Klanghelm DC8C 3



Klanghelm DC8C 3 - Manual

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Installation

Windows:

Plugins (64-bit VST, VST3, AAX)

- · download and unzip the installer from the user area
- Run DC8C3-installer.exe and follow the instructions
- If you're using a VST host, make sure, that you specify the correct VST-plugin-folder during install

Troubleshooting:

If you get an error message before or during the installation process, it is very likely due to a false positive from your active virus scanner. In this case either add DC8C3-installer.exe to your whitelist or temporarily disable the scanning during the install process.

Apple macOS:

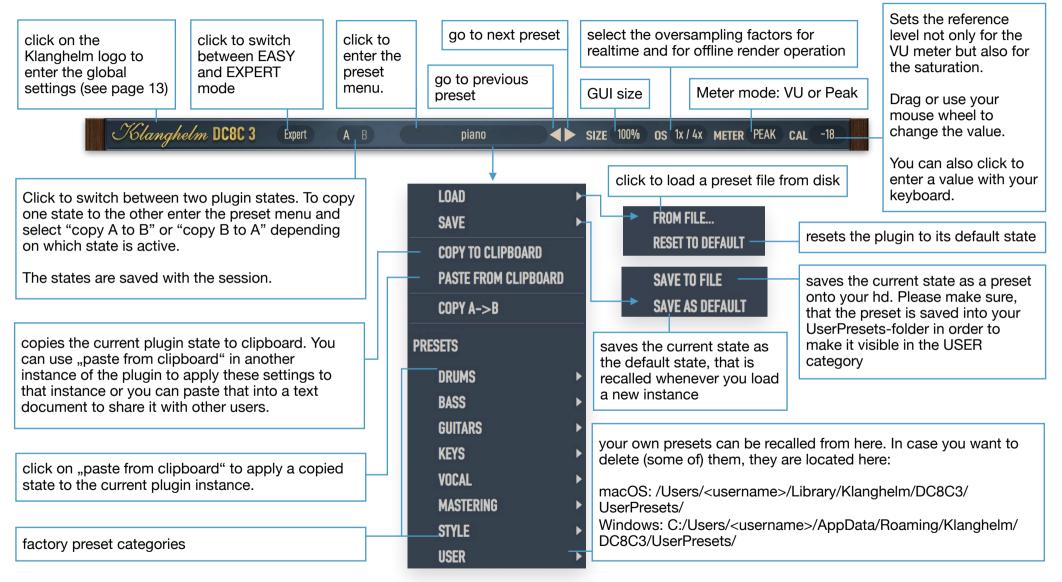
Plugins (64-bit AU, VST, VST3, AAX)

- · download and unzip the installer from the user area
- open the DC8C3.dmg, run the included DC8C3-installer.pkg and follow the instructions.

Troubleshooting:

- in case you're getting a message, that the installer can't be executed, because it is "not downloaded from the App store", do the following:
- Go to System Preferences -> Security & Privacy
- In the General Tab of the Security & Privacy window click on the lock icon in the bottom left to be able to make changes.
- select "Anywhere" in the section "Allow applications downloaded from:"
- Now install DC8C3 again.

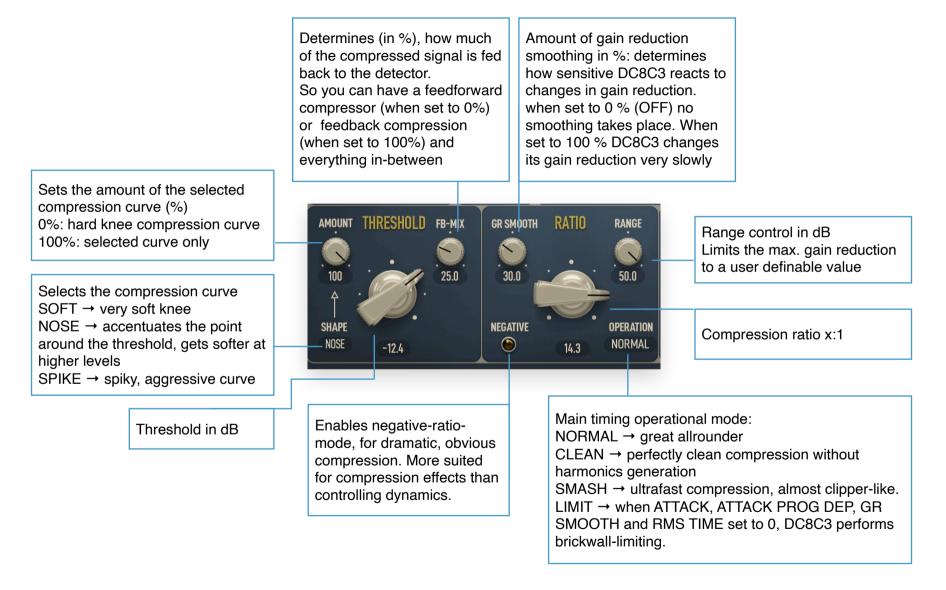
Top Bar & Preset System



Note: SIZE, OS, CAL, METER and AGC parameters are excluded in the factory presets. The DEFAULT preset include these parameters. There's an option in the global settings, whether or not the aforementioned parameters are being recalled with the user presets and A/B 4 states. See page 11

Klanghelm DC8 Upper cont		The calculated o It gets recalculated calculated output automation, since	Automatic Gain Compensation: utput level is based on the RMS-difference between input level and compressed signal. ed (and applied) each time when a gain affecting control is being changed. This is gain level is saved with the session. It is recommended to leave AGC OFF when using the it might lead to undesired results when automating.	
	Saturation: 3 states: Off: no saturation Orange: light saturation Red: heavier saturation			
Activate external side- chaining	Side-chain listen incl. filters			
side-chain-highpass cutoff frequency in Hz Switches the steepness of the side-chain high-pass filter from 6 to 12dB	HPF TILT LPF P 	SATURATION IODE AMOUNT S.8 PRE POS	LEVELS AGC DETECTOR HNPUT OUTPUT MIX 0.2 0.7 66.3 0.0 DETECTOR CH SEP RMS TIME 0.2 0.7 66.3 0.0 DC8C3 CLIP SMOTH	
side-chain-tilt in dB: If set to negative values: - bigger influence on the gain reduction by low frequencies if set to positive values:		Saturation amount Click on the	Clean input gain in dB Output/make-up gain in dB Output/make-up gain in dB	
 bigger influence on the by high frequencies 	ne gain reduction	meter to bypass the plugin	See also AGC-description smoother release characteristic. Enables a soft clipper at the output of the plugin Channel separation of the gain reduction in %	
Switches the steepness lowpass filter from 6 to side-chain-lowpass cut	12dB	Position of the saturation: pre- compression, post-compression	mix control in %: 0%: dry signal,	
L		or side chain only	100%: compressed signal 5	

Lower left controls



Lower right controls

Pre-delay of the compressor in ms,	Controls the program dependency of the At When set to negative the attack gets slowe higher the signal leve if set to positive value higher the signal leve faster the attack	ttack e values, er the el is, es the	Sets the tim ms, the compressor its gain reduction be the release kicks in	hold	Controls the program dependency of the release When set to negative values, the release gets faster the higher the gain reduction level is, if set to positive values the higher the gain reduction – the
Determines the time, before the compressor reacts to the input signal		PROG DEP HOLD	RELEASE PROG		slower the release If set to zero no release program dependency is taking place
Multiplies the currently chosen attack time by a factor of 10	0.0 · · · · · · · · · · · · · · · · · ·	22 0.0 . S-CURVE		URVE	Release time in ms
	Attack time in ms	when engaged attack curve ch from a standard logarithmic curv shaped curve, more of the tran pass	anges d ve to a s- letting	curve ch standard curve to curve, re	ed, the release anges from a I logarithmic a s-shaped esulting in a axed release

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EASY mode controls	 Click to enable Automatic Gain Comp The calculated output level is based or recalculated (and applied) each time w is saved with the session. It is recomm undesired results when automating. NOTE: When AGC is ON and you quickly m can occur when the new calculated ou When AGC is ON, you can still fine-t When AGC is ON, you can still fine-t When switching AGC off, the output level to avoid level jumps When switching AGC on, the output The output control is also being rese 	the RMS-difference betwe hen a gain affecting control ended to leave AGC OFF w nove controls, that influence tiput volume is being applie sune the output level with th ut control is set to the AGC- at control is being reset to 0	I is being changed. This calc when using automation, since the gain reduction amount, d after your control move e make-up control calculated output level plus to avoid level jumps	culated output gain level e it might lead to big output level changes
Saturation amount				
Activate external sidechaining	Inclum DC8C 3 Easy A B pia HPF SATURATION Image: Constraint of the second	no \checkmark SIZE 100% OS 2 - 0 + 2 + 3 N 2 - 0 + 2 + 3 N	1x / 4x METER VU CAL -18 JT O MIX 00 .	When lit, DC8C3 operates in dual mono configuration
Hz OFF 29	° 20K 0 ° 10 SMOOTH ○ PUNCH ○ THRESHOLD RATIO	SNAP CRUSH CLUSH 1.7	+20 DRY WET 66.3 RELEASE	mix control in %: 0%: dry signal, 100%: compressed signal
Threshold in dB .	-25.6 · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	Release time in ms
	sion ratio x:1 Select an easy mode. See page 9	Attack time in ms	output/make-up gain in dB	8

NOTE: when switching modes, the selected attack and release time don't change. However, the position of the controls might change, since each Easy mode has its own attack and release time range.

Description of the four EASY-Modes

THE FOUR EASY MODES

To get a feeling for different compression character of each style, set all controls to its default value (double click on each knob). Then lower the threshold until you get around 4-5 dB gain-reduction. Now switch through the four styles. The differences in character should be obvious now.

NOTE 1: when switching modes, the selected attack and release time don't change. However, the position of the controls might change, since each Easy mode has its own attack and release time range.

NOTE 2: As opposed to earlier versions of DC8C3 you can now switch to EXPERT mode without changing the sound. EXPERT isn't a fifth mode anymore, but just offers you more control over the compression, you've started in one of the Easy modes.

However, if you make adjustments in EXPERT mode and then switch back to EASY mode, the EASY mode is fully adapted again and overrides changes done in EXPERT mode to keep the selected EASY mode intact. Bear in mind, that the EASY mode controls function as macro controls, tweaking multiple parameters dynamically at once, e.g. the attack control can also change the amount of program decency depending on the selected EASY mode.

So if you want to do deeper tweaking by switching to EXPERT it is advised to stay in EXPERT mode.

SMOOTH

The slowest of the 4 easy modes. Invisible compression action, smooth gain riding / leveling

Suited for bus duties, vocals, strings, synth pads

SNAP

String VCA-style compression. This is the transient spitting machine. a gain reduction around -2 dB might already be enough to spice up drums.

Also suitable to emphasize the attack of guitar/bass guitar signals. Be careful with the output knob: the differences between transients and the rest of the signal can be huge.

PUNCH

Set and forget punchy, natural compression, great all-purpose, workhorse compressor. Go-to track compressor. Shines on the drum bus too.

CRUSH

The opposite to SMOOTH mode. Lots of compression artifacts (distortion). You can use it to completely destroy the dynamics and/or misuse DC8C3 as a distortion device. Very fast compression characteristics, similar to FET-style compression. CRUSH is based on the SMASH operational mode from the EXPERT view.

Tips and tricks

Please try out the presets. They should give enough starting points for your own explorations into the various compression flavors you can get out of DC8C3

DC8C3 is able to perform very clean compression even at very fast settings (In CLEAN mode) When doing massive gain reduction you should know, that from time to time transient information will pass (popping) through. You can compensate for that by increasing RELEASE and/or HOLD TIME.

When CLEAN COMP is off, you can reach true zero attack, i. e. Transients can be killed completely if desired If you want true 0.0 ms attack you should also set the RMS TIME, PRE-ATTACK and GR-SMOOTH to 0.

The LIMIT mode is not intended to replace your favorite mastering limiter. Think of it as analog style limiting. Best used in conjunction with the soft clipper at the output (click on the LED below the OUTPUT control to activate).

If you set ATTACK, PRE ATT, PROG DEP (attack) and GR SMOOTH to 0 DC8C performs brick-wall limiting.

When switching on the DETECTOR SMOOTH and THE S-RELEASE CURVE you can lower the distortion more.

Global Settings

	CREDITS	GLOBAL SETTINGS	Sets the mouse drag behavior when moving a knob on the GUI
	KLANGHELM	knob-mode vertical v mouse-drag sensitivity	Sets the mouse drag sensitivity when moving a knob on the GUI
	version: 3.3.0	high low enable tooltips	when ticked, an explanation is shown, when hovering over a control
	DSP: Tony Frenzel GUI: Tony Frenzel	Recall when switching user presets and A/B states: SIZE OS CAL AGC	Use this option to determine, whether or not the GUI Size, oversampling options, calibration setting and AGC are being recalled with AB-states and user presets
		equal OS settings for Realtime and Offline disable dynamic latency reporting	If your host doesn't support different latencies for realtime and offline processing, you can use this option to apply the realtime OS setting during offline rendering too to keep things in sync. If you want to benefit from different OS settings for realtime and offline and your host doesn't apply
Click on the hyperlink to visit the		use OpenGL GUI rendering (experimental) requires closing/reopening the GUI. Can improve GUI performance. Make sure that you have the latest OpenGL drivers installed, if you you use this option.	Interaction of the and offline processing, you need to disable the dynamic latency reporting (see below)
Klanghelm website	www.klanghelm.com	save	realtime and offline processing, you can also disable the dynamic latency reporting completely to keep things in sync. In this case the reported latency of the plugin is being set to fixed 128 samples
macOS: /Users/ Windows: C:/User 	username>/Library/Klanghel s/ <username>/AppData/Ro</username>	menu. The global settings are saved to: m/DC8C3/settings.xml aming/Klanghelm/DC8C3/settings.xml d the factory default global settings will	regardless of the OS settings. Enable OpenGL GUI rendering

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Credits

Code and GUI: Tony Frenzel

Manual: Tony Frenzel

Special thanks to the beta testers.

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AAX is a trademark of Avid, Inc.