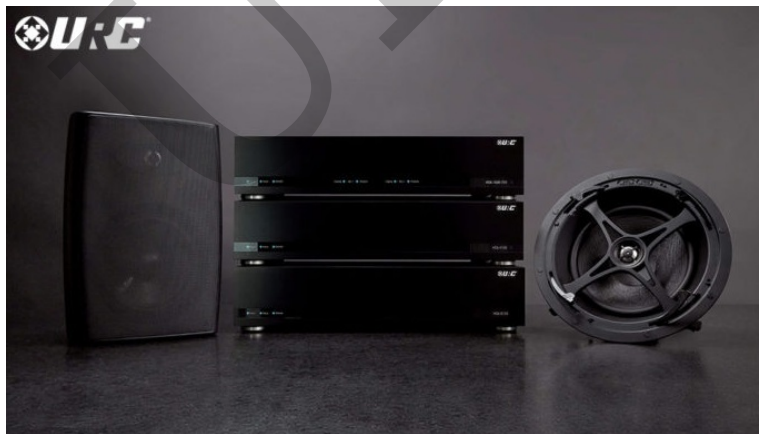# HDA Fan Speed & Fan Noise Level

URC HDA devices and software provide countless options to configure and optimize audio settings to achieve performance and flexibility for almost any application.

The following article details the **HDA-8100, HDA-4100 and HDA-1600** Fan Idle Speed update using firmware version 1403 (and later). This update reduces the idle fan speed and reduces the apparent noise levels of the HDA devices.

HDA-8100, HDA-4100 and HDA-1600 Fan Idle Speed Adjustment

- The internal fan of the HDA-1600, 4100, and 8100 is required for proper cooling of the amplifier channels.

- With HDA Firmware version 1403 (and later), the idle speed of the internal fan of the HDA-1600, 4100 and 8100 is lowered, decreasing the audible fan noise by about 10dB.

- A 10dB reduction has a **50% reduction** in the perceived volume and sounds **half as loud** to the human ear.

Additional Information & Resources:

To learn more about HDA products and programming, please see the HDA Programmers Guide or the Accelerator 3 online Programming Guide.