



Security Solutions

# Digital Vision Network

5000 Series

## Quick Installation Guide

47-0604-01 Revision A  
December, 2004

Copyright 2004  
**Johnson Controls, Inc.**  
All Rights Reserved

No part of this document may be reproduced without the prior permission of  
Johnson Controls, Inc.

These instructions are supplemental. Often they are supplemental to  
other manufacturer's documentation. Never discard other  
manufacturer's documentation. Publications from Johnson Controls,  
Inc. are not intended to duplicate nor replace other manufacturer's  
documentation.

# DVN 5000 QUICK INSTALLATION GUIDE

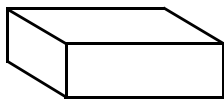
This guide contains the following information:

- Contents of your DVN 5000 Series server package
- Important safety information
- Cable connections scheme
- Server setup outline
- Logging into VisionWeb

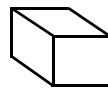
## PACKAGE CONTENTS

Thank you for choosing *Johnson Controls* DVN 5000 Series server.

Please check the sensor label on the package. Red color indicates the package was not handled with care during shipping. For more information visit:  
[www.shockwatch.com/products/LabelCheck.htm](http://www.shockwatch.com/products/LabelCheck.htm).



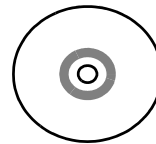
DVN 5000 SERIES  
SERVER



### ACCESSORIES BOX:

- Security keys\*
- Rubber case feet
- Handles\*
- Brackets and screws to mount the handles\*

\* Rack-mount unit only

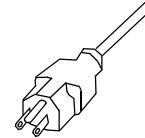


### INSTALLATION CD:

- Software
- Manuals



MOUSE



POWER CORD

## UNDERWRITERS LABORATORIES STATEMENT

Underwriters Laboratories Inc. (“UL”) has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL’s Standard for Safety UL60950-1, First Edition. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.

## IMPORTANT SAFETY INFORMATION

### Environmental Conditions

The DVN 5000 Series server should be stored and/or installed in an environment that conforms with the following specifications:

Item	Specification
Operating Temperature	41 - 122°F (5 - 50°C)
Storage Temperature	14 - 140°F (-10 - 60°C)
Relative Humidity	5 - 95%

### Voltage, Frequency, and Current

Item	Specification
Maximum current	10 A
Frequency	50/60 Hz
Power supply voltage	100-240 VAC

### Power Supply

A universal power supply 100-240 VAC should be used with the following server models: DVN 5016 RT, DVN 5008 RT, DVN 5004 RT, DVN 5016, and DVN 5008.

## Protection

Branch circuit overcurrent protection rated 15A is required in the building installation wiring.

## Connecting the Server

Comply with the following requirements:

- Power outlet shall be equipped with earthing protection.
- The outlet shall be installed near the equipment and shall be easily accessible.
- Use the appliance coupler as disconnect device.

➤ **To connect the server:**

1. Connect one end of the cable to the server.
2. Plug in the other end of the cable to the power outlet.

## Power Supply Cord



Check power supply cord before using. If damaged, don't switch on the appliance. Replace the cord with same type and ratings.

## Switching the Server On and Off

All models of the DVN 5000 Series servers are equipped with a *main power switch* located at the back of the server that turns the power on and off.

In addition, the server is equipped with a *soft power switch* located at the front of the server. It is enabled only when the if the universal power supply switch (if present) is turned on.

---

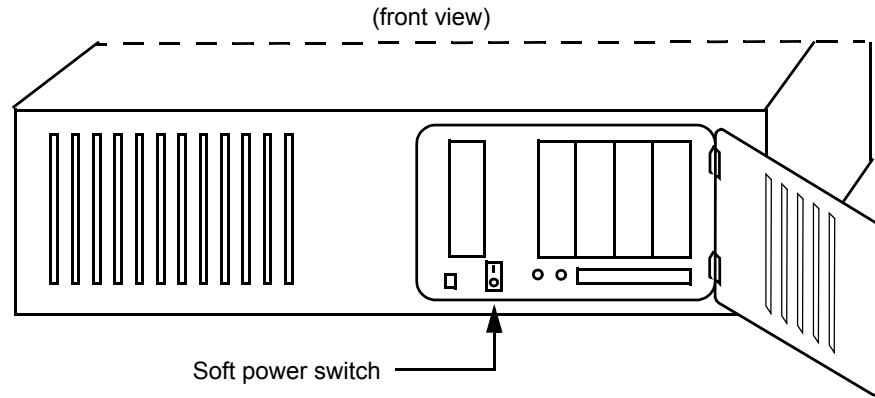
### NOTE

*Some models of universal power supply do not have a power switch.*

---



Do not open the unit when powered on.



## Voltage Selection

The DVN 5000 series server does not have a voltage selection switch. The rating is 100-240 VAC, 50/60 Hz. Verify that this voltage type and range matches the local power supply value

## Non Standard Connectors Rating

The rating of non standard connectors (alarm relays outputs and switched digital inputs) is maximum 0.5 A at 12 VDC, 24 VAC, or max 42 VDC for all DVN 5000 Series models.

## Mounting

The table below specified rack mount or desktop use according to the DVN 5000 Series server model:

Model	Rack Mount/Desktop Use
DVN 5016 D	Desktop
DVN 5008 D	Desktop
DVN 5004 D	Desktop
DVN 5016 RT	Rack
DVN 5008 RT	Rack
DVN 5004 RT	Rack
DVN 5016	Rack
DVN 5008	Rack

## Lithium Battery Replacement

---

### NOTE

*Shut off the server prior to starting this procedure.*

---

1. Remove the top panel of the server.
2. If necessary, remove other components that are obstructing access to the lithium battery (e.g. sound cards or video cards).

---

### NOTE

*If the video cards have dip switches that are addressed for specific cameras, they will need to be re-installed into exactly the same slots.*

---

3. Remove the old battery.
4. Dispose of the old battery according to local requirements.
5. Insert the new battery.



The lithium battery is polarized. Ensure the side marked '+' faces out or towards you.



Danger of explosion if battery is incorrectly replaced.  
Replace only with same type and rating.

6. Replace the components you have removed and the top server panel. The server can now be switched back on.

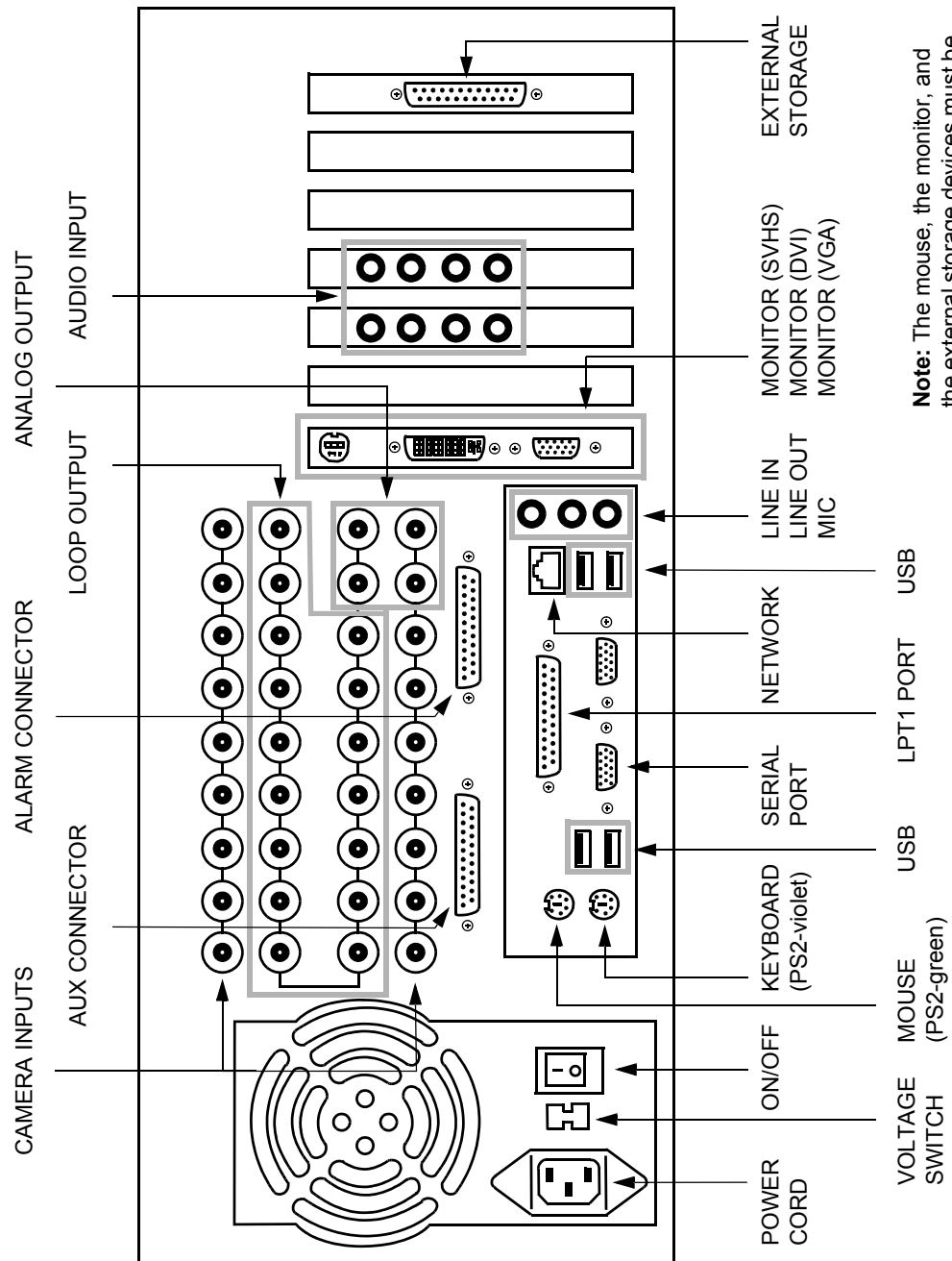
## PCB Card Replacement

When replacing an PCB card, dispose of the old card according to local requirements.

## Servicing and Repair

There are no user serviceable parts inside the unit. Refer to your dealer for any service needs.

## CABLE CONNECTIONS SCHEME





## SERVER SETUP OUTLINE

For detailed information on how to perform each step, refer to the *DVN 5000 Series Software Installation and Configuration Manual*.

### ➤ To power on the server:

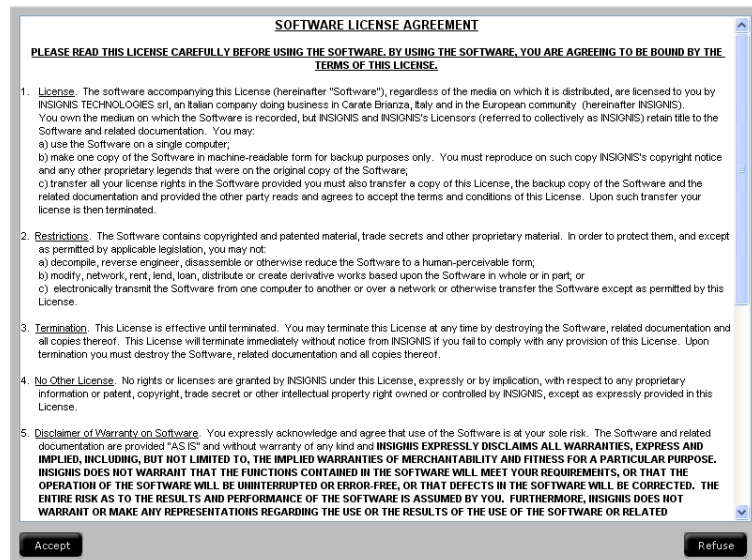
1. Switch the power button on.

### ➤ To configure the server:

1. After the server has been powered on, wait for the language selection screen to be displayed. Select the language and click the **OK** button.



2. In the Software License Agreement screen, read the license conditions and click **Accept**.



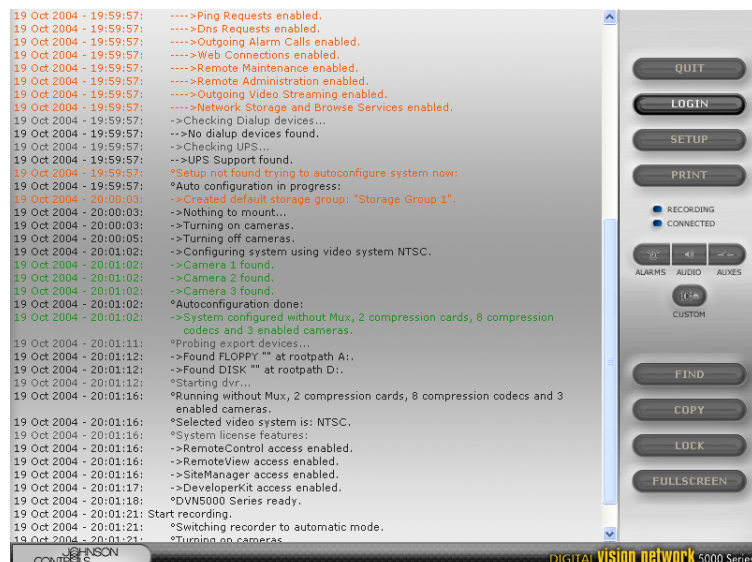
## 3. Select and confirm the video standard.



Once you select and confirm the video standard, it can be changed only by using the “Clean System and Shutdown” feature. This feature erases all customer settings and requires an Authorization key that must be obtained from Johnson Controls.

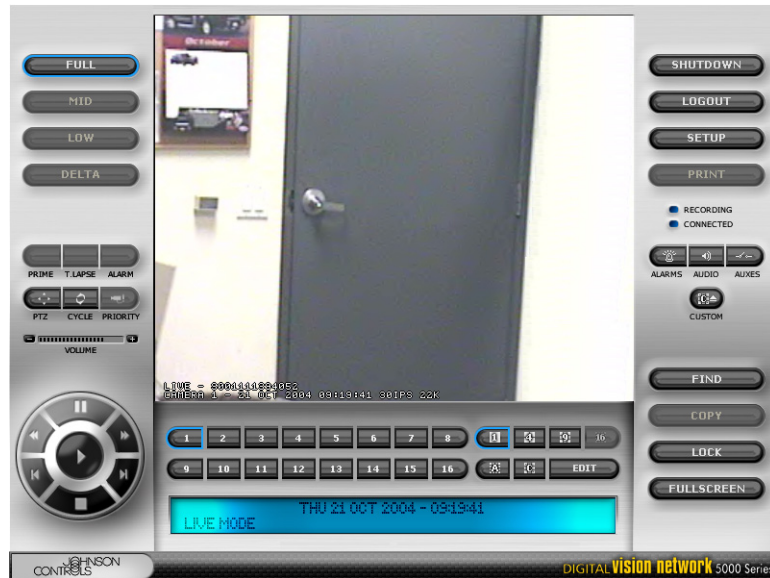
4. Click the **Login** button to log into the server.**NOTE**

When you configure your DVN 5000 Series server for the first time, the default password will remain undefined until you specify it. For security reasons, it is highly recommended that you add the administrator's password as soon as you access the RemoteControl Main screen.

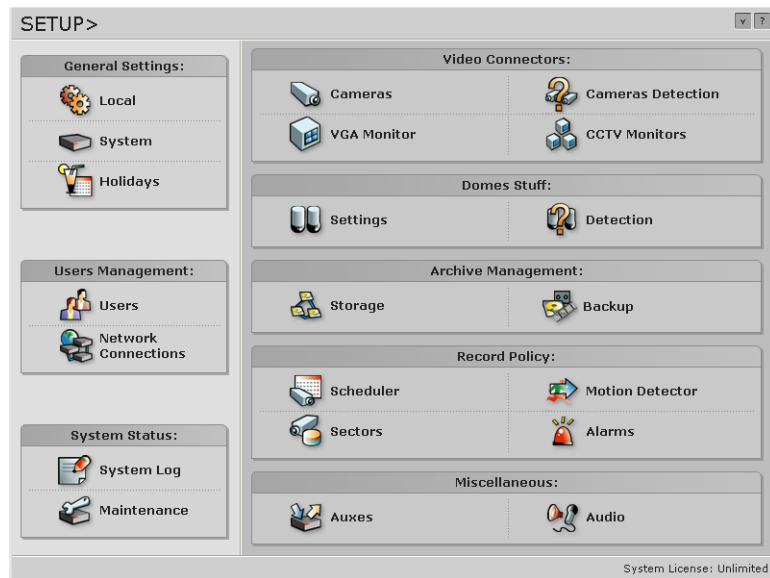


► **To configure network settings:**

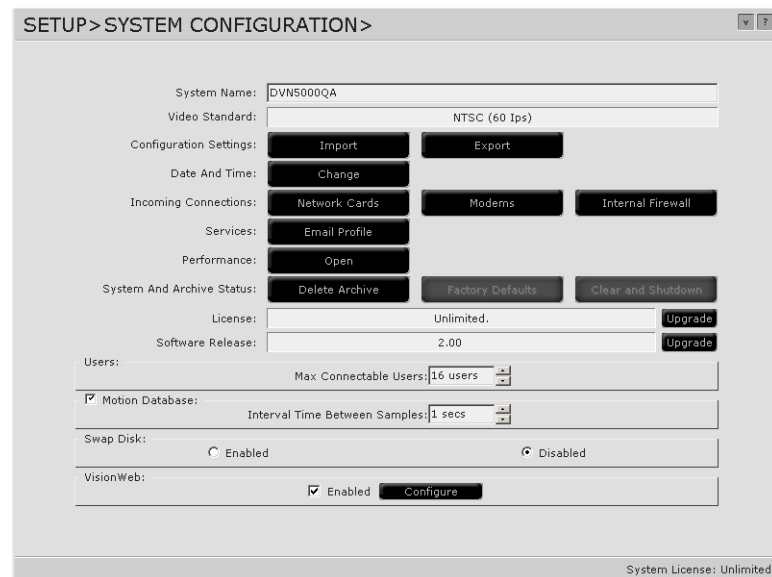
1. After you log in, the RemoteControl server Main screen will be displayed. Click **Setup**.



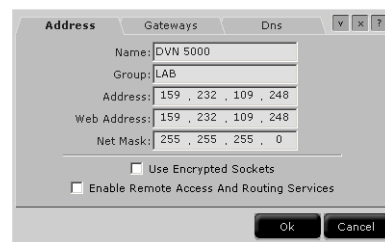
2. In the Setup screen, click **System**.



3. In the System Configuration screen, click the **Network Cards** button for **Incoming Connections**.

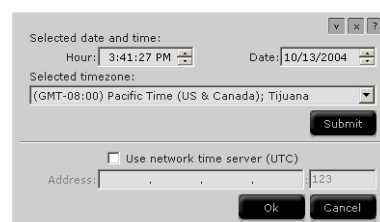


4. Configure the connection settings and click **OK**.



► **To set date and time:**

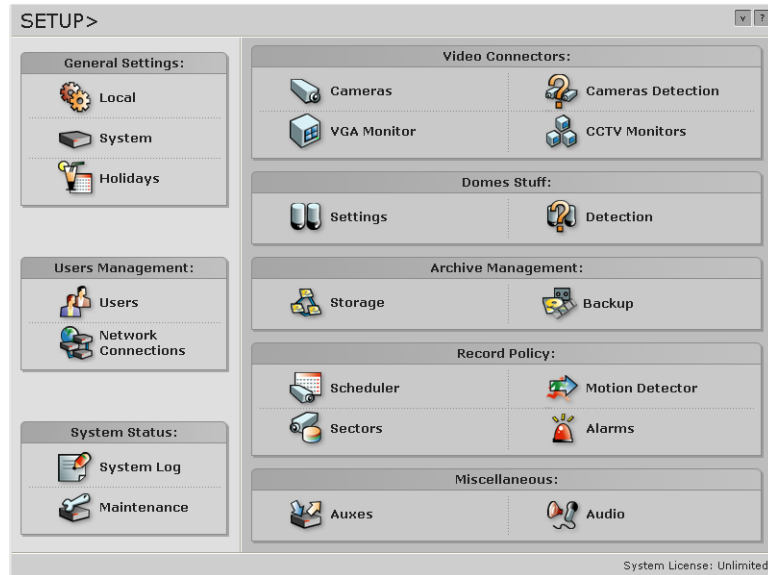
1. In the System Configuration screen, click the **Change** button for **Date and Time**.
2. Set date and time and click **OK**.



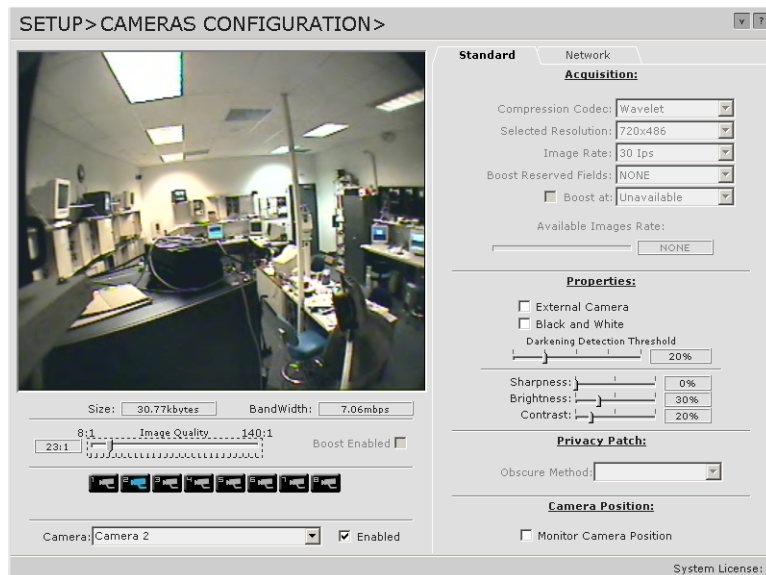
3. Close the System Configuration window. The Setup screen will be displayed.

► **To configure standard camera settings:**

1. In the RemoteControl Main screen, click **Setup**.
2. In the Setup screen, click **Cameras**.



3. In the Camera Settings - Standard screen, select the camera you wish to configure by clicking on the corresponding icon, or selecting the required camera from the **Camera** drop-down menu. Live video footage from that camera will be displayed in the Video window.



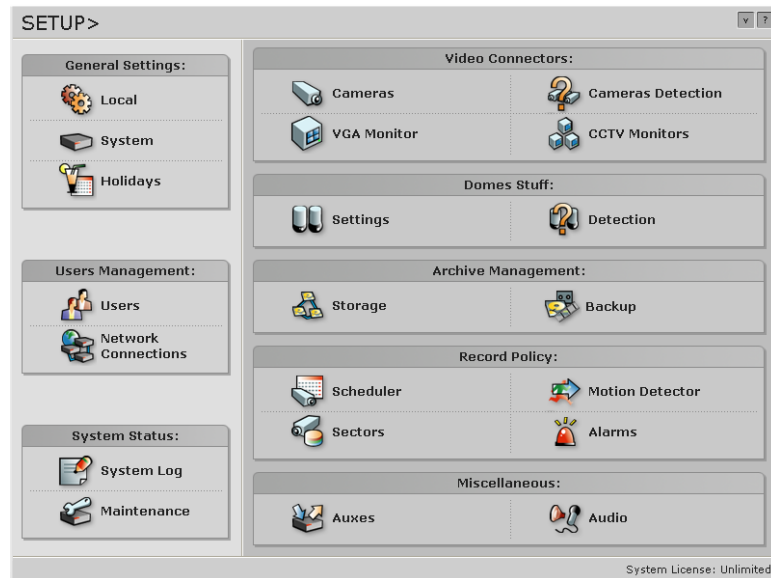
4. If the image is not displayed, verify that **Enabled** box is selected.
5. Type in the camera name in the **Camera** drop-down menu.
6. *Real Time models only:* From the **Compression Codec** drop-down menu, select the compression codec you wish the camera to use for recording video footage. Click **Apply**.
7. Using the **Image Quality** slide, set the camera image quality (compression level).

If the DVN 5000 Series server is a multiplexed machine, the selected image quality will apply to *all* cameras and you will not need to repeat this step for each camera.

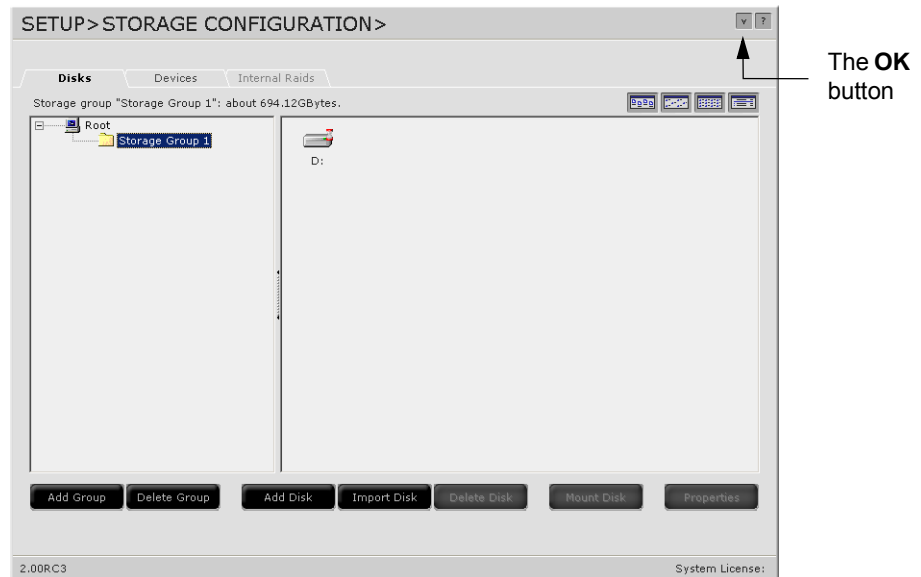
If the DVN 5000 Series server is a Realtime machine, the selected image quality will apply only for the currently selected camera.
8. If the selected camera is located outside, select the **External Camera** check box.
9. If the selected camera a black and white camera, or if you wish to view and record video footage in black and white, select the **Black and White** check box.
10. To adjust the camera sharpness, use **Sharpness** slide bar as required. Observe the changes in image sharpness in the Video window.
11. To adjust the camera brightness, use the **Brightness** slide bar as required. Observe the changes in image sharpness in the Video window
12. To adjust the camera contrast, use the **Contrast** slide as required. Observe the changes in image contrast in the Video window.
13. Refer to the *DVN 5000 Series Software Installation and Configuration Manual* for instructions on how to configure priority boost and privacy patches.
14. Repeat steps 3 - 13 for each connected camera.
15. Click **Apply**.
16. In the Camera Settings - Standard screen, click **OK**.

► **To configure storage:**

1. In the Setup screen click **Storage**.



2. Configure the storage and click **OK**.



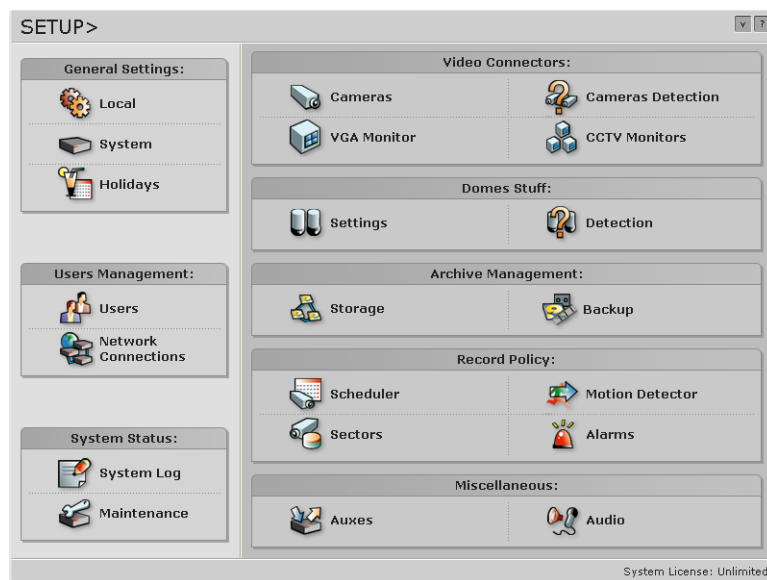
► **To configure record scheduler:**

If you need to configure any of the following, do so before proceeding:

- Network cameras
- Camera detection
- PTZ dome presets
- PTZ dome targets tours
- PTZ dome tours
- Sectors

For detailed procedures refer to the *DVN 5000 Series Software Installation and Configuration Manual*

1. In the RemoteControl Main screen, click **Setup**.
2. In the Setup screen, click **Scheduler**.

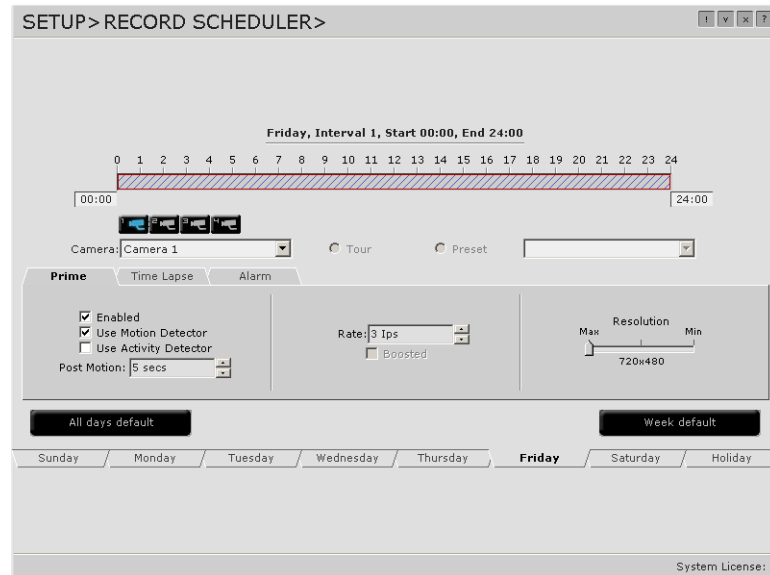


3. The Scheduler screen will be displayed.

If the DVN 5000 Series server is a Realtime machine, the **Boosted** check box will be disabled.



By default, the connected cameras are set to record for 24 hours and the **Prime** and **Alarm** sectors are enabled.

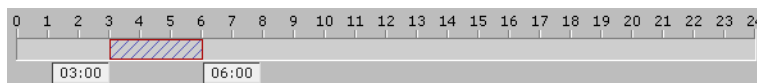


4. Select the day you would like to configure by clicking on the appropriate tab. If the entire **Time Scale** area is striped, the camera recording will be set for the entire day (24 hours).

You may want to, instead, allow the user access for limited or multiple time intervals.

To create the intervals proceed as follows:

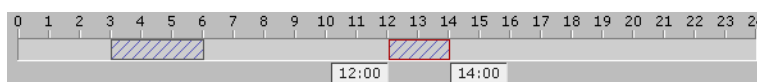
- Place the mouse cursor on the left edge of the **Time Scale** in order to obtain a two sided arrow. Click and drag the arrow to the right in order to set the desired start time. Repeat this procedure with the right edge of the **Time Scale** to set the desired end time.



You may reposition the entire time interval, thus changing the start and end times, by clicking in the middle of the time interval and dragging it to the desired position on the **Time Scale**.

To remove an interval, right click inside it on the **Time Scale**.

- To create subsequent interval(s), right-click on a free space and drag (left or right) to define interval duration. Repeat the procedure until you have created all the intervals.



You may create up to 5 intervals.

5. Configure each created interval separately. To do so, select the time interval you wish to configure by placing the cursor over the time interval in the **Time Scale**. The time interval will display a red outline and the **Start** and **End** time boxes will be displayed.
6. With the time interval selected (outlined in red), choose the cameras you would like to record for the selected time period by clicking on the appropriate **Camera** button.



A blue (lit up) icon indicates that the user can access the camera.



A gray icon indicates that the user cannot access the camera.

7. Select the camera whose sector(s) you wish to configure by using the **Camera** drop-down menu.

If the selected camera has a PTZ dome, you can choose to assign it a default position - a preset, targets tour, or tour.

The default camera PTZ dome position is assumed at the beginning of the selected time interval and, if configured, when the PTZ dome has been moved but then has been idle for the specified time period.

- To assign a preset, select the **Preset** radio button and select the preset from the drop-down menu.
- To assign a targets tour or tour, select the **Preset** radio button and select the targets tour or tour from the drop-down menu.
- If you do not want to assign a default position, select the **Preset** radio button and select **None** from the drop-down menu. Then select the **Tour** radio button and select **None** from the drop-down menu. As a result, the camera PTZ dome will not be assigned a default position.

You can choose one preset or targets tour, or tour for a single PTZ dome for a single time interval. In order for the camera PTZ dome to assume the default position, the selected preset/targets tour/tour must be configured.

If you do not assign a default camera PTZ dome position the PTZ dome will only ever move to/remain in the position manually achieved by the user using the PTZ controls. Consider that important footage may be missed if a camera PTZ dome is accidentally, or deliberately, left in a “useless” position.

8. To enable the Prime sector, verify that the **Enabled** check box is selected.
9. To enable the Time Lapse sector, click on the **Time Lapse** tab and select the **Enabled** check box.
10. To enable the Alarm sector, click on the **Alarm** tab and verify that the **Enabled** check box is selected.

To set up recording to the Alarm sector when motion or activity is detected, the alarms need to be configured. Refer to the *DVN 5000 Series Software Installation and Configuration Manual* for instructions.

11. To configure a sector, click on the appropriate sector tab.

12. (This step does not apply to the Alarm sector). If you wish the selected sector to record in response to detected motion, select the **Use Motion Detector** check box.

If you wish the selected sector to record in response to activity, select the **Use Motion Detector** and **Use Activity Detector** check boxes. (If the **Use Motion Detector** check box is not selected, the **Use Activity Detector** check box will be disabled.

You must configure the motion detector in order to use it as a trigger for recording. The activity detector will pick up any movement while the motion detector will only detect movements which meet the specified motion detection criteria.

13. Select the preferred recording period following the end of each instance of motion and/or activity by using the **Post - Motion** scroll bar.
14. Select the camera sector's recording rate (IPS) by using the **Rate** scroll bar.
15. If the priority boost is enabled and you wish to record video footage to the selected sector at the image rate specified in the **Rate** scroll bar when priority boost is not active, and the boosted image rate when the priority boost is activated, verify that the **Boosted** check box is selected.
- If the priority boost is enabled and you wish to record video footage to the selected sector at the image rate specified in the **Rate** scroll bar regardless of priority boost activity, un-select that the **Boosted** check box.
16. Select the resolution which you wish the video footage to be recorded in for the selected camera's sector by using the **Resolution** slide bar.
17. Repeat steps 11 - 16 for each one of the camera's sectors you wish to record for the selected time interval.
18. Repeat steps 6 - 17 for each camera which has been selected to record for the selected time interval.
19. Repeat steps 4 - 18 for each time interval created.

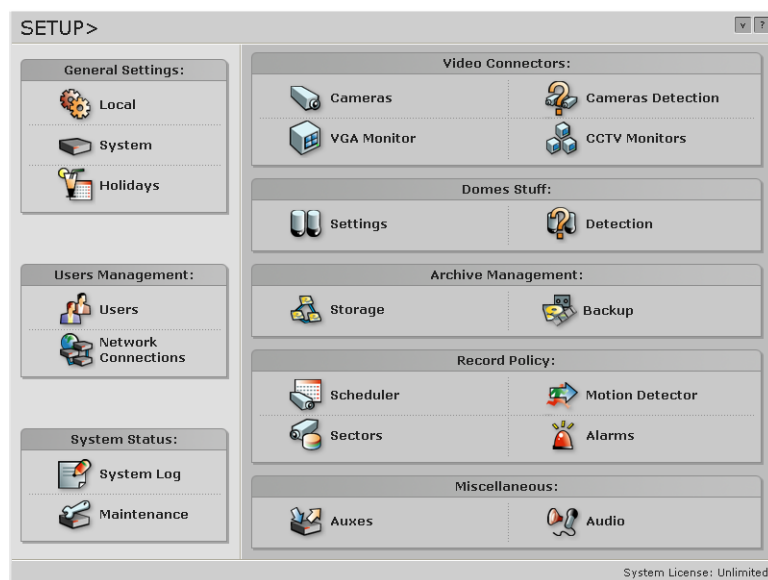
20. Apply the settings.

- To apply the settings for Monday to Friday, click **Week default**.
- To apply the settings for all days including holidays, click **All days default**.
- To apply unique settings for each day, click on the appropriate **Day** tab. The settings will be applied for this day. Repeat the configuration procedure for each day you want to set up (steps 6 - 19).
- To disable recording of any video footage for a particular day, click on the appropriate **Day** tab and right click on the **Time Scale**. The time interval will disappear. *As a result, recording will not occur for the selected day of every week from then on until you change the day's settings again.*

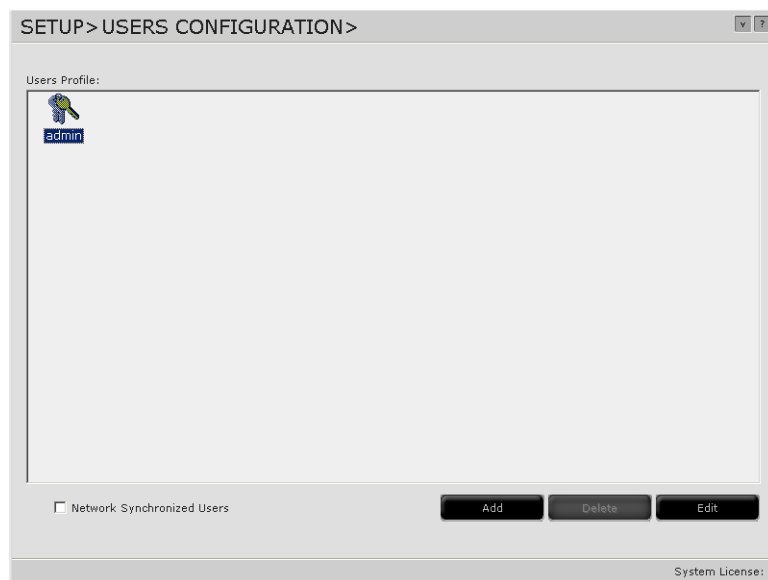
21. Click **Apply**.
22. In the Scheduler screen, click **OK**.
23. In the Setup screen click **OK**.

► **To set the administrator's password:**

1. In the Setup screen, click **Users**.



2. In the Users screen, highlight the **admin** icon and click **Edit**.



3. Configure the password and click **OK**.

SETUP>USERS CONFIGURATION>

Login: admin Password: \*\*\*\*\*

Ok Cancel

Login created the 11 February 2003 modified 12 February 2003

User Profile

Picture:

Home:

Address:

Telephone:

Fax:

Mobile:

Office:

Company:

Address:

Position:

Unit:

Office:

Telephone:

Fax:

Other:

Notes: System Administrator

System License:

► **To add users:**

1. In the Setup screen click **Users**.

SETUP>

General Settings:

Local

System

Holidays

Users Management:

Users

Network Connections

System Status:

System Log

Maintenance

Video Connectors:

Cameras

VGA Monitor

Cameras Detection

CCTV Monitors

Domes Stuff:

Settings

Detection

Archive Management:

Storage

Backup

Record Policy:

Scheduler

Sectors

Motion Detector

Alarms

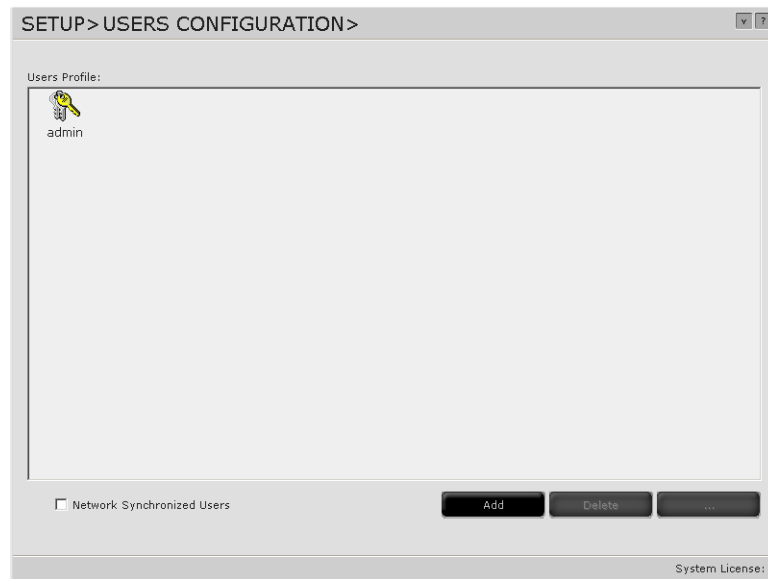
Miscellaneous:

Auxes

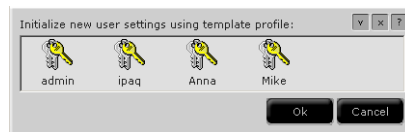
Audio

System License: Unlimited

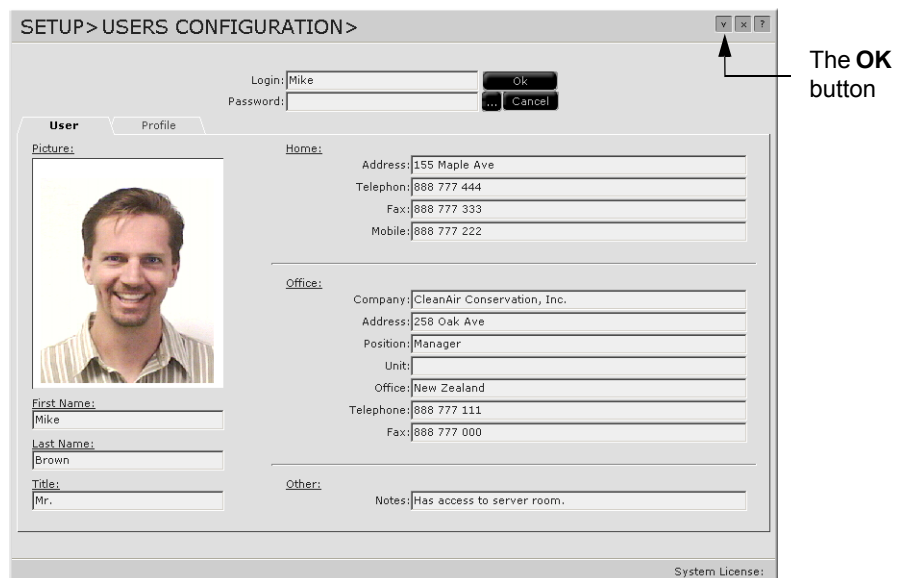
2. In the Users screen, click **Add**.



3. In the User Template window, click **Ok**.



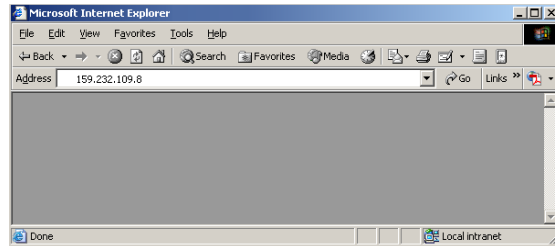
4. Specify the user name, password, and other settings as required and click **OK**.



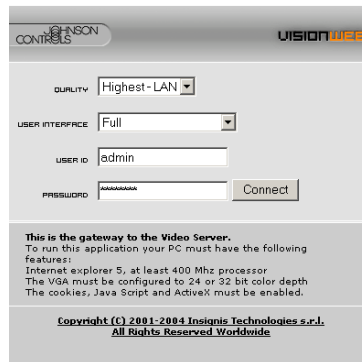
## LOGGING INTO VISIONWEB

### ► To log in to VisionWeb:

1. Go to **Start>Programs>Internet Explorer**.
2. Type in IP address of the DVN 5000 Series server. Click **Go**.



3. Select the quality of transmission and user interface. Use the corresponding drop-down boxes to select the connection quality and user interface. Enter the user I.D. (login name) and password, if required. Click **Connect**.



4. The VisionWeb user interface (of the type selected in previous step) will be displayed.



