

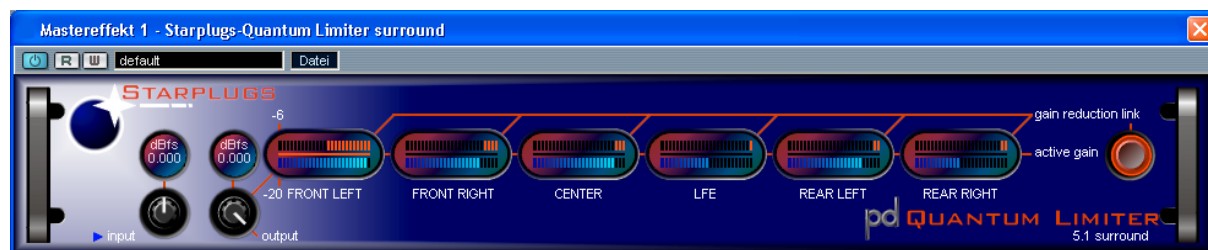


# QUANTUM LIMITER<sub>SURROUND</sub>

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## QUICKSTART OPERATION MANUAL

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# QUANTUM LIMITER

SURROUND

BY



[WWW.STARPLUGS.COM](http://WWW.STARPLUGS.COM)



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## CONTENT

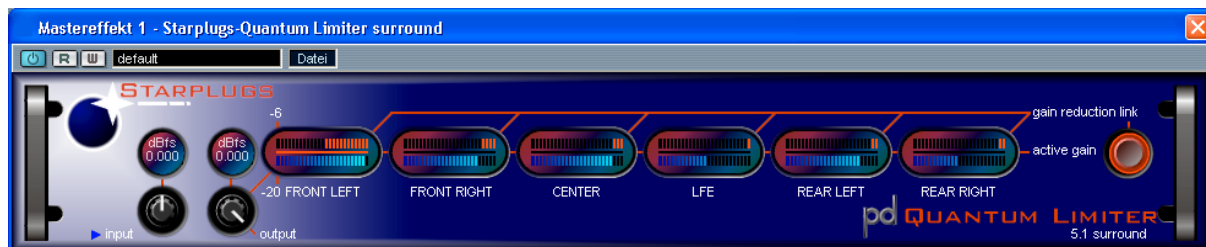
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# QUANTUM LIMITER<sub>SURROUND</sub>

## QUANTUM LIMITER FUNCTIONS



For the first time the pd quantum-algorithm<sup>®</sup> known for best filter modeling designs, sets a new standard in dynamic operations. The Starplugs-Quantum Limiter stands for **unperceptible** level-limitation of stereo tracks.

This tool leaves your mix untouched and guarantees a defined level with no distortion, no pumping, no ducking, no delay in the quantum range of up to 6 dB overload. Maximum limitation is set to more than 1000 dB.

You will appreciate the Starplugs-Quantum Limiter in all cases of real-time mixing, mastering and editing.

The pd quantum algorithm<sup>®</sup> of the Starplugs-Quantum Limiter makes all classical limiter settings unnecessary, this tool “listens” to YOUR tracks and “predicts” what will come to create the best level.

- 1 sample reaction time
- audio related attack times
- audio related release times
- audio related hold times

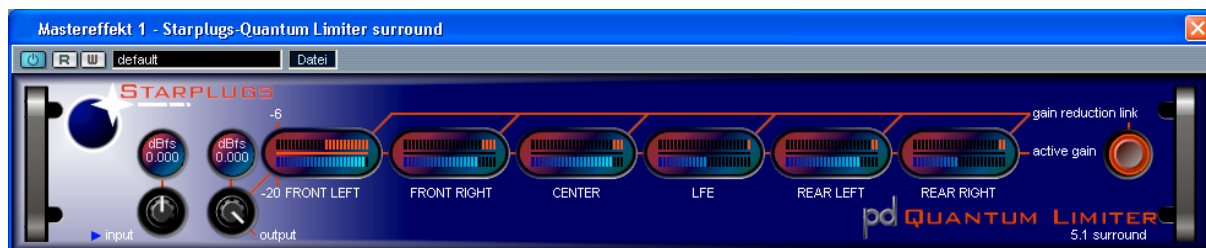
This Limiter adapts to your tracks - from rock to classic, from broadcast to video postproduction. The ultimate “LEVEL-POLICE”

+++ At the end it's YOUR SOUND that matters +++



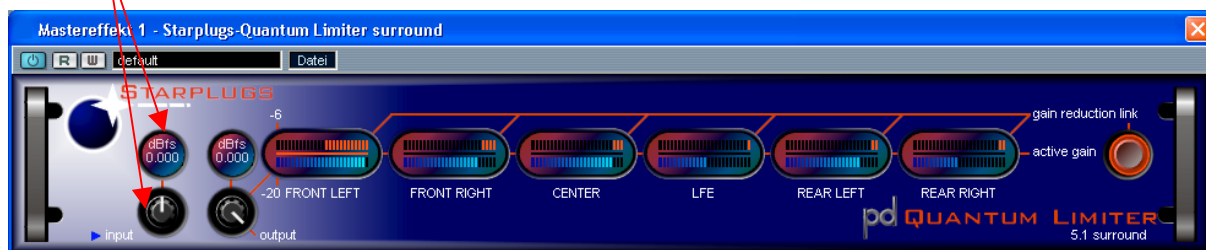
# QUANTUM LIMITER<sub>SURROUND</sub>

## QUANTUM LIMITER SETTINGS



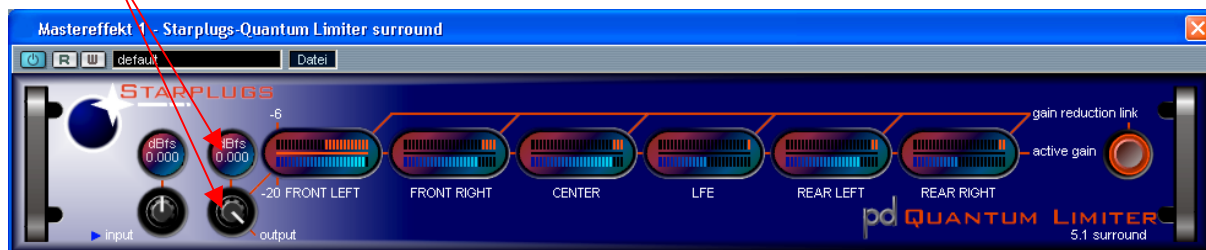
There is nothing to adjust to let the Starplugs-Quantum Limiter work best! You won't have to waste your time adjusting "threshold", "attack-times" and things other limiter "offer".

### INPUT



Set the input level with the input knob +/- 10 dB, center position (press the blue arrow) is 0 dB. The dBfs reference is displayed in the dBfs-meter above.

### OUTPUT

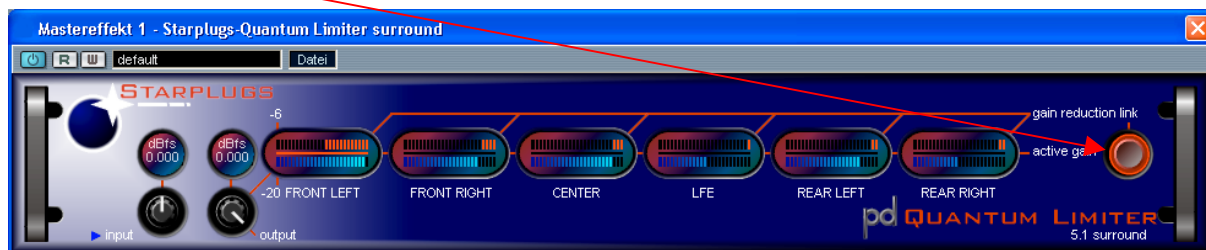


The Starplugs-Quantum Limiter limits the output to the adjusted dBfs reference. Right position correlates to 0 dBfs output level. To set lower output levels turn the output knob in the range of 0 dB to -20 dB. The dBfs reference is displayed in the dBfs-meter above.



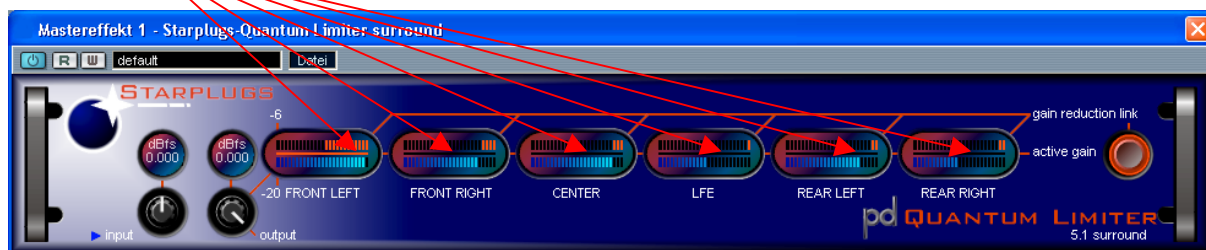
# QUANTUM LIMITER<sub>SURROUND</sub>

## LINK



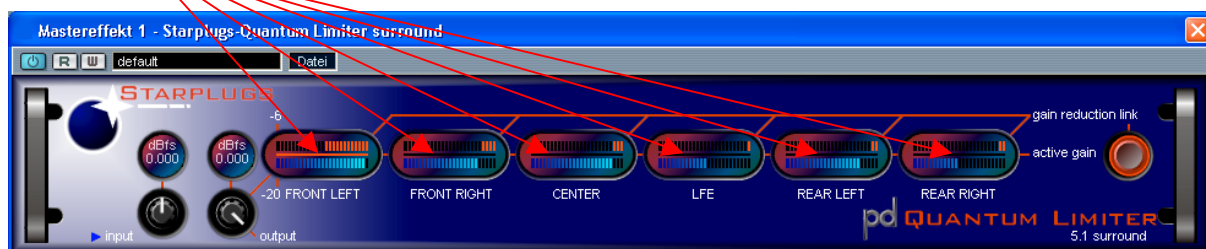
Activate the link button to get an equal limitation of all channels to avoid phase problems in the surround field. Deactivate this feature to limit all channels independently.

## ACTIVE GAIN



The red indicator between the peak- and the gain-reduction meter indicates the highest leveled channel in link mode. The value of the gain reduction of this channel operates all channels. When the link mode is not activated all indicators are highlighted.

## LEVEL METERS

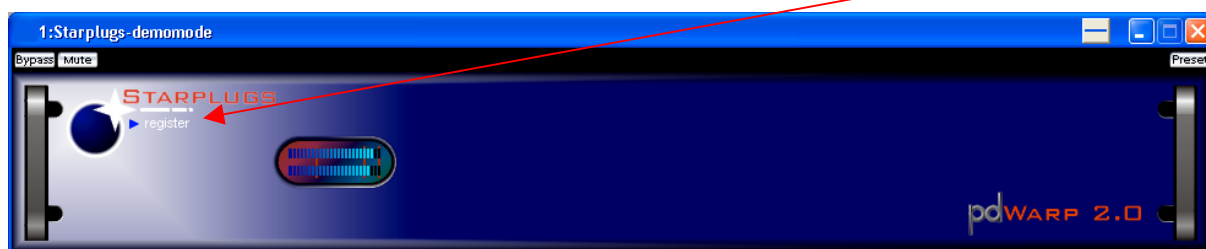


See the blue colored output level meter of the Starplugs-Quantum Limiter and the red colored gain reduction meter. The maximum gain reduction using the pd quantum algorithm<sup>®</sup> (quantum range) is limited at 6 dB. Gain reductions over 6 dB are processed in the way all other limiters do.

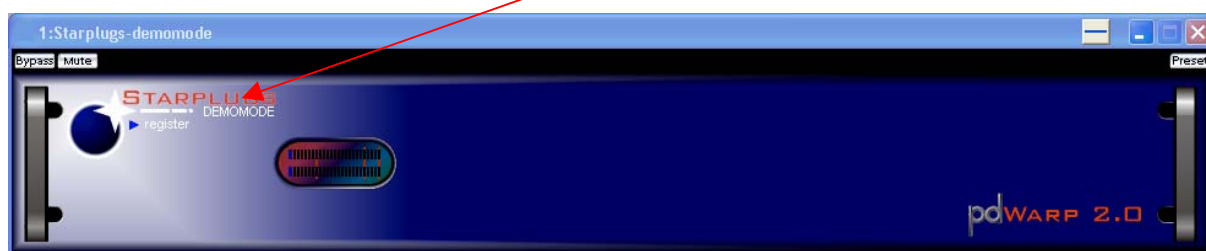


## STARPLUGS > DEMOMODE

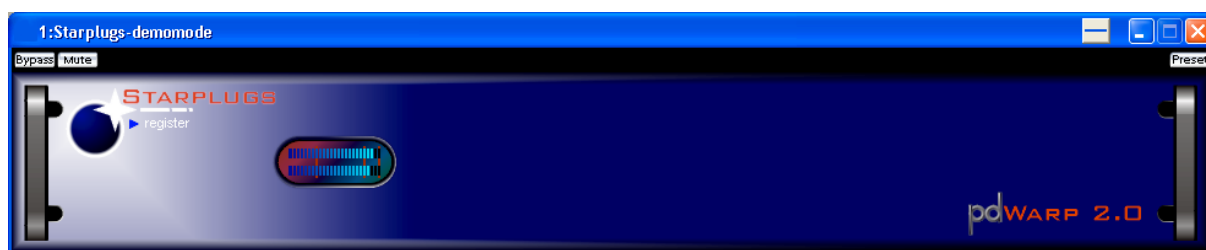
As long as your plugin is not registered your plugin runs in "DEMOMODE". The register inscription and the arrow beneath the Starplugs-Logo indicate the DEMOMODE.



In DEMOMODE you can run the plugin without functional restrictions. But every minute the plugin mutes the outputs for five seconds. The inscription DEMOMODE indicates the mute-period.



After these five seconds the plugin will run again for one minute and then will be muted for five seconds and so on...





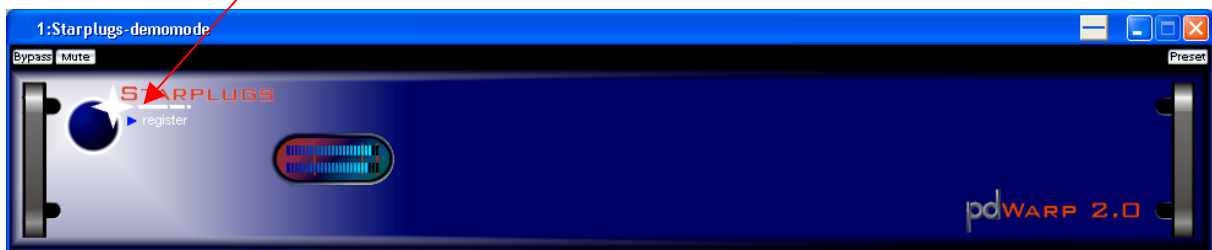
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## STARPLUGS > PRODUCT REGISTRATION

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**IMPORTANT:** You do NOT have to register the plugin to use it in DemoMode.

Click the blue arrow beside the Starplugs logo of your DEMO plugin...



...and the Starplugs registration-dialog will open.

Starplugs-Registrierung

File ?

GUID: {e76154c0-c95f-11d6-bea3-806d6172696f}

To register your purchased plugin please visit  
[www.starplugs.com](http://www.starplugs.com)

Under 'SUPPORT' you'll find the link 'REGISTER'.  
Fill out the form by entering your name, the product  
name, your invoice number and the GUID-Code. In  
return you'll get the the PID-Code and your  
personal PSID-Code. Simply enter these two  
codes into the boxes below.

PID:  PSID:

Register



After purchasing your desired Starplugs-plugin in our online shop, please visit

[www.starplugs.com](http://www.starplugs.com)

Under “**SUPPORT**” you’ll find the link “**REGISTER**”. Fill out the form by entering

- Your Name
- Your email
- Your Invoice Number
- Product Name
- Complete GUID – Code

Starplugs-Registrierung

File ?

GUID: {e76154c0-c95f-11d6-bea3-806d6172696f}

To register your purchased plugin please visit  
[www.starplugs.com](http://www.starplugs.com)

Under 'SUPPORT' you'll find the link 'REGISTER'.  
Fill out the form by entering your name, the product name, your invoice number and the GUID-Code. In return you'll get the the PID-Code and your personal PSID-Code. Simply enter these two codes into the boxes below.

PID:  PSID:

Register

In return we will send you a full-version **setup.exe** of your purchased plugin, the PID-Code (Product ID) and your PSID-Code (Personal Security ID).



## REGISTRATION

After receiving the full-version setup.exe please install your new plugin by following the instructions of the setup. In your Host application you will now find **your plugin without the extension "\_DEMO"**. Click the blue arrow beside the Starplugs logo of your plugin...



...and the Starplugs registration-dialog will open. Enter the **PSID** and **PID** codes we send you.

**Starplugs-Registrierung**

File ?

GUID: {e76154c0-c95f-11d6-bea3-806d6172696f}

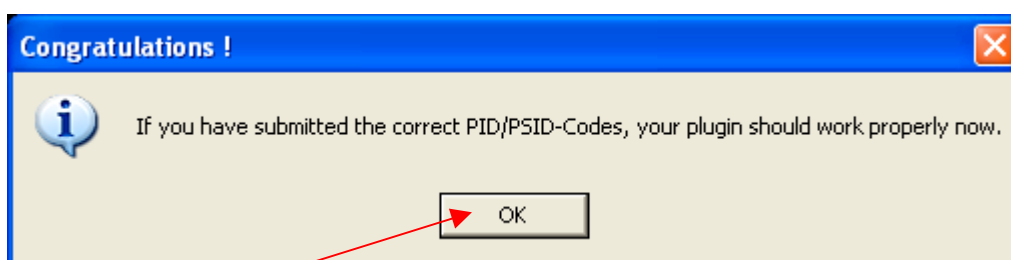
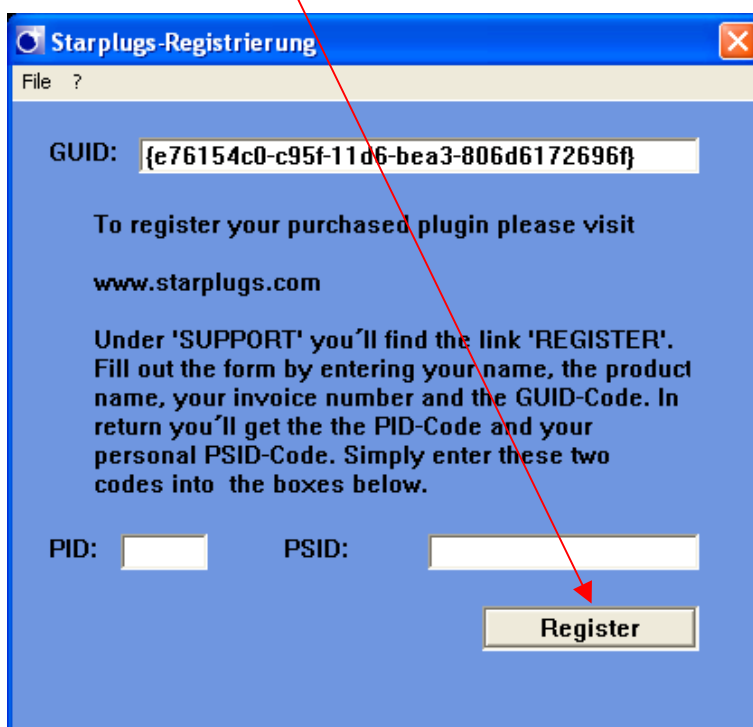
To register your purchased plugin please visit  
[www.starplugs.com](http://www.starplugs.com)

Under 'SUPPORT' you'll find the link 'REGISTER'.  
Fill out the form by entering your name, the product name, your invoice number and the GUID-Code. In return you'll get the the PID-Code and your personal PSID-Code. Simply enter these two codes into the boxes below.

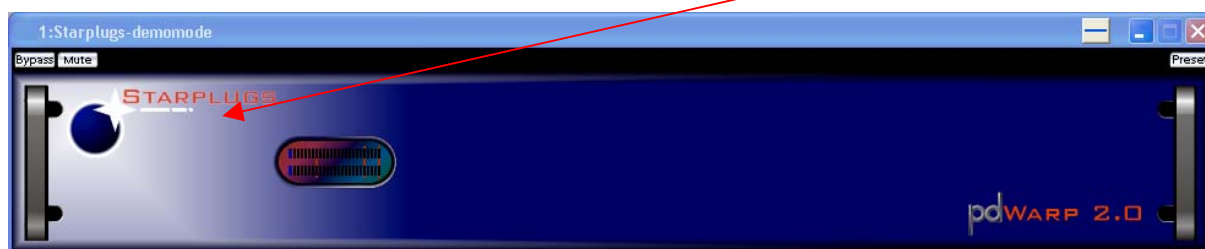
PID:  PSID:



Then click the "Register"-Button and you'll see the following information:



Click the "OK"-Button and your plugin is registered. All inscriptions and buttons connected with the DEMOMODE disappeared on your plugin forever.

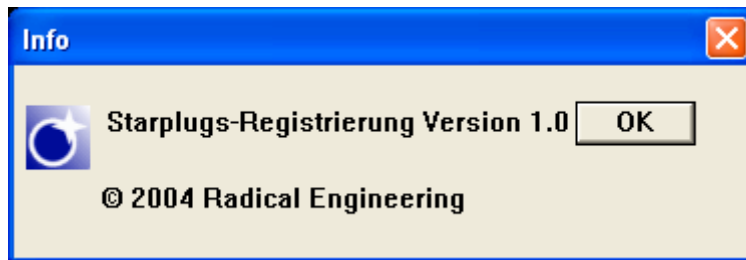


If you close the register - program or enter a wrong code your plugin will still run in "DEMOMODE".



# Q UANTUM L I M I T E R SURROUND

The Starplugs – Registration is created by Radical Engineering.





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## STARPLUGS > UPDATES / UPGRADES

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The most important thing: At Starplugs updates and upgrades are always FREE!

We continuously improve our plugins, so if you find any bugs please contact

[support@starplugs.com](mailto:support@starplugs.com)

Starplugs will fix the problem as soon as possible and will keep you informed with the Starplugs newsletters. If you find your purchased plugin updated you have the chance to test the new version by downloading the DEMO-Version at

[www.starplugs.com](http://www.starplugs.com)

To get a new Full Version release of your **purchased** plugin please contact

[info@starplugs.com](mailto:info@starplugs.com)

and we will send you a new setup. Please install the new version "over" the old one. Just ignore and close the registration dialog after running the setup.

**A new registration is NOT necessary!**

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## STARPLUGS > MODIFICATIONS / ON DEMANDS

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Starplugs works in the good tradition of analogue synthesizer-manufacturers. If you want a modification of your plugin there is a chance to get it. The price will be the purchased plugin and additional the hours of work. For details please contact

[pd@starplugs.com](mailto:pd@starplugs.com)

Starplugs even creates plugins "on demand". If you are searching for a special plugin and you can't find a satisfying solution please contact us - we will find a way!

**+++ At the end it's the SOUND that matters +++**



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## STARPLUGS > TURNING KNOBS

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### STARPLUGS LOGO

Start the manual PDF by clicking on the logo.  
Creators Logo and Module Name



### MAIN KNOBS



Click and hold the knob.

Moving the mouse up will increase the value of the knob, moving it down will decrease the value.

Click the knob while holding the STRG key will give you a very fine control of the value.

Main knobs and joysticks give you control to main volumes and attenuators.



# QUANTUM LIMITER SURROUND

## MAIN KNOBS + METER



Click and hold the knob.

Moving the mouse up will increase the value of the knob, moving it down will decrease the value.

Click the knob while holding the STRG key, will give you a very fine control of the value.

Main knobs + meter give you control to main volumes and attenuators. The meter shows full scale with a 360-degree circle.

## COLORED KNOBS



Turn the colored knobs like the other knobs.

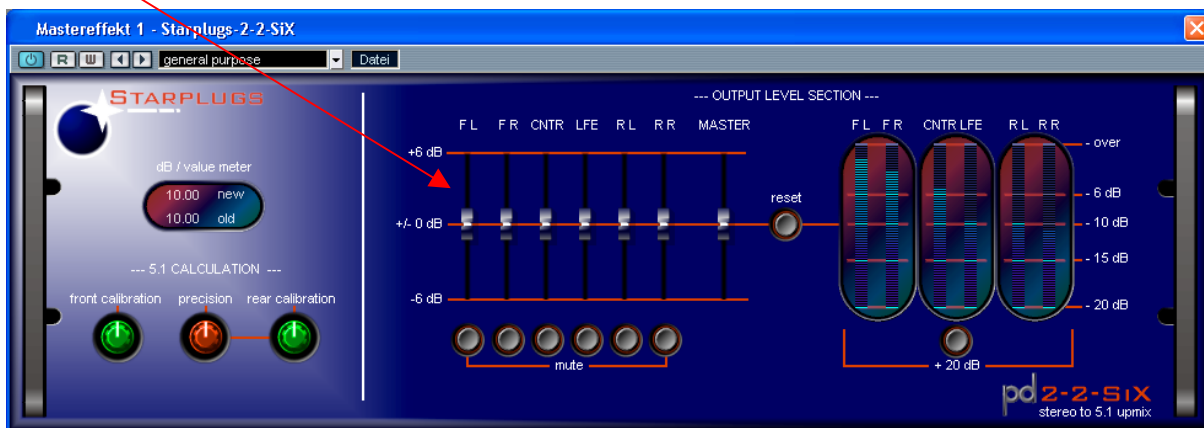
Each color stands for a specific function:

- Black: Attenuator
- Blue: Frequency Controller
- Red: Time Controller
- Green: Effect Controller
- Yellow: Special Controller



# QUANTUM LIMITER SURROUND

## SLIDERS



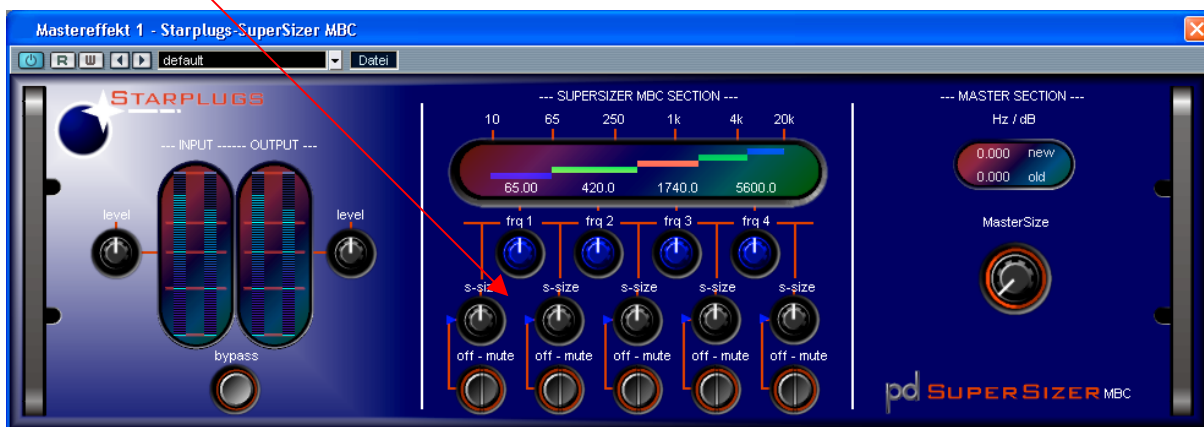
Click and hold the slider.

Moving the mouse up will increase the value of the slider, moving it down will decrease the value.

Click the knob while holding the STRG key, will give you a very fine control of the value.

Sliders are used to set high precision levels and values.

## RESET - ARROWS



Sometimes sliders or knobs are equipped with little blue arrows. Click the reset-arrow and the slider or knob will snap back to zero position – for example 0dB position at level sliders.



## LED - INDICATORS



## STEP SELECTORS



Small selectors are used to select from a small row of values. By clicking the selector-button you step in a circle.  
Large selectors are used to step up and down in a large row of values.



# QUANTUM LIMITER<sub>SURROUND</sub>

## BUTTONS



Left click activates the buttons. Buttons can be trigger- or toggle-buttons.

## VALUE METER

Shows the active knob value.

## PROGRAM PEAK METER

Scale shows over / -6 / -10 / -15 / -20 full-scale dB.

## 5.1 METER

Shows the position of the 5.0 (without LFE) signal flow.





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## PRESETS AND MIDI-AUTOMATION

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All parameters of this plugin can be midi-automated via sysex-data. Please refer to the manual of your host application – it will show you how to automate vst-plugins. Normally you'll have to set this plugin to write-mode and turn the knobs.

Loading and saving presets and banks from and to disk is also part of your host application. This plugin comes with a bank of 16 integrated factory-presets.

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## STARPLUGS, SYNTHEDIT AND VST

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Starplugs synthesizers and effects are created with Jeff McClintock's Synthedit VST-creation-tool and additional C++ modules.



Synthedit-based plugins are known for high and stable performance.

Synthedit does not predefine the sound and function of our plugins. Synthedit is a great VST-creation-tool and gives the Starplugs creator-crew much more time for sound and performance optimizing.

So thanks and all honor to Jeff McClintock!



VST – Plugin Technology by Steinberg

Thanks