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1Megapixel Indoor Dome IP Camera

NC-11DF USER'S MANUAL

Http://www.netsys.com.tw



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THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

Safety Warnings

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

Caution:



•

The NC-11DF is for **indoor** applications only. This product does not have waterproof protection, please do not use in outdoor applications.



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setsys

<u>NC-11DF 1 Megapixel Indoor Dome IP Camera User's Manual Ver.A2</u>

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Foreword

NC-11DF is a 1 / 2.7" 1 Mega-Pixel CMOS sensor IP camera with a built-in web server. The user can view real-time video via IE browser. It supports H.264 and M-JPEG video compression, providing smooth and high video quality. The video can be stored in Micro SD card and playback remotely. With a user friendly interface, it is an easy-to-use IP camera for security applications.





1.1 Check List

Carefully unpack the package and check its contents against the checklist.

- NC-11DF (1 Megapixel Indoor Dome IP Camera)
- NV-202 / NV-202P (VDSL2 KIT with PoE), Optional
- Accessory: 8 x Rubber Feet, 1 x DC48V /1.875A Desktop Adapter, 1x AC to DC Power cord, 1 x DC12V Adapter, 1 x Ethernet Cable, 2 x Wall plug, 2 x Screw

Notes:

- 1. Please inform your dealer immediately for any missing or damaged parts. If possible, retain the carton including the original packing materials. Use them to repack the unit in case there is a need to return for repair.
- 2. If the product has any issue, please contact your local vendor.
- 3. The power supply included in the package is commercial-grade. Do not use in industrial-grade applications.
- 4. Please look for the QR code on the bottom of the product, the user can launch the QR code scanning program to scan and download the user's manual electronic format file.
- 5. Please scan the following QR code to view the NV-202 and NV-202P user's manual.
- 6. If user only purchase NC-11DF, the accessory only contain 2 x Wall plug and 2 x Screw.







Chapter 2. Product Specifications

Main Features

- Supports Real Time HD 720P
- Digital Wide Dynamic Range
- Adjustable Shutter Speed
- 3D+2D Digital Noise Reduction
- Adjustable Sense Up
- Day & Night Manual Switch Time Control
- Supports Power over Ethernet
- Built-in IR LED, 5M Available
- Supports 2-way Audio
- H.264/ M-JPEG Compression
- Micro SD Card Backup(Optional)
- Support iOS / Android / OS X / Windows
- SDK for Software Integration
- Free Bundle 36 ch Recording Software
- IR Distance up to 5M



Hardware	
CPU	Multimedia SoC
RAM	128MB
Flash ROM	16MB
Image Sensor	1 / 4" Mega-Pixel CMOS sensor
Sensitivity	Color : 0.2 Lux (AGC ON) B / W: 0.1 Lux (AGC ON)
Lens Type	2.8mm @ F1.8
View Angle	77.79°(H), 49.55°(V)
I/O	1 DI / 1 DO
ICR	Mechanism IR cut Filter
Audio	G.711(64K) and G.726(32K,24K) Input : Mic built-in Output: External Line out Support 2-way audio
Video Output	N/A
Power over Ethernet	Yes
Power Consumption	DC 12V Max: 2.52W(IR ON); 1.92W(IR Off) PoE Max: 802.3af, 3.36W (IR ON); 2.88W(IR Off)
Operating Temperature	0°C ~ 45°C



Dimensions	100mm (Ø) x 49mm (H)
Weight	180g
IR LEDs	
LEDs	6 LEDs, 850nM,
IR distance	5M
Network	
Ethernet	10/ 100 Base-T
Network Protocol	IPv6, IPv4, HTTP, HTTPS, SNMP, QoS/DSCP, Access list, IEEE 802.1X, RTSP, TCP/ IP,
Network Protocol	UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA, Bonjour

System	
Video Resolution	1280x800@30fps,1280x720@30fps,640x480@30fps,320x240@30fps, 176x144@30fps
Video Adjust	Brightness, Contrast, Hue, Saturation, Sharpness, AGC, Shutter Time, Sense-up, D-WDR, Anti Fog, Lens Distortion Correction, Flip, Mirror, Day&Night adjustable, Red Gain and Blue Gain, Denoise
Triple Streaming	Yes
Image Snapshot	Yes
Full Screen Monitoring	Yes
Privacy Mask	Yes, 3 different areas
Compression Format	H.264/ M-JPEG
Video Bitrates Adjust	CBR, CVBR
Motion Detection	Yes, 3 Different Areas



Triggered Action	Mail, FTP, Save to SD card, SAMBA, DO
Pre/ Post Alarm	Yes, configurable
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, 802.1X port-based authentication for network protection, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Simultaneous Connection	Up to 10
Micro SD card management	
Recording Trigger	Motion Detection, IP check, Network break down (wire only), Schedule, DI
Video Format	AVI, JPEG
Video Playback	Yes
Delete Files	Yes
Web browsing requirement	
OS	Windows 7, 2000, XP, 2003, Microsoft IE 6.0 or above, Chrome, Safari, Firefox.
Mobile Support	iOS 4.3 or above, Android 1.6 or above.
	Intel Dual Core 2.53G
Hardware Suggested	RAM: 1G
	Graphic card: 128MB

****SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.**



Chapter 3. Product Installation

3.1 Monitor Settings

Step1 Right-Click on the desktop. Select Properties

Arrange Icons By Refresh	•
Paste	
Paste Shortcut	
Save As Scheme	
Graphics Options	
Display Modes	•
New	•
Properties	

Step2 Change color quality to highest (32bit).





3.2 Hardware Installation





1. Dome Installation Steps





a. Open the dome by pressing the two sides shown in the following pictures:



b. Use screws to place the bottom of camera to the ceiling or the wall. Do not lock it completely because you might need to adjust the lens angle later.





c. Unscrew the lens for adjust the angle.



- d. After adjusting the lens tight the screw. Repeat steps b & C as many times you need during the whole process.
- e. Connect the Ethernet and Power adaptor.
- f. Carefully break the cover hole and plug-in the Ethernet and Power Adaptor.





g. After finishing performing steps b & C close tight the screws on for locking the dome into the ceiling.

h. Close the dome cover.

2. Connectors

The camera connectors are as below.









3. PoE (Power Over Ethernet)(Optional) 802.3af, 15.4W / 802.3at, 30W max.

*NV-202P is recommended

Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to a network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation. NV-202P supports IEEE802.3af / IEEE 802.3at standard. (Figure 3.1)



NC-22BC



Figure 3.1 NV-202P KIT and IP-Camera applications



3.3 IP Assignment

- 1. Use the software **IP Installer** to assign the IP address of the IP Camera. User can download the software via http://www.netsys.com.tw/support/download.html
- 2. **IP installer** supports two languages:
 - **a.** IPInstallerCht.exe : Chinese version
 - **b.** IPInstallerEng.exe : English version
- 3. There are 3 kinds of IP configuration.
 - **a.** Fixed IP (Public IP or Virtual IP)
 - **b.** DHCP (Dynamic IP)
 - **c.** Dial-up (PPPoE)
- 4. Execute **IP Installer**
- 5. For Windows XP SP2 users, it may popup the following message box. Click **Unblock**.





6. **IP Installer** configuration:

IP_Camera	192.168.001.200	Name		IP_C	amera	
		IP	192	168	1	200
		Netmask	255	255	255	0
		Gateway	192	168	1	254
		DNS 1	168	95	1	1
		DNS 2	168	95	192	1
		Port1		8	0	
		MAC	00:	0F:0D	:20:08	:5A
,	Search Device	•		[Sub	nit
To Change Device Name, IP address, and Gateway:						



- 7. **IP Installer** will search for all the IP Cameras connected on the LAN. The user can click **Search Device** to search again.
- 8. Click one of the IP Cameras listed on the left side. The network configuration of this IP camera will be shown on the right side. You can change the **name** of the IP Camera to your preference (e.g.: Office, warehouse). Change the parameters and click **Submit**, then click **OK**, it will apply the changes and reboot the device.

IPInst	aller	X
Rebo	oting,Plea	ise wait
Γ	ОК	
L		-

9. Please make sure the subnet of the PC IP address and the IP Camera IP address are the same.

The same Subnet:

IP Camera IP address: <u>192.168.1</u>.200

PC IP address: <u>192.168.1</u>.100

Different Subnets:

IP Camera IP address: <u>192.168.2</u>.200



PC IP address: <u>192.168.1</u>.100

To Change the PC IP address:

Control Panel \rightarrow Network Connections \rightarrow Local Area Connection Properties \rightarrow Internet Protocol (TCP/IP) \rightarrow Properties Make sure your IP Camera and PC are int the same Subnet. If not, change the IP Camera subnet or the PC IP subnet accordingly.

eneral Authentication Advanced Connect using:	General You can get IP settings assigned a this capability. Otherwise, you need the appropriate IP settings	automatically if your network supports d to ask your network administrator for
Configure	 Obtain an IP address automa Oute the following IP address: 	tically
Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks Client Client Scheduler Client Protocol (TCP/IP)	IP address: Subnet mask: Default gateway:	192 : 168 : 1 : 100 255 : 255 : 255 : 0 192 : 168 : 1 : 254
Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	 Obtain DNS server address a Use the following DNS server Preferred DNS server: Alternate DNS server: 	utomatically r addresses: 192 . 168 . 1 . 2 168 . 95 . 192 . 1
Show icon in notification area when connected		Advanced

10. A quick way to access remote monitoring is to left-click the mouse twice, on a selected IP Camera, listed on **Device list** of **IP Installer**. An IE browser will be opened.





11. Then, key-in the default user name: admin and password: admin.

Connect to 19	2.168.1.217
ğ] 1 0	
IP Camera	
User name:	🖸 admin 🔽
Password:	•••••
	Remember my password
	OK Cancel



1. For users of IE 6.0 or above:

When viewing the camera video for the first time via IE, the browser will ask you to install the ActiveX component.

🖉 IP_Camera - Windows Internet Explorer		
🚱 🗸 🖉 http://192.168.1.135/		Live EN English (United States)
File Edit View Favorites Tools Help		
😪 🏟 🌈 IP_Camera		🟠 🔹 🔝 🕘 🖶 🔹 🔂 Page 🗸 🎯 To
This website wants to install the following add-on: 'WE	EBWATCH2.cab' from 'Video System co., Ltd.'. If you trust the website and the a	dd-on and want to install it, click here

- 1. If the installation failed, please check the security settings in the IE browser.
 - a. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned
 ActiveX controls → Select Enable or Prompt.
 - b. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select Enable or Prompt.





1

?× Internet Options General Security Privacy Content Connections Programs Advanced Select a Web content zone to specify its security settings. Internet Local intranet Trusted sites Restricted sites Internet This zone contains all Web sites you Sites.. haven't placed in other zones Security level for this zone Custom Custom settings. To change the settings, click Custom Level.
To use the recommended settings, click Default Level. Custom Level... Default Level

OK

Cancel

Apply



_0	Enable				^
🕑 Bin	ary and script be	ehaviors			
X	Dicable	pprovea			_
\geq	Enable				
Do Do	wnload signed A	ctiveX cont	rols		
0	Disable				
Õ	Enable				
_ 0	Prompt				
🕑 Do	wnload unsigned	ActiveX co	Introls		
8	Disable				
	Promot				
- Int		A			c. 🗡
<	TI				
Reset cust	om settings				
Decet tex	Mar di una			Decet	
RESELTE:	i Medium		Y	Reset	

Security Settings	? 🛛
Settings:	
Disable Enable Prompt Download unsigned ActiveX contr Disable Enable Prompt Disable Enable Enable Enable Enable Run ActiveX controls and plug-ins	ols
Kashini Statuli	>
Reset custom settings Reset to: Medium	Reset K Cancel

When popup the following dialogue box, click "Yes".





2. You can choose another way:

Go to: IE \rightarrow Tools \rightarrow Internet Options... \rightarrow Security Tab \rightarrow Trusted sites \rightarrow Add the IP address and click **OK**.

In the site list you can key one single IP address or a LAN address. For example, if you add **192.168.21.***, all the IP address under **21.*** on the LAN will be regarded as trusted sites.





2. To Non-IE Web Browser Users

If you use Firefox or Google chrome to access the IP camera but fails to watch the live video, please follow the steps to install necessary tools:

(The following pictures are based on chrome.)

a. You may see the prompt message as the picture below. Click the link:

Firstly, please install Microsoft Visual C++ 2010 Redistributable Package (x86).



The link will conduct you to the Microsoft official site where you can download the tools. Please select the language and click **download**.



Microso (x86)	ft Visual C++ 2010 Redistri	butable Package 🛛 🗖 🖬
Quick links + Overview + System requirements + Instructions	The Microsoft Visual C++ 2010 Redistribi Visual C++ Libraries required to run appli computer that does not have Visual C++	utable Package installs runtime components o ications developed with Visual C++ on a 2010 installed.
↓ Additional information	Quick details	
	Version: 2019 Change language: English 💌	Date published: 4/12/2010
Looking for support?	File name	Size
Visit the Microsoft Support site now >	vcredist_x86.exe	4.8 MB DOWNLOAD

In the pop-up window, please tick the first and the third file as the picture below. Click **Next** to download both **Microsoft .NET Framework 4 Client Profile (Web Installer)** and **Microsoft Visual C++ 2010 Redistributable Package (x64)**.



ile name		Size	
Microsoft	Microsoft .NET Framework 4 Client Profile (Web Installer) The Microsoft .NET Framework 4 web installer package downloads and installs the .NET Framework components required to run on the target machine architecture and OS. An Internet connection is required during the installation. The Client Profile is used to run most client applications that target the .NET Framework 4.	868 KB	(j
Microsoft	Kinect for Windows SDK v1.0 The Kinect for Windows SDK enables developers to create applications that support gesture and voice recognition, using Kinect sensor technology on computers running Windows 7, Windows & developer preview (desktop apps only), and Windows Embedded-based devices.	226.8 MB	(i)
Microsoft	Microsoft Visual C++ 2010 Redistributable Package (x64) The Microsoft Visual C++ 2010 Redistributable Package installs runtime components of Visual C++ Libraries required to run applications developed with Visual C++ on a computer that does not have Visual C++ 2010 installed.	5.5 MB	1

After finishing downloading, execute the two files respectively to install them. The windows may ask you to reboot the PC when the installation is finished.





b. Then, click the second link Please click here to download the installation program which does not support IE browser to download Setup ActiveX.

After finishing downloading, execute the files to install **ActiveX**. Then restart the browser.

		SetupActiveX.e:	xe	
G	After finish download	Il Microsoft Visual C- mload the installation ing, disable the brown	++ 2010 Redistributable P program which does not s ser and implement the prog	<u>ackage (x86).</u> u <u>pport IE browser.</u> gram by manual.
default 🔽	Streaming 1 🔽	Chatting: 🗌	Online Visitor : 3	Relay Out: 〇 ON ④ OFF

c. If you execute the steps above but still cannot see live video normally, please try the following solution:

Search for the file **np_hoem_x.dll** in your system disk. For Windows XP users, please go to **Start** \rightarrow **Search** \rightarrow Search for **All files and folders** and key-in **np_hoem_x.dll**. For Windows 7 users, please use the search bar on the top-right of the Windows Explorer.





Delete all the files named **np_hoem_x.dll**. They're the **ActiveX** control tools installed in your computer, but the old version of **ActiveX** might not be compatible with the new version of the browser. Therefore, they need to be deleted in order to install the latest **ActiveX** control.





Start your web browser, and repeat the step 2-b: **Download the installation program which does not support IE browser** to download and install **ActiveX**.





Start an IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name: **admin** and password: **admin**.

Connect to 19	2.168.1.217	? 🔀
IP Camera User name:	🗭 admin	~
Password:	Remember my pass	word
		Caprel

When the IP Camera is successfully connected it shows the following interface.





- 1. Get into the administration page.
- 2. Video Snapshot.
- 3. Show the system time, video resolution, and video refreshing rate.
- 4. <u>Adjust image</u>: 1/2x, 1x, 2x.
- 5. <u>Streaming source</u>: If the streaming 2 is closed, this function will not be displayed.
- 6. Tick on **Chatting** for enabling two-way audio.



- 7. Shows how many people are connected to this IP camera.
- 8. Control the relay output connected to this camera.

Double-clicking on the video will change the view to full screen mode. Press **Esc** or double-click the video again for changing back to normal mode.

Right-Click the mouse on the video, it will show a pop-up menu.

<u>S</u> napshot	Null
<u>R</u> ecord Start	100
<u>M</u> ute	200
<u>F</u> ull Screen	300
<u>Z</u> oom	400
FrameBuffmSec 🕨	500

- 1. <u>Snapshot:</u> Save a JPEG picture.
- 2. <u>Record Start:</u> Record the video in the local PC. It will ask where to save the video. To stop recording, right-click again and Select **Record Stop**.

(The video format is AVI. Use Microsoft Media Player to play the recorded file.)

- 3. <u>Mute:</u> Turn-off the audio. Click again to turn on it.
- 4. Full Screen: Full-screen mode.
- 5. <u>Zoom:</u> Enable the zoom-in and zoom-out functions. First, select **Enable digital zoom** option within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.




Frame Buffer Sec: This function builds a temporary buffer to accumulate several video frames. This function can make video smooth-going when the Network speed is slow and lag. If you select **100**, the camera plays video 100 mSec after receiving images from camera. The slower the Network is the bigger value should be selected. The available values are: NULL, **100**, **200**, **300**, **400**, **and 500**. The default value is null.



Chapter 5. Camera Configuration





to go back to the live video page

	System Information	System Information	
		Server Information	
	Liter Managament	MAC Address: 00:0F:0D:22:9D:00	
1000	Con management	Server Name: IP_Camera Status Bar	
Svetem	System Lindata	LED Indicator: 🛞 ON 🔿 OFF	
System	slama oberra	Language: 🔮 English 💿 繁體中文 💿 简体中文 💿 French	
-	The second se	🔿 Russian 🔿 Italian 🔿 Spanish 🔿 German	
1	ile setting	Portuguese O Polish O Japanese	
Carl	Advanced	OSD Setting	
		Time Stamp:	
	PPPOE & DDNS	Text: Enabled Enabled	
	Server(Mall,Ftp)	OSD_Display Text Edit	
Network		Time Setting	
and a second stream		Server Time: 2011/11/28 16:48:41 Time Zone: GMT+08:00	-
-		Date Format: 🔮 yyimmidd 💿 mmiddiyy 💿 ddimmiyy	
	Image Setting	Time Zone: GMT+08:00	
		Enable Daylight Saving:	
	Video Setting	O NTP:	
A/V Setting	Audio	NTP Server : 198.123.30.132	
, a v ootting		Update : 6 🕶 Hour	
	The second second second	Time Shift : 0 Minutes [-1440_1440]	
	Event Setting	Synchronize with PC's time	
	Schedule	Date : 2011/11/28	
		Time : 16:44:6	
	VO setting	© Manual	
	Log List	Date : 2011/11/28	
		Time : 16:43:54	
Event	SD Card	The date and time remain the same	
	53	Арруу	



- I. System Information
 - a. Server Information: Set up the camera name, select language, and set up the camera time.
 - 1. Server Name: This is the Camera name. This name will be shown on the IP Installer.
 - 2. Select language: English, Traditional Chinese, and Simplified Chinese can be selected. When it changes, it will show the following dialogue box to confirm the language changing.



b. OSD Setting: Select a position where the date & time stamp / text are shown on the screen.

OSD Setting				
Time Stamp:	🔘 Enabled	💿 Disabled		
Text:	🔘 Enabled	💿 Disabled		
	Test _{Tex}	t Edit		



Moreover, click **Text Edit** for changing the OSD content, including text size and alpha. Finally, click the Upgrade button to keep the settings.



c. <u>Server time setting</u>: Select between the options NTP, Synchronize with PC's time, Manual, The date and time remain the same for setting the time.



erver Time:	2011/11/28 18:4	8:45 Time Zone: (GMT+08:00	
Date Format:	yy/mm/dd	🔘 mm/dd/yy 🔘	dd/mm/yy	
Time Zone:	GMT+08:00			
Enable Daylight	nt Saving:			
	Month	Week	Day of Week	Time
DST Start:	Mar 👻	2nd 👻	Sun 👻	12 am 👻
DST End:	Nov 👻	1st 👻	Sat 👻	12 am 👻
◎ NTP:				
NTP Server :	198.123.30.132			
Update :	6 THOU	r		
Time Shift:	0 Minu	ites [-14401440]		
Synchronize v	vith PC's time			
Date :	2011/11/28			
Time :	18:44:11			
🔍 Manual				
Date :	2011/11/28			
Time	18-43-47			

II. User Management

The IP Camera supports three different users: administrator, general, and anonymous user.



User Management				
Anonymous Use	r Login			
	○YES	💿 NO		
Universal Passw	ord (differs by IP /	Address)		
	🔘 yes	💿 NO	Setting	
Add User				
Username:				
Password:				
Confirm:				
			Add/Set	
User List				
Username	User Group	Modify	Remove	
admin	Administrator	Edit		
as	Guest	Edit	Remove	

a. Anonymous User Login:

Select "**Yes**" for allowing everybody to watch live video without username and password. However, if you try to enter the configuration page the camera will ask you to key-in the username and password.

Select "No" for requiring a username and login to access the camera.

b. Universal Password:

Select **"Yes**" for allowing login to this IP Cam by universal password. Please refer to **Universal Password** chapter for more explanations. Select **"No**" for disabling universal password.



c. Add user

Type the user name and password, then click **Add/Set**. The guest user can only browse live video page and is not allowed to enter the configuration page.

d. Click "edit" or "delete" in the user list to modify them. The system will ask you to key-in the password in the pop-up window before you edit the user information.

	User Setup	
Username:	AS	
Password:		
Confirm:		ОК



III. System update

	System Update
Firmware Upgrade	
Firmware Version:	V3.2.11
New Firmware:	瀏覽
	Upgrade
Reboot System	
	Start
Factory Default	
	Start
Setting Management	
	Right click the mouse button on Setting Download
Save As a File:	and then select Save As to save current system's
	setting in the PC.
New Setting File:	瀏覽
	Upgrade

- a. To update the firmware online, click **Browse...** to select the firmware. Then click **Upgrade** to proceed.
- b. Reboot system: re-start the IP camera
- c. Factory default: delete all the settings of this IP camera.
- d. <u>Setting Management</u>: The user can download the current settings to PC, or upgrade from previous saved settings.
 - 1. Settings download:

Right-click the mouse button on Setting Download \rightarrow Select **Save AS**... to save current IP Camera settings in PC \rightarrow Select saving directory \rightarrow Save

2. Upgrade from previous settings

Browse \rightarrow search previous settings \rightarrow open \rightarrow upgrade \rightarrow Settings update confirm \rightarrow click <u>index.html</u>. for returning to the main page



Click	to get	into the administration page. Click to go back	to the live video page.
-	System Information	System Information Server Information	
20	User Management	MAC Address: 00:0F:0D:22:3D:00 Server Name: IP_Camera Estatus Bar	
System	System Update	LED indicator: ④ ON ⑤ OFF Language: ④ English ⑤ 繁體中文 ⑤ 简体中文 ◎ French	
	IP Setting	ී Russian ී Italian ී Spanish ී German ලි Portuguese ී Polish ී Japanese	
Card	Advanced	OSD Setting	
	DDDAE & DDNS	Time Stamp: O Enabled O Disabled	
		Text: C Enabled @ Disabled	
	Server(Mall,Ftp)	OSD_Display Text Edit	
Network	,	Time Setting	
		Server Time: 2011/11/28 16:48:41 Time Zone: GMT+08:00	
		Date Format:	
1	image Setting	Time Zone: GMT+08:00	
	Video Setting	Enable Daylight Saving:	
		© NTP:	
A/V Setting	Audio	NTP Server : 195.123.30.132	
je se	×	Update : c 👻 Hour	
	Event Setting	Time Shift : 0 Minutes [-1440_1440]	
		Synchronize with PC's time	
	Schedule	Date : 2011/11/28	
	NO Reffine	Time: 16:44:6	
		© Manual	
	Log List	Date : 2011/11/28	
Event	10.004	Time : 16:43:54	
Event	au card	The date and time remain the same Apply	



Advanced IP Settings

IP Assignment

The IP Camera supports DHCP and static IP

	IP Setting
IP Assignment	
OHCP	
Static	
IP Address:	192.168.1.200
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.254
DNS 0:	168.95.1.1
DNS 1:	168.95.192.1

- a. <u>DHCP:</u> The IP Camera will get all the network parameters automatically.
- b. <u>Static IP:</u> Type-in the IP address subnet mask, gateway, and DNS.



IPv6 Assignment

IPv6 Assignment	
IPv6 Enabled:	
🗹 Manually setup the lf	Pv6 address:
ID & Address Orefue	:: /
IPVO AUGLESS/PLEIIX:	64
IPv6 Gateway:	:
IPv6 DNS:	:
DHCPv6:	🔘 Enabled 💿 Disabled
IPv6 Address: fe80::20f:dff:fe00:284d	

By enabling DHCPv6 you can configure the following IPv6 address settings:

- ✓ Manually setup the IPv6 address: Key-in the Address, Gateway, and DNS.
- ✓ <u>DHCPv6:</u> If you have a DHCPv6 server, enable it to assign the IPv6 automatically. The assigned IP address will be displayed beside the column.
- ✓ <u>Automatically generated IPv6 Address</u>: Indicates a virtual IPv6 address generated automatically by the IP camera. This virtual IPv6 address cannot be used on WAN.

To use IPv6 address to access the IP camera, open the web browser, and key-in the **[IPv6 address]** in the address bar. The [] parentheses mark is necessary





a. <u>Port Assignment</u>: The user might need to assign a different port to avoid conflicts when setting up the IP.

Port Assignment				
Web Page Port:	80			
HTTPS Port:	443	HTTPS Setting		

- b. <u>Web Page Port:</u> setup the web page connecting port and video transmitting port (Default: 80)
- c. <u>HTTPs Port:</u> setup the https port(Default: 443)

UPnP

UPnP			
UPnP:	💿 Enabled	O Disabled	
UPnP Port Forwarding:	Enabled	💿 Disabled	
External Web Port:	80		
External HTTPS Port:	443		
External RTSP Port:	554		

This IP camera supports UPnP, if this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to **My Network Places**.



<u>UPnP Port Forwarding</u> : Enable UPnP Port Forwarding for accessing the IP Camera from the Internet; this option allows the IP Camera to open ports on the router automatically so that video streams can be sent out from a LAN. There are three external ports for being set: **Web Port**, **Http Port** and **RTSP** port. To utilize of this feature, make sure that your router supports **UPnP** and is activated.

Note: UPnP must be enabled on your computer.

**Please follow the procedure to activate UPnP:

Approach 1

- 1. Open the Control Panel from the Start Menu.
- 2. Select Add/Remove Programs.
- 3. Select Add/Remove Windows Components and open Networking Services section.
- 4. Click Details and select UPnP to setup the service.
- 5. The IP device icon will be added to My Network Places.
- 6. The user may double click the IP device icon to access IE browser.

Approach 2

- 1. Open My **Network Space.**
- 2. Click **Show icons for networked UPnP devices** in the tasks column on the left of the page.
- 3. Windows might ask your confirmation for enabling the components. Click Yes.





4. Now the IP device is displayed under the LAN. Double-click the icon to access the camera via web browser. To disable the UPnP, click **Hide icons for networked UPnP devices** in the tasks column.





RTSP setting

RTSP Setting		
RTSP Server:	💿 Enabled 💦 🔿 Disabled	
RTSP Authentication:	Disable 💌	
RTSP Port :	554	
RTP Start Port:	5000	[10249997]
RTP End port:	9000	[102710000]

If you have a media player that supports RTSP protocol, you can use it to receive video streaming from the IP camera. The RTSP address can be set for two streaming respectively.

- 1. <u>RTSP Server</u>: enable or disable
- ✓ Disable means everyone who knows your camera IP Address can link to your camera via RTSP. No username and password are required.

✓ Under **Basic** and **Digest** authentication mode, the camera asks for a username and password before allows access.

✓ The password is transmitted as a clear text under basic mode, which provides a lower level of security than under **digest** mode.

✓ Make sure your media player supports the authentication schemes.

- 2. <u>RTSP Port:</u> setup port for RTSP transmitting (Default: 554)
- 3. <u>RTP Start and End Port:</u> in RTSP mode, you can use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port



Multicast Setting (Based on the RTSP Server)

Multicast Setting (B	ased on the RTSP Ser	ver)
Streaming 1:		
IP Address:	234.5.6.78	[224.3.1.0 ~ 239.255.255.255]
Port:	6000	[1 ~ 65535]
TTL:	15	[1 ~ 255]
Streaming 2:		
IP Address:	234.5.6.79	[224.3.1.0 ~ 239.255.255.255]
Port:	6001	[1 ~ 65535]
TTL:	15	[1 ~ 255]

- Multicast is a bandwidth conservation technology. This function allows several users to share the same packet sent from the IP camera.
- ✓ For using Multicast, appoint here an IP Address and port. TTL means the life time of packet, the larger the value is, the more users can receive the packet.
- ✓ For using Multicast, be sure to enable the function Force Multicast RTP via RTSP in your media player. Then key in the RTSP path of your camera: rtsp ://(IP address)/ to receive the multicast.

ONVIF

ONVIF			
ONVIF:	⊙∨2.10/∨1.02	○v1.01	O Disabled
Security:	Enabled	💿 Disabled	
RTSP Keepalive:	Enabled	O Disabled	



1. Choose your ONVIF version and settings

Under ONVIF connection, the video will be transmitted by RTSP. Be sure to enable the RTSP server in IP setting, otherwise the IP Camera will not be able to receive the video via ONVIF.

2. Security

By selecting **Disable**, the username and password are not required for accessing the camera via ONVIF. By selecting **Enable** the username and password are necessary.

3. RTSP Keepalive:

When the function is enabled, the camera checks once in a while if the user who is connected to the camera via ONVIF is still connected. If the connection has been broken the camera will stop transmitting video to the user

Bonjour

Bonjour				
Bonjour:	○ Enabled	Oisabled		
Bonjour Name:	IP_Camera	@00:0F:0D:00:28:4D		

- ✓ This function allows Apple systems to connect to this IP camera. On **Bonjour Name** key-in the name here
- ✓ The web browser **Safari** also has a Bonjour function. Tick **Include Bonjour** in the bookmark setting, for the IP camera to appear under the bonjour category. Click the icon to connect to the IP camera



- The Bonjour function on Safari browser doesn't support HTTPS protocol. If on the camera you select https, the camera will appear on Safari's bookmarks but it cannot be accessed
- \checkmark Take as a reference the following image:





LLTD

LLTD (Link Layer Topology Discovery)			
LLTD:	📀 Enabled	O Disabled	

- If your PC supports LLTD, enable this function for allowing checking the connection status, properties, and device location (IP address) in the network map.
- ✓ If the computer is running Windows Vista or Windows 7, you can find LLTD through the path:



Control Panel \rightarrow Network and Internet \rightarrow Network and Sharing Center \rightarrow Click See full map



II. Advanced

a. Https (Hypertext Transfer Protocol Secure

When the users access cameras via Https protocol, the transmitted information will be encrypted, increasing the security level.

	Connection Types
Http&Https 🔽	
Http	
Https	
Http&Https	

Select the connection type:

- ✓ <u>Http:</u> the user can access the camera via the Http path but cannot access it via the Https path.
- ✓ <u>Https:</u> the user can access the camera via the Https path but cannot access it via the Http path.
- <u>Http & Https:</u> Both the Http and Https path can be used to access the camera. When you change the connection type settings, it may cause connection error or disconnection error if you switch the protocol directly. Therefore, **Http & Https** mode is necessary.

If you want to change from Http to Https, please switch to **Http & Https** mode first, and then switch to **Https** mode and vice versa.

The Https protocol has a verifying mechanism. When the user access a website via Https, the browser will check the



certificate of that domain and verify its trustiness and security.

Certificate generation process:



Remove the existing certificate: Before you generate a new certificate, please remove the installed one. Select the **Http** connection type and click **Remove**. If a dialog box pops up to ask you to confirm, click **Yes**.

	Https Setting
Created I	Request
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	2011/Sep/23 10:04:17
	Content Remove
Installed	Certificate
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	Apr 23 09:05:24 2011 GMT
	Content Remove
	Connection Types
Http	•



<u>Created Request:</u> Fill-in the following form and click **apply**.

Https Setting	
Create Request	
Country: State or province: Locality: Organization: Organizational Unit: Common Name:	
State or province: Locality: Organization: Organizational Unit: Common Name:	

After generating a certificate request, if you choose to turn it and verified by a trusted third-party, click **Content** and copy all the request content.

Created Request	Certificate Request:
Created Request Subject: C=TW, ST=, L=, O=, OU=, CN= Date: 2012/Sep/25 08:49:23 Content Terrove	Certificate Request: Data: Version: 0 (0x0) Subject: C=TW Subject Public Key Info: Public-Key: (1024 bit) Modulus: 00:b8:cb:17:f7:b6:14:5d:92:99:ae:73:52:7c 09:2a:ad:a6:50:39:5a:3c:09:10:15:85:ad:30 cc:e0:b2:7c:29:3e:d1:e7:15:c4:f2:4f:de:af 98:f8:71:53:a3:43:0b:2c:1a:20:94:32:76:b5 72:c8:bc:87:35:3f:c7:fc:17:8f:c3:1f:2d:af 33:3c:9a:28:3b:31:46:d8:c7:26:37:af:fb:5c aa:b0:a1:75:6a:f9:02:ca:c9:be:49:c9:2a:74 cb:b0:95:1e:63:89:f6:07:6c:cf:1c:5b:38:4e 29:a8:55:82:92:95:bc:74:15 Exponent: 65537 (0x10001) Attributes: a0:00 Signature Algorithm: shaWithRSAEncryption 9b:4c:13:01:cc:10:2a:bc:3c:22:f2:10:e7:48:19:52:98:5e c9:ae:5:60:21:e2:2:5:00:47:45:00:2a:ba:75
	c9: ae: 5a: 14: 70: c9: 7d: 18: 6c: 21: e3: ab: 9b: 4b: 60: 2a: ba: 7 23: ce: 7a: 90: 9c: 90: b5: a7: 41: 36: 2c: c4: f4: 34: 55: e5: d0: 92 9d: 32: d3: e4: 2b: d1: 10: 47: c5: 8b: 9c: 6A: d4: 38: e3: a6: 73: a0: a5



According to the certificate source, there are two ways to install the certificate:

If you had sent the certificate request for signing and receiving a signed certificate, click **browse** and find the certificate file in your computer. Click **Apply** to install it.

If you choose to generate a self-signed certificate, fill-in the following forms and set the validity day, click **Apply** to finish installed it.

Install Signed Certifica	te	
Signed Certificate:		瀏覽 Apply
Create Self-Signed Cer	tificate	
Country: State or province: Locality: Organization: Organizational Unit: Common Name: Validity:	Days	
		Apply



After finishing the installation, click on Content to call out and check the certificate content

Installed Certificate			
Subject:	C=AC , ST= , L= , O= , OU= , CN=name		
Date:	Oct 4 08:35:29 2012 GMT		
	Content		

To use Https to access the camera, open your browser, and key-in **https:// (IP address)/** in the address bar. Now your data will be transmitted via encrypted communications. The browser will check your certificate status. It might show the following warning message:

The site's security certificate is not trusted!
You attempted to reach 60.251.82.60 , but the server presented a certificate issued by an entity that is not trusted by your computer's operating system. This may mean that the server has generated its own security credentials, which Google Chrome cannot rely on for identity information, or an attacker may be trying to intercept your communications.
You should not proceed, especially if you have never seen this warning before for this site.
Help me understand

Meaning that certificate is self-signed or signed by a distrusted institution. Click **Proceed anyway** for continuing to the camera page.



b. SNMP (Simple Network Management Protocol)

1. SNMPv1 or SNMPv2: write the name of both Write Community and Read Community.

	SNMP	
SNMP Setting		
SNMPv1 SNMPv2c		
Write Community:	write	
Read Community:	public	

2. SNMPv3: Set the Security Name, Authentication Type, Authentication Password, Encryption Type, Encryption Password of Write mode and Read mode

SNMPv3		
Write Security Name:	write	
Authentication Type:	⊙ MD5 ○ SHA	
Authentication Password:	••••••	
Encryption Type:	⊙ DES ○ AES	
Encryption Password:	•••••	
Read Security Name:	public	
Authentication Type:	⊙ MD5 ○ SHA	
Authentication Password:		
Encryption Type:	⊙des ○aes	
Encryption Password:	•••••	
1		



3. Enable SNMPv1/SNMPv2 Trap for detecting the Trap server

Please set what event needs to be detected.

SNMPv1/v2c Trap	
Trap Address:	
Trap Community:	public
Trap Event:	🔲 Cold Start 🔲 Warm Start 🔲 Link Up
	Authentication Failed 🔲 SD Detect

- \checkmark <u>Cold Start:</u> The camera starts up or reboots.
- ✓ <u>Setting changed:</u> The SNMP settings have been changed.
- <u>Network Disconnected</u>: The network connection was broken down (The camera will send trap messages after the network is connected again).
- ✓ <u>V3 Authentication Failed:</u> A SNMPv3 user account tries to get authentication but failed.(Due to incorrect password or community)
- ✓ <u>SD Insert / Remove:</u> A Micro SD card is inserted or removed.
- c. Access list:

Enable IP address filter for setting the IP addresses which allows or denies this camera. There are two options: **single** and **range**.



le ip ao ing: add	Idress filter allow C deny single address: single range		
No.	IP Address	Filter	Action
1			remove
2			remove
3			remove
4			remove
5			remove
6			remove
7			remove
8			remove
9			remove
			remove

d. QoS/DSCP(Quality of Server/Differentiated Services Code-point):

DSCP specifies a simple mechanism for classifying and managing network traffic; and provide QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose. Please define it for **Live Stream**, **Event / Alarm and Management**



		QoS/DSCP	
QoS/DSCP Setting			
Enable QoS/DSCP			
Live Stream:	0	(0~63)	
Event / Alarm:	0	(0~63)	
Management:	0	(0~63)	
			Apply

e. IEEE 802.1x:

IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to a device on a LAN or WLAN.

The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.



Please check what version of the authenticator and authentication server is supported. This camera supports EAP-TLS method. Please enter the ID, password issued by the CA, then upload related certificates.



IEEE 802.1	x/EAP-TLS
IEEE 802.1x Setting	
Enable IEEE 802.1x	
Identity:	
Private key password:	
	Apply
CA certificate:	Upload 瀏覽
Status:	Remove
Client certificate:	Upload 瀏覽
Status:	Remove
Client private key:	Upload 瀏覽
Status:	Remove

III. PPPoE & DDNS

	PPPoE	
PPPoE Setting		
O Enabled Username: Password:	Disabled	
Send mail after d	ialed	
Enabled		
Subject:	PPPoF From IPcam	Annly



a. PPPoE: Select **Enabled** to use PPPoE. Key-in the the Username and password for VDSL connection.

Send mail after dialed: When connected to the internet, the camera will send a mail to a specific mail account.

b. DDNS (camddns example):

DDNS			
DDNS Setting			
🔵 Enabled 🛛 💿 🛛	lisabled		
Provider:	ddns.camddns.com	n 💌	
Username:			
Schedule Update:	1440	Minutes	
State			
ldle		< >	
		Apply	
 Note: 1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off. 2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is 			
recommended.	s apadic in every 144	v minutos is	



- 1. Enable this service.
- 2. Key-in the username.
- 3. IP schedule update. Default: 5 minutes.
- 4. Click Apply.

DDNS Status

- 1. Updating: Information update
- 2. Idle: Stop service.
- DDNS registration successful, can now log by <u>http://<username>.ddns.camddns.com</u>: Register successfully.
- 4. Update Failed, the name is already registered: The user name has already been used. Please change it.
- 5. Update Failed; please check your internet connection: Network connection failed.
- 6. Update Failed, please check the account information you provided: The server, user name, and password may be wrong.

IV. Server settings

There are three server types available: **Email**, **FTP** and **SAMBA**. Select the item for display detailed configuration options. You can configure either one or all of them.

To send out the video via mail of FTP, please set up the configuration first.



	Serve	r Settings		
Mail Setting				
Login Method:	Account .	·		
Mail Server:				
Username:				
Password:				
Sender's Mail:				
Receiver's Mail:				
Bcc Mail:				
Mail Port:	25		(Default 25)	
Secure Connect:	🖲 TLS 🔍 SS	L		
				Test
FTP Setting				
Samba (Network storage)				
				Apply

FTP

To send out the video via mail of FTP, please set up the configuration.

TP Setting		
FTP Server:		
Username:		
Password:		
Port:	21	
Path:	/	
Mode:	PORT -	
Create the folder:	Yes 🔻 (ex:Path/20100115/121032m.avi)	
		Tes



Samba

Select this option to send the media files via a neighbor network when an event is triggered.

Samba (Network storage)		
Location:	(ex:\\Nas_ip\folder)	
Workgroup:		
Username:		
Password:		
Create the folder:	Yes 🔻 (ex:Path/20100115/121032m.avi)	
		Test

Click **Apply** to save the setting, then use **Test** button to test the server connection. A message box will tell you **OK!** if it works, and a test document will be created in the location.

If the test failed, check the sharing setting of your location folder. The folder properties must be **shared** and the permissions must be **Full Control** as the picture.



est Folder Properties General Sharing Security	Permissions for ACT	Share	<u>? ×</u>
You can share this folder among other users on your network. To enable sharing for this folder, click Shar folder.	re this		Add Remove
Share name: ACTShare Comment: User limit: Maximum allowed Allow Users Users	Permissions: Full Control Change	Allo V	w Deny
To set permissions for how users access this folder over the network, click Permissions. To configure settings for Offline access to this shared folder, click Caching.	ns Read		
OK Cancel A	pply	OK Cancel	Apply



1. Image Setting

Please refer to the details below for image settings:

Privacy Mask	
	Area 1 Area 2 Area 3 Save a
Image Setting	
Brightness:	0 •
Contrast:	0 •
Hue:	0 v b
Saturation:	0 •
Sharpness:	0 •
AGC:	C 16x T
Shutter Time:	C Outdoor V
Sense-Up:	e 1/15 T
D-WDR:	f Off •
Anti Fog:	g 🗆 Enable
Lens Distortion Correction:	h OFF •
Video Orientation:	🔲 Flip 🔲 Mirror
Day & Night:	Light Sensor Mode 🔻
Night to Day Lux:	7 lux ▼ (about) Day to Night Lux: 3 lux ▼ (about)
Current Lux:	over 55 lux (about)
Red Gain:	K 0 ▼ Blue Gain: 0 ▼
Denoise:	3D: 5 V 2D: 1 V Default



a. For security and privacy purposes, there are three areas that can be set up for privacy. Click the Area button first, and then drag an area on the above image. Remember to save your settings. The masked area will not be shown on both live view and recording image.

b. <u>Brightness</u>, <u>Contrast</u>, <u>Hue</u>, <u>Saturation</u>, <u>Sharpness</u> can be adjusted here. The available values are: -4, -3, -2, -1, 0, 1, 2, 3, 4.

c. <u>AGC</u>: The sensitivity of the camera can be adjusted to the environmental lighting. By enabling this function the camera will get brighter images on low light, but the level of noise may also increase. The available values are: **16x**, **24x**, **32x**, **48x**, **64x**.

d. <u>Shutter Time</u>: Choose the location of your camera or a fixed shutter time. The shorter the shutter time is the less light the camera receives and the image becomes darker.

Note: When you select a number in **Shutter Time**, the shutter time will vary in a range and be controlled by camera automatically. The following table shows the shutter time options and corresponding range.


Option	Shutter Time Range (sec.)
Outdoor	1/33000 ~ Selected number in Sense-up
Indoor	NTSC: 1/120 ~ Selected number in Sense-up
	PAL: 1/100 ~ Selected number in Sense-up
1/30	1/33000 ~ 1/30
1/50	1/33000 ~ 1/50
1/60	1/33000 ~ 1/60
1/100	1/33000 ~ 1/100
1/125	1/33000 ~ 1/125
1/250	1/33000 ~ 1/250
1/500	1/33000 ~ 1/500
1/1000	1/33000 ~ 1/1000
1/33000	1/33000
* Sense-up	options: 1/30, 1/15, 1/10



The IP Camera provides multiple event settings.

1. Event Setting

a. Motion Detection



To enable motion detection, tick Area 1/2/3. Click Area 1/2/3 in Area Setting, and draw an area on the preview screen. When motion is detected in the area, the word Motion! will be displayed on the live screen. The camera will send video or snapshot to specific mail addresses, trigger the output device, or save video to FTP/ Micro SD card/ Samba.

By selecting save to SD card, the video or snapshot will be saved to the Micro SD card. Also, by ticking E-mail/ FTP/ Samba on the Log option, the motion detection log will be sent to E-mail/ FTP/ Samba simultaneously.



- <u>Interval:</u> For example, when selecting "10 sec", once the motion is detected and the action is triggered, it cannot be triggered again within 10 seconds.
- <u>Based on the schedule:</u> When the option box is ticked, only during the selected schedule time the motion detection is enabled.

b. Tampering Detection

Tampering Detection	n
Tampering:	O Enabled 💿 Disabled
	E-mail FTP Out1 Save to SD card Samba
Interval:	30 sec 💌

When the camera view is covered, moved, hit by strong light, or out of focus, the tampering detection will be triggered, and send snapshots to mail/FTP/Samba/SD card, or trigger the external alarm. For example:

Before Tampering Detection





Tampering Triggered (Defocused)





Before Tampering Detection



Before Tampering Detection



Before Tampering Detection







Tampering Triggered (Glare)



Tampering Triggered (Camera Moved)





<u>Interval</u>: The tampering detecting interval. Take the diagram below as example. The interval is set for 30 second; the camera lens is covered during 10 - 40 sec. At time point B, the camera compares the view with time point A, and sends an alarm when it founds that the lens is covered. At time point C, the camera compares the view with time point B, and sends an alarm when it founds that the lens is uncovered.



c. Record File

Record File		
File Format:	AVI File(with Record Time Setting)	

When an event occurs, the IP camera will record a video clip or take snapshot, and then send to mail/ FTP/ Samba. Select the file format to be saved.

• <u>AVI File (with Record Time Setting)</u>: Save AVI video file. The video length is according to the value set in Record Time Setting.



• <u>JPEG Files (with Record Time Setting)</u>: This option is enabled when selecting **JPEG** video format in **streaming 1** on **Video Setting**, this option can be enabled. Select this option to save several JPEG picture files. The successive picture files cover a period of time according to the value set in **Record Time Setting**.

• JPEG File (Single File with Interval Setting): Save a single JPEG picture file when the event occurs.

d. Record Time Setting

Record Time Set	ting		
Pre Alarm:	5 sec 💌	Post Alarm:	5 sec 💌

When an event occurs, the IP camera can record a video clip or take a snapshot, and then send it via mail/ FTP/ Samba. Select the video recording length before and after the event is detected.





e. Network Dis-connected:

The IP Camera will scan the network. The image will be record to the SD card after the IP Camera detects network dis-connected, if set **Save to SD card**.

f. Network IP check:

After enabling IP Check, the IP camera can check if the network server is connecting. If the IP camera checking failed, the image will be recorded into the SD card.

Network IP Check	
IP Check:	© Enabled
IP Address:	www.google.com
Interval:	30 sec 💌
Chock failed:	Connection failed four times. Reboot IP Camera.
Check falled.	Save to SD card



2. Schedule

											S	ch	ed	ule	2										
All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Mon.																									
Tue.																									
Wed.																									
Thu.																									
Fri.																									
Sat.																									
Sun.																									
									Γ	١	Nit	h s	che	edu	le s	etu	ıp.								
											- 5	Sna	psl	hot											
⊂Er	nab	led		۲	Dis	abl	ed																		
Snaps	sho	t:			E-I	mai	il [F	TP		Sa	ive	to	SD	cal	rd		Sar	nba	1					
Interv	al:			10	1			Ser	:on	dís	a [1	15	nnr	າດາ											
File Na	am	e:		SI	nap	sh	Dt																		
																									Apply

a. <u>Schedule:</u> After completing the schedule setup, the camera data will be recorded according to the schedule setup.

b. Snapshot: After enabling the snapshot function; the user can select the storage position of the snapshot file,

the interval time of the snapshot and the reserved file name of the snapshot.

c. Interval: The interval between two snapshots.



3. I/O Setting

		I/O Setting
Input Setting		
Input 1 Sensor:	N.O 💌	
Input 1 Action:	E-mail FTP	Out1 Save to SD card Samba
Subject:	GPIO In Detected!	
Interval:	10 sec 💌	
🔲 Based on the	<u>schedule</u>	
Output Setting		
Mode Setting:	OnOff Switch	O Time Switch
interval:	10 sec \vee	

a. Input Setting:

The IP Cam supports input and output. When the input condition is triggered the camera will trigger the relay; send video to mail addresses or /FTP server / SAMBA.

• Interval:

For example, when selecting **10 sec**, once the motion is detected and the action is triggered, it cannot be

triggered again within 10 seconds.

• Based on the schedule:

Only when the option box is ticked, the selected schedule time for I/O is enabled. For example, if the 11th hour of Monday has not been colored in the schedule table, then no action will be triggered even if the camera detects input signal during 11:00~12:00 on Monday.



b. Output Setting:

The output mode affects the DO or relay out duration.

• <u>ON/Off Switch:</u> The camera triggers the external device and lasts for 10 seconds. You can turn off the alarm

manually by clicking **off** at the right bottom of the live video page.

Relay Out1:
ON OFF

• <u>Time Switch:</u> The camera triggers the external device and lasts for certain time according to the internal setting, and the user is not allowed to break off the alarm manually.

4. Log List

Log List	
System Logs	
	Logs
Motion Detection Logs	
	Logs
I/O Logs	
	Logs
All Logs	
	Logs



Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.



5. SD Card

a. Playback

Insert the Micro SD card before using it. Make sure to push the Micro SD card completely into the slot. Click the date listed on this page for showing the video list. The video format is AVI. Click the video to start Microsoft Media Player to play it. To delete the video, check it, and then click **Del**.



	2006/04/17						
Time	Video	Event Type					
09:05:22	090522f.avi	Network Dis-connected					
09:05:52	090552f.avi	Network Dis-connected					
09:06:22	090622f.avi	Network Dis-connected					
09:06:52	090652f.avi	Network Dis-connected					
09:07:22	090722f.avi	Network Dis-connected					
09:07:52	090752f.avi	Network Dis-connected					
09:08:22	090822f.avi	Network Dis-connected					
09:08:51	090851f.avi	Network Dis-connected					
09:09:21	090921f.avi	Network Dis-connected					
09:09:51	090951f.avi	Network Dis-connected					

b. SD Management

When choosing **The 1st day** the recoding file will be kept for one day.

The oldest file will be deleted if the Micro SD card is full.

	Play	/back	
	No S	D card	
	SD Man	agement	
Auto Deletion:	Off 👻	(Keep 1/ 2/ 3/ 4days)	
	Off The 1st day The 2nd day		Apply
	The 3rd day The 4th day The 5th day		
	The 6th day The 7th day The 8th day		
	The 9th day The 10th day		
	The 15th day The 20th day The 25th day		
	The 30th day		



Note: The use of the SD card will slightly affect the operation of the IP Camera, such as affecting the frame rate of the video.

c. Copy to PC

You can insert the Micro SD card to the PC and read the files directly, or use **FlashGet** instead to download the files from the IP camera. (In this way you do not need to pull out the Micro SD card from the camera.)

For using **FlashGet** to download image and video data from the Micro SD card, please follow the steps:

(i) Enter data list and right-click **Files link daily**, select **save target as...** then save the link list to PC.





(ii) Open FlashGet, select File \rightarrow Import \rightarrow Import list, and find the link list file you just saved. The file name may be called **SD_list**.



(iii) **FlashGet** will show you the link list, and you can tick the files you want to copy to your PC. Give the directory path in the new download window, and remember to enable **Login to Server**: key in the IP Camera username and password.





(iv) Click **OK** to start download.



• FlashGet is a free software that can be downloaded from FlashGet official website. The example above is based on FlashGet ver.1.9.6.



I. Configuration 1:



- a. Internet Access: NV-202 and NV-202P(Ethernet Extender)
- b. IP address: One real IP or one dynamic IP
- c. Only the IP Camera is connected to the internet.
- d. For fixed real IP, set up the IP into IP Camera. For dynamic IP, start PPPoE.



NC-11DF 1 Megapixel Indoor Dome IP Camera User's Manual Ver.A2



- a. Internet Access: NV-202 and NV-202P(Ethernet Extender)
- b. IP address: More than one real IP or one dynamic IP
- c. IP Camera and PC connect to the internet
- d. For fixed real IP, set up the IP into IP Camera and PC. For dynamic IP, start PPPoE.



1. I/O Connection

- a. Connect the G (GND) & DO pin to the external relay (buzzer) device.
- b. Connect the **G** (GND) & **DI** pin to the external trigger device.



When no event occurs, the DO output is 5V (DO and GND are disconnected). When the camera detects events it will trigger and external alarm, DO output is 0V (DO and GND are connected).





If you select **N.O** on **Input sensor setting**, when the switch contacts are opened, the camera input alarm will be triggered and will execute the action user has set, for example, send a snapshot to E-mail address.

If you select **N.C** in **Input sensor setting**, when the switch contacts are closed, the camera input alarm will be triggered and will execute the action user has set, for example, send a snapshot to E-mail address.





c. I/O PIN definition

- **GND (Ground):** Initial state is LOW
- DO (Digital Output): DC 5V
- DI (Digital Input): Max. 50mA, DC 5V
- 2. I/O Setup
- a. Click I/O Setting from the system setup page via IE, and check **Out1** to enable I/O signal

	I/O Setting	
Input Setting		
Input 1 Sensor: Input 1 Action: Input 2 Sensor: Input 2 Action: Subject: Interval:	N.O E-mail FTP Out1 Save to SD card Samba N.O E-mail FTP Out1 Save to SD card Samba GPIO In Detected! 10 sec a schedule	
Output Setting	s <u>seriestano</u>	
Mode Setting: Interval:	OnOff Switch O Time Switch 10 sec	



b. Output Test

After the external input and output hardware is installed, you can use the **Relay Out** bottom on the live video page to test if DO / Relay Out works.

i. On Off Switch mode:

Clicking **ON** will trigger the external output device for 10 seconds. For example, your alarm buzzer will continuously ring for 10 seconds. After 10 seconds the buzzer stops ringing, or you can manually break off the output signal by clicking **OFF**

Relay Out1: 🖲 ON 🔘 OFF

ii. Time Switch mode:

Click **Pulse**, the camera will trigger the external output device for several seconds; the duration length is according to the **interval** setting in Output Setting.

Relay Out1: Pulse



Chapter 8. Factory Default

If you forget your password, please follow the steps to set back the IP Camera to its factory default state.

•Remove the power and Ethernet cable. Open the dome and press and hold the button as shown in the picture below.



• Connect the power back to the camera, and do not release the button during the system booting. It will take around 30 seconds to boot the camera.



- Release the button when the camera finishes booting.
- Plug-in the Ethernet cable. Re-login the camera using the default IP

(http://192.168.1.200), and user name: admin, password: admin.



Chapter 9. Universal Password

If you forgot the password of your IP camera, you can reset the camera to factory default, or follow the procedure below to generate a universal password.

Note: Universal password will be valid only when you enable the function in User Management.

Step1 First, you need to know the IP address and MAC address of your IP camera. You can use IP installer to scan the LAN, and see the IP address and MAC address on the side column.

Server Name	IP Address	^		• 5t	stic	Dac	r		
BBBBBBBBBBBB	192.168.040.161		Sane P	ddr	100	anera.			
Jackson_81AG	192.168.020.050			turun	0.00				
IP_Camera104	192.168.070.104		IP	192	168	1	242		
Video_Server20	192.168.020.020		Netaask	255	255	255	Ŭ		
IP_Camera131	192.168.070.131								
785_IP_CAM	192.168.020.197		Gateway	192	168	1	25		
IP_Camera	192.168.020.240		D05 1	168	95	1	1		
Video_Server	192.168.020.025		2003 1		~~	-	-		
IP Camera105	192.168.070.105		DORS 2	160	- 95	192	1		
IP_Camera	192,168.001.242	1.1	Dont 1	100					
IP_Calliera	102.108.040.010		TOTOT MU		-	~			
NVR IPCam_/SAD	102.166.020.012		MAC	00:0F:0D:21:06:56					
can and find	the camera	~		-					
	Search Devic	e				Subr	it		
To Change Device Name, Select the device on the 2.Change network parame 1.Press Submit button. 1.Press "Search Device" 5. Double click the device 1	IP address, and Gatewa left side. ter on the right side. to re-search again. to open 2	y:				Tue			



Or, if you already know the IP address of camera: Open the web browser, key in http:// (IP address) /GetIPMAC.cgi and press enter. The IP address and MAC address will be displayed on browser.



Step3 Key in the camera IP address **IP Address** column and MAC address in **MAC** column, and then click **encoder**, a set of username and password will appear, as shown in the picture below:

10 KB



The universal username and password are generated from the IP address and MAC address you key-in, so if you change the camera IP address the universal password changes, too.

Step4 Take the generated username and password. Use them to log into the camera.

The server 192. password.	168.1.242 at IP_Comero requires a username and
Naming: This ent in an inse connection).	server is requesting that your username and password be cure manner (basic authentication without a secure
	C90848

Step5 Now you can login as administrator. Turn to **User Management** page. The use of universal password does not affect the previous user setting, so the administrator account password does not change until you edit it. Please click **Edit** to give a new administrator password.



System	System kalemation Osen Managament System Update		
Network	IP Setting Advanced PPFVar & DateS Service(MacL/TP_a) Image Setting Videor Setting	Anonyme Anonyme Universall Anonyme Usernome: admin Usernome: admin Usernome: admin Usernome: cedure Usernome: cedure Contention Cont	rd
AV Setting	Aluelo Exerci Sotting Schoole DO Sotting Log Lift SD Cortil	Uner List Ubername Uner Graup admin felministrator	



Appendix A. Micro SD Card Compatibility (Optional)

The following are the recommended Micro SD Cards:

	SDHC	class4	16GB
	SDHC	class4	32GB
	SD	class4	16GB
	SD	class4	32GB
Transcend	SDHC	class6	4GB
Transcenu	SDHC	class6	8GB
	SDHC	class6	16GB
	SD	class6	4GB
	SD	class6	8GB
	SD	class6	16GB
	SDHC	class4	4GB
SanDisk	SDHC	class4	8GB
	SDHC	class4	16GB



Appendix B: Compliance Information

FCC Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a computing device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. The equipment and the receiver should be connected to outlets on separate circuits.
- 4. Consult the dealer or an experienced radio/television technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If this telephone equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the



proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

FCC Warning



These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment can generate, use, and radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is

likely to cause harmful interference in which case the user will be required to correct the interference at owner's expense.

CE Mark Warning

In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.



WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.



Warranty

The original product that the owner delivered in this package will be free from defects in material and workmanship for one year parts after purchase.

There will be a minimal charge to replace consumable components, such as fuses, power transformers, and mechanical cooling devices. The warranty will not apply to any products which have been subjected to any misuse, neglect or accidental damage, or which contain defects which are in any way attributable to improper installation or to alteration or repairs made or performed by any person not under control of the original owner.

The above warranty is in lieu of any other warranty, whether express, implied, or statutory, including but not limited to any warranty of merchantability, fitness for a particular purpose or any warranty arising out of any proposal, specification or sample. We shall not be liable for incidental or consequential damages. We neither assume nor authorize any person to assume for it any other liability.



Chinese SJ/T 11364-2014

立四个女女	有毒有害物质或元素							
小小十小山	铅(Pb)	汞(Hg)	镉(Cd)	六价铬[Cr(VI)]	多溴联苯(PBB)	多溴二苯醚(PBDE)		
结构壳体	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0		
电路组	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0		
电源供应器	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0		
线材	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0		
包装及配件	\bigcirc	\bigcirc	0	\bigcirc	0	0		
〇:表示该有毒物质在该部件所有均质材料中的含量均在 GB/T 26572 标准规定的限量要求以下。								
×:表示该有毒物质至少在该部件的某依均质材料中的含量超出 GB/T 26572 标准规定的限量要求。								
上述规范仅适用於中国法律								