



A new world in digital audio

DX Filter

The ANWIDA Soft DX Filter is a studio-quality modulated resonant low pass filter.

[Overview](#)

[What is a DirectX Plug-In?](#)

[System requirements](#)

[How to order](#)

[Warranty & copyright](#)

[About ANWIDA Soft](#)

DX Filter controls:

[Frequency](#)

[Depth](#)

[Degree](#)

[Rate](#)

[Feedback](#)

[Mix](#)

[Volume](#)

DX Filter - copyright © 2000 Andrea Forlani, Massimiliano Tonelli
www: <http://www.anwida.com>, email: info@anwida.com

Overview

The DX Filter is a resonant low pass filter with controllable Q factor and resonant frequency. This last parameter can be modulated by the internal LFO.

Thanks to its 64 bits internal precision, the ANWIDA Soft DX Filter provides ultra clean and noiseless processing.

The following restrictions apply to the demo version of the DX Filter:

- Audio stream is interrupted every 30 seconds during real-time and off-line processing
- Frequency knob is disabled

Frequency

This parameter controls the filter resonant frequency

Range: 300 to 3000Hz

Related Topics:

[Modulation](#)

Depth

Controls how widely the frequency parameter varies as it is modulated by the effect.

Related Topics:

[Modulation](#)

Degree

Allows stereo enhancing of the incoming audio signal

Range: 0° to 180°

Rate

Regulates the speed of the modulation.

Range: 0 to 6Hz

Related Topics:

[Modulation](#)

Feedback

Controls the filter Q. Higher values creates a more evident and selective resonance centered around the selected frequency.



Fig. 1 Filter amplitude for increasing Q

Mix

Controls the unprocessed/processed signal ratio.

Range: 0% to 100%

Volume

Controls the strength of the output signal.

The volume slider is useful to prevent distortion. This unwanted effect is generally caused by high settings of the feedback parameter.

To avoid it, just decrease the volume slider until no distortion occurs. A double-click on the volume slider resets its position.

Range: +3 to -15dB

Modulation

The following examples should clarify how the frequency, depth and rate parameters affect modulation over time.

Frequency = 1000Hz
Depth = 400Hz
Rate = 1Hz



Fig. 2 modulation of the frequency parameter

What is a DirectX plug-in?

A plug-in is a software add-on that provides enhanced capabilities to an host application. A plug-in can't work as a stand-alone program. It must be always accessed from within the host application. Once the plug-in has been installed, it can be called up directly by the appropriate menu in the host application.

DirectX

DirectX is the architectural standard for audio plug-ins Windows platform. It allows users to mix and connect host editors and plug-ins of different manufacturers. As DirectX audio plug-ins, DX Modulation Pack can be used with any program that supports DirectX audio plug-ins. DirectX audio plug-ins can be used as real-time effects during record or playback, or used to render audio tracks during off-line editing. The DX Modulation Pack allows real-time editing and updating of any effect parameter.

System Requirements

- Any DirectX-compatible audio host application
- 133 MHz Pentium processor or 100% equivalent
- Microsoft Windows 95/98/2000 and NT 4.0 or later
- Microsoft's DirectX Media 5.2 or higher
- At least 16MB RAM



A new world in digital audio

ANWIDA Soft has been working in digital audio software since 1995. All our work relies on the synergy between our wide professional experience in the musical & in the scientific field. This allows us to produce carefully designed products developed by musicians for musicians.

E-mail

Information: info@anwida.com

Tech Support: support@anwida.com

WWW <http://www.anwida.com>

How to order

The DX Filter is distributed with the DX Modulation Pack.



The DX Modulation Pack is a collection of superior quality modulation effects. These DirectX plug-ins embody state of the art algorithms developed with maximum care and no compromise. The DX Modulation Pack includes 6 discrete plug-ins: phaser, flanger, chorus, tremolo, c-delay, modulated resonant LP filter.

The following restrictions apply to the demo version of the DX Filter:

- Audio stream is interrupted every 30 seconds during real-time and off-line processing
- Frequency knob is disabled

Please visit us at <http://www.anwida.com/registr.htm> for the latest prices and ordering modalities.
For any information about your orders sales@anwida.com

Warranty & copyright

Disclaimer of Warranty

This product is provided on an "AS IS" basis, without warranty of any kind, expressed or implied, including any warranties of fitness for a particular purpose. The authors shall not be liable for damages of any kind. Use of this software indicates you agree to this.

Copyright

This product (in whole or in part, including all files, data, and documentation) is (c) Copyright 2000 ANWIDA Soft, all rights reserved, and is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. This product may not, in whole or in part, be copied, translated, or reduced to any electronic medium or machine-readable form, without prior consent in writing, from ANWIDA Soft and according to all applicable laws. ANWIDA Soft is the only owner of this product.

You are prohibited from:

- permitting other individuals to use this software except for evaluation purposes;
- modifying, translating, reverse engineering, decompiling, disassembling, or creating derivative works based on this Software;
- renting, leasing, granting a security interest in, or otherwise transferring rights to this software;
- removing any proprietary notices or labels on this software.

All trademarks/registered names acknowledged.

