IPCorder KNR-100 – Installation manual

September 28, 2008

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Chapter 1

Installation

1.1 Package contents

Figure 1.1: Package contents

1. IPCorder
2. Power supply
3. Power supply cable
4. Basic firmware CD
5. 4 screws
6. Quick Installation Guide
7. License agreement

1.2 Hard disk installation

1. On the sides of the IPCorder there are 4 screws (2 on the upper side and 2 on the bottom side). These should be removed (Figure 1.2).

2. When they have been removed, lift the housing (Figure 1.3).

3. Place the SATA or SATA 2 disk in its allocated space and plug into the connector (Figure 1.4 on the facing page).

4. Fasten the disk in place using screws on its sides (Figure 1.5 on the next page).

5. Once the disk is secure, cover again with the housing and screw the upper and lower parts as they were (Figure 1.2).

Figure 1.2: The housing screws

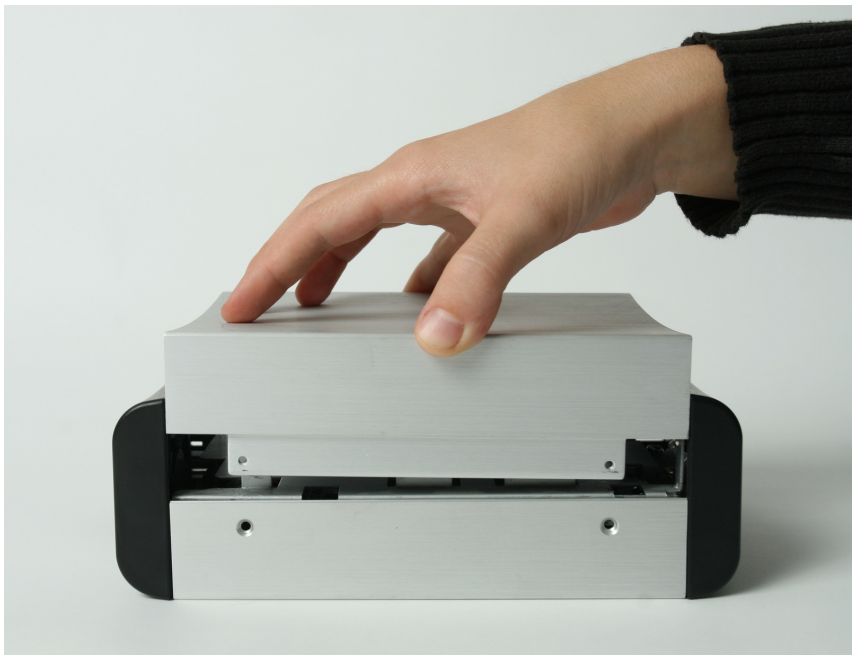

Figure 1.3: Opening the KNR-100 housing

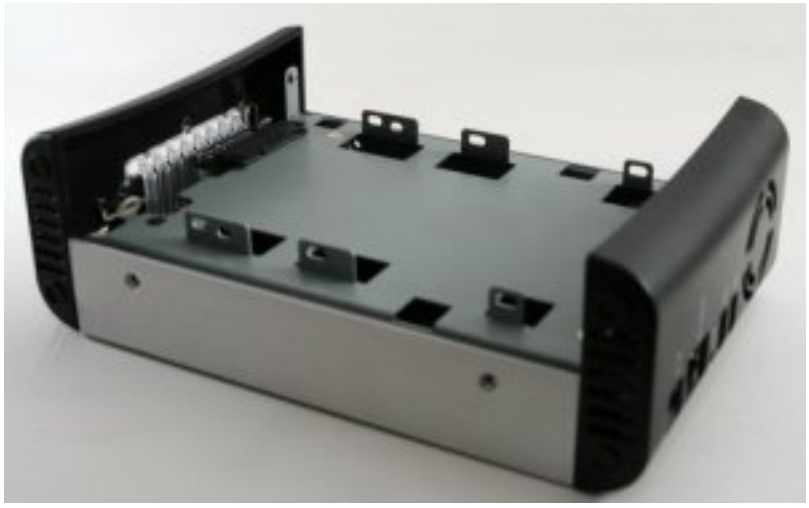

Figure 1.4: Disk connector

Figure 1.5: Correct securing of the hard disk in the KNR-100

1.3 IPCorder connection

1.3.1 Connecting

The IPCorder should be connected to the computer network. The RJ-45 socket is located between the power socket and the reset switch (Figure 1.6 on the next page).

The IPCorder is connected to the mains power. The power supply socket is located in the lower part of the rear panel (Figure 1.7 on the following page). If the cable is correctly connected, the POWER LED will begin to flash and the device will start up.

1.3.2 Accessing the IPCorder over network

On start-up, IPCorder tries to obtain an IP address via DHCP; if unsuccessful, the IP address defaults to *192.168.1.78*. If the IPCorder is in the same subnet as the PC the IPCorder is to be accessed from, it should appear in Network Devices (under Microsoft Windows).

After entering the IP Address of the IPCorder in a www browser's address bar (Mozilla Firefox or Internet Explorer 6, for example), the rescue mode interface should display.

1.4 Initial firmware installation

On the first start-up, the device goes into *rescue mode*. In this mode, the firmware needs to be installed on the device and its hard disk formatted.

Figure 1.6: Connecting to the network

Figure 1.7: Power supply socket

The device can be found among the *network devices* under *Microsoft Windows*. After the clicking on it, a browser window opens with the *Storage Configuration* page (Figure 1.8 on the next page).

If you browser does not support automatic redirection, the main *Rescue Mode* page will be displayed (Figure 5.1 on page 17). The *Storage Configuration* page can be accessed by selecting the *Storage Configuration* link.

In the *Upload system package* field enter the file from the folder labeled *System* on the *Installation CD*. When the *Upload System* and *Setup Disk* button is pressed, the disk is formatted and the system is uploaded to the device. This may take some time to complete. During this time a notification page is displayed. The device must not be switched off until the process is completed, otherwise damage to the device may result.

When the firmware has been installed the device indicates the process is complete and displays the current disk status. The device is now ready for use. To put the device in normal operating mode click on the *Restart in normal mode* link.

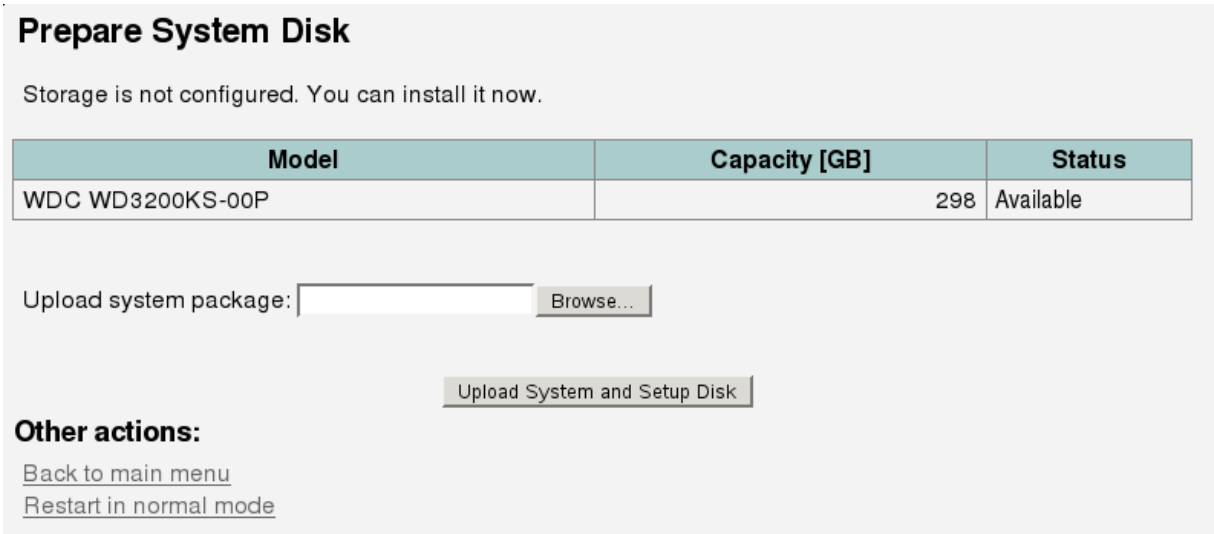

Figure 1.8: Storage configuration

Chapter 2

LED indicators and buttons of the device

2.1 Device states and their indication

The device may be in one of the following states:

- Start/Shut down –Power LED flashes blue
- Normal mode –Power LED is lit blue
- Rescue mode –Power LED is lit blue and the last four LEDs (usbI, usbII, hdd full, backup) flash from top to bottom

2.2 Controlling the device using the buttons

The device has 2 control buttons: Power, located on the front panel, and Reset located in a small hole on the rear panel.

- When the Power button is pressed and released, the device goes to Shut down mode, at the end of which it restarts.
- When the Power button is pressed and held for 2 seconds, the device goes to Shut down mode. The device then switches off, and it is safe to disconnect it from the mains supply.
- When the Reset button is pressed, the device goes to Shut down mode, and subsequently restarts in Rescue mode.
- Similarly, the device switches to Normal mode when the Reset button is pressed in Rescue mode.

Chapter 3

Upgrading the firmware

1. Upgrading the firmware is always done with a *device key*. A key should be downloaded from every device. Downloading a key is described in the *User Manual*.
2. The firmware upgrade package is always unique for each device. Each device should therefore be registered under your account at *http://updates.ipcorder.com*. If you do not have an account at *http://updates.ipcorder.com*, go to this site and follow the on-screen instructions for creating a new account.
3. A firmware package can be generated for a given device by following the instructions on the server at *http://updates.ipcorder.com*.
4. Firmware upgrades are carried out in Rescue Mode. Switching to Rescue Mode is described in the *User Manual*.
5. Once in *Rescue Mode* go to the *Firmware Upgrade* page.
6. The generated *firmware package* should be entered in step *3. Run Upgrade*. When the *Upload FW* button is pressed the upgrade will begin.
7. The upgrade must not be interrupted; any interruption may damage the device. When the upgrade is complete the system will give a notification.
8. To switch back to normal mode, click the *Restart in normal mode* link.

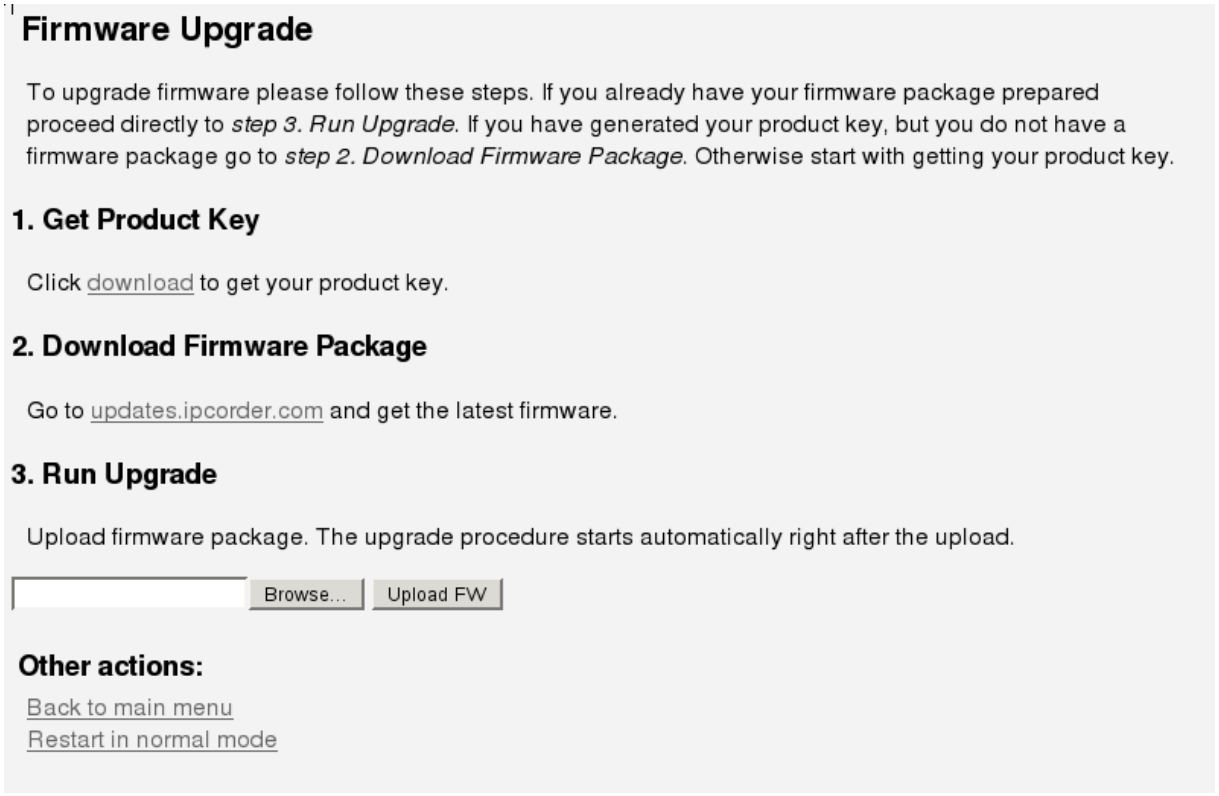

Figure 3.1: Upgrading the firmware

Chapter 4

Factory reset

A factory reset may be required, for example, if the device becomes damaged, or before a re-sale. This function erases all stored data on the disks and returns the settings to their default state.

The process must not be interrupted, otherwise permanent damage to the device may be caused. Verify in advance that the device's power source is stable, and do not turn the device off until the process is complete.

WARNING: data on magnetic media (hard disk) cannot ever be entirely removed. If the disk contained sensitive data, which should not be passed into the hands of any third party, we recommend not reselling the disks, but rather having them physically destroyed.

A return to factory settings is performed from the *Factory Reset* page in *Rescue Mode*. For a description on how to enter *Rescue Mode* see the *User Manual*. In *Rescue Mode*, select the *Factory Reset* link from the main page (Figure 5.1 on page 17) The *Factory Reset* page will be displayed (Figure 4.1). On clicking the *Factory Reset* button the system will begin to erase the data. This process may take some time, during which a notification page is displayed. The system will display a final notification when the process is complete.

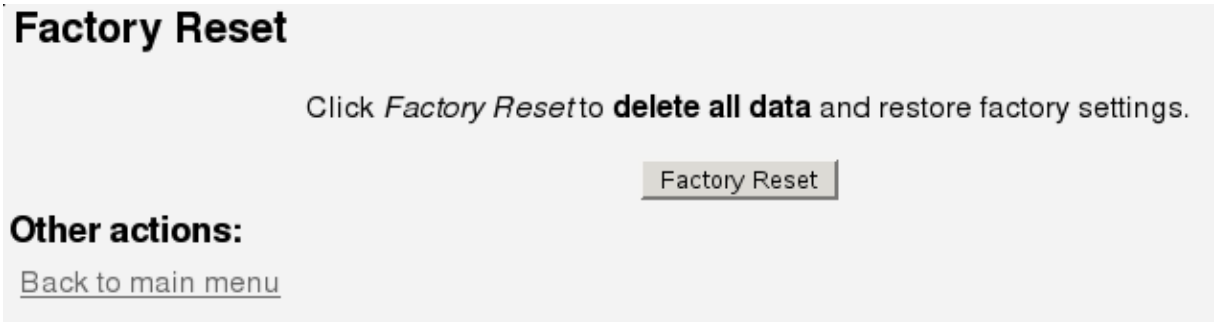

Figure 4.1: Factory reset

A system, which has undergone a *Factory Reset* will require new firmware activation before use.

Chapter 5

Troubleshooting in Rescue Mode

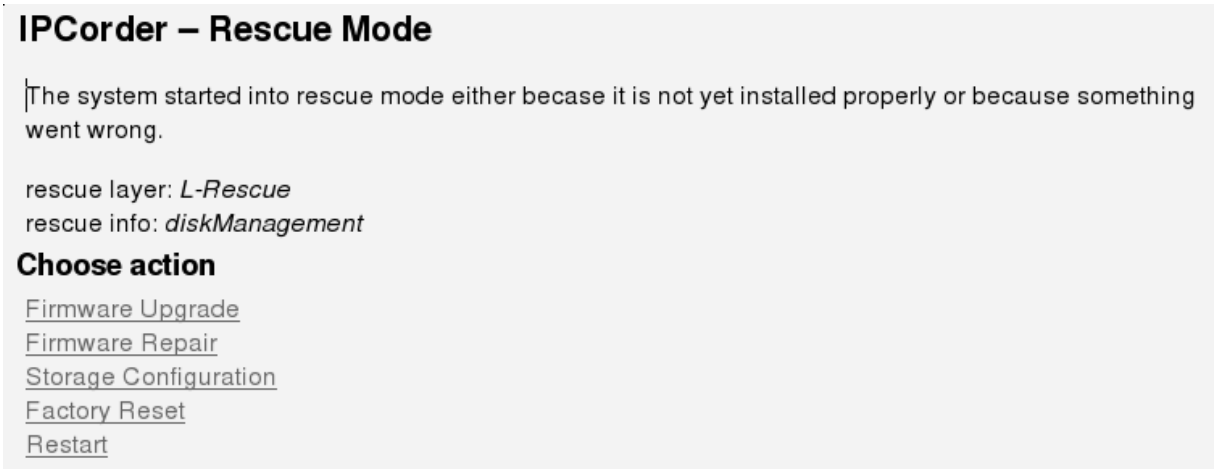

Figure 5.1: The main Rescue Mode page

If any system faults are detected the device will automatically switch to *Rescue Mode*. If specific faults are identified, their appropriate page will be displayed, indicating the recommended course of action.

If the problem is more general, the *main Rescue Mode page* will be displayed (Figure 5.1). An overview of each component's status is accessible on the *Firmware Repair* page, which is opened by clicking on the link by the same name.

If the standard upgrade procedure fails, the firmware can be repaired via the *Firmware Repair* page (Figure 5.2).

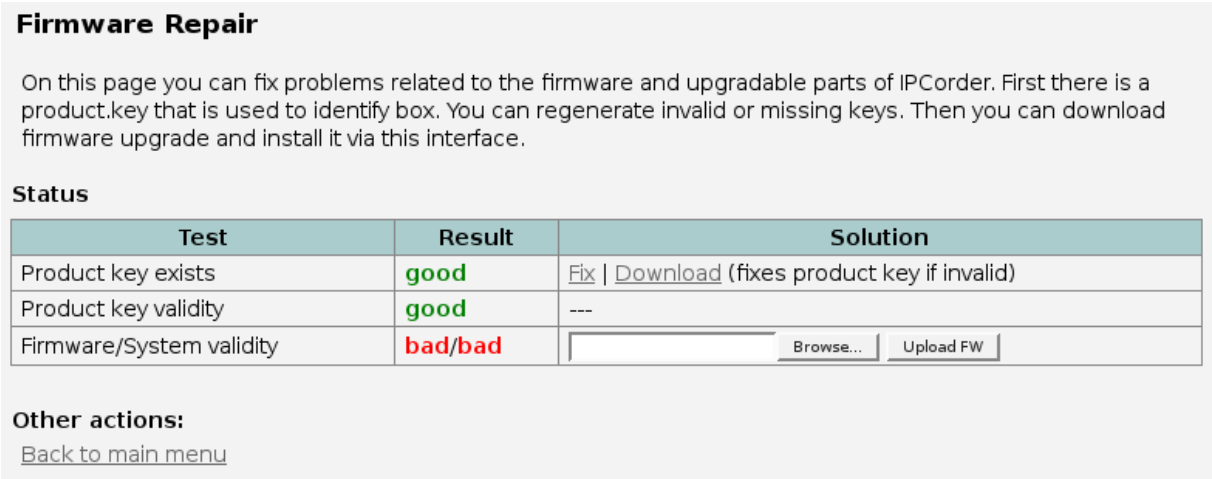

Figure 5.2: Firmware repair

Chapter 6

Exchanging disc

In case a disc need to be replaced (it is full or damaged), please, follow the instructions

- download the latest firmware, that was installed on the device from updates.ipcorder.com (demads registration)
- turn off the device and exchange the discs the same way as in Chapter 2Section 1.2
- switch to Rescue mode and install the downloaded firmware
- after succesful installing firmware the device should be rebooted
- the others configurations will be preserved, the only data removed are camera records

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