



# Technical Information

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DATE: April 7, 2009

MODEL: RSP-1098

## Software Release Notes

*The following document contains details of the software updates for the RSP-1098.*

### Key:

New Feature

Feature Change

Bug Fix – Critical

Bug Fix – Minor

## Version 1 Software

### V1.17 to V1.18

January 30, 2004

- **Feature Change:** Improved 12 volt trigger assignment to allow fully independent 12V operation with both main and second zones. Refer to the corresponding Technical Update for more details on this.
- **Feature Change:** Input commands from the rear panel Zone Rem In IR input will no longer power up Zone 2. The Power On or Power Toggle IR command must be used.

### V1.16 to V1.17

November 24, 2003

- **Bug Fix (Minor):** Corrected some terms for the Italian and German languages.

### V1.15 to V1.16

October 24, 2003

- **New Feature:** New commands for RS232 control added for discrete main and second zone volume and source selection.
- **Feature Change:** Changed the menu display for Dolby Digital 2Ch per Dolby:
  - DD2CH with PLII now displays as "Dolby D + PLII C/M/E"
  - Dolby 3 Stereo to "Dolby D + 3 Stereo"
- **Bug Fix (Minor):** Improved decoding of Dolby Digital mono soundtracks.

### V1.14 to V1.15

October 16, 2003

- **Bug Fix (Minor):** Adjusted Center Back levels for DTS ES Matrix surround mode.
- **Bug Fix (Minor):** Corrected a bug causing no Center Back channel output when in DTS ES Discrete mode.

### V1.13 to V1.14

September 23, 2003

- **Bug Fix (Minor):** Corrected a bug where there was no Center Back channel output in Dolby or dts when Advanced Speaker settings used.
- **Bug Fix (Minor):** Corrected some terms for the Italian, German, and French languages.

## V1.12 to V1.13

August 25, 2003

- **Feature Change:** Changed the default Power setting from Direct to Standby mode.

## V1.11 to V1.12

July 31, 2003

- **Bug Fix (Minor):** Modified the German OSD with the following additions of dots:
  1. DFLT MODUS => DFLT. MODUS
  2. WERKSVOREINSTELL => WERKSVOREINSTELL.

## V1.10 to V1.11

July 15, 2003

- **Feature Change:** Changed the Progressive Yes/No settings to now be assignable to specific video inputs. Composite and S-Video upconversion is available on all video inputs not using the Progressive setting.
- **Bug Fix (Minor):** Removed popping sound during DSP or digital mode transitions.

## V1.00 to V1.10

June 26, 2003

- **New Feature:** Allowed a press of the function knob on the front panel to power the unit on from standby.
- **Bug Fix (Minor):** Software relating to the MP3 decoding was changed.
- **Bug Fix (Minor):** Test Tone level reduced from -23dbfs to -30dbfs per Dolby spec.
- **Bug Fix (Minor):** Fixed lack of video output error when Progressive=Yes, OSD Output=Screen Only for Display settings.
- **Bug Fix (Minor):** Fixed a bug where the Multi Input LFE redirect setting was set to On and the unit was power cycled that there would be no subwoofer output.
- **Bug Fix (Minor):** Fixed a bug that would cause no video output when the Progressive setting was set to Yes and OSD output was set to Screen Only.

## Version 2 Software

*EPROM update required new software. Units running version 1 software can upgrade to version 2 software after updating the EPROM.*

### V2.25 to V2.26

April 7, 2009

- **Bug Fix (Critical):** Fixed a bug that would cause the 'Progressive' setting to revert to 'No' when AC power was removed and the 'Progressive' setting was set to either 'Yes ALL', 'V2+V3' or any setting after 'V2+V3'.

### V2.24 to V2.25

October 7, 2008

- **Feature Change:** Adjusted the behavior of the high pass and low pass filters in the Sub Setup and Advanced Speaker Setup menus. Adjusting the subwoofer low pass crossover frequency on the Sub Setup menu will now automatically set the corresponding high pass frequencies on for all of the Small speakers in the system. Previously, the high pass frequency had to be manually set for each speaker in the Advanced Speaker Setup menu.

### V2.23 to V2.24

October 15, 2007

- **Feature Change:** Adjusted remote volume speed ramping. The ramp speed is not as fast as previous versions.

### V2.21 to V2.23

August 20, 2007

- **Bug Fix (Critical):** Improved memory backup software to resolve units losing memory when exposed to low AC line voltage (example: during power outages).

### V2.20 to V2.21

October 27, 2005

- **Bug Fix (Minor):** Fixed a bug that caused audio dropouts from digital sources when controlling volume via RS232.

### V2.19 to V2.20

September 6, 2005

- **New Feature:** Added support for PCM stereo 176.4kHz and 192kHz signals. When decoding these formats, tone control and group delay settings cannot be used.
- **Feature Change:** Added Pro Logic icon for 6.1/7.1 Dolby modes.
- **Bug Fix (Minor):** Improved memory backup software.

### V2.18 to V2.19

May 12, 2005

- **Bug Fix (Minor):** Corrected an error that would allow Zone 2 to be turned on by selecting an Input when the main zone is in standby.

### V2.17 to V2.18

March 8, 2005

- **Bug Fix (Critical):** Corrected an error in V2.17 which caused very low center channel output when switching between Dolby Digital 5.1 to Dolby Digital 2.0 / Pro Logic II mode.

## V2.16 to V2.17

February 28, 2005

- **Feature Change:** Adjusted the sensitivity of the Function knob.
- **Bug Fix (Critical):** Fixed an intermittent problem of units locking into "Standby" mode until the rear panel power toggle was engaged.
- **Bug Fix (Critical):** Improved digital input sensing and format detection. This improvement fixes problems with no audio when changing channels with some Scientific Atlanta HD digital cable boxes.

## V2.15 to V2.16

November 29, 2004

- **Feature Change:** Added support for new video upconversion PCB.

## V2.14 to V2.15

November 4, 2004

- **New Feature:** Added RS232 support for RVE-1060 to allow automatic switching of RVE-1060 inputs.
- **Feature Change:** RS232 Zone 2 input commands will now power up Zone 2 if the zone is off.

## V2.13 to V2.14

October 11, 2004

- **New Feature:** Added Dolby Pro Logic II Game mode.
- **New Feature:** Improved volume speed in both main Zone and Zone 2 via remote control.
- **New Feature:** Added User Default Password feature. **NOTE:** The default password is '0000'.
- **Feature Change:** Updated 7CH Stereo DSP mode's center back channel outputs from mono to stereo (requires EPROM flash for this update. If you do not use 7CH stereo this EPROM flash is not required for further updates.)
- **Feature Change:** Dolby Pro Logic II Emulation is now called Dolby Pro Logic.
- **Feature Change:** Added Factory Default confirmation screen to the OSD.
- **Bug Fix (Minor):** Corrected a bug causing no Center Back 2 output when in DSP Music modes 1-4.

## V2.12 to V2.13

April 13, 2004

- **New Feature:** Added the option to turn off the TFT display. This is done by either accessing the DISPLAY OPTIONS menu or pressing the Display button on the front panel and changing the OSD OUTPUT setting to Monitor Only.
- **Feature Change:** Changed the default surround mode method to remember the last used surround mode by disc type - i.e. separate default modes now available for Dolby Digital and DTS. The exceptions to this are auto-detected surround modes such as DD EX and DTS ES discs.

## V2.11 to V2.12

March 29, 2004

- **Bug Fix (Minor):** Corrected a bug causing no Center Back output with Dolby Digital sources.

## V2.10 to V2.11

February 5, 2004

- **Feature Change:** Improved 12 volt trigger assignment to allow fully independent 12V operation with both main and second zones. Refer to the corresponding Technical Update for more details on this.
- **Feature Change:** Input commands from the rear panel Zone Rem In IR input will no longer power up Zone 2. The Power On or Power Toggle IR command must be used.
- **Bug Fix (Minor):** Level adjustment of Pro Logic IIX center back level.

## V2.00 to V2.10

December 29, 2003

- **New Feature:** Added Dolby Pro Logic IIX.
- **New Feature:** New commands for RS232 control added for discrete main and second zone volume and source selection.
- **Feature Change:** Changed contour setting to make any contour adjustments made via the Tone button on the remote a temporary adjustment. Permanent contour adjustments can be made via the Contour menu on the OSD.
- **Feature Change:** Changed the menu display for Dolby Digital 2Ch per Dolby:
  - DD2CH with PLII now displays as "Dolby D + PLII C/M/E"
  - Dolby 3 Stereo to "Dolby D + 3 Stereo"
- **Bug Fix (Minor):** Adjusted Center Back levels for DTS ES Matrix surround mode.
- **Bug Fix (Minor):** Corrected a bug causing no Center Back channel output when in DTS ES Discrete mode.
- **Bug Fix (Minor):** Improved decoding of Dolby Digital mono soundtracks.
- **Bug Fix (Minor):** Corrected some terms for the Italian and German languages.

## Version 3 Software

*TFT display change required updated display driver software. Units running version 1 or 2 software cannot utilize version 3 software.*

### V3.22 to V3.23

April 7, 2009

- **Bug Fix (Critical):** Fixed a bug that would cause the 'Progressive' setting to revert to 'No' when AC power was removed and the 'Progressive' setting was set to either 'Yes ALL', 'V2+V3' or any setting after 'V2+V3'.

### V3.21 to V3.22

October 7, 2008

- **Feature Change:** Adjusted the behavior of the high pass and low pass filters in the Sub Setup and Advanced Speaker Setup menus. Adjusting the subwoofer low pass crossover frequency on the Sub Setup menu will now automatically set the corresponding high pass frequencies on for all of the Small speakers in the system. Previously, the high pass frequency had to be manually set for each speaker in the Advanced Speaker Setup menu.

### V3.20 to V3.21

October 15, 2007

- **Feature Change:** Adjusted remote volume speed ramping. The ramp speed is not as fast as previous versions.

### V3.18 to V3.20

August 20, 2007

- **Bug Fix (Critical):** Improved memory backup software to resolve units losing memory when exposed to low AC line voltage (example: during power outages).

### V3.17 to V3.18

October 27, 2005

- **Bug Fix (Minor):** Fixed a bug that caused audio dropouts from digital sources when controlling volume via RS232.

### V3.16 to V3.17

September 6, 2005

- **New Feature:** Added support for PCM stereo 176.4kHz and 192kHz signals. When decoding these formats, tone control and group delay settings cannot be used.
- **Feature Change:** Added Pro Logic icon for 6.1/7.1 Dolby modes.
- **Bug Fix (Minor):** Improved memory backup software.

### V3.15 to V3.16

May 12, 2005

- **Bug Fix (Minor):** Corrected an error that would allow Zone 2 to be turned on by selecting an Input when the main zone is in standby.

### V3.14 to V3.15

March 8, 2005

- **Bug Fix (Critical):** Corrected an error in V2.17 which caused very low center channel output when switching between Dolby Digital 5.1 to Dolby Digital 2.0 / Pro Logic II mode.

## V3.13 to V3.14

February 28, 2005

- **Feature Change:** Adjusted the sensitivity of the Function knob.
- **Bug Fix (Critical):** Fixed an intermittent problem of units locking into "Standby" mode until the rear panel power toggle was engaged.
- **Bug Fix (Critical):** Improved digital input sensing and format detection. This improvement fixes problems with no audio when changing channels with some Scientific Atlanta HD digital cable boxes.

## V3.12 to V3.13

November 29, 2004

- **Feature Change:** Added support for new video upconversion PCB.

## V3.11 to V3.12

November 4, 2004

- **New Feature:** Added RS232 support for RVE-1060 to allow automatic switching of RVE-1060 inputs.
- **Feature Change:** RS232 Zone 2 input commands will now power up Zone 2 if the zone is off.

## V3.10 to V3.11

October 11, 2004

- **New Feature:** Added Dolby Pro Logic II Game mode.
- **New Feature:** Improved volume speed in both main Zone and Zone 2 via remote control.
- **New Feature:** Added User Default Password feature. **NOTE:** The default password is '0000'.
- **Feature Change:** Updated 7CH Stereo DSP mode's center back channel outputs from mono to stereo (requires EPROM flash for this update. If you do not use 7CH stereo this EPROM flash is not required for further updates.)
- **Feature Change:** Dolby Pro Logic II Emulation is now called Dolby Pro Logic.
- **Feature Change:** Added Factory Default confirmation screen to the OSD.
- **Bug Fix (Minor):** Corrected a bug causing no Center Back 2 output when in DSP Music modes 1-4.

## Version 4 Software

*TFT display and volume encoder change required updated display driver and volume encoder software. Units running version 1, 2 or 3 software cannot utilize version 4 software.*

### V4.22 to V4.23

April 7, 2009

- **Bug Fix (Critical):** Fixed a bug that would cause the 'Progressive' setting to revert to 'No' when AC power was removed and the 'Progressive' setting was set to either 'Yes ALL', 'V2+V3' or any setting after 'V2+V3'.

### V4.21 to V4.22

October 7, 2008

- **Feature Change:** Adjusted the behavior of the high pass and low pass filters in the Sub Setup and Advanced Speaker Setup menus. Adjusting the subwoofer low pass crossover frequency on the Sub Setup menu will now automatically set the corresponding high pass frequencies on for all of the Small speakers in the system. Previously, the high pass frequency had to be manually set for each speaker in the Advanced Speaker Setup menu.

### V4.20 to V4.21

October 15, 2007

- **Feature Change:** Adjusted remote volume speed ramping. The ramp speed is not as fast as previous versions.

### V4.18 to V4.20

August 20, 2007

- **Bug Fix (Critical):** Improved memory backup software to resolve units losing memory when exposed to low AC line voltage (example: during power outages).

### V4.17 to V4.18

October 27, 2005

- **Bug Fix (Minor):** Fixed a bug that caused audio dropouts from digital sources when controlling volume via RS232.

### V4.16 to V4.17

September 6, 2005

- **New Feature:** Added support for PCM stereo 176.4kHz and 192kHz signals. When decoding these formats, tone control and group delay settings cannot be used.
- **Feature Change:** Added Pro Logic icon for 6.1/7.1 Dolby modes.
- **Bug Fix (Minor):** Improved memory backup software.

### V4.15 to V4.16

May 12, 2005

- **Bug Fix (Minor):** Corrected an error that would allow Zone 2 to be turned on by selecting an Input when the main zone is in standby.

### V4.14 to V4.15

March 8, 2005

- **Bug Fix (Critical):** Corrected an error in V2.17 which caused very low center channel output when switching between Dolby Digital 5.1 to Dolby Digital 2.0 / Pro Logic II mode.

## V4.13 to V4.14

February 28, 2005

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- **Feature Change:** Adjusted the sensitivity of the Function knob.
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## V4.11 to V4.12

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- **New Feature:** Added RS232 support for RVE-1060 to allow automatic switching of RVE-1060 inputs.
- **Feature Change:** RS232 Zone 2 input commands will now power up Zone 2 if the zone is off.

## V4.10 to V4.11

October 13, 2004

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- **Bug Fix (Minor):** Corrected a bug causing no Center Back 2 output when in DSP Music modes 1-4.