

Dear ONSSI Customer,

With the purchase of On-Net Surveillance System's NetDVR you have chosen an extremely powerful and flexible surveillance solution. NetDVR will turn your TCP/IP based video cameras and video servers into a sophisticated digital video surveillance system.

This Getting Started Guide will explain how to install and use the basic functions offered by the software. A User Manual covering all functionality in the software is available on the software CD.

On-Net Surveillance Systems regularly releases service updates for our products, offering improved functionality, support for new devices, and solutions for issues reported by our customers.

To make sure you install the most recent version of our software, please check our website www.onssi.com for updates. Here you can also download an updated User Manual.

ONSSI Support

Your ONSSI reseller can help you with first line support of your On-Net Surveillance System's NetDVR software. You can use the form below to have your reseller contacts readily available.

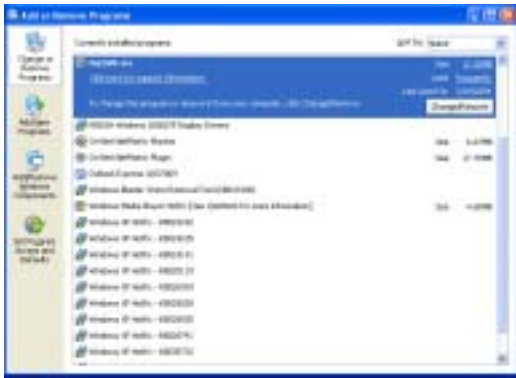
Company:	<input type="text"/>
Website:	<input type="text" value="http://"/>
Contact 1:	<input type="text"/>
Telephone:	<input type="text"/>
Email:	<input type="text"/>
Contact 2:	<input type="text"/>
Telephone:	<input type="text"/>
Email:	<input type="text"/>

Please quote the Software License Code when contacting support.

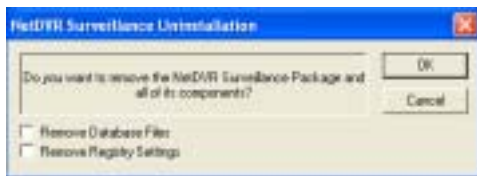
Uninstalling a Previous Software Version

If a **previous version** of the On-Net Surveillance System's NetDVR 4.5 is installed this must be uninstalled before the On-Net Surveillance System's NetDVR 4.5 is installed.

- ◆ Shut down the http and realtimefeed servers.
- ◆ Open the *Add/Remove Programs* dialog in your Control Panel.
- ◆ Find and highlight the NetDVR entry, then click *Change/Remove*.



- ◆ If you want to keep your existing configuration and/or databases, make sure the *Remove Database Files* and *Remove Registry Settings* options are unchecked. Then click *OK*.



- ◆ Click *Finish* to end the uninstalling procedure.
- ◆ Close the *Add/Remove Programs* dialog and the *Control Panel Window*.
- ◆ Continue the software installation as described in *Installing the Software*.

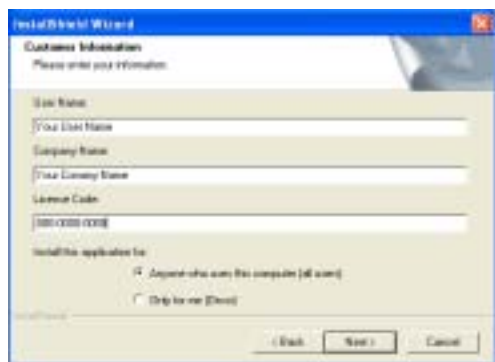
Installing the Software

Please read the License Terms on the enclosed Product License Sheet before continue installation of your ONSSI software.

- ◆ If you are installing from a CDROM, run the *autorun.exe* file if it has not started automatically.
- ◆ If you downloaded the software from the web, run the *NETDVRxxx.exe* file from the location you downloaded the software.
- ◆ Click Install to install the NetDVR.



- ◆ Click *Next* to continue the installation.
- ◆ Please read and accept the License Agreement.
- ◆ Select *Licensed Version* option, then click *Next*.
- ◆ Please type in your Serial Number (Software License Code) as listed on your Product License Sheet.



- ◆ Choose Installation Path, then click *Next*.
- ◆ Select Program Folder for the ONSSI shortcuts, click *Next*.
- ◆ By default a link to the NetDVR Monitor is placed on the desktop, and the Remote Access Servers are added to the startup folder. Uncheck any option not required.
- ◆ Click *Finish* to complete the installation.



Retrieving Device License Keys

For each device (IP network camera or IP network video server) to be installed in the NetDVR software, a Device License Key (DLK) must be obtained from On-Net Surveillance Systems.

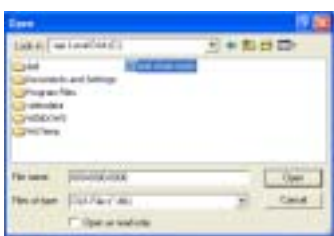
- ◆ Locate your Software License Code.
- ◆ Gather all the MAC addresses of the devices to be licensed.
- ◆ The MAC address asked for is a 12 digit hexadecimal (numbers 0-9 and letters A-F) and is by some manufacturers referred to as a 'Serial Number'. The MAC address is often written on the device itself. If not, please refer to the device manual to learn how to find the MAC address.
- ◆ Go to: <http://onssi.com/support/licensing.php>
- ◆ An email will be sent from support with your Device License Keys.
- ◆ Please see the Importing Device License Keys section for instructions on using your licenses.


Importing Device License Keys

- ◆ The DLKs received in the email from support can be typed in manually when adding each device to the NetDVR software.
- ◆ To avoid having to type in each DLK manually, save the file attached to the email on a location of your choosing - for example on a floppy disk.
- ◆ Open the NetDVR Administrator by selecting *Start, Programs, NetDVR, Administrator*, then click the *Import DLKs* button.



- ◆ Browse to the location where you have placed the .DLK file. Select the file, then click *Open*.



- ◆ All Device License Keys from the file are now imported and do not need to be typed in manually.
- ◆ **Context Help** is available in the Administrator by clicking on  in the top bar, then clicking again on the item of interest.

Adding a Device

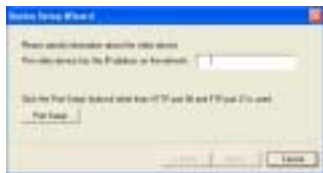
- ◆ Configure the IP address, password, etc. for the device as described by the manufacturer.
- ◆ Click the *Add Device* button in the NetDVR Administrator Main Window.



- ◆ Type in the IP address of the device, click *Next*.
- ◆ Type in the password for the native (root) user, if existing. Leave the *Autodetect Device* option selected.



- ◆ When the device is detected, enter the Device License Key (DLK) for the device and click *Next*. Please read the chapter *Retrieving Device License Keys* for details. If you have imported the DLK for this device, as described in the chapter *Importing Device license Keys*, simply accept the DLK shown by clicking on *Next*.



- ◆ Assign a descriptive name to the device, then click *Finish*.
- ◆ The device is now installed successfully.

Configuring a Camera

- ◆ Expand the device hosting the camera you want to configure and select the camera.
- ◆ The camera can be renamed by clicking one more time after it has been selected.



- ◆ Click on the *Settings* button to enter the camera setup dialog.



- ◆ Please make sure the *Image Quality* has been set as desired before configuring *Motion Detection* settings.
- ◆ Please refer to the *User Manual* for details on how to set up the specific dialog items, *Framerate Settings*, *Image Storage Settings*, and *Database Settings*.
- ◆ Please refer to the *User Manual* for details on how to set up moveable (Pan/Tilt/Zoom, PTZ) cameras, how to use Audio, and how to utilize iPIX™ technology in your NetDVR surveillance solution.

Configuring the Monitor Look

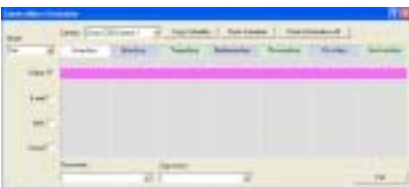
- ◆ Select the *Monitor Manager* button in the Administrator main window to set up how the Monitor should look.



- ◆ Choose the *layout size* of the Monitor.
- ◆ Choose the size of the *Hot Spot Window*, if wanted. If you want the hotspot in its own floating window, select the *In Separate Window* option.
- ◆ Click on the position for each camera, then select the camera to be placed from the *Select Camera* drop down menu.

Configuring the Scheduler


- ◆ The Scheduler's task is to start and stop the camera activity in accordance with the online periods set up by you.
- ◆ If connection to a camera is lost, the scheduler will attempt to reconnect it for the duration of the set up online period.
- ◆ Select the *Scheduler* button in the Administrator main window to schedule camera and motion alert activity periods.



- ◆ Choose *Set* or *Reset* to set or delete online activity for the selected camera. Select *Always On* for normal operation.
- ◆ For fastest scheduling setup of multiple cameras, use the *Copy Schedule* and *Paste Schedule to All* buttons.
- ◆ For details on how to use the Scheduler settings, including email and start/stop events, please refer to the *User Manual*.


Recording and Viewing Images in the Monitor

The Monitor application handles recording and presentation of the images from the cameras, as set up in the Administrator. The Administrator must be closed before the Monitor can start.

- ◆ Start the NetDVR Monitor using the shortcut  placed on the desktop.








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- ◆ In the top left side of the image bar the device and camera names are displayed for easy navigation.
 - ◆ On the top right side of the image bar, two indicators are shown:
 - Blinking Green: Blinks every time an image is received from the camera (Keep-Alive Monitor).
 - Solid Red: Lights up when motion is detected in the image. The indicator will stay lit until it is reset by clicking on the camera.
 - Solid Orange: Lights up when event defined in event notification page (found on camera settings page) has been triggered.
 - ◆ Click on an image to view it in the *Hot Spot* (if a hot spot is configured).
 - ◆ Manual control of configured Pan/Tilt/Zoom (PTZ) cameras is possible by activating the *PTZ Mode* button.
- ◆ **Context Help** is available in the Monitor by clicking on  in the top bar, then clicking again on the item of interest.

Viewing Recordings in the Recordings Browser


The Recordings Browser is used to play back and export recorded material from the databases.

- ◆ The Recordings Browser is launched from the Monitor Application by clicking on the *Recordings* button.
 - ◆ Click on the  icon to configure the browser image layout and the time span of the Browse Band timeline.
 - ◆ Click on the  button to open the *Database Information* dialog. Click on a camera window, then select a camera from the *Video Feed* dropdown menu. If audio is available, an audio source for the video feed can be selected via the *Audio Feed* dropdown menu. Repeat this until all the cameras you want to view are displayed.
 - ◆ Double-click on an image, or use the  and  buttons to switch between single and multiple images.
 - ◆ Each view can be saved and retrieved via the *Views* menu found in the top menu bar.
 - ◆ Use the vertical Browse Band in the right side of the screen to navigate to a desired recording. Simply click and move the mouse vertically, use the mouse wheel, or use the navigation keys below the Browse Band to move the timeline. The time of recording is shown in the display above the Browse Band.
 - ◆ The Browse Band shows the recorded sequences for each camera in red/green colors for easy navigation. Use the magnified view in the middle of the Browse Band to find the specific image you are looking for.
 - ◆ Alternatively, click on the  button to view the registered alarm times, or use the time/date dropdown menus to go to a specific time/date directly.
 - ◆ Digital zoom and iPIX™ post-recording pan/tilt are possible via the Image Control menu, accessed via the  button.
- ◆ **Context Help** is available in the Monitor by clicking on , then clicking again on the item of interest.

Exporting Recordings

- ◆ To export images and video sequences, click on the  button in the Recordings Browser.




- ◆ Select the video and audio feed(s) to export via the drop-down boxes. When selecting the *Current Video Feeds / Current Audio Feeds* options, content from all the currently displayed sources will be exported in a single step.
- ◆ Select the start/stop times via the date and time select boxes, or use the Browse Bar to browse to the desired image and click the *Set* button to copy the time from the Browse Bar display to the *Start Time* or *Stop Time* select boxes.
- ◆ Select what type of file to export in the *Export Format* drop down box.
 - *AVI File* exports the recordings from each selected camera to AVI files. If an audio source is selected for the camera, this will be included in the AVI file.
The codec to be used when creating the files is selected in the *Codec* drop down menu. If in doubt, *Indeo® Video 5.10* will work on most computers.
 - *Database Files* creates a NetDVR database consisting only of the selected sources in the chosen time frame.
 - *JPG/WAV Files* exports all images for the selected cameras in the chosen time frame in JPG format, as well as any selected audio in WAV format.
- ◆ To print out an Alarm Report, select the  button. Operator ID and report comments can be added by filling out the commentary fields in the print menu.


Remote Access Servers

Remote access to the NetDVR Database is facilitated by the *NetDVR HTTP Server* and the *NetDVR Realtimefeed Server*, which are both included in the standard software packet.

By default they are both started when the PC is booted.

- ◆ The *Web Server* handles connections from browsers for navigation and still-image viewing.
- ◆ Click on the  icon in the system tray to open the *Web Server* configuration dialog.
- ◆ Click the *Settings* button to start configuration.
- ◆ By default, the web server is set up to allow everyone access by logging in anonymously. To allow access for known users only, select the *Access For Predefined Users Only* option.
- ◆ Click the *User Setup* button to define the users.
- ◆ To restrict which cameras each predefined user can access, select the *Restrict User Access by Camera* option.
- ◆ Click the *User Access* button to set up which cameras and options each user will have access to.




- ◆ Click on *Hide Window* to close down the *Web Server* window.
- ◆ The *Realtimefeed Server* handles all moving picture feeds. Once it is started, it does not need any configuration.
- ◆ To view the *Realtimefeed Server* configuration, click on the  icon in the System Tray.
- ◆ To test the Remote Access functionality, type <http://localhost> in the Internet Explorer on the ONSSI NetDVR PC.

- ◆ Microsoft™ Internet Explorer 5.5 or newer is required to view moving pictures (live or recorded).
- ◆ The NetDVR Monitor **must** be running to view live pictures.

Image Server Administrator (NetGuard)

The *Image Server* service (called an *Engine*) is handling the NetGuard access to the *Monitor* databases.

- ◆ Click on the  shortcut on the desktop to open the Image Server Administrator.
- ◆ The engine name can be changed to whatever you desire, i.e. Central Office NVR. The port used can also be changed here (default is 80).
- ◆ If the Image Server should be accessed from the Internet via a router or firewall, the *Enable Outside Access* must be enabled. The outside (public) IP address and port must be specified in the *Outside IP Address* and *Outside Port* fields respectively.
- ◆ The router must be configured to forward requests to this address and port to the inside (local) server IP address and port.
- ◆ The user rights are defined in the *User Administration*. Click on the *User Setup* button to set up the users.
- ◆ The privileges of each user must be defined in the *User Access* dialog if restricted user access has been chosen.
- ◆ Set the days to keep the log file in the *Log Files* area.
- ◆ If you want to limit the number of users who can log in via the Netguard a time, put a number in the *max number of clients* field.



- ◆ The *Image Server* runs as a service. Please check that the service is running if you can not connect to the *Image Server*. The service will not start if another application or service is using the port specified in the *Image Server Administrator*.

- ◆ The *Image Server* might not respond correctly if characters other than a-z, A-Z, 0-9, space [], punctuation [.] and hyphen [-] are used for either device and cameras names, I/O events, or PTZ preset positions in the *Monitor*.