

Installing new firmware to your Realiser A16

Rev 2.05 Oct 20, 2021

Updating your A16 with rev 2.05 June 20, 2021 is only necessary if your A16's current firmware is older. The current revision of your firmware is found in SETTINGS>UPDATES/ABOUT as described below in step 5. If an update is required, please begin with **STEP 1**. This update corresponds to Realiser A16 User Manual v2.0 20 Oct 2021.

Issues fixed with this update

(All hardware variants)

1. Several users have reported the occasional presence of low-level distortion during headphone listening particularly for sound rooms that comprised user measured PRIRs. The problem was traced to a function within the playback software that was not being properly initialised, and which resulted in the intermittent corruption of the late reverberation portions of the sound field. This problem has been fixed.

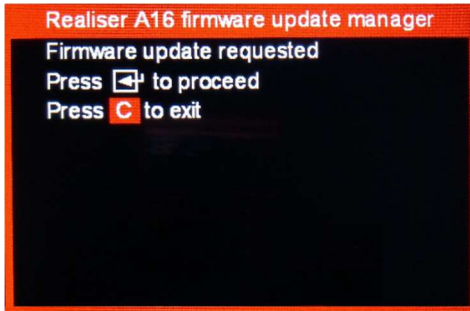
A16 Firmware update procedure

(All hardware variants)

STEP 1. The new firmware for the Realiser A16 is uploaded through the micro-SD card slot on the front panel. First, obtain a micro-SD card (commonly 16GB or 32GB) and ensure it is formatted as FAT32. Second, create a 'realiser' folder in the root directory and copy the firmware file FIRMA001.SVS into the realiser folder. Insert this micro-SD card into the slot on the front of your A16.

STEP 2. Power up the A16 ensuring the power indicator LED is steady green. You can power it up using the remote control or by momentarily depressing either User A or User B volume knobs. Now turn off the A16 by pushing in and holding in the User A volume knob for at least 3 seconds. The LCD screen will switch off and the power indicator LED will turn red. Release the User A volume knob.

STEP 3. Push in and hold in the User B volume knob and, simultaneously, push in and release the User A volume knob. Then release the User B volume knob. The action of holding in B and depressing A activates the firmware update manager as shown below. The power indicator LED will also be blinking green.



STEP 4. Using the remote control, press the ENTER key twice to begin the firmware update. The A16 will enter a long period (30-45 minutes) of authenticating the software, loading and rebooting. When the unit first reboots it will begin updating the firmware for the individual hardware modules. Once the firmware modules have been reprogrammed the unit will reboot using the normal power-up sequence to the Speaker Map display for User A.

STEP 5. To confirm the firmware update was a success please check the revision numbers displayed in UPDATES/ABOUT accessed via the SETTINGS page.



Confirm the A16 firmware revision is 2.05 Oct 20 2021 and the FPGA firmware revision is 0.65 Oct 15 2020. For APM110 hardware variants the APM firmware revision will show APM 111 v245, Fe and the HDMI firmware revision will show v74.50.38. For APM89L hardware variants the APM firmware revision will show V2.2.5 8901 Jul.

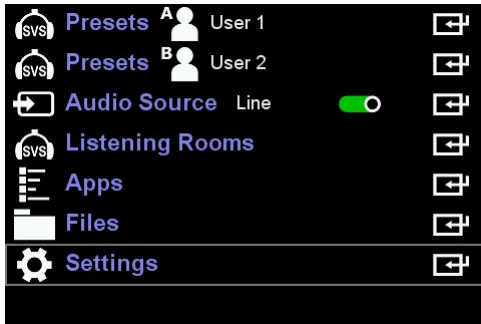


Updates/About page APM89L variant

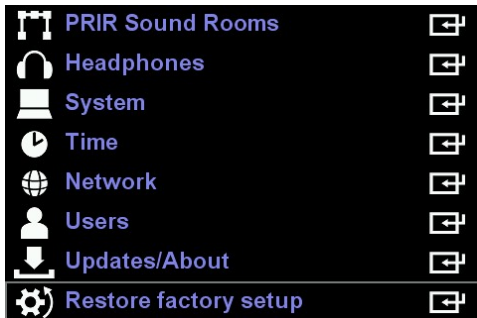


Updates/About page APM110 variant

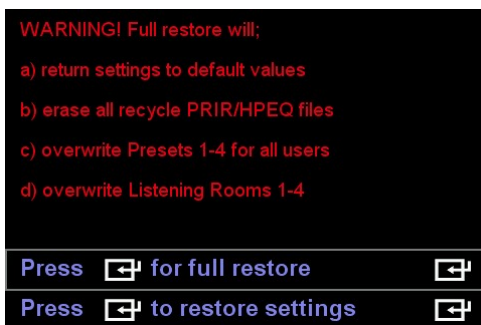
STEP 6. The firmware update is now complete. A full restore must be run to properly initialize new menu and Preset features First press BACK and then navigate to 'Settings' and press ENTER.



Then navigate to 'Restore factory setup' and press ENTER again.



Select 'full restore' and press Enter again.



The full restore will take approximately 15 minutes to complete, thereafter the A16 will automatically return to the User A Speaker Map display.

Imminent A16 Features (all hardware variants)

- 1) Extend ASYNC PRIR measurements to 24 channels
- 2) Extend OH key group to 10 overhead/height speakers

New A16 Features in Development (all hardware variants)

- 1) Auro3D certification
- 2) Vertical Headtracking mode

- 3) Low delay gaming mode
- 4) Extend optical stabilisation mode to User B head tracking

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