



Current Version: F – 1.62
Version Date: March 2014
Reference: 6642

Release Type:

☒ Firmware ☐ Software ☒ Hardware ☐ New Product

Kramer Product Affected:

Product Name	Minimum FW Version for Upgrade	Recommended for All Units	Only if Added Features are Required
VP-436N	Any	Yes	N/A
VP-437N	Any	Yes	N/A
VP-441	Any	Yes	N/A

Technical Notes:

- An Apple HDCP problem was fixed with a new board and firmware.
- HDMI/HDCP display problems were corrected.
- Other resolution and display problems were corrected.

Codependency with Other Products and Software:

- There is no codependency with other products or software.



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The following changes were made in this version:

Fixes:

- Approximately 10 seconds after switching to HDMI input with HDCP, the screen dropped for a few seconds.
- After switching from an HDCP source to a non-HDCP, HDCP was still provided on the HDMI output.
- HDCP did not work according to standard in different combinations of HDMI and VGA inputs and outputs.
- When a VGA monitor was connected, a flickering image appeared on a non-HDCP HDMI monitor when the input was HDMI with HDCP. When only an VGA output was connected, the image flashed when the input was HDMI with HDCP.
- When the output is set to Native and the device connected to scaler's output has Native resolution with 50Hz refresh rate (for example 1080p@50 or 720p@50), the scaler saw all native output resolutions as 60Hz.
- The OSD menu didn't appear when only VGA output was connected.
- The output volume steps were not linear.
- The RS-232 command Y 6 0 2 (HW reboot) function didn't work.
- Input resolution 2K (2048 × 1080) was incorrectly detected.



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Modifications:

- Some Apple devices continued outputting an HDCP signal in spite of the HDCP On/Off settings. A new PCB revision resolves this problem.
- There was no output when a source with a low hot-plug signal (for example Grundig GUD 300HD Freeview receiver) was connected. The same new PCB revision resolves this problem.
- The manufacturer and plug and play ID in the EDID (VGA and HDMI) were changed:

Manufacturer: KMR

Plug and Play ID: KMR0000

Known Issues:

- There are no known issues.

Preceding Version: F – 1.56



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Product Name: VP-437N
Preceding Version: F – 1.56
Version Date: August 2013
Reference: 5495

The following changes were made in this version:

Added Features:

- An output frame rate of 59.94 for 480i/480p/720p/1080i/1080p was added. Appropriate commands were also added to communication protocol.
- In the OSD under HDCP on Output setting, "Follow input" and "Follow output" options were added:
 - When "Follow input" option is selected, the device outputs a picture without HDCP protection both on VGA and HDMI outputs if the input signal is not HDCP protected. It outputs a picture with HDCP protection on HDMI output only (VGA output is blocked) if the inputted signal is HDCP protected. This option is recommended if connected to an HDMI output receptor that is not HDCP enabled.
 - When "Follow output" option is selected, the device outputs a picture on the HDMI output without HDCP protection if the receptor connected to the HDMI output is not HDCP enabled. It outputs a picture with HDCP protection on the HDMI output if the receptor connected to the HDMI output is HDCP enabled. VGA output continues to work as under "Follow input" option. This option is recommended if connected to an HDMI output receptor that is HDCP enabled.
- The new command "Y 4 24" was added to communication protocol. This command queries the resolution of the input signal.
- Volume control is now enabled on the analog audio output from the HDMI input with embedded audio.
- The model name VP-4xXX and Range Limit are added to the EDID of the device. EDID is part of the master firmware.



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Fixes:

- A popping noise while switching inputs was fixed.
- The audio menu scrambled after cycling the power without inputs.
- Output resolution 1600x900 sometimes presented a distorted or shifted picture.
- Some communication commands would hang the device while in standby mode.
- Certain control commands sent via RS-232 or Ethernet sometimes caused the scaler to stop responding and required power recycling.
- If some sources (for example, MacBook Pro laptop) go into sleep mode and then wake up, the device menu sometimes gets scrambled.

The built-in screens on some sources (for example, Mac laptops) flashed when switching between inputs.

- With some sources, (mostly Apple devices) a green line sometimes appeared at the bottom of the display when Size was set to Under or Best Fit. Firmware 1.56 has a new option in the OSD menu Finetune>Drop Lines. By factory default this option is set to OFF. Set it to ON to eliminate the green lines. An appropriate command was also added to communication protocol.
- If a laptop is connected to one of the PC inputs and the laptop goes into sleep mode while the HDMI 1 input is currently chosen, switching back to the PC input and waking the laptop, results in a picture only on the HDMI output with no picture on the VGA output even if the source is non-HDCP.
- With an HDCP source connected to a non-HDCP monitor (or no monitor), audio was still outputted on the analog output.
- When the OSD > Display was set to ON after opening and closing the OSD Menu, the information did not appear on the screen.

Known Issues:

- There are no known issues.

Preceding Version: F – 1.38



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Preceding Version: 1.38
Version Date: October 2012
Reference: 4192

The following changes were made in this version:

Added Features:

- Best Fit feature was added: MENU > SIZE > BEST FIT.
- HDMI audio source selection was added:
MENU > AUDIO > HDMI AUDIO IN > AUTOMATIC, EMBEDDED, ANALOG.

Fixes:

- The following VGA EDID corrections were made:
1600x1200 resolution was moved to "Standard timings supported".
1920x1080 (1080p) resolution was made the Native resolution.
WUXGA (1920x1200) resolution was placed in "Detailed timing #3".
- The HDCP checking method was fixed due to the following issue: a PC feeding HDMI into the VP-441 that is output over VGA to a projector intermittently loses the video signal. The video disappears for a few seconds and then reappears. This may happen, for example, several times over a period 20 minutes or it may not occur at all.
- A problem with unstable hot plug status could cause the DVD to playback from the beginning. The hot plug status was corrected to "high" to keep the unit transparent to HDMI sources.

Known Issues:

- There are no known issues.

Preceding Firmware Version: 1.32



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