# **User Manual**

# **IP Camera Recorder**



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#### Preface

IP Camera Recorder is a 36 Channel video recording software which supports IP Camera, and Video Server . Users use this software to monitor real-time video, record video on PC then playback recorded video when necessary. IP Camera Recorder supports 3 different ways to record video, including schedule recording, motion-triggered recording, and manual recording.

#### I. System Requirements

#### **A.Minimum requirements**

- i. CPU: Intel Pentium 4 2.0G
- ii. Memory: 512MB
- iii. VGA card: 128MB (ATI chipset suggested)
- iv. Monitor Resolution: 1024 x 768
- v. OS: Windows XP / 2000

#### **B.** Suggested requirements

- i. CPU:Intel Pentium D 3.2G or higher
- ii. Memory: 1024MB or higher
- iii. VGA card: 256MB or higher(ATI chipset suggested)
- iv. Monitor Resolution: 1024 x 768
- v. OS: Windows XP / 2000

#### **II. Program Install and Un-install**

#### **A.Program Install**

- i. To install IP Camera Recorder, please double click
- ii. Please select the language for installation. IP Camera Recorder now supports "English", "Tradition Chinese", and "Simplified Chinese".

Installer Language 🛛 🔀							
Please select a language.							
	English						
	OK Cancel						

iii. Next, please read and accept software License Agreement

😉 IPCamera Recorder Setup	
License Agreement Please review the license terms before installing IPCamera Recorder.	
Press Page Down to see the rest of the agreement.	
LICENCE AGREEMENT FOR IPCAMERA RECORDER Installing IPCAMERA RECORDER software means that you accept the following terms and conditions. If you do not agree to these then, you should not install the software.	
<ol> <li>Copyright You acknowledge that you are receiving a limited license to use IPCamera Recorder ("the Software") and documentation, and that you shall obtain no ownership, title nor any other rights in or to the Software and related documentation, all and any portion of which title and rights shall remain with Company. The Software is protected by copyright and other intellectual property laws and by international treaties.</li> </ol>	
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install IPCamera Recorder.	
Nullsoft Install System v2.21	cel

iv. Please select installation path. Default directory is "C:\Program Files\IPCamera Recorder". Click next



v. Set up the name of the program folder. Default "IPCamera Recorder" is recommended. Click "Install" to start the installation.

🧿 IPCamera Recorder Setup							
Choose Start Menu Folder Choose a Start Menu folder for the IPCamera Recorder shortcuts.							
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.							
IPCamera Recorder Accessories							
Administrative Tools Games Microsoft Office							
Startup							
Do not create shortcuts							
rvuisore install         Sack         Install         Cancel							

vi. Click on Close to finish Installation.

IPCamera Recorder Setup	
Installation Complete Setup was completed successfully.	<b>2</b>
Completed	
Show decails	
Nullsoft Install System v2.21	Cancel

vii. To start the program, please follow  $\[\] Start_] \rightarrow \[\] Programs_] \rightarrow \[\] IPCamera Recorder_]$ 

Connect Foiled	No IPCam	2007/08/27 11:08:49				
No IPCam	No IPCem	No IPCam	No IPCam	No IPCam	No IPCam	
No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	
No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	
No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	
No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	No IPCam	

#### **B.Un-install**

a. To remove the program, please follow 『Start → Programs →
 『IPCamera Recorder → Uninstall .



#### III. Set up devices & HDD space

Before starting recording, please set up the IP camera/ Video server & HDD.

#### A.Set up IP Camera/ Video Server

There are 2 ways to set up the IP Camera/ Video Server

- i. Using Configure Tool
  - a. Select <sup>®</sup> Start <sub>↓</sub> → <sup>®</sup> Programs <sub>↓</sub> → <sup>®</sup> IP Camera Recorder <sub>↓</sub> → <sup>®</sup> Tools <sub>↓</sub>
     → <sup>®</sup> Configure Tool <sub>↓</sub>

Ch	Enable	Tag		IP	Port	D	Password	I Only	ShowTag	ShowTime
Ch1	NO	Ch1			80			NO	NO	NO
Ch2	NO	Ch2			80			NO	NO	NO
Ch3	NO	Ch3			80			NO	NO	NO
Ch4	NO	Ch4			80			NO	NO	NO
Ch5	NO	Ch5			80			NO	NO	NO
Ch6	NO	Ch6			80			NO	NO	NO
Ch7	NO	Ch7			80			NO	NO	NO
Ch8	NO	Ch8			80			NO	NO	NO
Ch9	NO	Ch9			80			NO	NO	NO
Ch10	NO	Ch10			80			NO	NO	NÖ
Ch11	NO	Ch11			80			NO	NO	NO
Ch12	NO	Ch12			80			NO	NO	NO
Ch13	NO	Ch13			80			NO	NO	NO
Ch14	NO	Ch14			80			NO	NO	NO
Ch15	NO	Ch15			80			NO	NO	NO
Ch16	NO	Ch16			80			NO	NO	NO
									-	
Start Con	figureTool	3-	^	Name		IP	MAC	-Fi	unction	
Reset all	data	ne	8	IP_Lamera IP-Camera IP-Camera IP-Camera IP-Camera IP-Camera NVR-233 Web_Server IP-Camera V/cb_Server	192 192 192 192 192 192 192 192 192	168.1216 168.3.245 168.3.246 168.3.246 168.3.248 168.3.216 168.3.233 168.3.221 168.3.221 168.3.251 168.3.225	00:0F:0D:00:20:20:9 00:0F:0D:00:02:6 00:0F:0D:20:02:0 00:0F:0D:20:02:0 00:0F:0D:20:05:0 00:0F:0D:20:05:0 00:0F:0D:20:07:8 00:0F:0D:20:02:8 00:0F:0D:20:02:8 00:0F:0D:20:02:8	6 A E B 1 7 8 8	Scar	IP

- b. IP Installer function has been integrated in Configure tool. When starting Configure tool, it will search IP camera & video server automatically. To re-search the device, please click "Scan IP"
- c. Select the IP camera/ video server you would like to add.
   Drag-and-drop the device on video channel listed above. Then type in correct ID (user name) & password of the device.
- d. When finish the configuration, click "Save" to save all the information.
- Using IP Camera Recorder software: Start IP Camera Recorder program, and select "Setup 1 to enter setup page.



to enter channel

a. Once entered setup page, please select

setup page.



There are 18 channels listed on the left side of the administrator

page. Users can use in the select 1-18 or 19-36 channels.

b. Camera can be configured in the general setup page. First, click

Enable Channel to enable each channel and to set each camera.

c. In the basic setting as showed below, channel name can be saved in the "Channel Tag" to distinguish each channel. IP address is indicating the channel. With IP Share (Router), the Port needed to be adjusted in case of conflict. Fills in the ID and the Password for

each channel, then click



to connect each device or

channel. Click

will enable IE to browse each channel.

Basic Setting	
Channel Tag	Ch1
IP	192.168.3.173
Port	80 Ch 1 🔽
ID	admin
Password	XXXXX

d. Within the Image setup page as showed below, users can change image Resolution, Quality, Video Format, and Frame Rate.

Image	_			
Resolution	320x240		-	
Quality	Best	•		
Video Format	MPEG4	-		
Frame Rate	30 fps	•		

e. In the Information setting page as showed below <sup>,</sup> Tag / Date / Time can be displayed on the live viewing <sup>,</sup>



f. In the Display setting page as showed below , users can select display mode.



transferred and displayed in live-viewing ;

When Click	🛛 🔽 Disable Digital Zoom	, in the live vie	ew screen, if the
original video	size is smaller than	viewing frame	the video will she

original video size is smaller than viewing frame, the video will show it's original size, and won't be enlarged



If original video size is larger than the viewing frame, it will show it's original video size larger than the viewing frame, user may use the sub-screen to scroll thru the area needed



📄 Enable Audio

g. In the Audio setting page, if click on Enable Audio the audio will be recorded with the video.



- h. Before exiting administration page, remember to click save all the configurations.
- i. Moreover, in Advanced Setup, click





/Time and status location of each shown channel. Click within advanced setting can setup such as the size, format and color of tag, Date/Time and status.

NOTE: The advanced setting will apply to all shown channels.



#### **B.Set up HDD to record video**

To record video on PC with IP Cam Recorder, you must mount HD space first.

i. Start the program, click on "setup"



to enter the setup page and



ii. Before you mount the space, every time you log into the administration page, the dialog box will show up to remind you to do this.



Click

iii.

to access this page.



- iv. Select the Disk drive
- v. Use the slide bar to set up the volume of the HD you would like to keep to record the video.



vi. Click to start the procedure.

vii. Please refer to following steps.



#### **IV. Live Video Monitoring**

i. HVM-36IP is a 36 channel recording software. It supports different kinds of real-time monitoring mode.



Recorded video playback.

v.



Indicate Alarm status.



I/O switch. Up to 4 channels ( if remote device supported)



xi.

Х.

if the selected ch supports PTZ function,

double click on the ch to enter single screen mode, and the PTZ interface will show in order to control Pan, Tilt, Zoom, Focus, IRIS, and Preset Point.

xii.

the ch to enter single screen mode, user may click on CHAT to start two-way audio

#### V. Video Playback



to enter video playback mode.



#### **A.Video Playback**

 Use calendar to select the date. As shown in the following figure, the "day" means there are recorded videos in that day. For example, there are videos in 2007/07/20.



ii • After selecting the date, please click **I** to select the video channel you would like to play.



iii • When choose the date and video channel, it will show the recording status.



- a. No color: No video data.
- b. Yellow: Motion-triggered recording data.
- c. Red: Normal recofding data.
- d. Gray:The time you choose to play.
- iv  $\cdot$  Click O to start playback. Click O to pause it

(depends on the hardware and total channels).

- vi Vise W W to go to previous/ next frame.
- vii < Check "Show tag", "Show time" to show title & time on each channel.
- viii Check "Disable Digital Zoom" to disable digital zoom function.

ix  $\cdot$  Check "Event List" to see the event records.

#### **B.Export Video**

Video data can be exported as JPEG or AVI format besides playing back.

- i. Export as JPEG format:
  - a. Click . It will show the following dialogue box.



- b. The filename will be "channel number\_yyyymmdd\_hhmmss.jpg".
- ii. Export as AVI format
  - a. Click . It will show the following dialogue box.

Start Time         year / month / day         Hour : min : sec           2007 ▼         7         20         14         2         0         ▼	Save Directory
End Time year / month / day Hour : min : sec 2007 • 7 • 20 • 14 • 2 • 59 •	C.\ Program Files PiCamera Record E.Map INDEX Resource
1 - 18     19 - 36       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Save Directory C.\Program Files\IPCamera Recorder	Including Sound
Progess 0 frames 0 Hour 0 min 0	sec 0 files

b. Select "start time", "end time", "video channel", and the directory to save



- c. If audio recorded is needed, click on Includiing Sound
- d. It exports the video into different AVI files for each channel if multi-channel have been selected.

#### VI. Digital Zoom

By enabling the digital zoom function, user can zoom in/out the image to get proper view. Digital zoom can be functionalized in live-viewing, playback viewing and second live-viewing. The following figures refer to the digital zoom panel.



There are there parts of the digital zoom panel.



i.

Preview window: The image or video in the preview

window is not live, the image frame will be updated within a time interval. The red frame indicate the live-viewing window, and the number of the left-down corner indicate the zooming rate.



- ii. Digital zooming bar: By moving the control bar up or down, the live-viewing and preview window will be zoomed in or out. The zoom rate is from 100% to 1000%.
- iii. Zoom status: By un-check this function, the image or video will be displayed in the original size.

The default of the digital zoom is enabled. User can change the default by



🔽 Disable Digital Zoom



to enter the channel setup

page. Check

to disable digital zoom control.

#### VII. Others

#### A.Schedule record setting

IP Camera Recorder supports different recording mode for different channel.

- i Enter setup page by click on enter channel setup page by click
- ii In the channel setup page, first select channel #, then select  $\[$  schedule  $\]$  tab to enter schedule recording page.



iii < IP Camera Recorder supports 3 recording modes.

RED – Recording YELLOW – Motion Detection Recording White – No Recording

- iv 
  Select area of recording time first, then choose one of three recording modes to activate recording mode.
- $v \sim If$  you like to set all the channels with the same recording setting, you

may finish setting one channel first and click setting on all other channels



to apply the

#### **B.Motion Detection**

Each channel can set up 3 areas to detect motion.



i.

i.

to enter setup page and click



ii. Select channel to set up the motion, then select  $\[\]$  Motion  $\]$  tab.



- iii. Detection Area Setting: Click area, use mouse to drag and draw the area to detect motion.
- iv. Motion Sensitivity: adjust the sensitivity for each channel.

#### C.PTZ set up and control

IP Camera Recorder supports remote PTZ control.



[PTZ]

to enter setup page, then click



ii. Select the channel which supports PTZ as following figure, Select

	None	-
	None HPT-11A Panasonic-CS850 DynaColor_D Lilin PIH-7600 PELCO-D PELCO-P	
tab.	DMP-15H1	3

- iii. IP Camera Recorder supports different PTZ protocols.
- iv. Make sure choosing the right protocol, ID, baud rate.



v. Detacting ponint preset setup: Please refer to following figure.

General Schedule Motion PTZ 10	
Preview	Communication Option
	Type HLT-860
	Device ID
	Baud Rate 2400 💌
	Speed 5 💌
	Preset Setup
	Print 2:res
	Point Name res
18/20/20011012-3	
Function	AutoScan

vi. When finish the PTZ setup, use the control panel to control the PTZ.

#### **D.I/O Control**

i.

- Get into administration page. Click
- ii. Select the channel which supports I/O, Select "IO " tab.



- iii. IP CAM RECORDER supports 2 types of I/O. Users can determine delay time interval from 1 to 60 seconds.
- iv. In the live-viewing, I/O interface may have different controller depending on each channel or remote device.

#### E.System

c.

- i. E-mail alert: When motion detection is triggered, IP Camera Recorder sends the e-mail to some specific account.
  - a. Get into administration page. Click



b. Check Enable E-mail



to get into setup page.

Property	
SMTP Server Host	Port
WebHost	
	E CHITD
SMTP server heeds to verify	5MTP server needs 55L
Verify	
Account	Password
From	
IPCamera Recorder	
, 	
DemoTest@test.com	
Cution Contraction	
Event	30 V Vec
Content	
<	×

d. E-MAIL setup page: To enable e-mail service, please fill in the name of SMTP server. To verify the user, please check





ii.

to test the e-mail service.

- e. The default value of "From" is IPCameraRecoder.
- f. Please fill in the e-mail destination address such as <u>DemoTest@test.com.</u>
- g. "Subject" and "Content" column: The title and the reminder of a triggered event.



to set up the time to reboot Windows

automatically. It will re-start the IP CAM RECORDER automatically.

-Select the time of	rebooting			
	Hour	Minute		
🗖 Sun	0 💌	0 🔽		
🦳 Mon	0 💌	0 🔽		
🔲 Tue	0 💌	0 🔽		
Ved Ved	0 💌	0 🔽		
🔽 Thu	3 💌	3 💌		
💌 Fri	5 💌	0 🔽		
🔽 Sat	7 🔽	0 💌		
C	2	×		
rogram auto	o-run: Che	ck Auto	run the program on windows sta	artup to run f

- program whenever the PC reboots.
- iv. HDD setup:

iii.

a. IP CAM RECORDER will overwrite the old data when the HDD is



to enable/ disable this function.

- b. Overwrite When Diskfull The default configuration of this function is enable.
- v. Date Format:



vi. Product Information:

a.



to show product information.

#### F. Password set up

IP Camera Recorder supports security user mangement.



i. Exit user setup page, you will see wat lower left corner in the main live monitoring page. You may click on it to log in/out.

### VIII.Configure Tool

#### A.Monitor resolution (Default: On)

The program resolution is at default 1024 x 768. To disable this function, please open Configure tool  $\rightarrow$  System  $\rightarrow$  Auto adjust resolution (Off).

🚰 Configure Tool	
Camera Sustem Backup	
Application	
Auto Adjust Resolution	
T Windows Control	
IP Camera	
✓ Use PC Time	
🦵 Enable Ping	
Timeout 6 Sec	
Get Timeout 7 Sec	
Set Timeout 7 Sec	
Display	
☐ Use Overlay	
	Reset Reload Save Exit

- i N Run Configure tool
- ii 🛌 Select "System" tab
- iii Select"Auto Adjust Resolution" to adjust the resolution automatically or un-check to disable this function.

#### **B.Window Control function (Default:**

#### Disable)

This function can only be used when screen resolution is set larger than 1024 x 768, and can not be used with "Auto Adjust Resolution". After enabled "Window Control" function, if the screen resolution is larger than 1024 x 768, user may drag recording software screen, and move it to preferred position.

#### C.Enable/ Disable "PC Time" (default: on)

By enabling this function, system will synchronize the camera/ web server/ DVR time to the PC. **Note: By disabling this function, the recording time of the remote devices may different from the PC time**.

#### D.Enable/ Disable "Ping" (default: off)

Some network device will disable the "ping" function. To connect IP camera/ video server which are protected by the firewall, please disable this function to make sure it can connect correctly.

#### E.Enable/ Disable "Use Overlay" (default:

#### on)

Disable the overlay function if the graphic cards don't support this function. Note: By enabling overlay function will reduce CPU load and enhance PC performance.

#### **F. Backup Configurations**

Use Configure tool to back up all the configurations. It will be very useful to maintain the software using these configurations.

🚰 Configure Tool	
Camera System Backup Backup C: [] C: C: Program Files	
C:\Program Files\IPCamera Recoi	
Reset Reload Save	Exit

- i > Select the back up directory. You may open a new folder in the directory.
- ii < Click "Export" to export all configurations.
- iii 
  To import the configurations into IP Camera Recorder, select the backup folder, click "Import".

#### **IX. Product Specifications**

Video Monitoring		
Channel	36	
Live monitoring mode	1, 4, 9, 16, 36	
Full Screen	Yes	
Supported Hardware Device	<ul> <li>Video Server: HWS-01HP, HWS-01HE, HWS-01HD, HVT-01HT, HWS-04HD</li> <li>IP Camera: HLC-36F, HLC-36M, HLC-36P, HLC-42M, HLC-42P, HLC-49M, HLC-49P, HLC-82F, HLC-810, HLC-82F, HLC-830, HLC-1CI</li> <li>DVR: HDR-04MD, HDR-04MN, HDR-04MP, HDR-04NP, HDR-04FE, HDR-04DE, HDR-08MN, HDR-09MP, HDR-09RE, HDR-16MN, HDR-16MP, HDR-09RE, HDR-16MN, HDR-16MP, HDR-16NE</li> <li>PT: HLC-860, HLC-870</li> <li>AXIS: 205, 206, 207, 210, 211A, 213, 214, 221, 225, 231D, 232D, 241 (4Ch Server), 2100, 2110, 2120, 2130, 2420</li> </ul>	
Channel Setup		
Recording mode	Schedule, Motion, Manual	
Record resolutions	SXGA, D1, VGA, CIF, QCIF	
Digtail Zoom	Yes	
Video quality	best, high, standard, medium, low	
Show title and time	Yes	
Motion Detection	Yes	
PTZ control	Yes	
IO control	Yes, can activate preset alarm devices such as siren or alarm, It supports on&off switch mode and delay switch mode, up to 4 I/O Control	
Auto reboot	Yes	
Auto startup	Yes	
Data overwrite	Yes	

E-mail function	Yes, send mail when motion or sensor is	
	triggered	
Video Playback		
Video Search	By time	
Video Export	JPEG, AVI	
Digtail Zoom	Yes	
Print image	Yes	
Video Forward/ backward	1x, 2x, 4x, 8x, 16x, 32x(Depends on	
	hardware or the number of playback chanels)	
Event warning		
On screen display	Yes	
E-mail warning	Yes, with event attachment	
Security		
Security setup	Yes, user password	
Configure Tool		
Hardware auto search	Yes	
Auto resolution adjustment	Yes	
Window Control Function	Yes, screen resolution must be larger than	
	1024 x 768	
ON/OFF Ping function	Yes	
ON/OFF time synchronization	Yes, synchronization between devices and	
	PC	
ON/OFF overlay	Yes	
Backup import/export	Yes	

## X.GRAPHIC CARD Test Table

The following list presents the graphic cards which have been tested with Network Recording Software Premium series.

OS		
Windows 2000	ATI	RADEON 7500
	NVIDIA	Geforce 6200
Windows XP	ATI	RADEON 9200, RADEON 9550, RADEON XPRESS 200
	NVIDIA	GEFORCE 6200, GEFORCE 6600, GEFORCE 7100,
		GEFORCE 7300, GEFORCE 8500
Windows Vista	ATI	RADEON XPRESS 200M, RADEON HD 2400 PRO
	NVIDIA	Geforce 8500
	Intel	G33

- NOTE 1: All the graphic cards which are shown in above table have to update their driver to the latest version. Please go to ATI, NVIDIA or Intel official website to update the driver.
- NOTE 2: By using Windows Vista, due to Intel G33 Driver (Version: 7.14.10.1461) from its OEM have not supported Vista DirectX 10 yet, it cannot display the image within Overlay mode while operating Dual-Monitor. Therefore, this caused problem still wait for the solution from its OEM.

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