



***It is strongly recommended that you read this notice and the DVI-Ramp2's User's Manual before usage or upgrade of the product.***

## **1. DOCUMENTATION AVAILABLE FOR RELEASE 8.0008C**

- DVI-Ramp User's Manual
- API (Application Programming Interface) available on demand.
- [FAQs \(Frequently Asked Questions\)](#)

## **2. FIRMWARE**

The DVI-Ramp2 contains different programmable components (firmware). The firmwares contained in this release are as follows:

- Product release = 8.0008c
- Genlock section = 3.01
- DVI section = 2.33 / 3.06
- Frame Buffer section = 2.33 / 3.06
- SDI section = 2.33 / 3.06

The hardware and firmware versions can be found in the "Advanced" or "Versions" tab of the control software (available at [www.miranda.com/software.php](http://www.miranda.com/software.php)).

If your firmware needs to be upgraded, it can be done via the serial port or USB port. If you plan to upgrade your unit yourself, please carefully follow the instructions found at <http://www.miranda.com/software/DVI-Ramp2/firmware/firmware.html>.

### 3. HISTORY

#### 3.1 Release 6.0506

- This release mimics the behavior of first generation Dvi-Ramp (DVI-Ramp1)
- Certain functionalities and behaviors of first generation units (DVI-Ramp1) cannot be mimicked by this new generation (DVI-Ramp2) because of hardware and topological differences.
- All known limitations are listed below in the “Known Bugs and Limitations” section.

#### 3.2 Release 6.0507

- Added DVI Testpattern generator for 1920x1200@60 for DELL monitors
- Fixed DVI Output when going into and out-of DVI test pattern mode.

#### 3.3 Release 7.0009

- Second release of DVI-Ramp2. New features added:
  - Fill & Key
  - Fill & Key + Keyer
  - Support DVI Inputs greater than 8-bits.
  - Two Independent Video Sources.
- API Change to accommodate new features.
- Added better 50Hz input/output support on the PC.
- SDI Input feature is now active (if so equipped).

#### 3.4 Release 8.0007

- Third release of DVI-Ramp2. New Features added:
  - SDI Scaler
  - Anti-Flicker (for interlaced output format) under 1:1 scaling
- API change to accommodate new features

#### 3.5 Release 8.0008c

- Fix of a bug that appeared on the DVI outputs of some units (very few actually). Beside this issues, firmware 8.0008c is very similar to version 8.0007.

#### 4. IMPORTANT CHANGES

Developers[FIXED]: The DVI-Ramp does not properly filter out the following cases in the WPW commands:

- 1) When the width of the player is bigger than the width of the SDI format
  - 2) When the height of the player is bigger than the height of the SDI format
- Workaround: The control application must validate the WPW parameters.

Developers: All Test pattern related bugs [FIXED]

Developers: Added new Test pattern: Horizontal B/W Ramp.

SDI-OUTA and SDI-OUTB are no longer limited to output the same data/video. Different data/video is outputted on SDI-OUTB and is specified by the second extraction window.

SDI-IN is now active. Fill & Key plus Keyer operation can now be performed directly in the unit.

Wrong sized SDI output window when DVI Resolution changes, bug is now fixed.

Reported unstable linelock behavior. [Fixed]

Independent Video source mode: behavioral fixes.

- When DVI signal disappears on one input, the second SDI output flickers [fixed] but glitching is still present on both SDI and DVI output signals.

Fill & Key: 1080p24/23.98 and 1080psf24/23.98 are not supported in Keyer applications only. Fill & Key applications not using internal Keyer support these formats. [Fixed]

Application names have changed:

**From**

Pixel-to-Pixel Extraction (8bits+)  
Fill & Key + Keyer  
Two Video Sources

**To**

Single Extraction – Pixel to Pixel  
Dual Extraction – Fill & Key + Keyer  
Dual Extraction – Pixel to Pixel

**Added**

Single Extraction – Scaling

These changes are also reflected in the PC Software.

We no longer reset Extraction Windows on DVI Input change after reports from customers stating an undesired reset occurs when the DVI source machine is restarted.

## 5. KNOWN BUGS AND LIMITATIONS

There is no DVI analog loopout. Only DVI-D monitors are supported downstream.

Field dominance has no effect.

DVI lookup tables have no effect.

Fill & Key: For Fill & Key applications, **SDI and DVI inputs must be locked**. This is not necessary for static Fill & Key application (e.g. logo insertion).

Fill & Key: For Fill & Key plus Keyer applications, the unit will be locked on the SDI signal.

SDI-OUTA and SDI-OUTB must always have same resolution.

Can't lock SDI-OUTA or SDI-OUTB on DVI-INPUT.

No Ethernet connectivity.

Firmware Update: If updating through USB, make sure no RS232 dongle is connected to the unit. If RS232 dongle was connected during a firmware update, the update application will not be able to communicate through USB with unit.

If this occurs, simply unplug the RS232 dongle and reset unit before trying again through USB.

SDI output is limited to 10bit operation only.

NO Dual-Link DVI Bypass.

Genlock Input must be Black

Reference Alignment in scaler mode might be off by 1 or 2 lines when the scaled output is formatted in Pillar box.

Downscaling from 1920x1200/1920x1080 resolutions to SD-525 in **letterbox** scaling is currently not supported.

**Fill** scaling has no problems.

- As a current workaround, for SD-525, always use a 4:3 aspect ratio extraction window for extractions higher than 1680x1050

Saved Anti-flicker / Sharpness values aren't loaded from Non-Volatile memory at power-up.

## 6. CONTACTS FOR MIRANDA TECHNICAL SUPPORT

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