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## v2.12 Software Upgrade Changes ([For v2.10 Features/Changes Click Here](#)).

Software version v2.12 incorporates a number of changes to the AVM 20 operating system as outlined below.

### INPUT / OUTPUT CHANGES

- THX required change: When Ultra2 Subwoofer is 'Yes' in submenu 2h., Bass Peak Level Manager is disabled.
- Eliminated loss of level trim / balance settings and disabling of tone controls due to THX being turned on during bitstream change (eg PCM to AC3 due to chapter change on DVD). Settings now lost only if a new source is selected with THX turned on whereas the previous source had THX off, or when THX is turned on manually. (Trims and tone controls resetting to zero is a requirement whenever THX is activated.)
- When in simulcast mode, triggers followed audio source conditions only, which may be incompatible with some installations where trigger conditions are set according to source - triggers now activate if either the audio or video source has them turned on in setup menus.
- Adjusted muting time and related factors during bitstream change to prevent chopping off of track beginning and, as much as possible, popping due to format transition. Thanks to all involved. This sort of problem is inherent with multiple format detection (PCM/AC3/DTS/MPEG/etc and all variations including DTS-CD), and normally results in a tradeoff between presence of popping vs losing beginning of track, further complicated by pause/skip/scan modes and lack of operational standards within.
- Changed the way audio group delay is adjusted in presets submenu - now allows faster changes by giving access to individual digits (with remote control, press Select after highlighting appropriate line in submenu of menu 5, then use the East/West keys to move from digit to digit and North/South keys to change digit).
- Added back door for group delay adjustment to allow on the fly changes during regular operation - press and hold Display on remote control, then adjust using navigation keys as above.
- Extensive additions and some changes to RS232 commands and echoes - documented with new RS232 command list download available in [AVM 20/Custom Installation](#)

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