BLCK_NOIR FIRMWARE UPDATE

n°	filter	Darkwaves (default drum fx bank)	Airways (ambient fx bank)
1	Dual LP/HP State-Variable Zero-Delay Feedback Filter	• gated reverb	• hall reverb
2		•• spring reverb	•• shimmer reverb
3		••• reverse reverb *	••• room reverb
4		•••• flanger	•••• plate reverb
5		• ring modulator	• spring reverb
6		•• overdrive **	•• ping-pong delay
7		••• compressor **	••• tape echo delay
8		•••• freezer	•••• chorus

** new effect **fixed effects*

New firmware codename '**TOTAL NIGHTMARE**' (v4.TN) introduces new reverse reverb, lowering the noise level 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 GT firmware into BN 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.

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

Latest BLCK_NOIR 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).*

BLCK_NOIR UPDATE VIA AUDIO

Download latest firmware/bank for BLCK_NOIR when available at: http://airways.endorphin.es

Power OFF you modular system:

With simple mono or stereo cable connect audio output from your computer audio output to AUX IN input of the module

Hold TAP while powering your system again:

You will see all HAL 9000 LED will slowly blink green like LFO:

Press PLAY and wait 1.5 minutes. The modue will reboot automatically with new firmware installed

Don't play any drum sounds during update process. When HAL 9000 LED flashes RED - that means signal is too low or too high - just repeat the process regulating the level with AUX TRIM knob

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

HAL 9000 **GREED 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 **GREEN 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 **AUX INPUT LEVEL*** trimmer).

BLCK_NOIR FIRMWARE DOWNLOAD:

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

BLCK_NOIR V4 'TOTAL NIGHTMARE' (20.05.2020)

- New reverse reverb effect added (#3 in default Darkwaves bank)

- Noise floor lowered by introducing proper filtering and noise gate for the final mono and stereo outputs

- Banks are now blinked with correct color of status LED properly as sometimes were blinked with wrong colors

- Lowered clicks between switching the effects. Also lowered clicks on loading compressor and overdrive

- Flaps (resonance) CV input now correctly works for controlling the resonance (was working as VCA after TFD update). Thanks Jens Müller for the hint. All fixes thanks to Xavier Galai

BLCK_NOIR V3 'TOTAL FUCKING DARKNESS' R2 (10.10.2019)

- TFD firmware 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)

BLCK_NOIR V3 'TOTAL FUCKING DARKNESS' (16.05.2019) - initial release

- new 'Total Fucking Darkness' v3 (v.3.TFD) firmware that consists of two effects banks switched by short TAP+TYPE press between them (see BN manual for all effects descriptions), which becomes new and only factory bank.

BLCK_NOIR V.3 'DARKWAVES' (31.10.2018)

- new 'Darkwaves' effects bank added (see BN manual for all effects descriptions), which becomes new factory bank.

- dual LP/HP SFV filter adjusted for more smooth center state transition

- new effects indication – on module's power up, as well as on effect select with TYPE button, HAL9000 LED blinks certain amount (1-4 times) in green or red

showing current 1 to 8 effect selected. See updated manual with amount of blinks as well as the table in that document above

- by default after firmware update global effects mode is now OFF. Entering that mode by long hold TYPE press will be indicated by red and turning it off will be indicated by green single blink

- long hold TAP + TYPE for 5 seconds resets the module (soft reset)

- by long hold TYPE for 5 seconds enables alternative effect send mode: effects are enabled to the left instead to the right switch position and AUX IN is always under the effect processor

- entering secondary parameter by long hold now always blinks red and return always blinks green

BLCK_NOIR V2 'AIRWAYS' R2 (17.08.2018)

- fixed bipolar THROTTLE filter knob curve. Before its working range was too narrow in the center zone (everyone complained who tried)

- FLAPS resonance maximum range pushed to extreme values. Carefully: can cause hi-frequency self-oscillation that may damage your ears or PA)

- FLAPS CV input fixed (thanks Moritz Scharf for the find). Before, CV applied into Flaps controlled amplitude of the filter instead resonance

BLCK_NOIR V2 'AIRWAYS' (09.07.2018)

- initial test release. Factory bank with similar effects as in Grand Terminal v2 'AIRWAYS'

- EFFECT #8: FREEZER becomes bi-polar. CABIN FEVER knob in the middle manually defines the smallest granule size. Turning that knob CW will increase looped granules up to 2 seconds and turning CCW will do the same just granules will go in reverse (see BN manual for whole explanation)