

---

Ross Video Limited



# Vision OS Upgrade

## Installation Guide



Live Production Technology

# Vision OS Upgrade Installation Guide

- Ross Part Number: **4800DR-328-04**
- Release Date: December 16, 2010. Printed in Canada

The information contained in this document is subject to change without notice or obligation.

## Copyright

© **2010 Ross Video Limited**. All rights reserved.

Contents of this publication may not be reproduced in any form without the written permission of Ross Video Limited. Reproduction or reverse engineering of copyrighted software is prohibited.


## Patents

This product is protected by the following US Patents: 4,205,346; 5,115,314; 5,280,346; 5,561,404; 7,034,886; 7,508,455. This product is protected by the following Canadian Patents: 2039277; 1237518; 1127289. Other patents pending.

## Notice

The material in this document is furnished for informational use only. It is subject to change without notice and should not be construed as commitment by Ross Video Limited. Ross Video Limited assumes no responsibility or liability for errors or inaccuracies that may appear in this document.

## Trademarks

-  is a trademark of Ross Video Limited.
- Ross, ROSS, ROSS®, MLE, Vision, Octane, CrossOver, CrossOver Solo, CrossOver Studio, Squeeze & Tease, Squeeze & Tease WARP, OverDrive, RossGear, openGear, DashBoard Control System, SoftMetal, and XPression are registered and unregistered trademarks of Ross Video Limited.
- Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
- All other product names and any registered and unregistered trademarks mentioned in this document are used for identification purposes only and remain the exclusive property of their respective owners.

## Important Regulatory and Safety Notices to Service Personnel

Before using this product and any associated equipment, refer to the "**Important Safety Instructions**" listed in the front of your *Engineering Manual* to avoid personnel injury and to prevent product damage.

Product may require specific equipment, and/or installation procedures to be carried out to satisfy certain regulatory compliance requirements. Notices have been included in this publication to call attention to these specific requirements.

## General Handling Guidelines

- Careful handling, using proper ESD precautions, must be observed.
- Power down the system before PCB removal.



---

**ESD Susceptibility:** *Avoid handling the switcher circuit boards in high static environments such as carpeted areas, and when synthetic fiber clothing is worn. Touch the frame to dissipate static charge before removing boards from the frame, and exercise proper grounding precautions when working on circuit boards.*

---

## Environmental Information

**The equipment that you purchased required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.**

To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

# Package Contents

The contents of a Vision OS Upgrade kit is listed below. If any items are missing, or damaged, contact Ross Video Technical Support.

Qty	Part#	Item
1	4800ER-230-04	Vision OS v36 CompactFlash®
1	4800ER-232-02	Vision OS Upgrade USB



**Note:** *If you are downloading the Vision OS Upgrade from Ross Video, the Vision OS Upgrade USB or New Vision OS CompactFlash® are not provided.*

# Vision OS Upgrade

To upgrade the Operating System (OS) on the Vision control panel, you must either replace the CompactFlash® with one provided by Ross Video, or upgrade the CompactFlash in the control panel.



---

**Important:** Before installing the new Vision OS version 36 software, you must upgrade your switcher software to version 10.1b. Refer to your Vision switcher documentation for information on upgrading your switcher.

---

## CompactFlash Removal

To replace the CompactFlash® (CF), you must power down the Vision control panel, and remove the CompactFlash access plate to gain access to the CF.

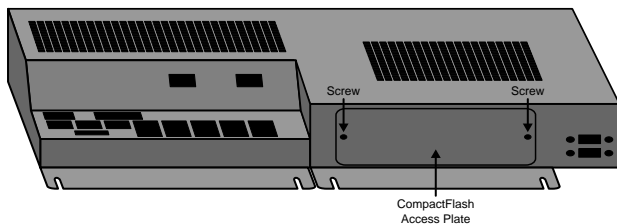


---

**Warning Hazardous Voltages:** Hazardous voltages are present in the frame as long as any of the power supplies are connected to the AC power.

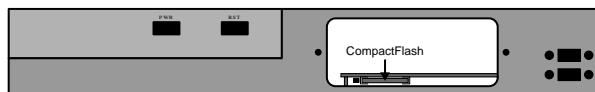
---

1. Power down the control panel. The frame can remain powered on during this procedure. Refer to your Vision switcher documentation for information on shutting down the control panel.
2. Unplug the Primary and Redundant (if installed) power from the control panel.
3. Lift up on the control panel lid to gain access to the control panel tub.
4. Identify the CompactFlash Access Plate on the front of the Control Panel CPU Module.



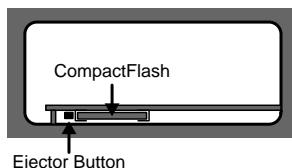
**Figure 1: CompactFlash Access Plate — Control Panel CPU Module**

5. Remove the screws from either side of the CompactFlash Access Plate and remove the plate from the Control Panel CPU Module. Store the screws and CompactFlash Access Plate in a safe place.
6. Identify the CompactFlash installed in the CF Slot on the underside of the CPU Board.



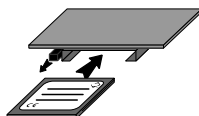
**Figure 2: CompactFlash**

7. Push in the Ejector Button to the left of the CompactFlash to eject the CompactFlash from the CF Slot.
8. Remove the old CompactFlash (4800ER-230-03) from the CF Slot.



**Figure 3: CompactFlash Ejector Button**

9. Align the new CompactFlash (4800ER-230-04) so that it is face down, and slide it into the empty CF Slot until the Ejector Button pops out.



**Figure 4: CompactFlash Insertion**

10. Replace the CompactFlash Access Plate and install the screws in either side of the plate.
11. Close the control panel lid, reconnect the power, and restart the control panel.




---

**Note:** Return the old CompactFlash (4800ER-230-03) to Ross Video. For information on returning the old CompactFlash to Ross Video, contact Ross Video Technical Support.

---

## CompactFlash Upgrade

To upgrade the CompactFlash in the Vision control panel, you must power off the control panel, and boot the control panel up from the Vision OS Upgrade USB.




---

**Important:** If you have replaced the CompactFlash with the new one from Ross Video, you do not need to upgrade the CompactFlash. Only use this procedure if you did not replace the CompactFlash.

---

## Vision OS Upgrade USB Creation

If you have been provided with a Vision OS Upgrade USB from Ross Video, you can proceed to *Upgrading the Vision OS from USB* on page 7.

Before you begin this procedure, ensure that you have the following:

- A computer running Microsoft Windows® XP.
- A 1 to 2 Gigabyte USB flash drive.
- The heracles-rescue-20101118-36.zip file from Ross Video.
- A keyboard connected to your switcher.

To upgrade the Operating System (OS) of the Vision control panel, you must create a Vision OS Upgrade USB, which is a bootable USB drive that has the required Vision OS upgrade files on it. You will be provided with a zip file from Ross Video that has the required files. These files must be extracted onto an empty, 1 Gigabyte USB drive, and the drive configured to be a bootable device under Linux.

1. Format your USB drive to remove any existing files on it. It must be formatted as FAT or VFAT. Note the drive letter of the USB, you will need it later on in this procedure.
2. Locate the file containing the Vision OS upgrade provided by Ross Video.
3. Extract the file to the USB drive, ensuring that the Boot directory is at the top level on the USB drive.
4. Open a command prompt, or terminal window, and change to the USB drive. For example, if the USB drive is E, type **E:** and press **Enter**.
5. Type `cd boot` and press enter to change to the Boot directory on the USB drive.
6. Type `syslinux.exe -m -a -d boot\syslinux <drive>:`, replacing <drive> with the drive letter for the USB, and press **Enter**.
7. Close the command line, or terminal, window and safely stop/eject the newly created Vision OS Upgrade USB.

## Upgrading the Vision OS from USB

Before you begin this procedure, ensure that you have the following:

- A keyboard is connected to the Vision control panel.
- Ensure that write protection on your Vision OS Upgrade USB is disabled.

To upgrade the Vision OS from the Vision OS Upgrade USB, you must reboot the control panel and enter the BIOS. From the BIOS, you must set the boot drive to the Vision OS Upgrade USB and then boot the Vision control panel from the Vision OS Upgrade USB.



**Note:** It can take over 10 minutes to complete the upgrade, depending on the speed of the CompactFlash installed in the panel.

1. Power down the control panel. The frame can remain powered on during this procedure. Refer to your Vision switcher documentation for information on powering down the control panel.
2. Insert the Vision OS Upgrade USB into the USB port on the top of the Vision control panel.
3. Power on the control panel. Refer to your switcher documentation for information on powering on the control panel.
4. Immediately press and hold **Delete** on the keyboard until the **BIOS Setup** application is displayed.
5. Navigate to **Advanced BIOS Features** and press **Enter**.
6. Select **Hard Disk Boot Priority** and press **Enter**.
7. Highlight the USB, or Removable Disk, drive in the list and press **+** to move it to the top position in the list.  
  
This makes the USB port, that the Vision OS Upgrade USB is plugged into, the first drive that the Vision control panel attempts to boot from.
8. Press **F10** on the keyboard to save the changes and exit the **BIOS Setup**.
9. Press **Y** and **Enter** to confirm the changes.  
  
The Vision control panel will reboot from the Vision OS Upgrade USB now. After a few minutes, the message `This Compact flash is about to be formatted. Are you sure you want to do this?`
10. Press **Y** and **Enter** to start the upgrade.  
  
The control panel can take between 7 and 10 minutes to install and verify the new OS. During the installation, the messages `==>Installing<==` and `==>Verifying<==` are displayed, and a spinning text cursor indicates the progress of the install.  
  
When the installation is complete, the message `==>Installation SUCCEEDED<==` is displayed.
11. Remove the Vision OS Upgrade USB from the panel and press **Enter**.  
  
The control panel reboots using the new operating system.
12. Press **Home > More > Setup > Installed Options > Panel Boards** .  
  
The **Operating System Version** should read **36**. If this is not the version displayed, re-insert the Vision OS Upgrade USB and repeat the procedure.




---

**Operating Tip:** You can also verify the OS build on the control panel by logging into the panel with an SSH client and typing `uname -a`. The control panel should return `2.6.24.7-6.rt27.fc8`.

---



**Notes:**

**Notes:**

**Notes:**

# Contact Us

Contact our friendly and professional support representatives for the following:

- Name and address of your local dealer
- Product information and pricing
- Technical support
- Upcoming trade show information

PHONE	General Business Office and Technical Support	613 • 652 • 4886
	After Hours Emergency	613 • 349 • 0006
	Fax	613 • 652 • 4425
E-MAIL	General Information	solutions@rossvideo.com
	Technical Support	techsupport@rossvideo.com
POSTAL SERVICE	Ross Video Limited	8 John Street, Iroquois, Ontario, Canada K0E 1K0
	Ross Video Incorporated	P.O. Box 880, Ogdensburg, New York, USA 13669-0880

## Visit Us

Please visit us at our website for:

- Company information
- Related products and full product lines
- On-line catalog
- News
- Testimonials

[www.rossvideo.com](http://www.rossvideo.com)