APPENDIX A.1: MOBILE JAVA VIEWER INSTALLATION GUIDE
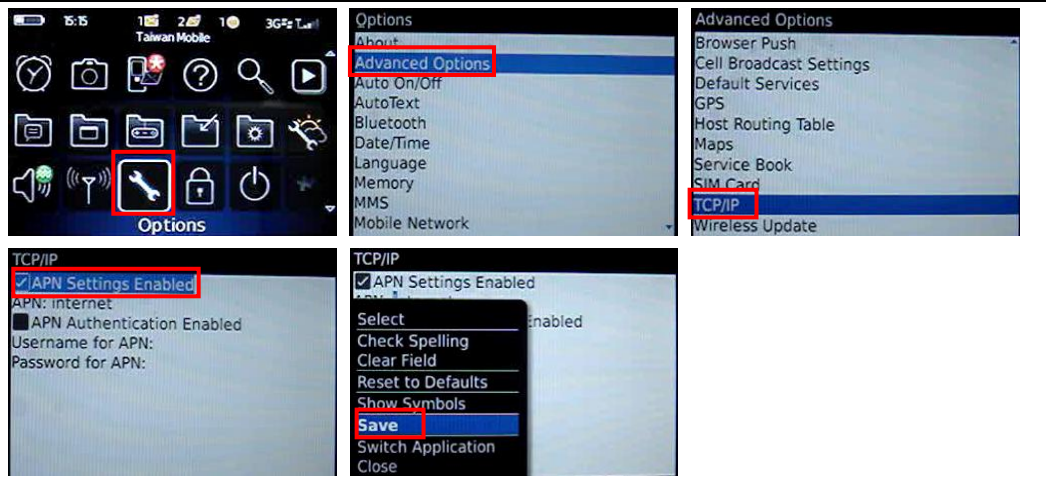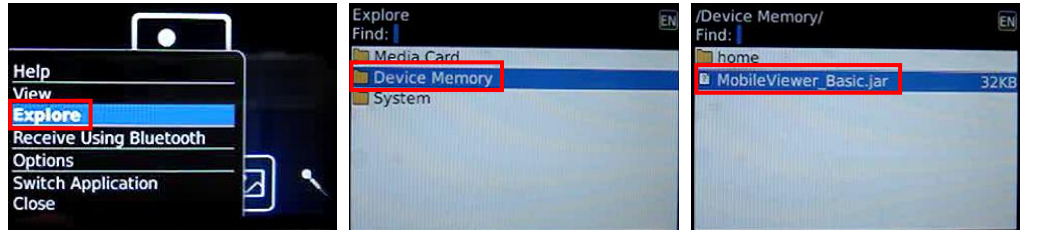
Software Specification:

- JRE for Mobile: Java MIDP 2.0

- Support Mobile OS: Windows Mobile 5.0- / Nokia S60 3.0- / Sony Ericson UIQ 3.0

- Support Protocol Format: HTTP 1.0 Server Push
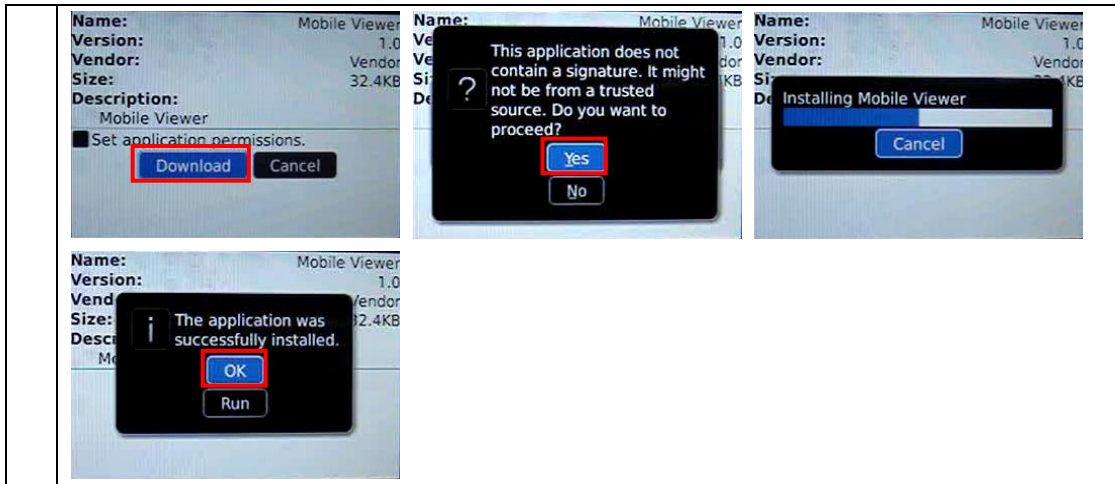
- Support Image Resolution: QCIF/CIF/ VGA/D1

Basic Installation Steps:

1. Power on the mobile phone and connect it to your PC by using USB connecting cable.

2. Copy the Mobile JViewer software from your PC and paste it to your mobile.

3. Seek the Mobile JViewer software within your mobile and click "install" to implement the installation.

4. After complete the installation, run the software and establish the site list by filling in the information about the connecting device.

5. Select the setup device from the site list and connect it via the Internet.
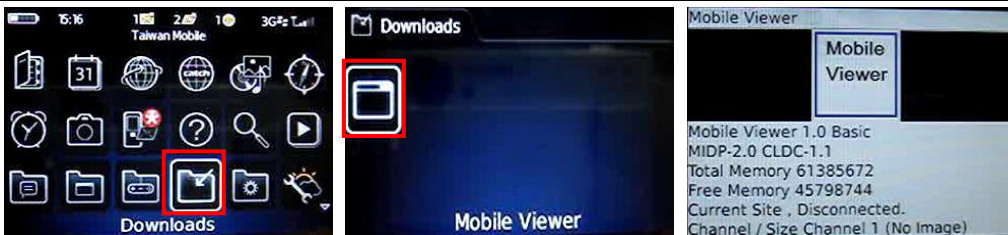
The following tables are DETAILED Installation Guide
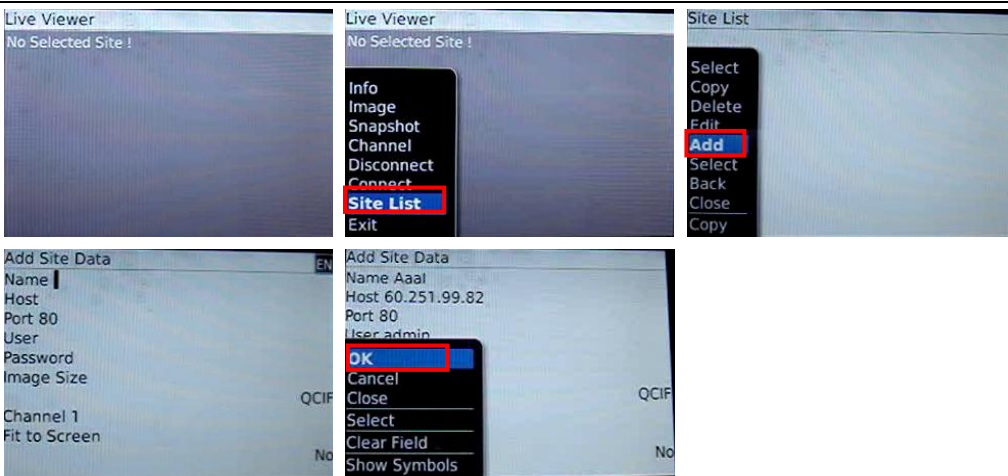
BlackBerry (Based on BlackBerry Bold 9000 for example)

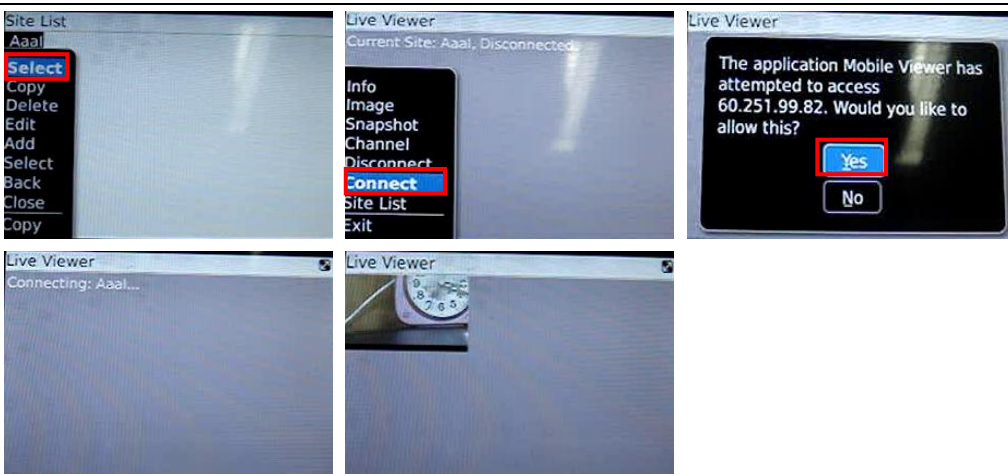|	
1.	Enable APN Settings (i.e. Menu→ Options→ Advanced Options→ TCP/IP)
2.	Install Mobile JViewer (i.e. Media →Explore→"choose the folder where the .jar is")

3.	Run Mobile JViewer (i.e. Menu→Download→ Mobile Viewer)

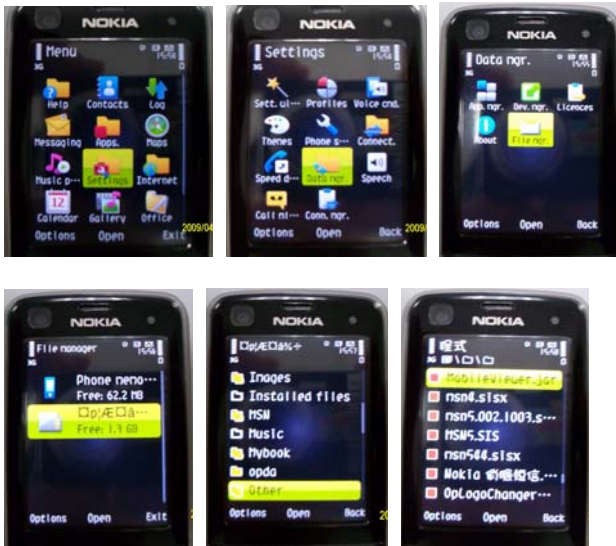|	
4.	Site Settings

5.	Site connection

Nokia (Based on Nokia 6220C with Symbian S60 3rd Edition for example)

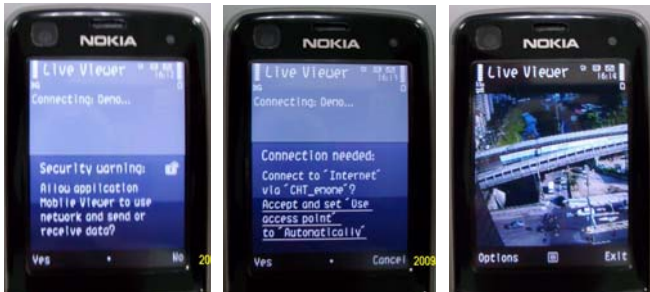| 1. | Connect the mobile to PC to download the mobile software. Moreover, select the storage path. |
	(i.e. "Menu" → "Settings" → "Data mgr." → "File manager" → "Other")
2.	Use navigation key to open "Applications" and select the Mobile Viewer software to enable the software.
	(i.e. "Menu" → "Applications" → "My own" → "Mobile Viewer")
3.	Fill in all the information about the new device.
	(i.e. "Options" → "Site List" → "Options" → "Add")
	Name : DVR
	Host: 220.135.151.152
	Port: 80 (Please ensure the same Port NO. as the DVR or IP-CAM setting)
	User: admin
	Password: admin
	Channel : 1.
	Click "OK" to save the setting.

4.	Select the setup machine and click "Connect".

5.	Select "Yes" to allow application mobile viewer to use the internet. Finally, Success with live image.

Sony Ericsson (Based on K608i for example)

1.	Connect the mobile to PC to download the mobile software. Moreover, select the storage path, such as "Other" within "File manager" in here.	2.	Then, install the mobile software by click "install" and press "Yes" to implement the program immediately.
3.	In addition, use navigation key to open "Applications" and select the Mobile Viewer software to enable the software. * **Normally, the installed software will be setup among "Applications".**	4.	Add the new IP-CAM or DVR into the Site List. (i.e. "Site List" → "More" → "Add ")
5.	Fill in all the information about the new device. For example, Name : DVR Host: 220.135.151.152 Port: 80 (Please ensure the same Port NO. as DVR or IP-CAM setting) User: admin Password: admin Channel : 1	6.	After complete the setting, please reserve the device setup. (i.e. "More"→ "OK")
7.	Select the setup device. (i.e. "DVR" → "More" → "Select" in here.)	8.	Finally, allow the application to send to the Internet. (i.e. "More" → "Connect" → "Yes")

9.	Success with live image.	

Supported/Tested Mobile List:

Mobile Brand	Model
BlackBerry	Bold 9000, Storm
Dopod	CHT9100,
LG	KS-20
Nokia	6220, 8500, E71, N95
Sony Ericsson	K608i, W910i

Error Message List:

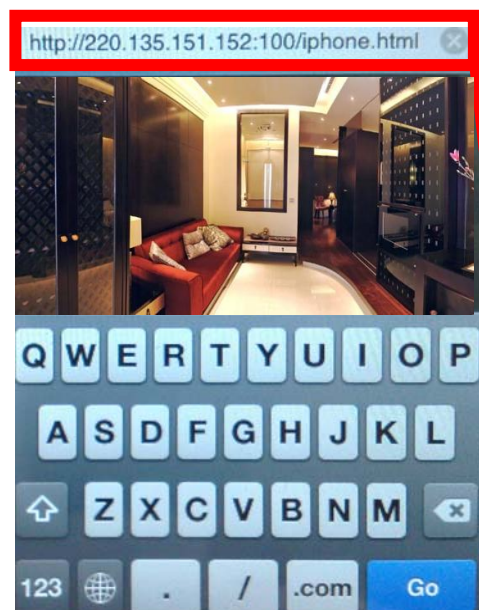| Error Message	Error Reason
Boundary Miss Match	Received data format error! When the mobile receives broken or uncompleted data from the connected device. Please disconnect the Internet connection and re-connect again.
I/O Error	The error from the network! Please check all the network can operate normally which is including wire, wireless and ISP connection. * Please ask your local ISP to provide the correct Internet APN/ WAP APN, Proxy Port, Proxy IP and Proxy password
No Input Data	DVR does not send out the data. Or, APN Proxy of the ISP blocks the data from the DVR.
No Video No.	There is no video input in that channel.
Video Out of Range	Selected channel exceeds the channel number of the connected device.
401 Unauthorized	User inserts the wrong username or password.
404 Not Found	DVR installs incorrect firmware which does not support Java.
502 Bad Gateway	DVR is shut down or have not selected to Java/iphone option.

APPENDIX A.2: JAVA CONNECTION FOR iPhone

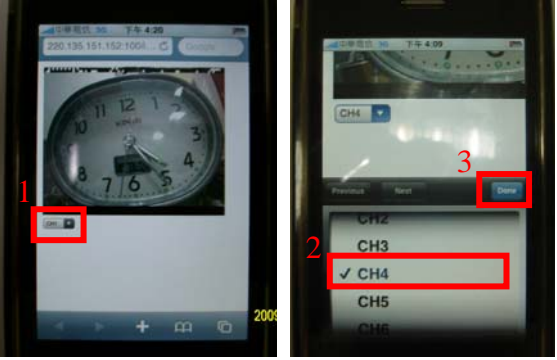|	
	Before using iPhone to monitor the live view of DVR or IP-CAM, please confirm iPhone can connect to the Internet or Wi-Fi. ("Home" Button → "Settings" → "Wi-Fi" → Choose a Network → "Settings" → "Home" Button) * Via Internet can connect to DVR or IP-CAM which under the WAN. * Via Wi-Fi can connect to DVR or IP-CAM which under the LAN or WAN (while wireless AP connected to WAN).
1	 http://220.135.151.152:100/iphone.html
	Take factory IP setting of 192.168.1.220 for example. Click Safari and type below address. http://192.168.1.220/iphone.html

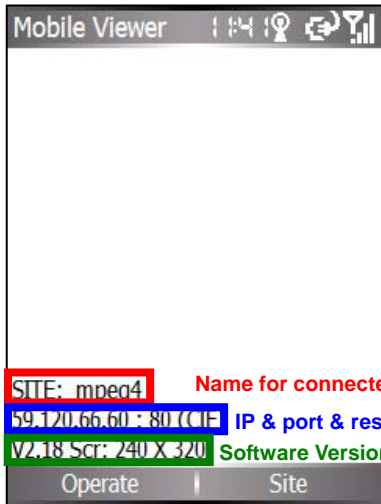| 3.	Moreover, while the user wants to change the DVR channel, please follow by the following steps.
	(i.e. " CH1 ▼ " button → Select the channel → "Done")

* 1. 3GPP BANDWIDTH: Minimum 30kbit /sec. per channel.
  2. CONNECTION NUMBERS: Maximum 16 people per channel.

APPENDIX A.3: MPEG4 CONNECTION FOR WINDOWS MOBILE

1. **Copy IPCamconfig.txt and viewer.exe to Mobile device.**
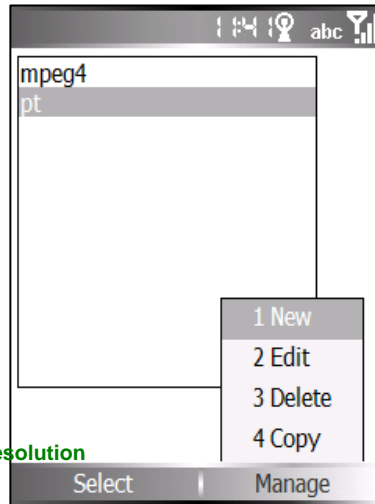
2. **Run viewer.exe on mobile device.**
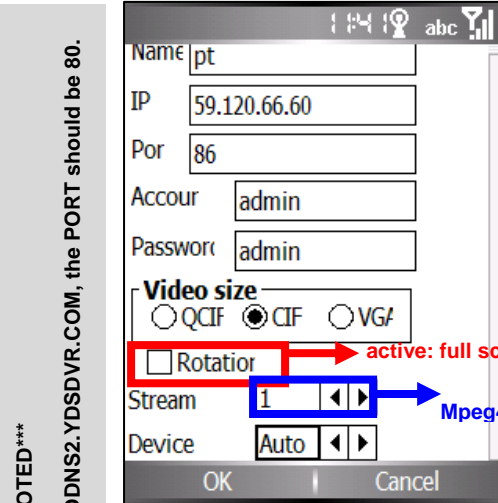

3. **The interface when logo in.**

- Name for connected site
- IP & port & resolution
- Software Version & screen resolution

4. **/Site/Manage/New to create New Site**

- **Create a new site**
- **Edit a saved site**
- **Delete a saved site**
- **Copy a saved site**

5. **Input Name, IP, Port, Account, Password**
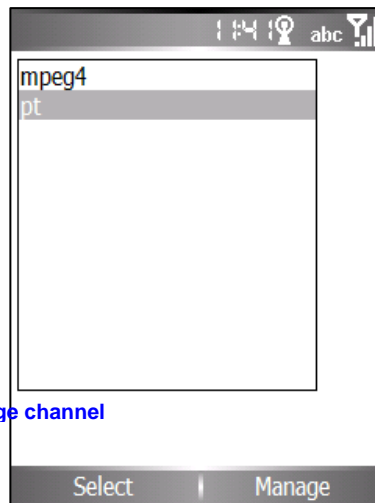
   and Video Size. Then press OK.

DDNS NOTED

If use the DDNS2.YDSDVR.COM, the PORT should be 80.

- active: full screen
- Mpeg4 DVR: change channel

6. **Site is created.**

   Press /Select/ button to view.

5.1 Rotator: Rotate images in full screen.

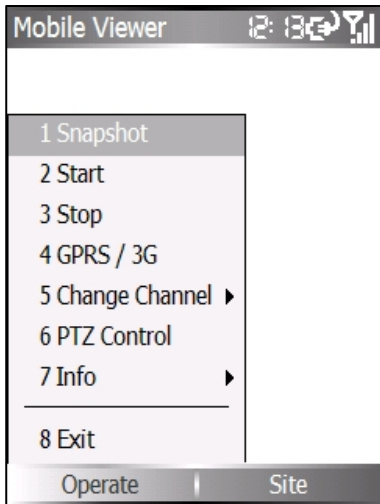**5.2 Stream: Support MPEG4 multi stream videos.**

Stream num: Default: stream 1 for SINGLE stream models or MULTI streams use stream 1.
              In DVR: Stream 1 for CH 1, 2 for CH2, 3 for CH3 and 4 for CH4 and so on.
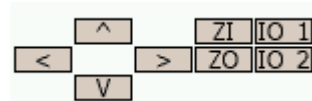
5.3 Device: Identify type of network card   **Unknown status -8:   device type is mismatched.**

   Auto: Automatically   1: MPEG-4   2: M-JPEG   3: AXIS Models   4: MPEG-4(SD card)   5. RTSP(No Audio)

6. **/Operate/**

1. **Snapshot: Capture still images**

2. **Start: Start connecting**

3. **Stop: Stop connecting**

4. **GPRS / 3G: Use GPRS/3G to connect.**

   Please setup the account firstly in mobile device.

5. **Change Channel: DVR CARD Only.**

6. **PTZ control:**

   <: Move Left   >: Move Right

   ^: Move Up   V: Move Down

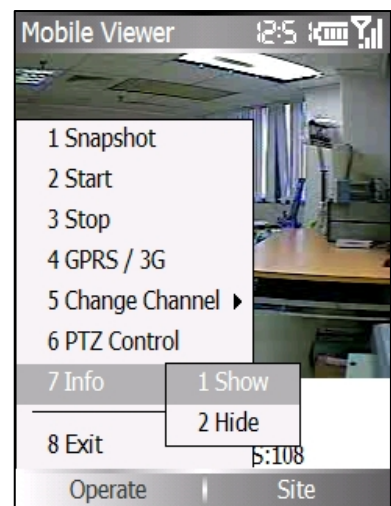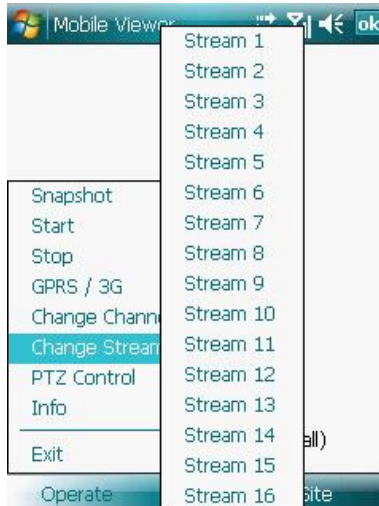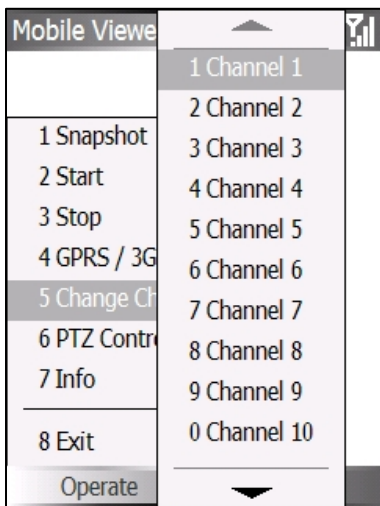   **ZI: Zoom In   ZO: Zoom Out**

   IO1: IO1 control   IO2: IO2 control

7. **Info: Video Stream information**

8. **Exit: Exit Viewer Program**

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7. /Operate/Change DVR Channel (M-JPEG DVR)   (MPEG-4 & H.264DVR)   9. /Operate/Info: Show or Hide text data

M-JPEG DVR CHANNEL SWITCH
PDA MPEG-4 CARD CHANNEL SWITCH

MPEG-4 DVR CHANNEL SWITCH
Stream1: switch to channel 1
Stream2: switch to channel 2
.   .
.   .
.   .
Stream16: switch to channel 16

PDA/Smartphone Supported Devices:

PDA based on Microsoft Windows:

1. HP HW6515/HX2200/HX4700/1510/H6365/RZ1700/RX3417/1940 (OS: PPC2003SE/WM5)
2. ASUS A716/ A620BT/ A620/A730/P535 (OS: PPC2003SE/WM5/WM6)
5. Dopod 838/838pro/D810/P800W/U1000/C800/M700/818Pro/828 (OS: WM5/WM6)

Microsoft Mobile Smart Phone:

1. DOPOD 565/575/585, Orange SPV C500, Motorola MPX220/i930, SPV C600, T-Mobile SDA, Cingular 2125 (OS: 2003SE)
2. DOPOD 577W/586W/S300/595/720W/TOUCH (OS: WM5/WM6)
3. ASUS P525/526/535/P735 (OS: WM5/WM6)

Q&A:
Q. IPCAM_VIDEO_GETFRAME_IS_ERR
   A. 3G/GPRS connection is not stable or not accessible. **High speed moving or signal is not strong will cause it.**
Q. Unknown status -8
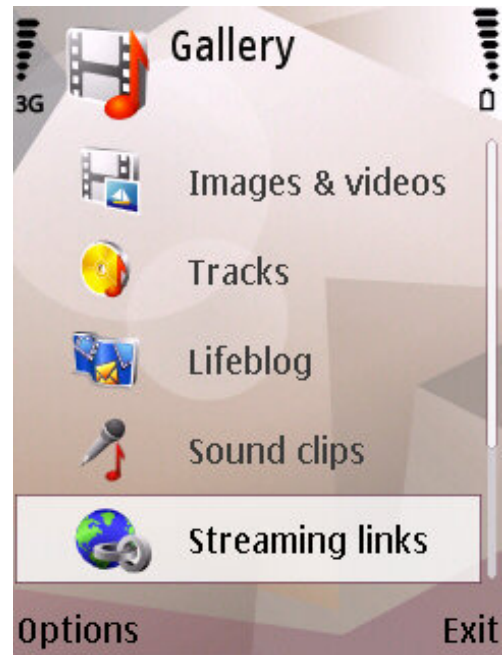   A. Settings of **device type is mismatched.**
Q. IPCAM_IS_UNCONNECTED
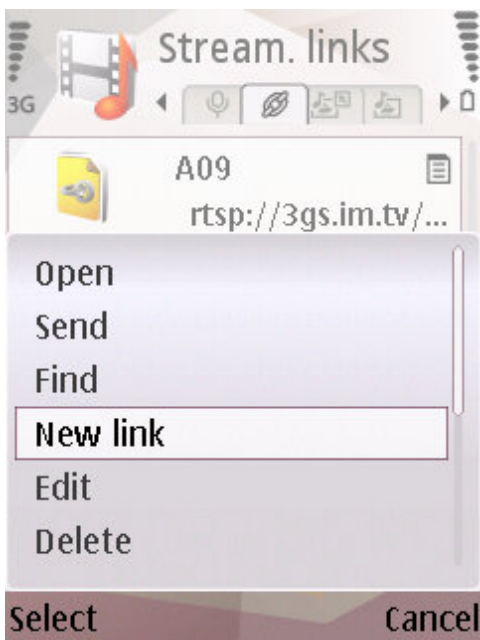   A. 3G/GPRS connection is not stable or not accessible. **Please restart 3G/GPRS connection.**
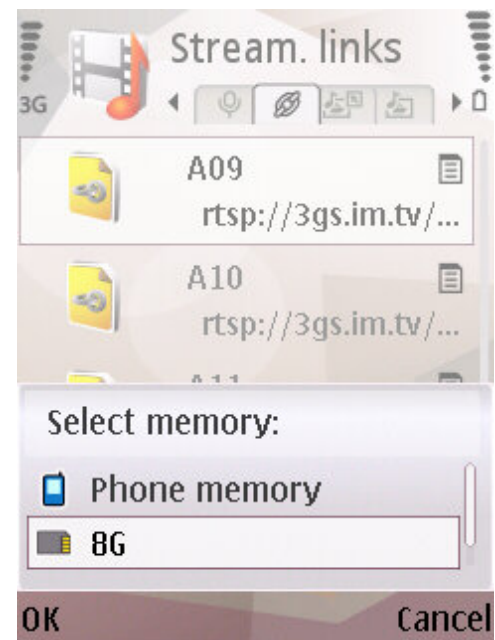
APPENDIX A.4: 3GPP CONNECTION FOR REALPLAYER

Go to 'Gallery. in menu.
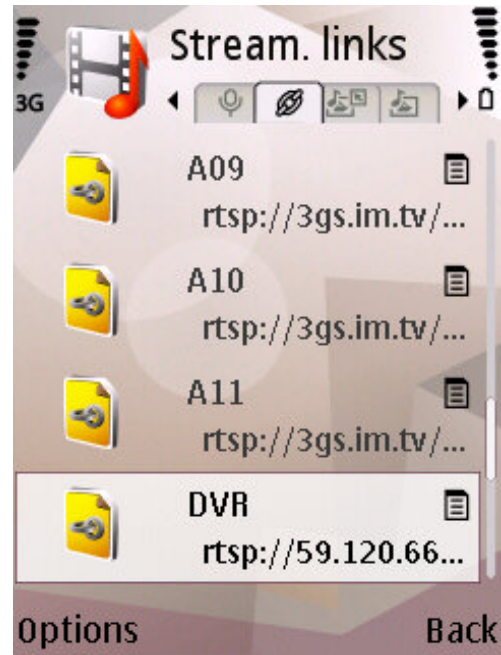
Go to 'Streaming links' in Gallery.
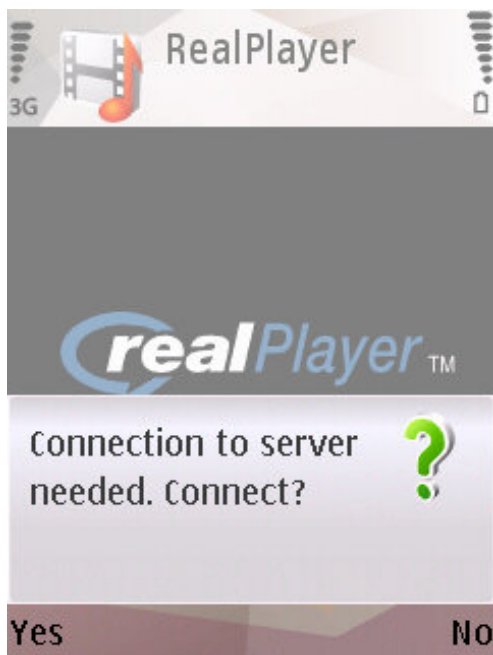
Create a 'New link'.

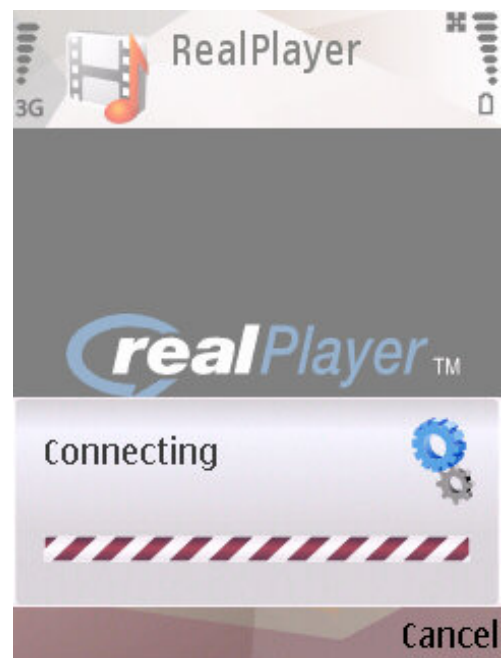Select the location of settings to save.
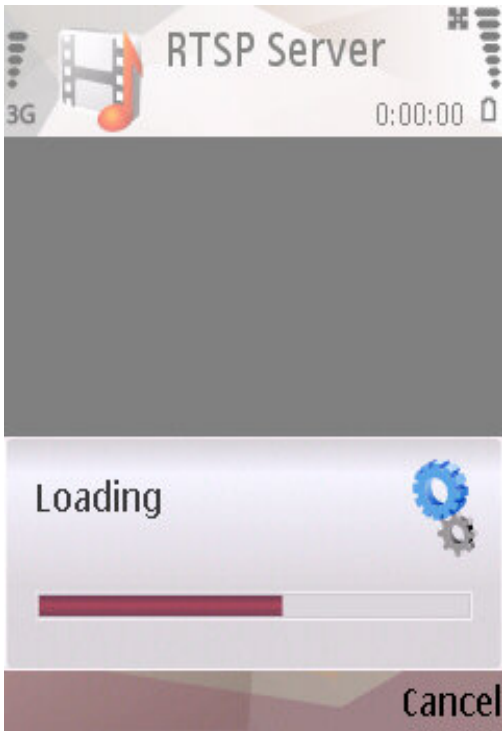
Type the name and
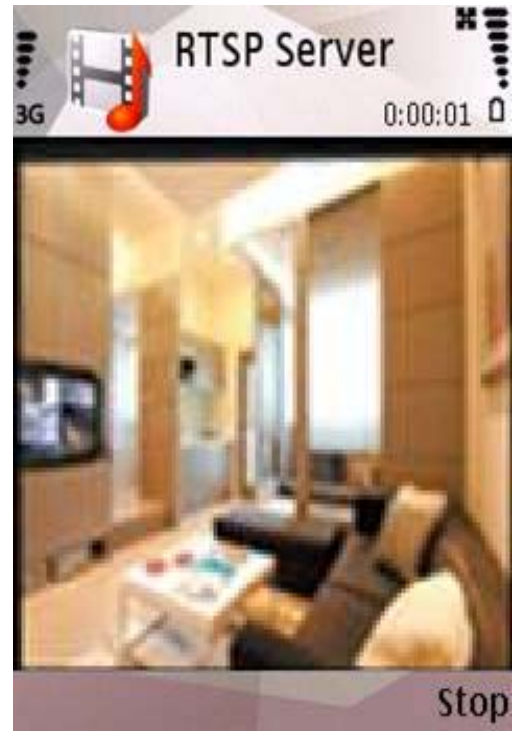
Web address.

Press 'OK' to save.

Press 'YES' to

connect to DVR.

Connecting in program.

Loading in program.

Connect to DVR

successfully.

REMARK
*1

RTSP links:

rtsp://'IP'/CH01 ← ─ ─ ─ Connect to channel 1
rtsp://'IP'/CH02 ← ─ ─ ─ Connect to channel 2

⋮   ⋮

rtsp://'IP'/CH16 ← ─ ─ ─ Connect to channel 16