

Live Performance Update for SR-112/TCG

Firmware 4.00 introduces a new mode designed specifically for live shows with 2 main objectives:

1. Guarantee a continuous stream of ascending and consecutive time code addresses (no skipped frame, no duplicated frame, no drop-out)
2. Automatically re-jam to input time code when jumping to the beginning of the show or to a new cue.

MENUS 20: SHOW REPAIR MODE



An option was added to the 'Repair Mode' menu, called 'SHOW' that works as follows:

1. **Input TC starts:** The generator is jammed as in standard JAM mode. From that point the generator output increments continuously, and no frames will be duplicated or skipped (which is the key to this mode).
2. **Input TC dropout:** The generator continues to increment at last known rate. Equivalent to JAM with infinite flywheel (the Flywheel setting is forced to 'Infinite' in SHOW).
3. **Input TC re-appears:** The generator continues to increment as before, but at the same time the system gradually re-aligns its output frame edge to the nearest incoming TC frame edge so that no further drift occurs. The output timecode does NOT re-jam to the input number.
If there has been considerable drift during the dropout then it is possible that *the output frame number will not end up being identical to the input TC frame number*, but this is preferable to duplicating or skipping frames.
4. **Input TC jumps to a new cue:** The generator automatically re-jams (same as step #1), as long as the input time code jumps:
 - in the direction set in menu 25, and
 - by an amount greater or equal to the minimum CUE distance set in menu 26.
 Otherwise, there will be no change in the generator output numbers, although phase may be re-aligned if it has changed (as in step #3 above).

To support the new SHOW mode, 2 new menus were added:

MENUS 25: SHOW CUE



To avoid an accidental re-jam during a live show, menu 25 lets you restrict the direction of the jump described above in 4. Options are 'Back Only', 'Forward Only', and 'Back and Forward'.

Another option is 'Off' which disables automatic re-jam altogether.

MENUS 26: SHOW CUE MINIMUM



To guarantee that re-jam only occurs on a new cue, not a slow drift, this menu lets you set a minimum distance required between the input time code and the generator time (in minutes) before a complete restart can be initiated as described in 4. above.

MANUAL RE-JAM & GENERATOR STOP

If necessary, it is possible to manually re-jam by holding the [GEN RUN] button for 2 seconds or more. When the input time code has stopped, it is also the way to stop the generator.