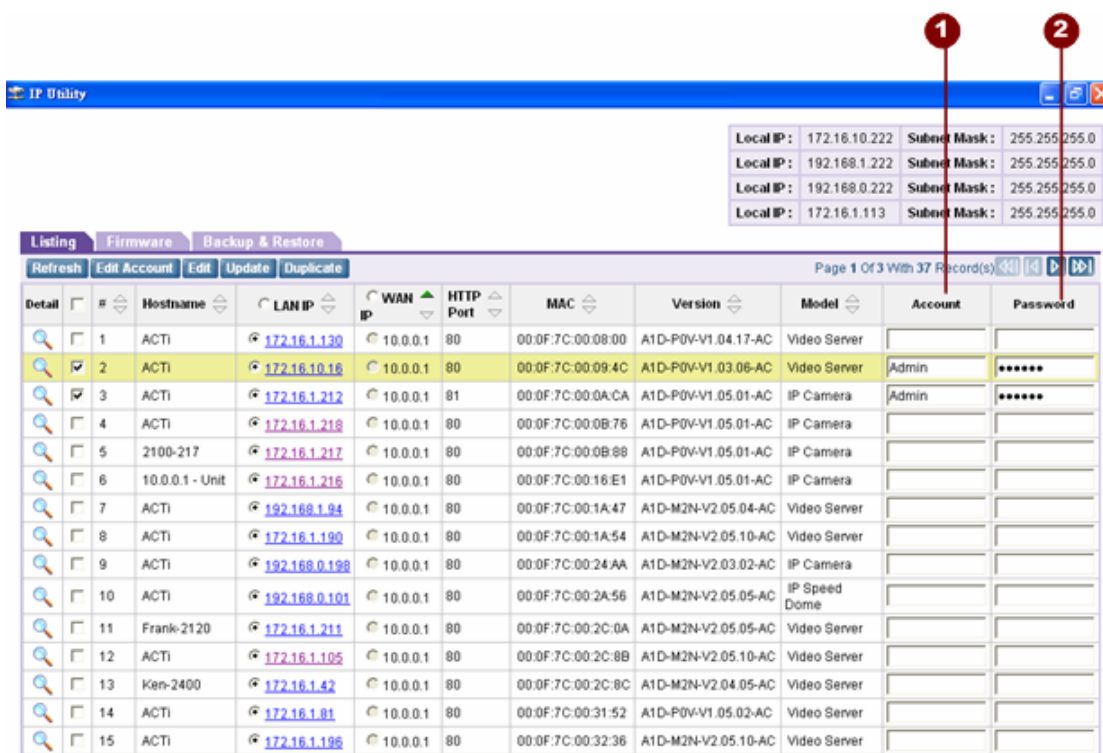


Figure 6. Account and password setting

1. All accounts of selected connections have been set by account data of previous page.
2. All passwords of selected connections have been set by password data of previous page.

Update the Setting of Server

The screenshot shows the IP Utility software interface. At the top right, there is a summary table for network settings:

Local IP:	172.16.10.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.1.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.0.222	Subnet Mask:	255.255.255.0
Local IP:	172.16.1.113	Subnet Mask:	255.255.255.0

Below this is a main table with columns: Detail, #, Hostname, LAN IP, WAN IP, HTTP Port, MAC, Version, Model, Account, and Password. The table contains 15 rows of server data. Red circles 1 through 5 are placed above the interface to indicate the steps for editing a server's settings:

- 1: Click the "Edit" button in the toolbar.
- 2: Click the "Edit" button in the row of the selected server.
- 3: Click the "Update" button in the toolbar.
- 4: Click the "Update" button in the row of the selected server.
- 5: Click the "Update" button in the toolbar.

Figure 7. Update the Setting of Server

1. Click the "Edit" button, the "Hostname" "LAN IP" "WAN IP" settings of selected servers will be changeable.
2. Edit the textbox of hostname of server.
3. Edit the textbox of LAN IP of server.
4. Edit the textbox of WAN IP of server.
5. Click the "Update" button, your setting data for selected servers will be sent off, and after several minutes those servers will reboot.



NOTE: Before sending setting data to the server, make sure you use authorized accounts and choose the correct type of IP for your device.

Server Detail Information

The screenshot shows a network management interface with a blue title bar labeled 'Unity'. Below the title bar, there is a summary table with four rows of IP and Subnet Mask information. Below that, there are tabs for 'Listing', 'Firmware', and 'Backup & Restore'. A toolbar contains buttons for 'Refresh', 'Edit Account', 'Edit', 'Update', and 'Duplicate'. The main area is a table with 15 rows of server details. A red circle with the number '1' is positioned above the magnifying glass icon in the first row of the table.

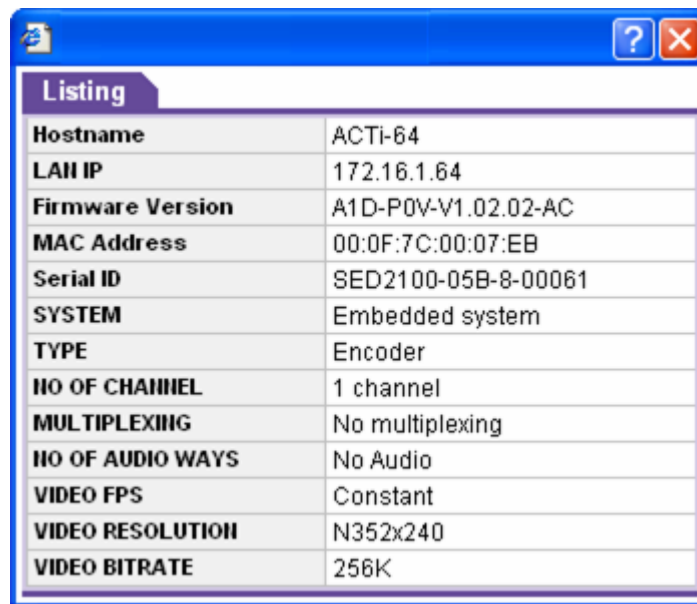
Local IP:	172.16.10.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.1.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.0.222	Subnet Mask:	255.255.255.0
Local IP:	172.16.1.113	Subnet Mask:	255.255.255.0

Detail	#	Hostname	LAN IP	WAN IP	HTTP Port	MAC	Version	Model	Account	Password
	1	ACTi	172.16.1.130	10.0.0.1	80	00:0F:7C:00:08:00	A1D-P0V-V1.04.17-AC	Video Server		
	2	ACTi	172.16.10.16	10.0.0.1	80	00:0F:7C:00:09:4C	A1D-P0V-V1.03.06-AC	Video Server		
	3	ACTi	172.16.1.212	10.0.0.1	81	00:0F:7C:00:0A:CA	A1D-P0V-V1.05.01-AC	IP Camera		
	4	ACTi	172.16.1.218	10.0.0.1	80	00:0F:7C:00:0B:76	A1D-P0V-V1.05.01-AC	IP Camera		
	5	2100-217	172.16.1.217	10.0.0.1	80	00:0F:7C:00:0B:88	A1D-P0V-V1.05.01-AC	IP Camera		
	6	10.0.0.1 - Unit	172.16.1.216	10.0.0.1	80	00:0F:7C:00:16:E1	A1D-P0V-V1.05.01-AC	IP Camera		
	7	ACTi	192.168.1.94	10.0.0.1	80	00:0F:7C:00:1A:47	A1D-M2N-V2.05.04-AC	Video Server		
	8	ACTi	172.16.1.190	10.0.0.1	80	00:0F:7C:00:1A:54	A1D-M2N-V2.05.10-AC	Video Server		
	9	ACTi	192.168.0.198	10.0.0.1	80	00:0F:7C:00:24:AA	A1D-M2N-V2.03.02-AC	IP Camera		
	10	ACTi	192.168.0.101	10.0.0.1	80	00:0F:7C:00:2A:56	A1D-M2N-V2.05.05-AC	IP Speed Dome		
	11	Frank-2120	172.16.1.211	10.0.0.1	80	00:0F:7C:00:2C:0A	A1D-M2N-V2.05.05-AC	Video Server		
	12	ACTi	172.16.1.105	10.0.0.1	80	00:0F:7C:00:2C:8B	A1D-M2N-V2.05.10-AC	Video Server		
	13	Ken-2400	172.16.1.42	10.0.0.1	80	00:0F:7C:00:2C:8C	A1D-M2N-V2.04.05-AC	Video Server		
	14	ACTi	172.16.1.81	10.0.0.1	80	00:0F:7C:00:31:52	A1D-P0V-V1.05.02-AC	Video Server		
	15	ACTi	172.16.1.196	10.0.0.1	80	00:0F:7C:00:32:36	A1D-M2N-V2.05.10-AC	Video Server		

Figure 8. Server detail information

1. Click this picture button to display the page of server detail information.

The Page of Server Detail Information

A screenshot of a web browser window with a blue title bar. The window contains a table with server details. The table has a purple header row with the word 'Listing'. The table rows are: Hostname (ACTI-64), LAH IP (172.16.1.64), Firmware Version (A1D-P0V-V1.02.02-AC), MAC Address (00:0F:7C:00:07:EB), Serial ID (SED2100-05B-8-00061), SYSTEM (Embedded system), TYPE (Encoder), HO OF CHANNEL (1 channel), MULTIPLEXING (No multiplexing), HO OF AUDIO WAYS (No Audio), VIDEO FPS (Constant), VIDEO RESOLUTION (N352x240), and VIDEO BITRATE (256K).

Listing	
Hostname	ACTI-64
LAH IP	172.16.1.64
Firmware Version	A1D-P0V-V1.02.02-AC
MAC Address	00:0F:7C:00:07:EB
Serial ID	SED2100-05B-8-00061
SYSTEM	Embedded system
TYPE	Encoder
HO OF CHANNEL	1 channel
MULTIPLEXING	No multiplexing
HO OF AUDIO WAYS	No Audio
VIDEO FPS	Constant
VIDEO RESOLUTION	N352x240
VIDEO BITRATE	256K

Figure 9. The Page of Server detail Information

Duplicate Setting

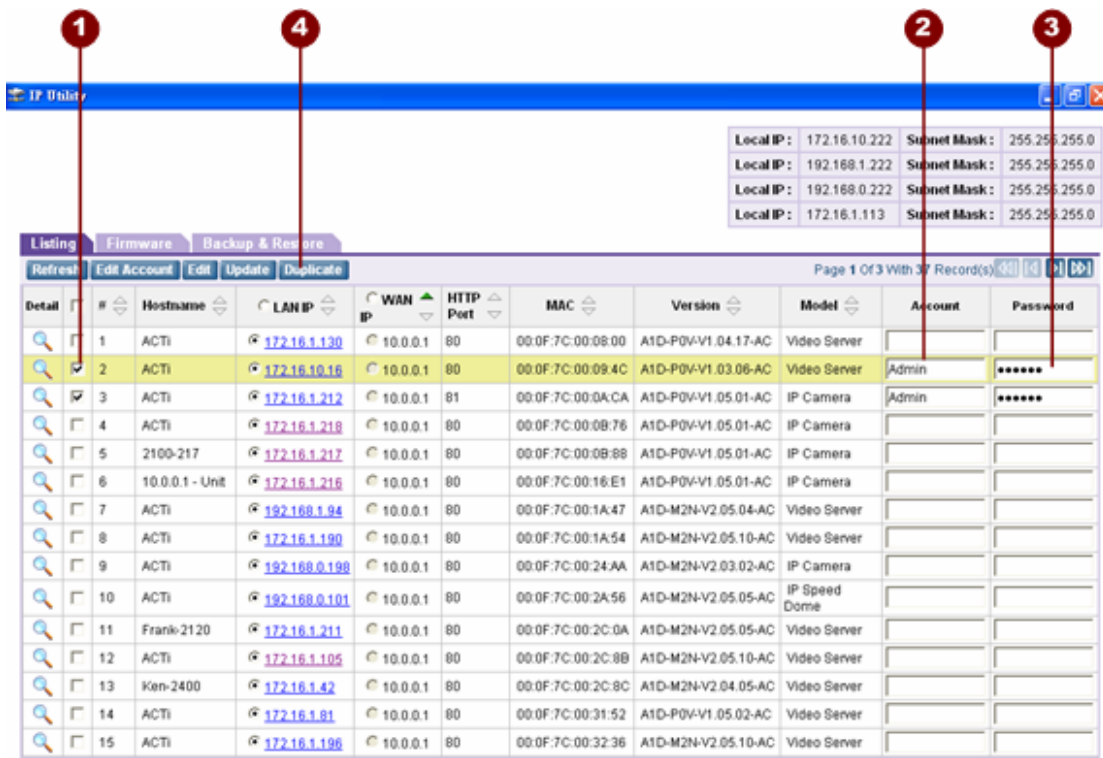


Figure 10. Duplicate Setting

1. Click the "Check" box on the items you want to operate upon
2. Input Account
3. Input Password
4. Click on "Duplicate" button

Duplicate Setting Details



Figure 11. Duplicate Setting

1. **Analog Video: NTSC, PAL video standard**
2. **Resolution: D1, CIF, QCIF**
3. **Bitrate: 3Mbps, 2.5Mbps, 2Mbps, 1.5Mbps, 1.2Mbps, 1Mbps, 750Kbps, 500Kbps, 384Kbps, 256Kbps, 128Kbps, 64Kbps, 28Kbps**
4. **Frame Rate Mode; Variable, Constant Frame Rate**
5. **Frame Rate: Frame rate selection**
6. **Serial Port Baud Rate: 19200, 9600, 4800, 2400, 1200**
7. **Serial Port Control: N81, E81, N80**
8. **Don't sync time to server**
9. **Use SNTP/NTP Server to sync time**
10. **NTP Server IP address**
11. **Sync time interval**
12. **Time zone selection**
13. **Set date time manually**
14. **Set date**
15. **Set time**
16. **Time zone selection**
17. **Click "Apply" to apply setting to the IP devices selected**

3

Firmware Upgrade User Interface

Understanding the User Interface

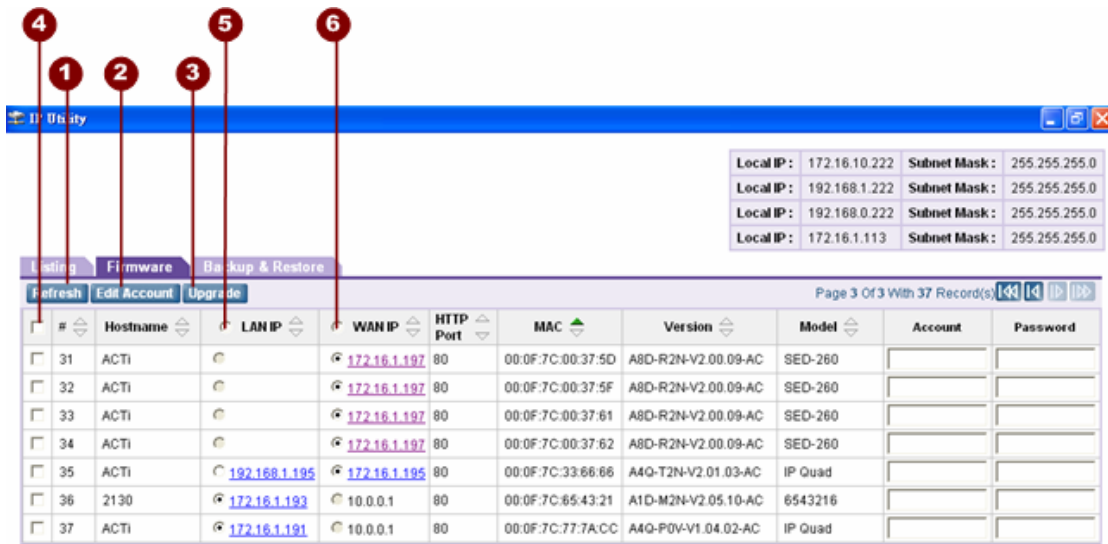


Figure 12. Streaming Explorer User Interface

1. **Refresh:** Refresh this page and search available servers again.
2. **Edit Account:** Display a page to set account and password, and fill setting of selected connections with those data be used to login servers.
3. **Upgrade:** Display the page of firmware upgrade setting.
4. **Select All:** Select all or Cancel all selected connections of listing.
5. **Select all LAN IP:** All connections are connected by LAN IP .
6. **Select all WAN IP:** All connections are connected by WAN IP.

Firmware Update

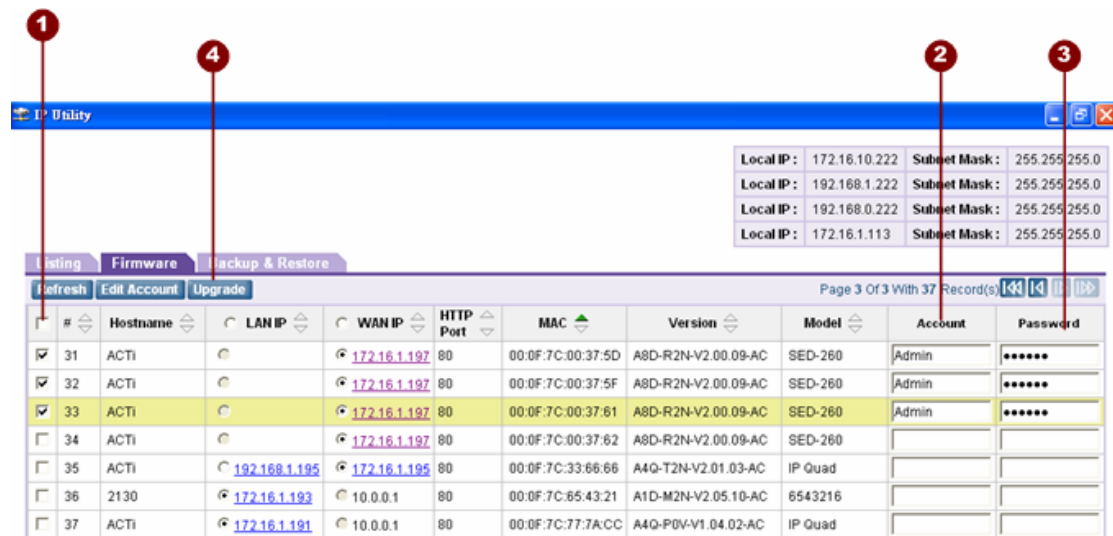


Figure 13. Firmware Upgrade

1. Selecting the server that your will update its firmware.
2. Enter the authorized account by this server.
3. Enter the authorized password by this server.
4. Click "Upgrade" button to display the page of firmware upgrade setting of this server.

The Page of Firmware Upgrade Setting

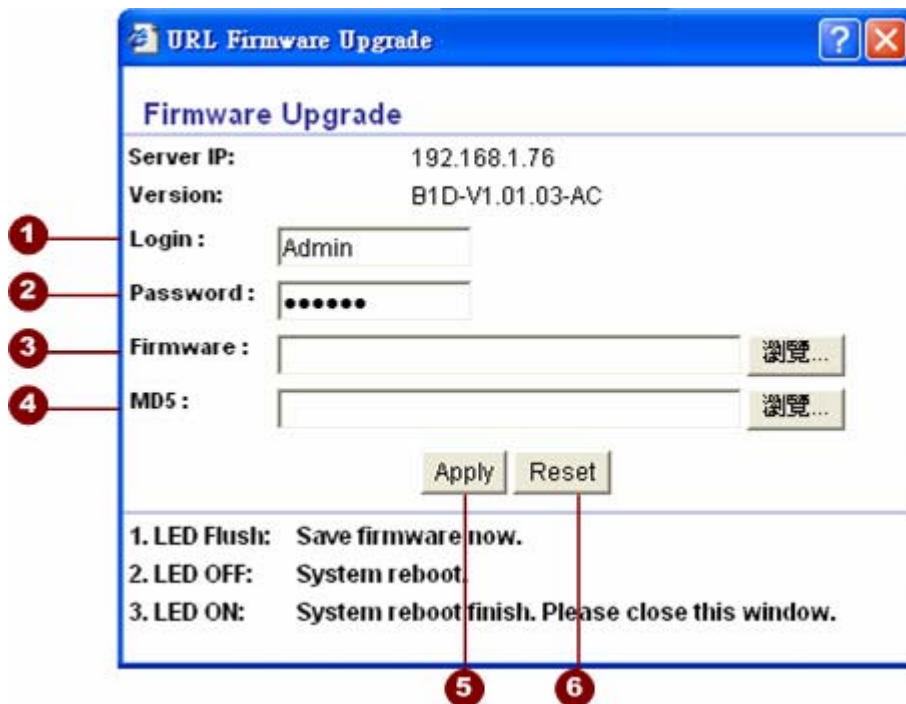


Figure 14. The Page of Firmware Upgrade Setting

1. **Login:** The ID of account to be authorized by this server.
2. **Password:** The password of account to be authorized by this server.
3. **Firmware:** Click “Search” button to select the firmware you will upgrade.
4. **MD5:** Click “Search” button to select the MD5 you will upgrade.
5. **Apply:** Click “Apply” button to upgrade firmware and MD5 of this server, after several minutes the server will reboot.
6. **Reset:** Click “Reset” button to clear your setting for this server.



NOTE: Before upgrading the firmware and MD5 of the server, make sure you choose the correct version of this server .

Firmware Upgrade Version Error



Figure 15. Firmware Upgrade Version Error

4

IP Utility Backup and Restore

Understating the User Interface

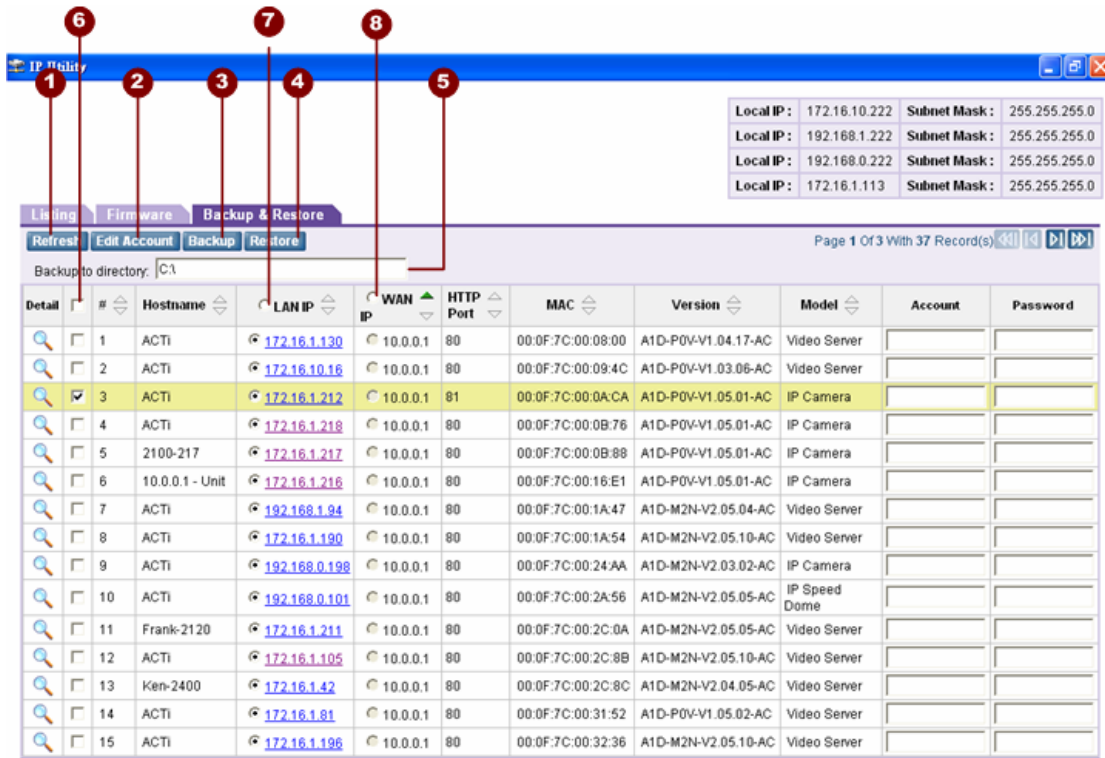


Figure 16. Backup and Restore User Interface

1. **Refresh:** Refresh this page and search available servers again.
2. **Edit Account:** Display a page to set account and password, and fill setting of selected connections with those data be used to login servers.
3. **Backup:** Click this button to backup all of setting of selected connections.
4. **Restore:** Click this button to restore the setting of you selected connection.
5. **Backup to the Directory:** Setting the backup file path of Information of servers.
6. **Select All:** Select all or Cancel all selected connections of listing.
7. **Select all LAN IP:** All connections are connected by LAN IP .
8. **Select all WAN IP:** All connections are connected by WAN IP .

Backup

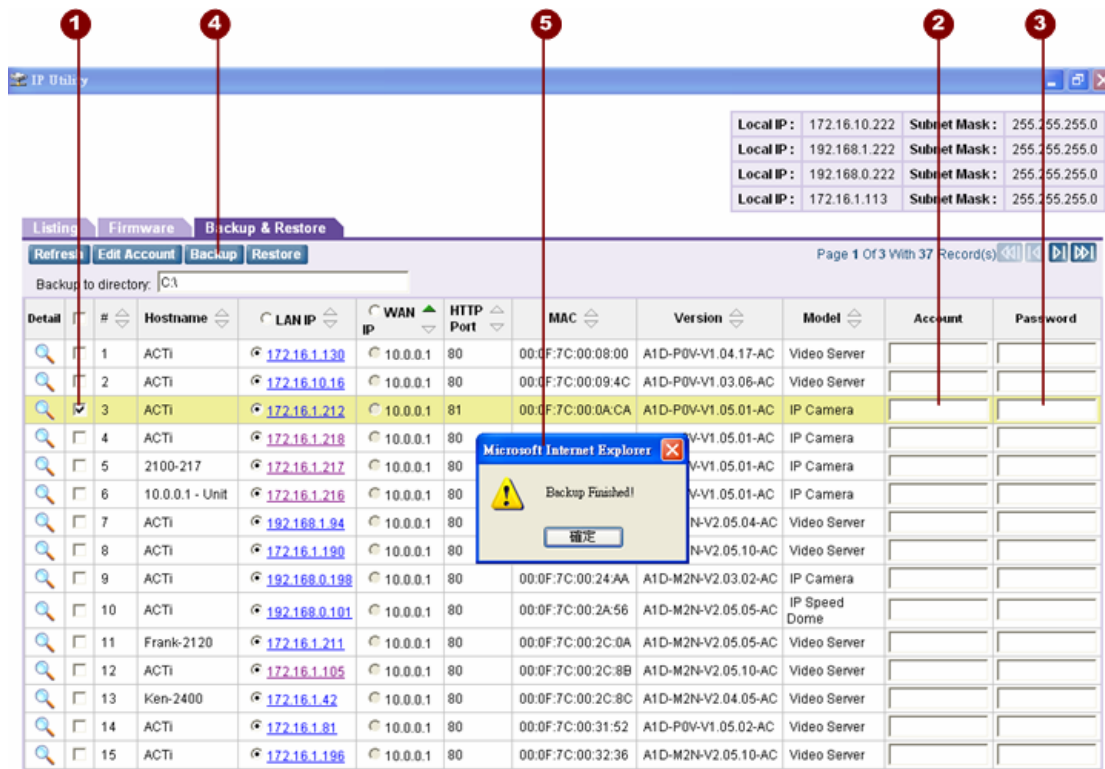


Figure 17. Backup

1. Selecting all the server that you will backup their setting.
2. Enter the authorized account by this server.
3. Enter the authorized password by this server.
4. Click "Backup" button to backup the setting of selected servers.
5. If backup succeed, show the "Backup Finished" message.

Restore

The screenshot shows the 'IP Utility' application window. At the top right, there is a summary table:

Local IP:	172.16.10.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.1.222	Subnet Mask:	255.255.255.0
Local IP:	192.168.0.222	Subnet Mask:	255.255.255.0
Local IP:	172.16.1.113	Subnet Mask:	255.255.255.0

Below this is a navigation bar with tabs: 'Listing', 'Firmware', 'Backup & Restore'. Under 'Backup & Restore', there are buttons for 'Refresh', 'Edit Account', 'Backup', and 'Restore'. A 'Backup to directory:' field contains 'C:\'. The main area is a table with 15 rows of device information. Row 3 is selected (highlighted in yellow). Red circles and lines indicate the following steps:

1. Selecting the server that you will restore its setting.
2. Enter the authorized account by this server.
3. Enter the authorized password by this server.
4. Click "Restore" button to display the Page of Restore Setting.

Detail	#	Hostname	LAN IP	WAN IP	HTTP Port	MAC	Version	Model	Account	Password
	1	ACTi	172.16.1.130	10.0.0.1	80	00:0F:7C:00:08:00	A1D-P0V-V1.04.17-AC	Video Server		
	2	ACTi	172.16.10.16	10.0.0.1	80	00:0F:7C:00:09:4C	A1D-P0V-V1.03.06-AC	Video Server		
	3	ACTi	172.16.1.212	10.0.0.1	81	00:0F:7C:00:0A:CA	A1D-P0V-V1.05.01-AC	IP Camera		
	4	ACTi	172.16.1.218	10.0.0.1	80	00:0F:7C:00:0B:76	A1D-P0V-V1.05.01-AC	IP Camera		
	5	2100-217	172.16.1.217	10.0.0.1	80	00:0F:7C:00:0B:88	A1D-P0V-V1.05.01-AC	IP Camera		
	6	10.0.0.1 - Unit	172.16.1.216	10.0.0.1	80	00:0F:7C:00:16:E1	A1D-P0V-V1.05.01-AC	IP Camera		
	7	ACTi	192.168.1.94	10.0.0.1	80	00:0F:7C:00:1A:47	A1D-M2N-V2.05.04-AC	Video Server		
	8	ACTi	172.16.1.190	10.0.0.1	80	00:0F:7C:00:1A:54	A1D-M2N-V2.05.10-AC	Video Server		
	9	ACTi	192.168.0.198	10.0.0.1	80	00:0F:7C:00:24:AA	A1D-M2N-V2.03.02-AC	IP Camera		
	10	ACTi	192.168.0.101	10.0.0.1	80	00:0F:7C:00:2A:56	A1D-M2N-V2.05.05-AC	IP Speed Dome		
	11	Frank-2120	172.16.1.211	10.0.0.1	80	00:0F:7C:00:2C:0A	A1D-M2N-V2.05.05-AC	Video Server		
	12	ACTi	172.16.1.105	10.0.0.1	80	00:0F:7C:00:2C:8B	A1D-M2N-V2.05.10-AC	Video Server		
	13	Ken-2400	172.16.1.42	10.0.0.1	80	00:0F:7C:00:2C:8C	A1D-M2N-V2.04.05-AC	Video Server		
	14	ACTi	172.16.1.81	10.0.0.1	80	00:0F:7C:00:31:52	A1D-P0V-V1.05.02-AC	Video Server		
	15	ACTi	172.16.1.196	10.0.0.1	80	00:0F:7C:00:32:36	A1D-M2N-V2.05.10-AC	Video Server		

Figure 18.. Restore

1. Selecting the server that you will restore its setting.
2. Enter the authorized account by this server.
3. Enter the authorized password by this server.
4. Click "Restore" button to display the Page of Restore Setting.

The Page of Restore Setting

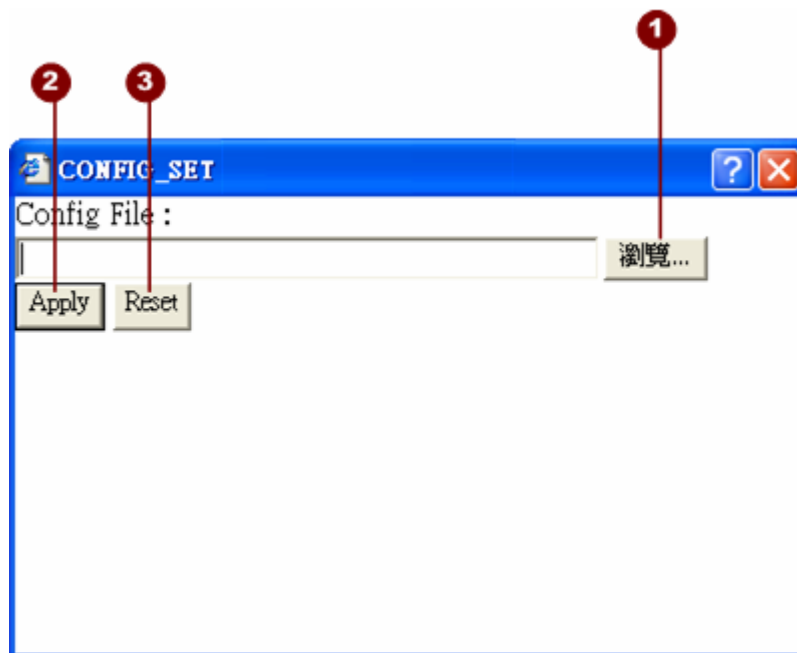


Figure 19. The Page of Restore Setting

1. **Comfit File:** Click “Search” button to select the backup file you will restore.
2. **Apply:** Click “Apply” button to restore setting of this server by backup file, after several minutes the server will reboot.
3. **Reset:** Click “Reset” button to clear your setting for this server.