



MILKY WAY FIRMWARE UPDATE

n°	Airways • - <i>blinking</i> (ambient fx bank)	Darkwaves • - <i>blinking</i> (drum fx bank)
1	● ● ● ● hall reverb	● ● ● ● gated reverb
2	● ● ● ● shimmer reverb	● ● ● ● spring reverb
3	● ● ● ● room reverb	● ● ● ● reverse reverb *
4	● ● ● ● plate reverb	● ● ● ● flanger
5	● ● ● ● spring reverb	● ● ● ● ring modulator
6	● ● ● ● ping-pong delay	● ● ● ● overdrive **
7	● ● ● ● tape echo delay	● ● ● ● compressor **
8	● ● ● ● chorus	● ● ● ● freezer

* new effect ** fixed effects

New firmware codename '**TOTAL NIGHTMARE**' (v4.TN) introduces new reverse reverb as well as lots of small bugs fixes of 'Total Fuckng Darkness' v3 firmware. TFD firmware introduced 2 banks of 8 effects each. Short TYPE+TAP changes the banks. Long TYPE+TAP enables scanning over all 16 effects on and off [-5...0v scans over inactive bank of 8 effects, 0...+5V scans over current 8 effects].

Cabin pressure and fever CV inputs become unipolar and accept 0...+5V - so they expect an envelope, for example or output from a typical sequencer. Applying negative voltages does the same effect as positive (i.e. full rectification). In that case you can apply standard +/-5V bipolar LFO directly without offset and it will work at full range, just twice the frequency. For that purpose is way faster to adjust LFO frequency rather than add a module with offset/CV summer.

Technically is possible to upload Grand Terminal firmware into Blck_Noir or Milky Way and vice-versa however some features may not work correctly (proper LED indication, filters sequence etc.), therefore it does not make sense. Please upload the proper firmware for corresponding module so all features will work.

We continuously work on new features and improvements as well as on bug fixes. It is recommended to use the latest firmware installed to experience the latest features. It is also possible to downgrade to any earlier or custom firmware in case you like them better.

Warning – after update procedure you will lose your filters/effects tweaks stored in the memory as well as filter's volumes and panning settings will be set to default ones.

In case of finding bugs or offer improved/new functionality, please report to e-mail: beta@endorphin.es

Latest MILKY WAY manual:

<https://endorphin.es/endorphin.es--manuals.html>

IMPORTANT: to prevent the errors during the audio playback of the firmware, please use any audio editor without any effects applied (EQ etc).

MILKY WAY UPDATE VIA AUDIO

FIRMWARE UPDATE

download latest firmware/bank
when available from:
<http://airways.endorphin.es>

Power OFF your modular system:

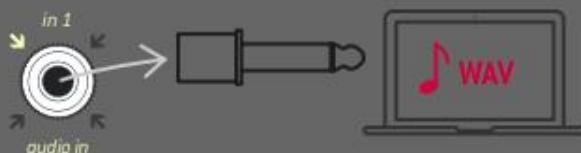


Hold 'mode' while powering your system again:



You will see status LED
will blink blue:

Connect the audio output from your computer
headphones output to one of the audio inputs
of the module with simple mono or stereo cable.



Press PLAY and wait 1.5 minutes.
The module will reboot automatically
after the new firmware was installed



Make sure you don't input any extra
sounds during update process
(reminder signals from your calendar,
etc.). When status LED flashes RED –
that means signal is too low or too high
– just reset the firmware acquire process
by pressing MODE once.

Download the latest
firmware/effects bank from
the links below. To update via
audio, power up your MILKY
WAY module during **TAP** button
hold.

Status **BLUE LED** will start to
blink as LFO (release TAP
button then). Connect
audio/headphones output from
your PC/Mac/iOS device into
AUX input of BN.

Play the audio WAV file fully all
2+ minutes. Use any file player
that does not apply audio
compression to the file. During
playback, you should observe
BLUE LED continue to blink
faster than initially - that
means acting data transfer. In
case you will obtain **RED LED**
blinking (in the beginning or in
the middle), that means you
have to reset firmware update
by pressing **TAP** and playback
the file fully again (try boost
audio level, either on PC/Mac,
either with **IN1/2 LEVEL**
trimmers on the backside).

MILKY WAY FIRMWARE DOWNLOAD:

https://airways.endorphin.es/Milky_Way_update.zip

MILKY WAY V4 'TOTAL NIGHTMARE' (20.05.2020)

- New reverse reverb effect added (#3 in default Darkwaves bank)
- Saturator added in the last sector of volume control knob. Once the knob crosses the volume after 3 o'clock the output becomes enriching with saturation
- Banks are now blinked with correct color of status LED properly as sometimes were blinked with wrong colors
- After the firmware update default settings to crossfade and panning are stored to a proper expected values
- Lowered clicks between switching the effects. Also lowered clicks** on loading compressor and overdrive. All fixes thanks to Xavier Galai

MILKY WAY V3 'TOTAL FUCKING DARKNESS' R3 (06.01.2020)

- TFD firmware R3 update introduces stage 1 of background noise fix and we work more on improving it more in the next stages.

MILKY WAY 'TOTAL FUCKING DARKNESS' R2 (10.10.2019) – initial release

- TFD firmware R2 update includes proper CABIN PRESSURE and CABIN FEVER pots curves. FEVER has linear curve with proper selection of dividers etc. PRESSURE has log curve however still as smooth as butter, but as sharp as a razor. Control and power, a la force du piolet! (additional thanks Xavier Galai for all TDF FX banks merging)