

user's manual

eng



RAS Mobile

NOVUS[®]

GENERAL CHARACTERISTICS

ATTENTION

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All the data in this manual are valid at the moment of printing. Manufacturer reserves the right to adjust and change the manual. Furthermore, manufacturer reserves the right to change specifications and design of device without notice.

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1. GENERAL CHARACTERISTICS

1.1 Introduction

RAS Mobile is an application designed to work with PDA—class devices. It allows for remote control of video surveillance systems using either WiFi, Local Area Networks or the Internet and via mobile phone operators. It features live monitoring, image parameters adjustment, and pan—tilt—zoom cameras control. The application is compatible with 5000 DVR series, and may be installed on an indefinite number of working stations.

1.2 Minimal requirements

PDA:

Windows Mobile 5 operating system, or newer,
StrongARM or Xscale CPU,
240x240 pixels display,
20 MB RAM,
IEEE 802.11 (WiFi) network compatibility.

PC:

PC—class computer with Windows 9x, NT, 2000, XP or newer,
Microsoft ActiveSync 4x or newer (or Ease of Access when using Windows Vista),
Pentium 233 MHz CPU or faster.

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1.3 Connections

PDA devices, thanks to their IP-layer operation capability can be connected (using wired or wireless connection) to recorders working in network environment. Wireless connections may be established by using WiFi, GPRS, EDGE or UMTS standards, depending on a PDA model.

Prior to using *RAS Mobile* software, please establish and test a network connection from PDA level. Depending on type of the PDA, available network connection types may vary. Before establishing a DVR connection using *RAS Mobile* application, please ensure that DVR can be connected using *RAS Plus* application installed on a PC or via Internet Explorer (if DVR settings allow for such a connection).

Please ensure that USB cable connection between PC and PDA is operational, before establishing a wireless (WiFi, GPRS, EDGE, UMTS) connection via *RAS Mobile* application.

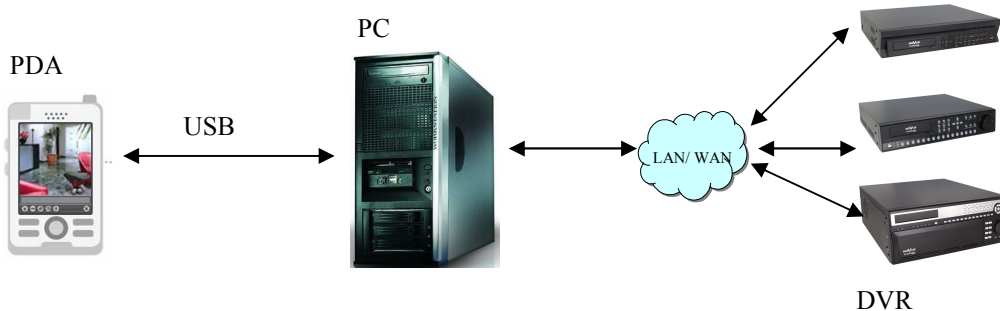
Note: NOVUS doesn't sell PDA—class devices or networking equipment (such as routers etc.), nor it doesn't offer any telecommunication services. To access the Internet or your Local Area Network, please consult your local network administrator, manufacturer of a given device, or a mobile network operator.

1.3.1 Connection via USB cable using PC.

Wired connection is established via USB cable connected to PC and is generally used for testing purposes.

To access network via PC, please install *Active Sync* or *Windows Mobile Device Center* components (depending on operating system PC is currently using).

After connecting PDA and computer, synchronisation procedure takes place and PC becomes a network access device for the PDA.

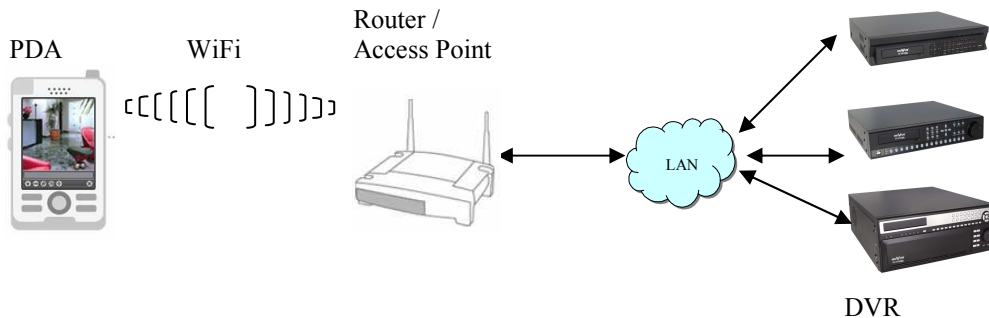


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1.3.2 Wireless IEEE 802.11 (WiFi) standard connection.

If a given PDA device handles wireless connections in WiFi standard, aforementioned method may be used for connecting to the DVR.

Prior to establishing a DVR connection, please configure the Access Point or wireless router, so it will be “visible” in wireless network. Additionally, please configure this type of connection in your PDA.

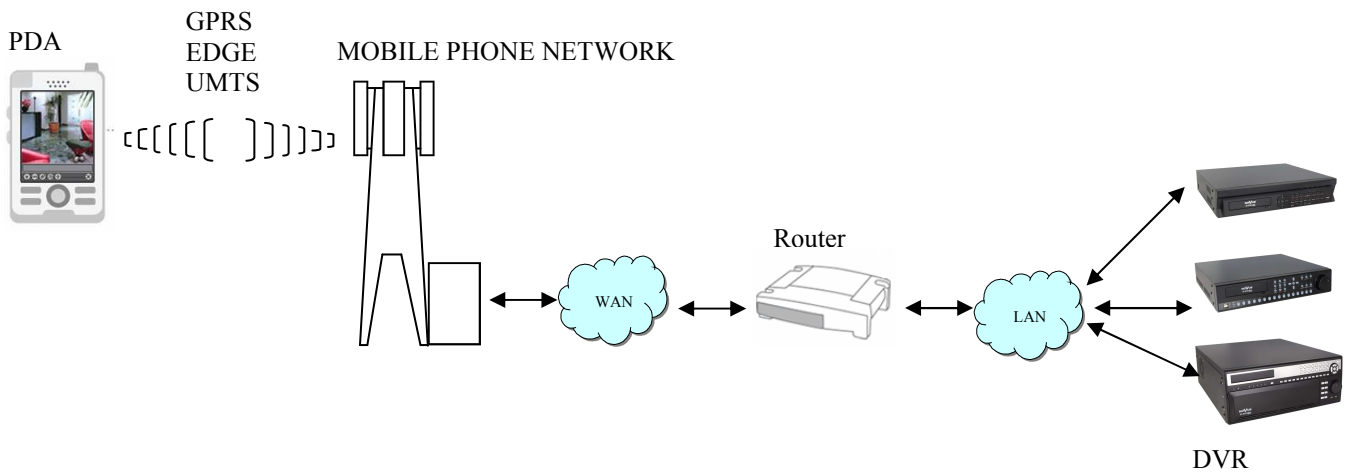


Note: Please remember, that IEEE 802.11 wireless standard transmission has range limitations, varying from meters to hundreds of meters, depending on wireless transmission devices, their antennas, and environment (urban or open terrain). Increasing distance from the router during opened connection may result in its loss.

1.3.3 Wireless connection using GPRS, EDGE, UMTS mobile phone networks.

If a PDA device handles a wireless Internet access via mobile phone operators, this feature can be used to establish a connection with a DVR.

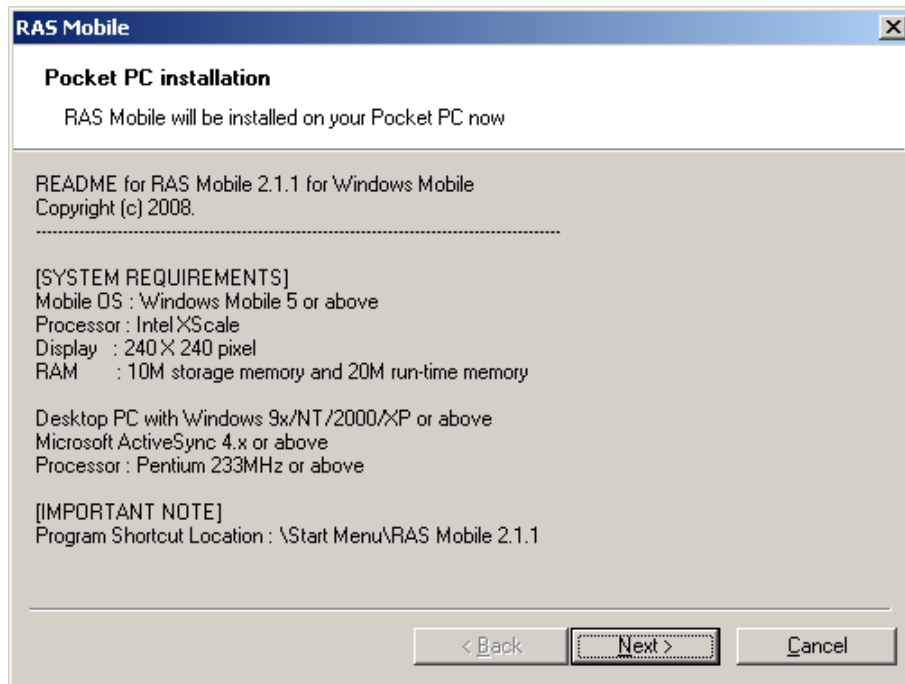
Prior to connecting to the DVR please configure the router properly, so both the DVR and PDA devices will be “visible” in the Internet. Testing the established connection by connecting to a well-known WWW server is recommended.



2. INSTALLATION

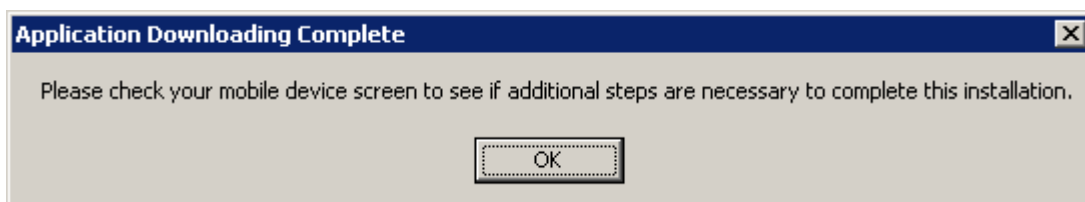
RAS Mobile software installation on a PDA device is achieved by a PC with USB cable connection . To synchronize both devices, *Active Sync* or *Windows Mobile Device Center* applications are used (depending on currently used operating system).

After connecting a PDA device to the computer and synchronising connection between PC and PDA please run *RAS_Mobile.exe* file. The following window appears:



Please click *Next* to continue with the installation.

After a certain time the following window appears. Please click *OK* to successfully finish installation.



After installation *RAS_Mobile* software is located by default in *Program Files* folder and / or on the desktop of the PDA .

Below you can see what the program icon looks like:



To remove application, please select *Start* on the PDA desktop, then *Settings, System, Remove Files*, select [*DVR*] *RAS Mobile 2.1*, select *Remove* and confirm program removal.

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3.1 Running the application


Please open the start menu of the PDA that will be establishing the connection, then please select *RAS_Mobile* from the program list and wait for the application to launch. After successful launching the following window appears, as depicted below:

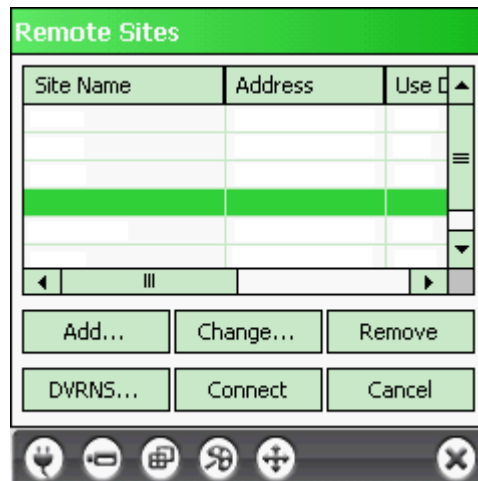


Button functions are as follows:

-  - Open menu connections button
-  - Camera selection panel button
-  - Screen mode selection panel button
-  - Image adjustment panel button
-  - PTZ menu control panel.
-  - Disconnect button – exits application and terminates all active connections

3.2 Connections menu

After clicking  button a new window, allowing for changing PDA-DVR connection settings appears on the screen:



Add – Allows for adding remote network site (DVR).

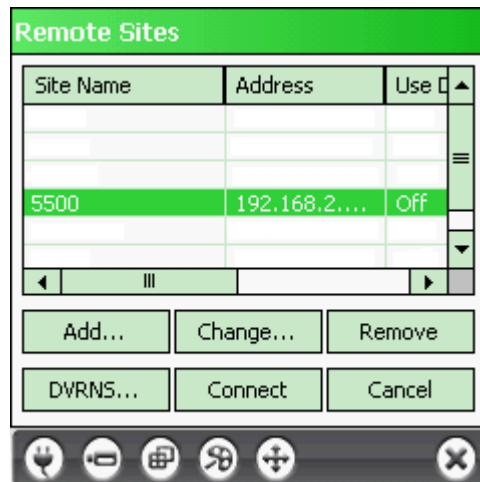
After clicking this button the following window appears on the screen:

Please enter a name for the new site in *Site Name* field, which allows for identifying a DVR on the list.

Next, please enter the IP address of the DVR in the *IP Address* field. Application uses this address to connect to the DVR. Please enter port number in *Watch Port* field. The number should be the same as one set in menu of the DVR and described as “*Live Monitoring*”. *Use DVRNS* box should be kept unchecked.

Please enter username in *User ID* field (up to 32 characters allowed) and password (up to 10 characters) in the *Password* field respectively. After entering desired changes, please apply them by pressing *OK*. Defined remote site appears on the list.

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Following aforementioned method, additional sites may be added.

Change – Allows for editing previously entered settings of existing (added) remote network sites. *Change* window is the same as *Add Site*.

Remove – Removes selected location from the list, after prompting for confirmation of the action.

Connect – Connects with selected remote location.



Cancel – Returns to main window of the application .

3.3 Camera selection menu

After choosing desired site and clicking *Connect*, connection between PDA and DVR is established. In case of lack of the video signal from the camera, „No Video” message is displayed.




Note: In case of lack of the network connection, camera selection menu is unavailable.

After a while, an image from the first camera appears on the screen. After clicking  icon, a camera selection menu appears on the screen. Clicking on one of the numbers shown switches the view to camera with such number. Clicking  icon closes the menu.

Note: The number of pictures displayed varies depending on type of connection used.

USB and WiFi connections provide 2-3 pics/sec, UMTS 2 pics/sec EDGE 1 pic/sec, and GPRS 0,3 pic/s.


3.4 Screen mode menu

After connecting to a desired DVR an image originating from camera no. 1 is shown. After clicking  icon a menu, which allows for changing screen display mode, is shown. Four modes are available:


- Quadruple (2x2)
- Single-screen (Single)
- Full-screen (Full)

Clicking on any point of the screen in the full-screen mode reverts the mode to a previous one.





Note: To display images from cameras marked by higher numbers in 2x2 mode, please return to camera selection menu  and pick a camera. Images from desired camera are displayed in the upper left corner of 2x2 screen, together with images coming from 3 following cameras.

3.5 Image adjustment menu


Application features the possibility to change parameters of displayed picture, such as brightness, contrast, saturation and hue. To change parameters, please click the  icon and using parameters described below adjust the image.

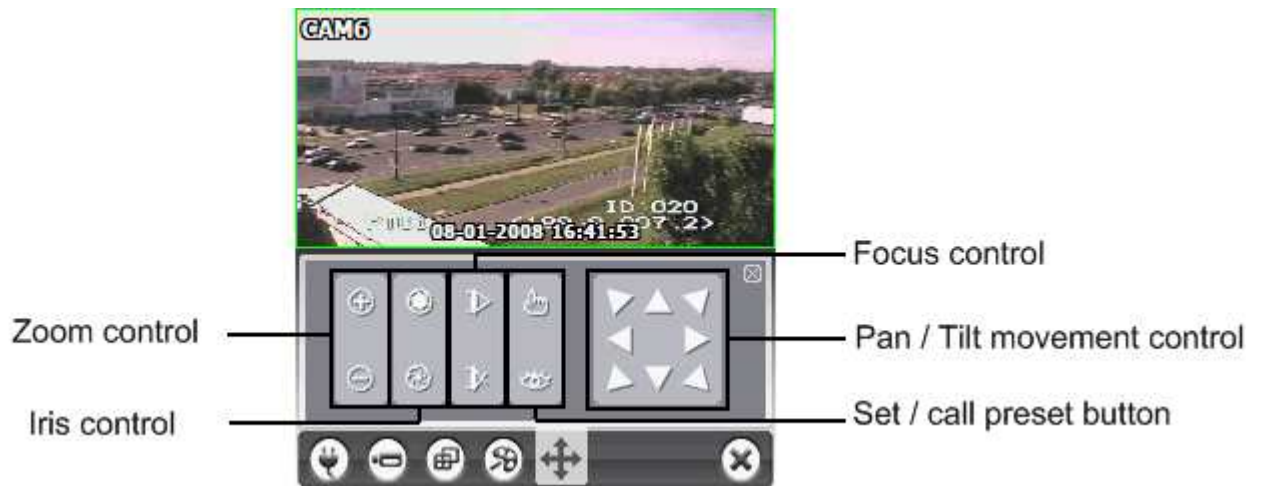


- Clicking on the desired icons changes image parameters respectively.
- Clicking  reverts changes applied.
- Clicking  closes menu.

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3.6 PTZ Camera control menu

After clicking  icon, a PTZ control menu is displayed. It allows for remote control of camera movement, zoom, iris, and focus. Additionally, it allows for setting and calling presets. Overview of the PTZ menu is given below:



Note: When operating in full-screen mode (*Full*) PTZ movements may be controlled via cursors located on keyboard of the PDA device.

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