
Ross Video Limited



Vision BIOS Upgrade Installation Guide



Live Production Technology

Vision BIOS Upgrade Installation Guide

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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 BIOS Upgrade kit is listed below. If any items are missing, or damaged, contact Ross Video Technical Support.

Qty	Part#	Item
1	4800ER-231-01	Vision BIOS Upgrade USB



Note: *If you are downloading the Vision BIOS Upgrade from Ross Video, the Upgrade USB is not provided.*

Vision BIOS Upgrade USB Creation

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-bios-01052010-1.12.zip file from Ross Video.
- Disk-Imaging Utility, such as WinImage.
- USB Disk Formatting Utility, such as the HP USB Disk Storage Format Tool.
- A keyboard connected to your switcher.

To upgrade the Basic Input/Output System (BIOS) of the Vision control panel, you must create a Vision BIOS Upgrade USB, which is a bootable USB drive that has the required BIOS 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 USB drive, and the drive configured to be a bootable device under DOS.

1. Install the Disk-Imaging Utility and USB Disk Formatting Utility onto your computer according to the manufacturers instructions.
2. Create a temporary folder on your computer, and use the Disk- Imaging Utility to extract the files from the Bootable Disk Image to that folder. You will need to point to this folder in a later step.
3. Format your USB drive using the USB Disk Formatting Utility with the following parameters:
 - Quick Format should be selected.
 - File System must be set to FAT.
 - Create a DOS startup disk must be selected.
 - Use the DOS system files located in the folder containing the Bootable Disk Image you extracted to create the startup disk.
4. Locate the file containing the Vision BIOS upgrade provided by Ross Video.
5. Extract the file to the USB drive, ensuring that all files are at the top level, or directory, on the USB.
6. Safely stop/eject the newly created Vision BIOS Upgrade USB.

Vision BIOS Upgrade

To upgrade the Vision BIOS, you must remove the CompactFlash from the Vision control panel, reboot the control panel with the Vision BIOS Upgrade USB to perform the upgrade, and re-install the CompactFlash.

CompactFlash Removal

To remove 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.

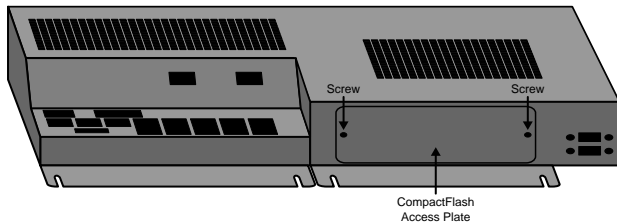


Figure 1: CompactFlash Access Plate — Control Panel CPU Module

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.

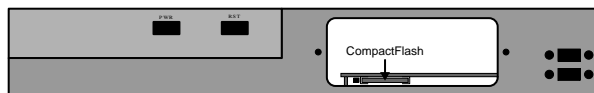


Figure 2: CompactFlash

7. Push in the Ejector Button to the left of the CompactFlash to eject the CompactFlash from the CF Slot. Remove the CompactFlash from the CF Slot and place it in a safe place.

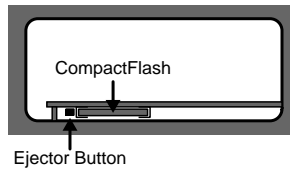


Figure 3: CompactFlash Ejector Button

8. Close the control panel lid, reconnect the power, and restart the control panel.

Upgrading the Vision BIOS

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

- A keyboard is connected to the Vision control panel.

To upgrade the Vision BIOS, you must insert the Vision BIOS Upgrade USB into and power on the control panel. The Vision BIOS installer on the Vision BIOS Upgrade USB installs the new BIOS.



Important: Do NOT remove the Vision BIOS Upgrade USB or power off the control panel during the BIOS upgrade.

1. Power down the control panel. The frame can remain on during this procedure. Refer to your Vision switcher documentation for information on powering down the control panel.
2. Insert the Vision BIOS 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. If you are prompted to enter a date or time, press **Enter** to skip these steps until the `C:\>` prompt is displayed.
5. Type `ross.bat` at the `C:\>` prompt when it appears on the touchscreen. The new BIOS is flashed onto the control panel and the panel restarts.
6. When you are prompted to enter a date or time, remove the Vision BIOS Upgrade USB from the top of the Vision control panel.
7. Re-start the control panel CPU by pressing the **RST** button on the Control Panel CPU Module.

CompactFlash Installation

To re-install the CompactFlash®, you must power down the Vision control panel, remove the CompactFlash access plate, and install 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. Align the CompactFlash so that it is face down, and slide it into the empty CF Slot until the Ejector Button pops out.

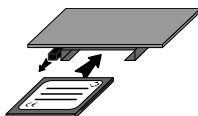


Figure 4: CompactFlash Insertion

5. Replace the CompactFlash Access Plate and install the screws in either side of the plate.
6. Close the control panel lid and reconnect the power.
7. Restart the Vision control panel while pressing and holding the **Pause** button on the keyboard. The current version of the BIOS shown on the screen should read **EMB-945T BIOS Rev. 1.12 for ROSS (01/05/2010)**.
8. Press **Enter** to continue booting the control panel.

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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

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