

mvMeter

Manual



TBProAudio 2017

1 Introduction

Welcome to mvMeter, a multivariable meter including RMS, EBU R128, VU and PPM measurement.

2 Features

mvMeter offers following features:

- behavior of classic analog VU and PPM meters
- multiple measurement modes: PEAK, RMS, EBU R128, VU and PPM
- multi channel metering: stereo, left, right, mid, side
- large and accurate live meters
- adjustable pre-gain, gain matching
- 64-bit internal processing
- 5 different meter themes
- instance label
- GUI resizing up 400%, ready for 4k displays

3 Design

vmMeter combines multiple meters into one plugin framed by a classic VU/PPM meter design:

- RMS: AVG RMS 600ms based on Bob Katz's K-System, several calibration references
- EBU R128: ML and SL loudness measurement, based on EBU R128
- Classic VU meter
- Classic PPM Meter (BBC and EBU scale)

4 Minimum System Requirements

- Windows XP SP3 or newer
- Mac OS X 10.5 or newer
- Win: 32/64 Bit VST, 32/64 Bit VST3, 32 Bit RTAS, 32/64 Bit AAX
- OS X: 32/64 Bit VST, 32/64 Bit VST3, 32/64 Bit AU, 32 Bit RTAS, 32/64 Bit AAX
- Tested with: Cockos Reaper, Steinberg Cubase/Nuendo/Wavelab 6/7/8, FL Studio 12.x, PT10/12
- All sample rates

5 Features



Theme Selector: White, Classic, Dark, Retro or Deluxe

GUI Scale: selects the current GUI size, from 50% up to 400%!!

Channel Selector: determines what the meter is displaying: stereo loudness (average of left and right channel loudness), left/right loudness, mid/side signal loudness

Current Meter Value: readout of current meter value

Max. Meter Value: readout of max. meter value, click to reset value, shift click matches the max. value with 0 reference of corresponding meter mode.

Meter Modes:

Meter/Scale specification:

(dbFS)	-43	-40	-38	-34	-32	-30	-20	-18	-17	-15	-11	-9	-6	0	1	2	3	Raise Time ms	Fall Time ms
Peak							-20	-18										0	300
RMS-20							-20	+2	+3									600	600
RMS-14							-20	-4		+3								600	600
RMS-12							-20	-6			+3							600	600
EBU ML							+3	+5										400	400
EBU SL							+3	+5										3000	3000
VU								0	+3									300	300
PPM (BBC)							1	4					7					10	2800
PPM (EBU)							-12	Test					+12					10	2800

Current Value: attack 0ms, hold 2000ms, release 100ms

Readout values for 1kHz sinus -18dbFS Peak

Pre-Gain: depending on the Channel Selector it controls the volume of the channel, click right mouse button for numerical input

Instance Label: click on the label to change the name of the plug-in instance.

Needle Mode: changes the function of red needle, off, current or max. value.

Hide/Show GUI Elements: shows/hides GUI scale and Channel Selector buttons, current and max. meter readout.

6 Conclusion

So finally if you have any questions or suggestions just let us know. And have phun with our tools and visit us here: <http://www.tb-software.com/TBProAudio/index.html>

Your team from TBProAudio :-)