1 VP-771, VP-770, VP-461 and VP-460 Flash Memory Upgrade

> **ℹ** **This procedure must be performed by experienced computer users that are familiar with different Microsoft Windows™ facilities.**

Three types of upgrade files are available for upgrade: video core, peripherals and audio/graphics.

The latest version of firmware can be downloaded from the Kramer Web site at www.kramerelectronics.com.

> **ℹ** The latest version of K-UPLOAD (version 64 or higher) and installation instructions, as well as the application software and its user guide, can be downloaded from the Kramer Web site at www.kramerelectronics.com

This document describes the flash upgrade procedures for the:

- **VP-771**, **VP-770** Presentation Switcher/Scalers (for which sections 1.3, 1.4, 1.5 and 1.6 apply)

- **VP-461** and **VP-460** Video Scalers (for which sections 1.5 and 1.6 apply)

1.1 Downloading from the Internet

You can download the up-to-date file from the Internet. To do so:

1. Go to our Web site at www.kramerelectronics.com and download the K-UPLOAD package (version 64 or higher) from the Downloads section of the appropriate product.

2. Install the Program.

1.2 Connecting the PC to the Machine

To use K-UPLOAD you have to connect the PC to the machine via RS-232 or the Ethernet (defined in the user manual of the machine).

1.3 Video Core + Audio/Graphics Upgrade (Arm9 Factory Burning)

1. Run the K-UPLOAD software and connect to the device via the appropriate port.

2. Select the ***.FCT** file release version and start the upgrade process.

3. Follow K-UPLOAD instructions; confirm progress of the process by watching the K-UPLOAD progress bar and the "LED show".

4. Reset the device and confirm that both the video that appears on the screen and the LEDs react normally.

5. Perform a full factory reset: Push the "Reset To XGA/720p" button while turning the power off and then back on again (cold booting), confirm that all the LEDs are blinking and wait until the video appears on the screen and the LEDs react normally.

1.4 Peripherals Upgrade (ARM7 Upgrade)

1. Run the K-UPLOAD software and connect to the device via the appropriate port.

2. Select the latest ARM7 firmware file (***.kfw**) of the **Machine** and start the upgrade process.

3. Reset the device, and confirm that both the video that appears on the screen and the LEDs react normally.

4. Connect to the device once again and check if the ARM7 firmware version was updated. Use any terminal software (for example HyperTerminal) to send the version command:
   #version?<CR>

   The ARM7 firmware version number consists of the **last** 4 digits of the version command result:

   Result:
   `01.03.01.5439.5490.D` (the ARM7 version is 5490)

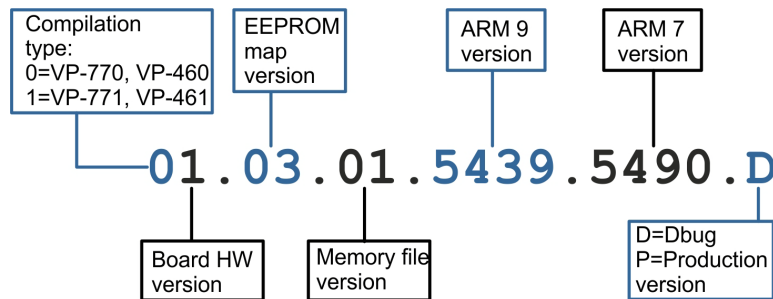Figure 1 deciphers the version digits:

Figure 1: Version number

1.5 Video Core Upgrade (ARM9 Upgrade)

1. Run the K-UPLOAD software and connect to the device via the appropriate port.

2. Select the latest ARM9 firmware file (***.kfws**) of the **Machine** and start the upgrade process.

3. Follow K-UPLOAD instructions; confirm progress of the process by watching the K-UPLOAD progress bar, the "LED show" and the on-screen special upgrade messages.

4. Confirm that the process is finalized by the normal on-screen display and the normal LEDs illumination.

   ! **DO NOT RESET THE DEVICE MANUALLY**!

5. Connect to the device once again and check if the ARM9 firmware version was updated. Use any terminal software (for example HyperTerminal) to send the version command:
   #version?<CR>

   The ARM9 firmware version number consists of the **first** 4 digits of the version command result:

   Result:
   `01.03.01.5439.5490.D` (the ARM9 version is 5439).

1.6   MF Upgrade – Audio/Graphics Upgrade

1. Run the K-UPLOAD software and connect to the device via the appropriate port.

2. Select the ***.MF** file you want to upload to the **Machine** and start the upgrade process.

3. Follow K-UPLOAD instructions; confirm progress of the process by watching the K-UPLOAD progress bar, the "LED show" and the on-screen special upgrade messages.

4. Confirm that the process is finalized by the normal on-screen display and the normal LEDs illumination.

DO NOT RESET THE DEVICE MANUALLY!

5. Connect to the device once again and check if the MEMFILE firmware version was updated. Use any terminal software (for example HyperTerminal) to send the version command:
   #version?<CR>

   The MEMFILE firmware version number consists of the **third** 2 digits of the version command result

   Result:
   `01.03.11.5439.5490.D` (the MEMFILE version is 11).