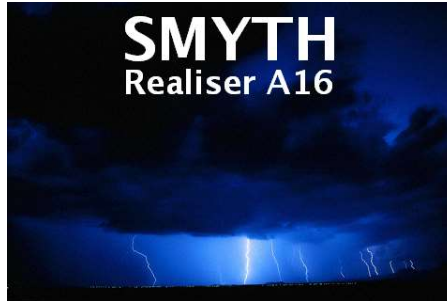


Installing new firmware to your Realiser A16

Rev 2.11 May 04, 2022



Updating your A16 with rev 2.11 May 04, 2022, is only necessary if your A16's 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 firmware update has been released primarily to fix a 24-ch Preset loading issue that leaves the audio muted.

Issues fixed with this update

(APM110 hardware)

1. When loading User A Presets in 24-ch mode the audio decoder would begin with the audio muted and required the user to interrupt the HDMI/eARC stream in order to release the mute. This has been fixed.
2. When switching between 16-ch and 24-ch modes while receiving PCM over HDMI or eARC, the sampling rate of the decoder was erroneously set causing the audio to distort. This has been fixed.

(All hardware variants)

1. When in HDMI stand-by mode the LCD backlight is now switched off.
2. The playback of 5.0 PCM over HDMI and eARC is now functional.

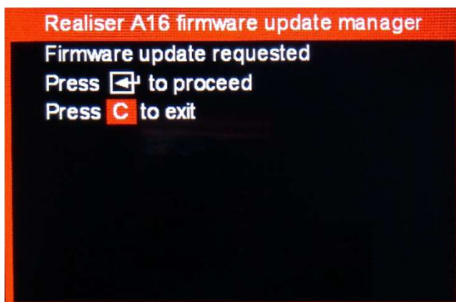
A16 Firmware update procedure

(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 16 GB) 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 A16 revision number displayed in UPDATES/ABOUT accessed via the SETTINGS page.



Confirm the A16 firmware rev is 2.11 May 04 2022. The other revision numbers shown in this example may be different to what you see on your screen.

STEP 6. The firmware update is now complete. Provided you have installed rev 2.10 previously (and completed a full-factory-restore), no factory restore is required for rev 2.11. Note however that the Initial Vol values (described below) will all be set to zero and these should be programmed before enabling the Initial Vol feature.

New features (All hardware variants)

1. Initial volume on Preset load

The Reference Level Management menu within each preset now includes the option to set the initial volume on loading that preset. Any preset that was in use prior to power-down will have this initial volume reinstated on power-up if Initial Vol option is enabled. The initial volume uses the regular VOL units 21-99. Initial Vol will not exceed the Maximum Vol in the audio settings menu regardless of the Vol value entered in the reference level management menu.

Room Reference Levels					
Atmos Ref	<input type="checkbox"/>	Ref SPL	85	Vol	68
DTS Ref	<input type="checkbox"/>	Ref SPL	85	Vol	68
PCM Ref	<input type="checkbox"/>	Ref SPL	85	Vol	68
Auro Ref	<input type="checkbox"/>	Ref SPL	84	Vol	68
Tri-Ref	<input type="checkbox"/>	Ref 2	-6	Ref 3	6
Initial Vol	<input checked="" type="checkbox"/>		69		

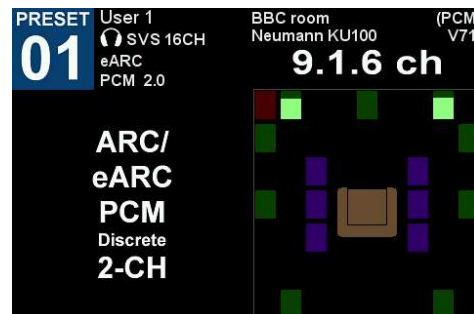
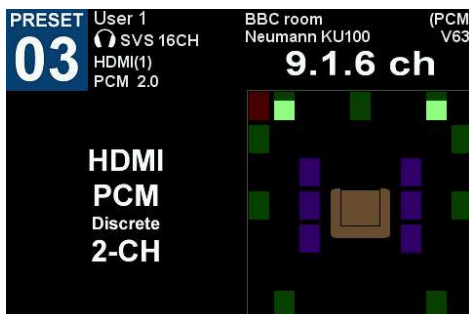
In 24-ch mode the installed volume is always 6dB below Initial Vol specified in the User A preset. Moreover, if any reference level (Atmos, DTS, PCM or Auro) is enabled then the user must back calculate the initial reference volume level by comparing Initial Vol against the Ref Vol value. For example, in the screen shown above the Initial Vol of 69 is 1dB higher than the Atmos Ref Vol of 68. Hence if Atmos Ref is enabled along with Initial Vol, then the Preset volume will initially show a reference volume of 86 on loading an Atmos listening room. When Initial Vol is enabled Tri-ref is disabled, and visa-versa.

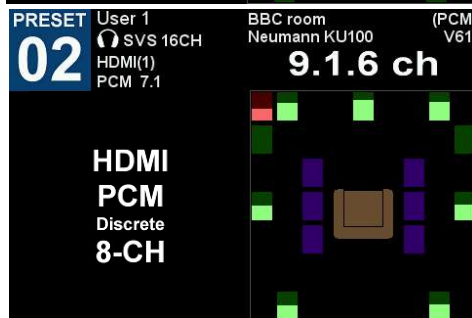
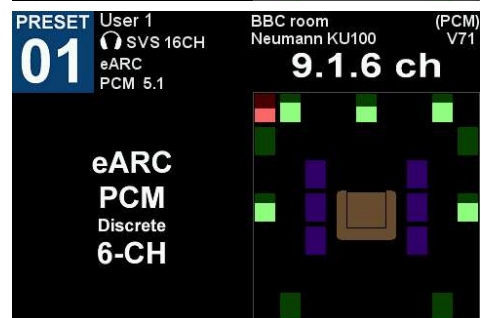
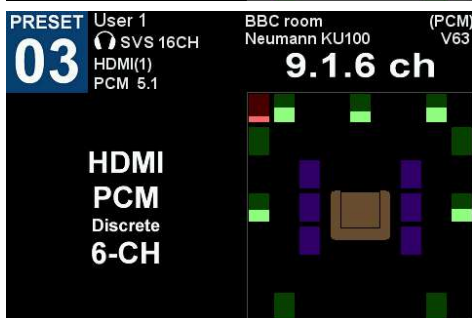
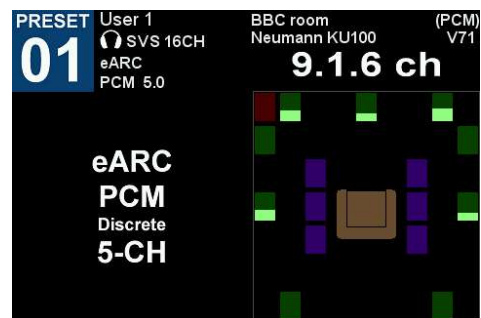
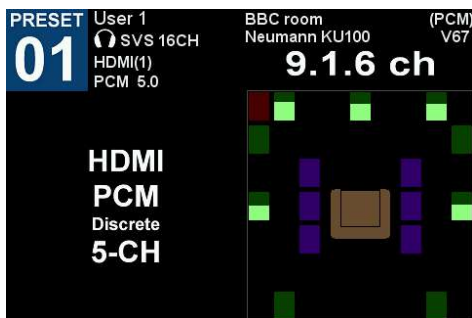
Note: The initial vol simply overwrites the listening vol on loading the preset. If the limiter (Audio settings) is also enabled, then this listening volume may be reduced almost immediately by the system if audio clipping occurs during/following the loading of the Preset.

Improvements (All hardware variants)

1. PCM over HDMI

The handling of PCM over HDMI and eARC has been upgraded to include the popular 5.0 DSD surround format. Moreover, the HDMI and eARC PCM displays have been expanded to distinguish between the reception of 2, 5, 6 and 8ch PCM audio.





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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