

WAVES: ANDREW SCHEPS

SCHEPS 73

USER GUIDE



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Chapter 1 – Introduction

1.1 Welcome

Thank you for choosing Waves! In order to get the most out of your new Waves plugin, please take a moment to read this user guide.

To install software and manage your licenses, you need to have a free Waves account. Sign up at www.waves.com. With a Waves account you can keep track of your products, renew your Waves Update Plan, participate in bonus programs, and keep up to date with other important information.

We suggest that you become familiar with the Waves Support pages: www.waves.com/support. There are technical articles about installation, troubleshooting, specifications, and more. Plus, you'll find company contact information and Waves Support news.

1.2 Product Overview

The music of the '60s and '70s was characterized by a sound that was warm, fat, and rich, with a breathtakingly detailed midrange. The analogue processors of that era, when analyzed today, still amaze even the most brilliant of engineers in their sophisticated designs and the creative solutions used to overcome some of analogue's least wanted artifacts. Although lacking the pristine specifications of modern Waves plug-ins, they still easily provided recording engineers a sound that is all-but-impossible to achieve today. Using new component modeling technology Waves Audio and producer/mixer Andrew Scheps set out on a mission to bring one of the most desired eq's in the world to your digital environment.

1.3 About the Scheps 73

The Scheps 73 is a three band EQ, with a fixed high shelf frequency, a mid band with seven cutoff points (including the recently discovered 10kHz bell), a low shelf with four cutoff points, and a third order high-pass filter with four selected cutoff points. In addition to the EQ, the Scheps 73 provides an option to color the sound with harmonic distortion ranging from pleasant warmth up to the heavy drive settings of one of the most popular preamps out there. For complete control, the Scheps 73 offers a comprehensive monitor section to easily scrutinize your processing stages.

1.4 Components

WaveShell technology enables us to split Waves processors into smaller plugins, which we call **components**. Having a choice of components for a particular processor gives you the flexibility to choose the configuration best suited to your material. **Scheps 73** includes the following components:

- Scheps 73 Mono
- Scheps 73 Stereo

Chapter 2 – Interface and Controls

2.1 Interface



2.2 Controls

Pre-Amp increases the harmonic distortion.

Range: -20 to 10L (Line), -20 to -80M (Mic)

Default: 0 L

Please note:

- Two scales have been modeled - Line scale ranges from -20L to +10L and Mic scale from -20M to -80M. Both scales switch in 5 dB increments. The Line scale will get extension of 'L' and the Mic scale 'M'.
- In its default setting the Pre-Amp will not increase gain, just harmonic distortion. The distortion is mild and adds some coloration.

Drive activates Pre-Amp in drive state.

Range: On, Off

Default: Off

Please note:

- The Drive control turns the Scheps 73 into a distortion generator. This toggles the plug-in to a state that emulates the insertion of a line level signal into the microphone preamp for distortion effects. When Drive is turned on, the line selections on the Pre-amp are unavailable. When turning on the drive control, the setting will automatically switch to Mic -20.
- ***Attention! - in Drive state the Pre-Amp will increase gain, and heavy distortion will be heard.***

High Gain sets the amount of high shelf (12 kHz) boost or cut.

Range: +/- 15 dB in 0.1 dB increments

Default: 0 dB

High On/Off activates high shelf processing.

Range: On, Off

Default: On

Mid Frequency toggles between seven midrange frequencies.

Range: 360 Hz, 700 Hz, 1.6 kHz, 3.2 kHz, 4.8 kHz, 7.2 kHz, 10 kHz

Default: 1.6 kHz

Mid Gain sets the amount of midrange frequency boost or cut.

Range: +/- 15 dB in 0.1 dB increments

Default: 0 dB

Mid On/Off activates mid band processing.

Range: On, Off

Default: On

Low Frequency toggles between four low frequencies.

Range: 35Hz, 60Hz, 110Hz, 220Hz

Default: 110 Hz

Low Gain sets the amount of low frequency boost or cut.

Range: +/- 15 dB in 0.1 dB increments

Default: 0 dB

Low On/Off activates low band processing.

Range: On, Off

Default: On

HP Filter Frequency toggles between four high-pass filter frequencies (third order: -18dB per oct.).

Range: 50Hz, 80Hz, 160Hz, 300Hz

Default Setting: 50 Hz

HP Filter On/Off activates the high-pass filter.

Range: On, Off

Default: Off

Note: The high-pass band is the only one to have separate On/Off control for left and right, this is due to the fact that it does not have a 0 position (Off).

Phase reverses the phase of the signal.

Range: On, Off

Default: Off

Note: The phase will be reversed after the EQ stage

EQ In/Out activates the whole EQ processing.

Range: In, Out

Default: In

Monitor controls the source of the monitor output. (*Stereo component only*)

- Stereo (ST) and Duo modes:
 - Left (left side only)
 - Mono (stereo signal summed to mono)
 - Stereo
 - Right (right side only)

- MS mode:
 - Mid (left plus right)
 - Mono (stereo signal summed to mono)
 - Stereo
 - Sides (left minus right)

Default: Stereo

EQ Mode selects stereo processing mode. (*Stereo component only*)

There are three EQ modes:

- **Stereo** - EQ controls and faders are in link mode. When setting a control on one side the other side will change to the same value. Any difference in the settings between sides (that was created using the Duo, and MS modes) will be preserved when moving back to Stereo mode.
- **Duo** - EQ controls and faders can be set independently in each channel.
- **MS** - this mode will apply an MS encoding matrix on the input of the plug-in. Allowing the user to separately EQ and level the Mid (sum) and Sides (difference) signals. In this mode, an “M” (for Mid) and “S” (for Sides) letters will be added at the header of the channels. M at the top of the left side and S at the top of the right side.

In MS mode all the left side controls will affect the “Mid” signal in the matrix, while the right side controls will affect the “Sides” signal in the matrix.

Default: Stereo

VU Meter displays the input or output level, depending on your selection.

Range: -20 VU – +3 VU

Meter I/O provides the following metering modes:

- **Input Metering** shows the input level of the plug-in. The meter displays the post input fader level prior to any other processing in the plug-in.
- **Output Metering** shows the output level of the plug-in. The meter displays the post processing post output fader level in the plug-in.

Default: In

VU Meter Headroom Calibration defaults to 18 dB headroom and can be adjusted using the little screw at the bottom right side of each meter. Its value will provide an indication to 0VU.

Range: -8 to -24 dBFS

Defaults: 18 dBFS

Clip Indicator indicates peak clipping and is located at the top right of the meter. It is almost invisible to the eye until it is on.

Input adjusts input level pre-processing

Range: +12 to -24 dB

Default: 0 dB

Output adjusts gain post plug-in processing

Range: +12 to -24 dB

Default: 0 dB

Faders Link (*stereo components only*) is placed between stereo faders and links them together. It maintains any relative offset between the faders and stops moving once either fader reaches the range limit. Fader links exist for both input and output faders.

Link I/O inversely links input and output levels. The link relationship is inversely proportional, so an increase in the input level results in a corresponding decrease in output level and vice versa.

Range: On/Off

Default: Off

2.3 WaveSystem Toolbar

Use the bar at the top of the plugin to save and load presets, compare settings, undo and redo steps, and resize the plugin. To learn more, click the icon at the upper-right corner of the window and open the WaveSystem Guide.