



## Grimm Audio MU1 firmware change log

### v1.2.17

#### Bugfixes

1. Fixed bug in correctly setting the LS1 digital input.
2. Fixed bug that caused support mode to malfunction on some units.

### v1.2.14

#### New features

1. Grimm LS1 detection, disables LS1 inputs when no LS1 is connected.
2. Volume control can be enabled and disabled for both AES digital outputs.
3. DoP option for AES digital outputs.
4. Up- and downsampling to 2FS option.
5. Extra USB disk formats supported: exFAT, HFS and HFS+.
6. LED power brightness can be adjusted.

#### Improvements

1. Major changes to the control system:
  - Smoother operation.
  - Less crashes.
  - Improved display rendering speed.
  - Added sub-pixel rendering for higher quality images.
  - Several bugfixes.
  - Improved debugging of the system.
2. Update download speed improved.

#### Bugfixes

1. Fixed bug that could cause unresponsive MU1 after operating for a long time.
2. Fixed bug that caused erroneous pixels in display.
3. Fixed bug that caused Roon extension to disappear.

### v1.1.2

#### Bugfixes

1. Jumping volume bug fixed
2. Irregular audio mute and power led blinking bug fixed.

# v1.1

## New features

1. DXD support.
2. DSD128 support.
3. DSD256 support.
4. Stand-by functional.
5. Volume control on digital output 2.
6. Support mode added.
7. Roon database and logs available through the network (more information in the manual).
8. Mute during clock switch.
9. Current and to be installed software version will be shown in the update menu [4/5].

## Improvements

1. Major Roon Extension improvements, it is stable with multiple endpoints now. (Requires re-enabling the extension).
2. Display renderer improvements.
3. Power LED brightness reduced.
4. Internal control software upgrade.
5. Display refresh rate upgrade.
6. Shutdown animation added.
7. Internal update improvements.

## Bugfixes

1. Playback speed bug after offering 176.4/192kHz sample rates on digital input fixed.
2. USB mounter fixed: USB devices do not need to be unplugged and re-plugged after reboot anymore.
3. MU1 to second MU1 playback fixed when more than 1 MU1 is present in the network.
4. Date & time bug fixed. Caused Qobuz to sometimes fail playback.
5. User setting bug fixed.

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