

Do I need this update?

AMP2-16V

General Notes:

When the Wohler Update Manager is used, presets in the unit will be translated automatically inside the unit to work with the latest software. Once the update is complete, you may wish to back up the translated presets to your PC by following the instructions in the Wohler Update Manager Manual.

The AMP2-16V manual included with this update explains features developed as of Version 7.35 of the unit's application software. The manual can be accessed by pressing the "Manual" button in the Wohler Update Manager. This manual is also available on the Wohler website.

If you have any questions about the use of the Wohler Update Manager please review the Wohler Update Manager Manual included with this package, or consult with Wohler Technical Support. Any instructions in this document supersede the instructions in any manual, or instructions in previous "readme" files.

If your unit reports an Application Version that is earlier than Version 2.0, or reports the CPLD version as "N/A", please contact the factory before attempting to update the unit. If you wish to upgrade such a unit, it will **first** need to be returned to the factory for some minor hardware modifications.

If you are installing an AVB card kit, **PLEASE** update the software in the unit before installing the card.

Version 7.37 (Update Package M)

- Change LCD screen saver to bouncing W.

Version 7.36 (Update Package L)

- Added limited support for surround programs containing more than 8 channels.
- Manual Update.

Version 7.35 (Update Package K)

- Added support for Ravenna.

Version 7.30 (Update Package J)

- Fixed update manager not recognizing Cat. 552 Dolby Decoder.

Version 7.30 (Update Package H)

- Restored center/surround parameter.
- Restored ability to update Dolby decoders using the Update Manager.
- Decreased Cat. 1100 relock time.

Version 7.25 (Update Package G)

- Added support for Cat. 1100 Dolby Decoder
- Automatic Center/Surround parameter configuration from Dolby metadata is temporarily disabled.
- Ability to update Cat. 552 or Cat. 1100 card using the Update Manager is temporarily disabled.

Version 7.18 (Update Package F)

- Added support for Dante Networking

Version 7.11 (Update Package E)

- Added support for 919313 Rev. D SDI card in OLED units

Version 7.09 (Update Package D)

- Added support for AVB Card.

Version 7.06 (Update Package C)

- Corrected bug where LCD video screen would freeze on very rare occasion with upstream SDI switches.
- Added support for revision to Class D amplifier PCB.

Version 7.02 (Update Package B)

- Corrected bug where unit would restart if too many preset recall hot keys were pressed in quick succession, or if user entered and exited loudness or Dolby zoom screens in quick succession.
- Corrected bug where a selectable preset recall hot key was used to recall Preset #1, and Preset #1 was already present, the cluster selection would not be reset.
- Corrected bug where entering help menu or screen saver on OLED units would cause subsequent hot key preset recalls to fail to reset the cluster selection.

Version 7.00 (Update Package A)

- Added comprehensive loudness monitoring screen.
- Added support for AutoIP
- Fixed intermittent glitches in the monitored video.
- Made Wohler Update Manager UAC compliant. The installation directory for all the support files is now: "C:\Wohler\AMP2-16V\User" instead of "C:\Program Files (x86)\Wohler\Wohler Update Manager AMP2-16V"

Version 6.20

- Dolby decoder firmware update to 2.1.2.9
- Improved graphics display software reliability.

Version 6.02:

- Added new code in the SDI de-embedder to deal with extraneous ancillary data bits created by upstream equipment.

Version 6.00:

- Support for new high-resolution LCD screen.
- Bitstream detection now uses PA header detection in addition to non-audio channel status bit in the SDI cards.

Version 5.21a:

- New Dolby Decoder firmware addresses the following issues:
 - Decoder no longer puts out distorted audio when receiving signals with intermittent errors.
 - Aux downmix levels have been corrected for Dolby E signals with multiple programs.
 - Corrected an issue where the Left channel of each output pair could distort when Dolby E streams were switched incorrectly.
 - Dolby E decode latency reduced to be within one video frame.

Version 5.21:

- Bug Fix: When the user cancelled out of any "Free Mix" screen that was not referring to an SDI card, the Hot Keys would get erased. A save/exit out of a Free Mix screen would not produce this error. This bug has now been fixed.

Version 5.20:

- Select Hot Keys will now automatically change to Dolby Zoom hot keys for units with Dolby decoders installed, and for pairs with encoded bitstreams.
- SDI Re-embedding has been added. You may now re-embed any pair into the SDI reclocked output stream.
- SDI Re-embedded outputs and AES outputs will now optionally pass Dolby-encoded bitstreams. The selection for this option is located in the Audio Processor Card Menu. By default, Dolby bitstreams will still be blocked on these outputs.
- Known Bug: If the user has low signal input in the main screen, or if the user has any metering showing in the Dolby Zoom Screen, and the audio source is removed, some bright orange lines will be left at the bottom of the screen.

Version 5.00:

- New Feature: A new Automation Configuration Menu and hot key have been added. They allow the unit to automatically recall presets based on a number of conditions.
- New Feature: The unit can now set the center and surround downmix levels based either on Dolby metadata or SMPTE 2020 metadata.
- New Feature: You can now change the IP setup information in the Unit Information Screen.
- New Feature: Updates may now be handled with the Wohler Update Manager software. New screens have been added to show the status of the updates as they progress.
- New Feature: The Cluster Configuration Screen now has an "AutoSet" button, which automatically names and arranges the clusters based on the output selections in the Monitor Configuration Menu.
- Operation Change: The descriptions of the SMPTE 337 PA headers in the Status window have changed. Instead of "S337", they now contain "Dolby."
- Increased FPGA reboot timeout from one second to two seconds.

Version 4.00:

- Arbitrary phase measurements may now be set between non-adjacent channels.
- The two main screens are now configurable. They may be set to contain meters, metadata, or status information. A variety of hot keys have been added to switch the displays during normal operation.

- A downmix hot key has been added. This allows you to create an LtRt, LoRo, or mono downmix from a multi-channel source.
- New Feature: The system clock may now be changed on a per-preset basis. This means the clock source should be checked for **each preset**.
- New Feature: The system clock can be set to automatically follow the video input selection. This setting is designed to minimize glitches in the audio when an incoming SDI stream is switched upstream of the AMP2-16V inputs, and is now the default. If no SDI video input is available for a given preset, or if the inputs in the preset are not clocked to the video source, **a different setting should be used**.
- New Feature: The ref input is now available as a clock source.
- New Feature: The unit may now be named in the Unit Information Window. This will help identify a particular unit when it is connected with many others on the same network.
- New Feature: CRC errors detected by the Dolby Decoder are now reported on the main screen when the decoder is active.
- New Dolby Firmware 2.1.2.6 addresses some decoding problems with improperly edited files and crash switches.
- Bug Fix: For metadata status reporting from the Dolby Decoder, the Dolby E Program Configuration will no longer intermittently switch from anything else to 5.1+2 and back.
- Operational Change: Removed obsolete RfModulationProtection metadata item from the Dolby Zoom screen.
- Operational Change: In the Preset Management Menu, the "Save Current Config" will default to the preset last recalled.
- Operational Change: Added a rotational limiter to all the encoders. If any encoder is not turned for more than 100 ms, the encoder travel is limited to +/- 1 click on the next turn. This will help keep the menus from skipping around erratically due to increased switching noise in the encoders as they age and begin to wear. "Spins" of the encoders are still accommodated.
- Bug Fix: System no longer reboots if the you use the vertical selection knob in the Labeling Menu to access the <SPACE> character, and then go back up.
- Bug Fix: The 3G SDI card no longer inserts an incorrect SMPTE 352 packet, which will cause issues with some downstream equipment.
- Note: For the video format in the status screen, the unit cannot detect the difference between some progressively-scanned-frame and interlaced formats (specifically 1080 psf 23.98 and 24). The only way to detect this would be to depend on metadata that upstream equipment may or may not be embedding into the SDI stream.

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