

# How to Use 2.5G/3G Mobile Phone To Access 7000 series Network Camera

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### **Revision History**

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## Introduction

The Network Camera 7000 series supports 3GPP/ISMA RTSP (Real time streaming protocol). You can get the live video and audio by using 2.5G/3G mobile phone with RealPlayer or Packet Video Player.

The purpose of this document is to describe how to view the live video by 2.5G/3G mobile phone. Users should install the network camera on the Internet, so that they can view the live video by 2.5G/3G mobile phone.

This manual introduces how to install the camera in an Internet environment and take the Nokia 6630 for example to show how to access the IP7137 Network Camera. For the rest of the models, please refer to their user's manual.

## **Network Camera Installation**

Before installing the network camera, please install the installation wizard program on your PC first.

### To install the Network Camera in PPPoE

If the Ethernet is available

1. Set up the network camera in the LAN and plug in the power adapter of the network camera. .



2. Use the Installation Wizard program to find the location of the network camera.



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DDNS	Password	•••••
Access list	Recipient email address	provider@vivotek.com
💽 Audio and video	Secondary email server	
🗃 Email and FTP	Server address	
Motion detection	Username	
Application	Password	
🛐 System log	Recipient email address	
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🕞 Maintenance	Built-in FTP server port number	Input mail account or FTP account
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	FTP server port	21
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- 4. Input correct Email or FTP data and save. (A start up system log will be sent to the Email or FTP account you set after the network camera reset, and you can know the IP address of the network camera from the log.)
- 5. Go to the Network page.



- 6. Check the "PPPoE" selection and input the user name and password that the ISP gives.
- 7. Save the settings and unplug the power adapter of network camera.
- 8. Take the network camera to connect to the ADSL modem and plug in the power adapter of the network camera.

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9. When the LED starts flashing blue after the self-test, users can get the network camera IP address information from the system log that has been sent to Email or FTP.



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### Or system log in FTP

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檔案(P) 編輯(E) 格式 Jul 18 16:14:56 Jul 18 16:14:56 Jul 18 16:14:56 Jul 18 16:14:57 Jul 18 16:14:57 Jul 18 16:14:57 Jul 18 16:14:57 Jul 18 16:14:57 Jul 18 16:14:57	(2) 核視(Y) 說明④ SYS: Serial number = 0002D10299B6 SYS: System starts at Tue Jul 18 16:14:56 CST 2006 NET: === NET INFO ==== NET Host IP = 203.67.39.246 NET: Subnet Mask = 255.255.255.255 NET: Gateway = 203.67.39.1 NET: Primary DNS = 139.175.55.244 NET: Secondary DNS = 139.175.252.16	
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10. Input the URL "rtsp://<network camera IP address>/live.sdp" (for example:

rtsp://203.67.39.246/live.sdp) in RealPlayer or pvPlayer on the mobile phone. Now users can view the live video.



If the Ethernet is not available

- 1. Change the IP of PC to 192.168.0.100.
- 2. Use a crossover line to connect the network camera with PC only.



- 3. Plug in the power adapter of the network camera.
- 4. When the LED starts flashing blue after the self-test, use the Installation Wizard program to find the location of the network camera. (The network camera default IP is 192.168.0.99)
- 5. Link to the network camera and go to configuration page  $\rightarrow$  Email and FTP page.
- 6. Input correct Email or FTP data and save.
- 7. Go to the Network page.
- 8. Check "PPPoE" selection and fill out the user name and password that the ISP gives.
- 9. Save the settings and unplug the power adapter of the network camera.
- 10. Take the network camera to connect to ADSL modem and plug in the power adapter of the network camera.
- 11. When the LED starts flashing blue after the self-test, users can get the Network Camera IP address information from the system log that has been sent to Email or FTP.
- 12. Input the URL "rtsp://<network camera IP address>/live.sdp" in RealPlayer or pvPlayer on the mobile phone. Now users can view the live video.

### To install the Network Camera with a Fixed IP

If the Ethernet is available

1. Set up the network camera in the LAN.



- 2. Use Installation Wizard program to find the location of the Network.
- 3. Link to the network camera and go to configuration page -> Network page.
- 4. Check "LAN" \ "Use fixed IP address" and then fill up the IP address, subnet mask, Default router, and DNS that the ISP gives.



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- 5. Save the settings, then plug out the power adapter of the network camera.
- 6. Take the network camera to connect to ADSL modem and plug in the power adapter of the network camera.
- 7. When the LED starts flashing blue after the self-test, input the URL "rtsp://<network camera IP address>/live.sdp" in RealPlayer or pvPlayer on the mobile phone. Now users can view the live video.



If the Ethernet is not available

- 1. Change the IP of the PC to 192.168.0.100.
- 2. Use a crossover line to connect the network camera with the PC only.
- 3. Plug in the power adapter of the network camera.
- 4. When the LED starts flashing blue after the self-test, use the Installation Wizard program to find the location of the network camera.
- 5. Link to the network camera and go to configuration page -> Network page.
- 6. Check "LAN" \ "Use fixed IP address" and then fill in the IP address, subnet mask, Default router, and DNS that the ISP gives.
- 7. Save the settings and unplug the power adapter of the network camera.
- 8. Take the network camera to connect to the ADSL modem and plug in the power adapter of the network camera.
- 9. When the LED starts flashing blue after the self-test, input the URL "rtsp://<network camera IP address>/live.sdp" in RealPlayer or pvPlayer on the mobile phone. Now users can view the live video.

### To install the Network Camera behind NAT

- 1. Connect the camera to a SOHO router and plug in the power adapter of the network camera.
- 2. On the router side, access Internet by PPPoE.



- 3. Open the Installation Wizard to get the camera's IP.
- 4. Set the fixed IP as one with ports opened by the router for the network camera (include the HTTP port, RTSP port, RTP port for video, RTCP port for video, RTP port for audio, and RTCP port for audio).



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Home       Advanced       Tools       Status       Help         Virtual Server       Virtual Server is used to allow internet users access to LAN services. <ul> <li>Enabled</li> <li>Disabled</li> </ul> Virtual Server       Enabled       Disabled         Name       Private IP       192.168.0.         Private IP       192.168.0.       Private IP         Private Port       Private Port       Private Port         Public Port       Schedule       Always         Schedule       Always       Image: Schedule         Virtual Server List <ul> <li>Name</li> <li>DDNS</li> <li>Virtual Server List</li> <li>Name</li> <li>Post 192.168.0.164</li> <li>Both 5551/ always</li> <li>Image: Schedule</li> <li>RTCP port for video</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li> <li>192.168.0.164</li> <li>Both 5556/ always</li> <li>Image: RTCP port for audio</li></ul>	2) C 108.0.1/		2				「で移主
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On the router side, open the 6 ports for the network camera.



5. Input the URL "rtsp://<network camera IP address>/live.sdp" in RealPlayer or pvPlayer on the mobile phone. Now users can view the live video.

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## Using a 2.5/3G mobile phone to connect to the

## **Network Camera**

Users need to ask the operator to enable the GPRS function and set up the Internet connections on the mobile phone before the mobile phone can access the Internet. This document takes Nokia 6630 for example to describe how to use the mobile phone to access the network camera.



### RealPlayer

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2. Press Options\ Download\ Video clips\ Navigation options\ Go to web address.

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- 3. Input the URL (rtsp://<IP address>/ live.sdp).
- 4. Press "Go to".



### **PvPlayer**

- 1. pvPlayer only can be used when the network camera is installed with a public IP (Fixed IP or PPPoE)
- 2. Go to Menu\ pvPlayer.



3. Press Options\ Open location.





5. Press "OK".

### Appendix

### Introduction to RTSP

The Real Time Streaming Protocol (RTSP) is a protocol for use in streaming media systems. It allows a client to access the server and remotely control the server to PLAY, PAUSE, and STOP. The RTSP is based on the TCP connection and uses RTP as the transport protocol for the actual audio/video data. In the 7000 series server, RTP will detect transmission protocols in the order of UDP  $\rightarrow$ TCP $\rightarrow$  HTTP. For more information about RTSP, please refer to www.rtsp.org or other related websites.

### Players you can use on a mobile phone

There are 5 ports for RTSP use: RTSP port (for control), RTP port for video, RTP port for audio, RTCP port for video, and RTCP port for audio. Realplayer/pvplayer will send packets to open the 5 ports through the NAT to the server first, and then the server can send video/audio packets back along the same

ports to Realplayer/pvplayer, so that users can view the live video directly.



Other players created by cell phone manufacturers will only send the command through the RTSP port to the server and tell it what ports to send the audio/video packets through, but the operator cannot recognize the command to open the ports first and will not permit the packets from the server to open ports themselves to the players. Such players will need its manufacturer to contact the operator to set up a proxy for the RTSP use, so that the proxy can recognize the command and open the ports first to let the packets go through. Currently, Sony Ericsson players in Z520i, K700i, K750i, W800i, W900i are connectable in such method.



<u>www.vivotek.com</u> T:886-2-82455282 F:886-2-82455532

### **Players in Mobile Phones**

Mobile phones with RealPlayer:

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Moto	A1200, E680, E1000, A780,
Nokia	6630, 760, 7710, 6670, N90, 3650, 7650

For more information about RealPlayer, please refer to <u>http://www.realnetworks.com</u>.

Mobile phones that support 3gpp and mpeg-4 can use pvPlayer:

Moto	A835, A920, A1000,
Nokia	N80, N92, N71, 3250, E50, E60, N70,
	6630,6125,7650,7610,7710,6670, 6600, 6230, 7600, 3230
Sony Ericsson	P800, P900, Z1010, P910

For more information about pvPlayer, please refer to <u>http://www.packetvideo.com</u>.