GANZ Installation Tool ZNS-GIT IPAdmin Tool

for H.264 Network Dome camra H.264 Network CS mount camera H.264 ENCODER

Operation Manual ZNS-GIT Software



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1. Introduction

ZNS-GIT IPAdmin Tool is a utility program for IP products, including encoders and cameras. The following list provides a brief summary for the feature of this tool.

- Configure IP address, subnet mask, gateway, DNS, and hostname
- Search available IP devices on network
- Show device information
- Update new firmware on single or multiple devices
- Reboot the system remotely

1.1. Requirements

ZNS-GIT IPAdmin Tool can be run properly in Windows 2000[™], Windows XP[™] or later Windows[®]. *IPAdminToo.exe* and *IPAdminTool.dll* must be in the same folder, otherwise an error message is shown as the following エラー!参照元が見つかりません。.



Figure 1. Warning message for IPAdminTool.dll

Factory default IP and password: ID – root PW - pass



1.2. Starting ZNS-GIT IPAdmin Tool

ZNS-GIT IPAdmin Tool is provided with following SDK path. {SDK root}\BIN\TOOLS\AdminTool\

Start ZNS-GIT IPAdmin Tool by running IPAdminTool.exe. On the main page of the tool, you can see that the IP devices are being scanned. It re-scans network to keep updating IP devices on the list every 2 seconds. If required, you can manually perform the scanning by pressing the *Refresh* button.

le <u>S</u> etup <u>S</u> ystem							
IP Setup Upda	ate Reb	oot Device I	info I Refresh)			Exit
Product Name	Rack Info	IP Address	MAC Address	Friendly Name	Firmware	Uptime	
1CH Network Encoder		192,168,25,241	00:13:23:03:19:F1		FW V1.5.668.16360	04,00:37	
1CH Network Encoder		192.168.31.227	00:13:23:03:1F:E3		FW V1.5.666.16356	03,23:51	
1CH Network Encoder		192.168.20.111	00:13:23:03:14:6F		FW V1.5.668.16360	06,23:23	
1CH Network Encoder		192.168.52.54	00:13:23:03:34:36		FW V1.5.600.16349	27.00:13	
1CH Network Encoder		192.168.27.219	00:13:23:04:1B:DB		1.02.04	07,12:30	
1CH Network Encoder		192.168.12.136	00:13:23:04:0C:88		1.02.02	101,20:39	
1CH Network Encoder		192.168.18.225	00:13:23:04:12:E1		1.02.04	07.12:34	
1CH Network Encoder		192.168.95.177	00:13:23:03:5F:B1		FW V1.5.662.14432	00,00:22	
1CH Network Encoder		192.168.14.100	00:13:23:04:0E:64		1.02.04	10,19:41	
1CH Network Encoder		192.168.29.91	00:13:23:04:1D:5B		1.02.04	00,01:26	
1CH Network Encoder		192.168.13.84	00:13:23:04:0D:54		1.02.02	00,00:04	
1CH Network Encoder		192.168.43.124	00:13:23:03:2B:7C		FW V1.5.668.16360	12,20:03	
1CH Network Encoder		192.168.19.126	00:13:23:03:13:7E		FW V1.5.662.14432	27,00:12	
1CH Network Camera		192.168.43.66	00:13:23:03:2B:42		FW V1.5.668.16360	12,20:03	
1CH Network Camera		192.168.19.59	00:13:23:03:13:3B		FW V1.5.660.13879	07,12:59	
1CH Network Camera		192.168.15.252	00:13:23:03:0F:FD		FW V1.5.666.16349	33,19:32	
1CH Network Camera		192.168.43.94	00:13:23:03:2B:5E		FW V1.5.668.16360	12,20:03	
1CH Network Camera		192.168.17.129	00:13:23:03:11:81		FW V1.5.613	12,19:57	
1CH Network Camera		192.168.29.68	00:13:23:03:1D:44		FW V1.5.666.16349	08,00:55	
1CH Network Camera		192.168.31.42	00:13:23:03:1F:2A		FW V1.5.668.16360	12,20:03	
1CH Network Camera		192.168.20.253	00:13:23:03:14:FD		FW V1.5.668.16360	12,20:02	
1CH Network Camera		192.168.21.165	00:13:23:03:15:A5		FW V1.5.666.16349	27,00:13	

Figure 2. Refresh



1.3. Menu and button configuration

le Setup System				D		D [
IP Setup Upda	ate Reb	oot Device I	nfo Refresh	В			Exit
elected Device :							
Product Name 🔺	Rack Info	IP Address	MAC Address	Friendly Name	Firmware	Uptime C	-
1CH Network Encoder		192.168.25.241	00:13:23:03:19:F1		FW V1.5.668.16360	04,00:37	
1CH Network Encoder		192.168.31.227	00:13:23:03:1F:E3		FW V1.5.666.16356	03,23:51	
1CH Network Encoder		192.168.20.111	00:13:23:03:14:6F		FW V1.5.668.16360	06,23:23	
ICH Network Encoder		192.168.52.54	00:13:23:03:34:36		FW V1.5.600.16349	27,00:13	
1CH Network Encoder		192.168.27.219	00:13:23:04:1B:DB		1.02.04	07,12:30	
1CH Network Encoder		192.168.12.136	00:13:23:04:0C:88		1.02.02	101,20:39	
CH Network Encoder		192.168.18.225	00:13:23:04:12:E1		1.02.04	07,12:34	
CH Network Encoder		192.168.95.177	00:13:23:03:5F:B1		FW V1.5.662.14432	00,00:22	
CH Network Encoder		192.168.14.100	00:13:23:04:0E:64		1.02.04	10,19:41	
1CH Network Encoder		192.168.29.91	00:13:23:04:1D:5B		1.02.04	00,01:26	
CH Network Encoder		192.168.13.84	00:13:23:04:0D:54		1.02.02	00,00:04	
CH Network Encoder		192.168.43.124	00:13:23:03:2B:7C		FW V1.5.668.16360	12,20:03	
CH Network Encoder		192.168.19.126	00:13:23:03:13:7E		FW V1.5.662.14432	27,00:12	
ICH Network Camera		192.168.43.66	00:13:23:03:2B:42		FW V1.5.668.16360	12,20:03	
CH Network Camera		192.168.19.59	00:13:23:03:13:3B		FW V1.5.660.13879	07,12:59	
CH Network Camera		192.168.15.252	00:13:23:03:0F:FD		FW V1.5.666.16349	33,19:32	
1 CH Network Camera		192.168.43.94	00:13:23:03:2B:5E		FW V1.5.668.16360	12,20:03	
ICH Network Camera		192.168.17.129	00:13:23:03:11:81		FW V1.5.613	12,19:57	
CH Network Camera		192.168.29.68	00:13:23:03:1D:44		FW V1.5.666.16349	08,00:55	
CH Network Camera		192.168.31.42	00:13:23:03:1F:2A		FW V1.5.668.16360	12,20:03	
CH Network Camera		192.168.20.253	00:13:23:03:14:FD		FW V1.5.668.16360	12,20:02	
1CH Network Camera		192.168.21.165	00:13:23:03:15:A5		FW V1.5.666.16349	27,00:13	

Figure 3. Options

Section A

File

Refresh – Refresh the list and get the IP devices information. *Exit* – Quit this program.

Setup

IP Address – Set IP configuration such as IP address, subnet mask, default gateway, etc. *Hostname* – Set a new hostname.

Frequency setting – Set the message sending frequency for MDNS.

System

Update – Update the firmware or any other required files. *Device info* – Show the device information. *Reboot* – Reboot the device.

Section B

IP Setup - Set the IP configuration such as IP address, subnet mask, default gateway etc.

Protect Update - Upload the firmware or any other required files.

Reboot - Reboot the device.

Device Info- Show the device information.

Refresh – Refresh the list and get the IP devices information.

Section C

Product Name – Product name of your device is displayed. It can be modified by uploading the brand file involving the product name. Rack Info – If the scanned device is rack type, the related rack information is displayed.

IP Address – IP Address of your device is displayed.

MAC Address – MAC Address of your device is displayed.



Hostname – The hostname of your device is displayed. Changing the host name is not allowed. Firmware – The current firmware version of your device is displayed. Uptime – The passed time since the system is booted (Days: Hours: Minutes).

Section D

Exit – Quit this program.

Section E

Filter – Type any part of numbers of the IP address, check in the Filter box and click the Apply button. Then ZNS-GIT IPAdmin Tool will scan only IP devices that include typed numbers. *Device count* – The total number of scanned devices



2. Scanning Devices

2.1. How to search your device

Before running the ZNS-GIT IPAdmin Tool for finding a device, check out if the device is powered on and connected the network properly.

- 1. Run ZNS-GIT IPAdmin Tool and wait a second while it scans the IP devices.
- 2. Right-click on a device name and then a shortcut menu appears as below. Choose the 'Web view' and you can see that the Web Page for the device appears.

IP Setup Upda lected Device : 1CH Ne	te Reboot twork Encoder(192.16	Device 1 68.31.227)	info Refresh				E×it
Product Name 🔺	Rack Info	Address	MAC Address	Friendly Name	Firmware	Uptime	
CH Network Encoder	Web view	1.1 8.31.227	00:13:23:03:1F:E3		FW V1.5.666.16356	04,00:13	
CH Network Encoder		.168.52.54	00:13:23:03:34:36		FW V1.5.600.16349	27,00:35	
CH Network Encoder	Reboot	1,1,8.27.219	00:13:23:04:1B:DB		1.02.04	07,12:52	
CH Network Encoder		.168.12.136	00:13:23:04:0C:88		1.02.02	101,21:01	
CH Network Encoder	Ser.	.168.18.225	00:13:23:04:12:E1		1.02.04	07,12:56	
CH Network Encoder	IP Address	1.168.95.177	00:13:23:03:5F:B1		FW V1.5.662.14432	00,00:00	
CH Network Encoder		.168.14.100	00:13:23:04:0E:64		1.02.04	10,20:03	
CH Network Encoder	Friendly Name	.168.29.91	00:13:23:04:1D:5B		1.02.04	00,01:48	
CH Network Encoder	Firmware update	.168.15.252	00:13:23:03:0F:FD		FW V1.5.666.16349	33,19:54	
CH Network Encoder		168.43.124	00:13:23:03:2B:7C		FW V1.5.668.16360	12,20:25	
CH Network Encoder	Web update	.168.19.126	00:13:23:03:13:7E		FW V1.5.662.14432	27,00:34	
CH Network Encoder	Ocx update	.168.43.66	00:13:23:03:2B:42		FW V1.5.668.16360	12,20:25	
CH Network Encoder		.168.19.59	00:13:23:03:13:3B		FW V1.5.660.13879	07,13:20	
CH Netowrk Camera	Device info	.168.43.94	00:13:23:03:2B:5E		FW V1.5.668.16360	12,20:25	
CH Netowrk Camera		192.168.17.176	00:13:23:03:11:B0		FW V1.5.641.11710	06,20:15	
CH Netowrk Camera		192.168.17.129	00:13:23:03:11:81		FW V1.5.613	12,20:19	
CH Netowrk Camera		192.168.29.68	00:13:23:03:1D:44		FW V1.5.666.16349	08,01:17	
CH Netowrk Camera		192.168.31.42	00:13:23:03:1F:2A		FW V1.5.668.16360	12,20:24	
CH Netowrk Camera		192.168.20.253	00:13:23:03:14:FD		FW V1.5.668.16360	12,20:24	
CH Netowrk Camera		192.168.21.191	00:13:23:03:15:BF		FW V1.5.668.16360	12,20:24	
CH Netowrk Camera		192.168.21.165	00:13:23:03:15:A5		FW V1.5.666.16349	27,00:34	
CH Netowrk Camera		192.168.17.128	00:13:23:04:11:80		1.02.02	03.06:50	

Figure 4. Web View

IP Filtering – When you have multiple devices

If your network has multiple IP devices and *ZNS-GIT IPAdmin Tool* scans too many IPs, you can easily find the desired device by using the IP filtering feature. Type any part of numbers of the IP address in the blank, check in the *Filter* box and click the *Apply* button. Then *ZNS-GIT IPAdmin Tool* will scan only the IP devices that include typed numbers. Refer to the picture below for an example.

😹 IPAdminTool V3.7.3							
<u>File S</u> etup <u>S</u> ystem							
IP Setup Updat	e Rebo	oot Device	Info Refresh				Exit
Selected Device: 1CH Net	work Encoder(19	2.168.31.227)					
Product Name 🔺	Rack Info	ID Address	MAC Address	Friendly Name	Firmware	Uptime	
1CH Network Encoder		192.168.31.227	00:13:23:03:1F:E3		FW V1.5.666.16356	04,00:13	
Filter 31.227		Apply		Device coun	t:1		

Figure 5. Filter



2.2. IP management for devices

You can adjust the network setting with ZNS-GIT IPAdmin Tool. Click the **IP Setup** button on the upper menu bar or **IP Address** from the shortcut menu.

崣 IPAdminTool V3.7.3							
F Setup 275 m IP Setup Update Selected Device : 1CH Net			nfo Refresh)			Exit
Produce Name 🔺	Rack Info	IP Address	MAC Address	Friendly Name	Firmware	Uptime	
1CH Network Encoder	IP Setup	192.168.31.227	00:13:23:03:1F:E3		FW V1.5.666.16356	04,00:13	
	O DHCP IP Address Subnet Mask GateWay DNS	Static 192 .168 .31 . 255 .255 .0 . 192 .168 .0 . 168 .126 .63 .	0 Client Networl Adapter Info: Adapter Name 2 IP Address: Subnet Mask: Gateway:192.	<pre>< Information ealtek RTL8168D(P)/811: '<er9ddac5-865b-41cd 001cc0f9a432="" 2.168.110.194="" 255.255.00<="" pre=""></er9ddac5-865b-41cd></pre>	1D(P) PCI-E Gigabit Ethernet f -AD19-80ADA49CE802}	NIC - Packet	
Filter 31.227		Apply		Device coun	t : 1		

Figure 6. IP Setup

DHCP

Let the DHCP server get the IP address automatically.

Static

Set the IP address, Subnet Mask, Gateway and DNS manually according to users' network requirements.



2.3. How to check your device Information remotely

The software version information of IP devices can be displayed by selecting the **System** > **Device Info** menu. You can check the information by selecting **Device Info** from the shortcut menu.

Name	Value	
Eth Count	1	
th Interface	eth0	
IP Address	192.168.14.100	
MAC Address	00:13:23:04:0E:64	
Subnet Mask	255.255.0.0	
Gateway	192.168.0.1	
P Mode	static	
ONS	0.0.0.0, 0.0.0.0	
BootMode	normal	
SafeFirmware Version	0.39.00	
firmware Version	1.02.04	
Bootloader Version	V3.01	
Wah UDI	http://102.160.14.100.442	
		>

Figure 7. Device Info

You can find the device information as below.

- Device Type
- Product Name
- Host Name
- Ethernet Count
- Ethernet Interface
- IP Address
- MAC Address
- Subnet Mask
- Gateway
- IP mode
- DNS
- BootMode
- Firmware Version
- SafeFirmware Version
- Bootloader Version
- Web URL
- Web Port
- RTSP Port
- Update Port
- Uptime
- System Key Method
- Device Serial
- Description



3. Updating Firmware

ZNS-GIT IPAdmin Tool provides the firmware update feature for single or multiple IP devices.

Tip. Want to update multiple devices at the same time?

Choose the multiple devices with *Crtl* or *Shift* key and find the **Update** button on the upper menu (The mouse shortcut menu also provides the **Update** menu).

e Setup System	ate Rebo	ot Device I	nfo I Refresh				Exit
	etwork Encoder(192						LAR
Product Name	Rack Info	IP Address	MAC Address	Friendly Name 🔻	Firmware	Uptime	
CH Network Encoder		192.168.18.60	00:13:23:04:12:3C		1.02.04	00,00:20	
CH Network Encoder		192.168.15.208	00:13:23:04:0F:D0		1.02.04	00,00:39	
CH Network Encoder		192.168.31.165	00:13:23:04:1F:A5		1.02.04	03,13:07	
CH Network Encoder	Web view	192.168.11.152	00:13:23:04:0B:98		1.02.04	02,03:59	
CH Network Encoder	Reboot	192.168.111.84	00:13:23:04:6F:54		1.02.04	01,07:55	
CH Network Encoder 👘		192.168.12.28	00:13:23:04:0C:1C		1.02.03	05,01:30	
CH Network Encoder	Update	192.168.27.4	00:13:23:04:1B:04		1.02.04	03,23:35	
CH Network Encoder	te beherbeide	192.168.11.168	00:13:23:04:0B:A8		1.02.02	27,01:16	
CH Network Encoder	IP Address	192.168.12.122	00:13:23:04:0C:7A		1.02.04	05,16:27	
CH Network Encoder	Friendly Name	192.168.11.111	00:13:23:04:0B:6F		1.02.04	07,22:45	
CH Network Encoder		_ 192.168.12.85	00:13:23:04:0C:55		1.02.03	27,01:16	
CH Network Encoder	Firmware update	192.168.18.52	00:13:23:04:12:34		1.02.04	00,02:29	
CH Network Encoder	Web update	192.168.26.73	00:13:23:04:1A:49		1.02.03	00,00:30	
CH Network Camera	Ocx update	192.168.22.170	00:13:23:04:16:AA		1.02.03	00,00:30	
CH Network Camera	Ocx upuace	192.168.12.136	00:13:23:04:0C:88		1.02.02	101,21:42	
CH Network Camera	Device info	192.168.20.219	00:13:23:04:14:DB		1.02.03	25,05:06	
CH Network Camera	Device into	192.168.16.166	00:13:23:04:10:A6		1.02.04	03,23:05	
CH Network Camera		192.168.14.4	00:13:23:04:0E:04		1.02.04	07,12:53	
CH Network Camera		192.168.12.35	00:13:23:04:0C:23		1.02.04	07,22:45	
CH Network Camera		192.168.13.164	00:13:23:04:0D:A4		1.02.04	10,19:30	
CH Network Camera		192.168.18.133	00:13:23:04:12:85		1.00.07	01,12:30	
CH Network Camera		192.168.11.122	00:13:23:04:0B:7A		1.02.01	27,01:16	

Figure 8. Protect Update of multiple devices

Step1. Select IP device

Select the device you want from the list and it turns blue. Right-click it and select the **Update** menu. You can see the window below and the selected devices are listed.

Path :				Browse
Add Remove		🗌 Updat	e all selected devices following the comple	etion of previous update. View log
RL	Status		Progress	Log file
https://192.168.111.89:	Ready	0/0		2010-02-16(11-14) 192
https://192.168.31.155:	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.18.60:443	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.15.208:	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.31.165:	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.11.152:	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.111.84:	Ready	0/0		2010-02-16(11-14) 192
https://192.168.12.28:443	Ready	0/0		2010-02-16(11-14) 192.
https://192.168.27.4:443	Ready	0/0		2010-02-16(11-14) 192

Figure 9. Selected devices list

Tip. Is your device not searched by ZNS-GIT IPAdmin Tool?

Your devices may have been connected to the external network or mDNS feature may have been disabled on your device. In this case, you can add the device manually by typing the IP address for firmware update.

Click the *Add* button and the '*Add device*' window pops up. Select *https* or *http* according to your device protocol type (The factory default is HTTPS). Type the IP Address you want to update and click the *Add* button. Then, you can see that the IP advice is newly added.

		-		Browse
Add Remove	Status	l Updat	e all selected devices following the completion of	previous update. View log
<pre>kt https://192.168.18.60:443 https://192.168.15.208: https://192.168.15.208:</pre>	Ready Ready	0/0 0/0		2010-02-16(11-17) 192.: 2010-02-16(11-17) 192.:
	Add devi	ce		
	URL -	• 192.1	58.15.25	
			Add Cancel	

Figure 10. Add device



Tip. To remove devices from the selected list :

If you want to remove the device from the selected list, select the URL check box and click the *Remove* button. Then, the selected device is removed.

Path :				Browse
Add Remove		🗌 Updat	e all selected devices following the completion of previous up	odate. View log
RL	Status		Progress	Log file
https://192.168.18.60:443	Ready	0/0		2010-02-16(11-17) 192
https://192.168.15.208:	Ready	0/0		2010-02-16(11-17) 192
https://192.166.15.25	Ready	0/0		2010-02-16(11-23) 192

Figure 11. Remove device



Step2. Browse the firmware file and update

- 1. Now, if you have completed listing up the devices you want to update, click the **Browse** button and select the firmware file (File format : *.pkt).
- 2. Click the **Update** button.
- 3. It requires the log-in authentication as picture below (a). Type the ID and password of administrator authentication. The factory default is root(ID) and pass(pw).
- 4. Wait for a few seconds and the progress bar will show you the current status of update. If the update process is completed, the 'All update finish' message box is shown as below.

gin	
https:	//192.168.18.60:443
Auth	en
ID	root
ΡW	****
	,
Z Sav	ve ID/password
. 00	
	Login Cancel

Add Remov	e	Update all selected devices following the completi	on of previous update View log
RL	Status	Progress	Log file
https://192.168.19.20:443	<success></success>	3/3 ok(firm)	2010-02-16(11-54) 192
		Finished the update of 1 device(s) - 1 device(s) succeeded - 0 device(s) failed OK (b)	

Figure 12. Completed firmware update

Step3. Reboot the system

After the completion of the firmware update, you should wait for about 1 minute until the device restarts. Even after the completion of update and reboot of the system, if your device is not shown on the scanned list of ZNS-GIT IPAdmin Tool, click the **Refresh** button or try to type the IP address on the Internet Explorer's address bar.



4.0ther Features

4.1. How to reboot the device remotely

You can reboot the IP device by clicking the **Reboot** button or the **Reboot** option from the shortcut menu. If you choose the **Reboot** menu, the dialog box (a) appears as shown below. Then, click the **Yes** button log in by entering your ID and password as the pop-up window (b). After that, click the **OK** button on the pop-up window (c). Now, the device will get restarted in about 1.5 minutes.

IPA dminTool	
1CH Network Encoder Do you really want to reboot the device?	
(a)	
Login	>
Device IP : 192.168.111.32 ID : root PW : ••••• Remember ID and password Login Cancel	
(b)	
IPAdminTool X	

(c)

OK

Figure 13. Reboot



4.2. How to set the retransmit interval for mDNS queries

To set the MDNS message frequency, select **Setup** > **Frequency Setting** from the menu. If the pop-up window appears as below, set the desired frequency and click the Save button to save the changes.

Frequency setting				
Set the MDNS messages frequency.				
Frequency : 4 times(s) every 3 second(s)				
(Setting '0' time : It does not set limits to the number of sending messages)				
Save Cancel				

Figure 14. mDNS frequency

What is mDNS?

The ZNS-GIT IPAdmin Tool uses a specific protocol, multicast DNS (mDNS), to get the information of devices on the network. When the ZNS-GIT IPAdmin Tool is run by a user, it sends the packets which request the answers from devices. The results are shown on each tab of ZNS-GIT IPAdmin Tool.

You can adjust the retransmit interval for the mDNS queries in this menu.

As an example above, if you set the frequency as '4 times every 3 seconds,' your ZNS-GIT IPAdmin Tool would send out the mDNS queries 4 times in every 3 seconds and you will get the responses from all devices. If you set the times as '0,' it keeps sending the queries without limit.

If you have completed the setting, click the **Refresh** button on the main menu of ZNS-GIT IPAdmin Tool. Then, the list will be refreshed according to your frequency setting.

NOTE : Too frequent nDNS queries may result in the increase of the network load.

