

## **Katsura Shareware announces the release of ProPhase 1.0 for Mac OS X 10.4**

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### **FOR IMMEDIATE RELEASE**

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Price: \$99 (US). Free to try. ProPhase can be downloaded from [www.katsurashareware.com](http://www.katsurashareware.com).

It has two window types. The Phase Display window and the Level Meter window and multiple windows, each with its own individual parameter settings, can be displayed simultaneously. Window parameters can be saved to and opened from a data file and groups of saved files can be opened simultaneously

The Phase Display window displays the amplitude of the left signal versus the amplitude of the right signal in a similar way to a hardware oscilloscope, instantly indicating polarity problems and the energy distribution of the stereo field. Unlike a hardware oscilloscope, ProPhase has a wide variety of display modes and the "Axis" and "Grid" lines change automatically depending on the selected mode. The colors of the plot, background and Grid are independently customizable by the user.

The "Oscilloscope" display mode simulates the classic hardware XY oscilloscope with the left input feeding the vertical (Y) axis and the right input feeding the horizontal (X) axis. In phase (Mono) signals create a 45 degree sloping line from bottom left to top right. Out of phase signals create a 45 degree sloping line from bottom right to top left. Left signals create a vertical line and right signals a horizontal line.

The Vector Phase Scope display mode simulates the standard vector scope. In Phase (Mono) signals create a vertical line, Out of phase signals create a horizontal line. Left signals create a line at 45 degrees from top left to bottom right. Right signals create a line at 45 degrees from top right to bottom left.

There are two "Inverse Standard Phase Vector Scope" displays which are useful for disc mastering. They simulate the movements of a stylus on a microgroove disk. The upper half of the display shows the lateral and vertical excursions of the stylus.

The phase meter can display information as lines or dots in a single user selectable color or as a level dependent "rainbow" where Low level signals are displayed in green, higher level signals gradually become yellow, then orange and the highest levels are displayed in red.

A unique aspect of ProPhase is its ability to display information in a variety of "scales".

The "Linear" voltage display is similar to hardware X/Y oscilloscope, however, this scale is not linear with respect to decibels. ProPhase also has a "Linear voltage display scale with Automatic Gain Control". Which automatically and instantaneously adjusts the input gain to maintain a readable display at all times. A highly informative display can be created by using this scale in conjunction with Rainbow Display Mode.

ProPhase has seven "Logarithmic Voltage" displays that show signals on a linear dB scale. Each of these log scales only display signals above a specified level. For example the "Log -6dB scale" suppresses all signals below -6dB and is used as a peak level phase display. Similarly the "Log -24dB" scale displays the phase and stereo energy of the signal that can be expected to be audible on a small home system (or a "boom-box") operating at normal playback level (80 to 85 SPL) and subject to moderate noise levels (50 to 55 SPL).

ProPhase accepts analog and digital inputs from both the Mac internal audio or external devices e.g. the MOTU "Traveler" and a "Gain" control enables input level to be increased by up to 40dB is used to increase the visibility of low level signals and to compensate for analog consumer equipment outputs which require 14dB of gain to read accurately because consumer products output -10dB compared to the +4dB used in professional products.

A "Width" control determines the number of samples included in the slice of audio being displayed and is used as a "Persistence" control. High values render very fast changes more visible because they display for a longer period.

The Level Meter window displays four vertical bar graphs which simultaneously indicate Left and Right channel Peak and RMS levels with user settable peak hold and overload indicators. The signal level is displayed as vertical bar graphs in three colors. Signals below -6dB are displayed in green, signals between -6dB and -2dB in yellow and signals above -2dB display as red. The meter's hold and decay functions are user settable.

Independent Left and Right channel "Clip Indicators" are located directly above the level meter displays. ProPhase counts consecutive full scale samples and displays the largest count encountered as a number shown in white inside a red box. The number of consecutive full scale samples the Level Meter has to see before it considers the signal to have clipped is user settable,

Above the Level meters and their clip indicators is a horizontal Correlation Meter with a linear scale. Correlation is a measure of how well two signals align with each other and indicates the mono compatibility of a stereo signal. The meter reduces the complex relative phase information between the two channels to a single value between -1 and 1. When two signals have a correlation of +1, they are the same signal and they will add when combined into mono. When two signals have a correlation of -1, one is the inverse (an opposite polarity copy) of the other and they will exactly cancel when combined into mono. When two signals are unrelated to each other, they have a correlation of 0.

Above the correlation meter is a horizontal Sum & Difference meter that shows L+R and L-R metering. L+R is shown in green and L-R in yellow. The scales are logarithmic with respect to voltage (linear with respect to dB).

A comprehensive help from the Help menu in ProPhase completes the package.

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<http://www.katsurashareware.com/>

### About Katsura Shareware

Katsura Shareware was founded in 2004 by Hidetomo Katsura. The mission of Katsura Shareware is to create shareware that makes your Mac more useful and fun to use. For more information about Katsura Shareware products, visit [www.katsurashareware.com](http://www.katsurashareware.com).

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