
traKmeter

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Loudness meter for correctly setting up tracking and mixing levels

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FLAC-compressed wave file (44.1 kHz, 16 bit, 8 channels)

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Please verify correctness of peak and average meters programmatically and visually.

Given levels describe the first channel. The other channels have been amplified in steps of +5.00 dB per channel (first test) and +1.00 dB (all other tests), respectively. All readouts are given in K-20.

00:00.000 - 00:01.000 silence
00:01.000 - 00:04.000 sine wave (997 Hz, -60.10 dB FS peak, -40.10 dB K-20)

[signal meter ch. 1 should not light]
[signal meter ch. 2 should barely light]
[...]
[signal meter ch. 8 should fully light]

00:04.000 - 00:05.000 silence
00:05.000 - 00:08.000 sine wave (997 Hz, -24.05 dB FS peak, -4.05 dB K-20)

[peak meter ch. 1 should read -4.05 dB] [---]
[peak meter ch. 2 should read -3.05 dB] [LOW]
[peak meter ch. 3 should read -2.05 dB]
[peak meter ch. 4 should read -1.05 dB]
[peak meter ch. 5 should read -0.05 dB]
[peak meter ch. 6 should read +0.95 dB]
[peak meter ch. 7 should read +1.95 dB]
[peak meter ch. 8 should read +2.95 dB]

[RMS meter ch. 1 should read -4.05 dB] [---]
[RMS meter ch. 2 should read -3.05 dB] [---]
[RMS meter ch. 3 should read -2.05 dB] [---]
[RMS meter ch. 4 should read -1.05 dB] [---]
[RMS meter ch. 5 should read -0.05 dB] [---]
[RMS meter ch. 6 should read +0.95 dB] [LOW]
[RMS meter ch. 7 should read +1.95 dB]
[RMS meter ch. 8 should read +2.95 dB]

[maximum peaks should not be visible]
[all signal meters should fully light]

00:08.000 - 00:08.500 silence
00:08.500 - 00:11.500 sine wave (997 Hz, -23.95 dB FS peak, -3.95 dB K-20)

[peak meter ch. 1 should read -3.95 dB] [LOW]
[peak meter ch. 2 should read -2.95 dB]
[peak meter ch. 3 should read -1.95 dB]
[peak meter ch. 4 should read -0.95 dB]
[peak meter ch. 5 should read +0.05 dB]
[peak meter ch. 6 should read +1.05 dB]
[peak meter ch. 7 should read +2.05 dB]
[peak meter ch. 8 should read +3.05 dB] [OVR]

[RMS meter ch. 1 should read -3.95 dB] [---]
[RMS meter ch. 2 should read -2.95 dB] [---]
[RMS meter ch. 3 should read -1.95 dB] [---]
[RMS meter ch. 4 should read -0.95 dB] [---]
[RMS meter ch. 5 should read +0.05 dB] [LOW]
[RMS meter ch. 6 should read +1.05 dB]
[RMS meter ch. 7 should read +2.05 dB]
[RMS meter ch. 8 should read +3.05 dB]

[maximum peaks should be visible]
[all signal meters should fully light]

00:11.500 - 00:12.500 silence
00:12.500 - 00:15.500 sine wave (997 Hz, -16.05 dB FS peak, +3.95 dB K-20)

[peak meter ch. 1 should read +3.95 dB] [OVR]
[peak meter ch. 2 should read +4.95 dB] [OVR]
[peak meter ch. 3 should read +5.95 dB] [OVR]
[peak meter ch. 4 should read +6.95 dB] [OVR]
[peak meter ch. 5 should read +7.95 dB] [OVR]
[peak meter ch. 6 should read +8.95 dB] [OVR]
[peak meter ch. 7 should read +9.95 dB] [OVR]
[peak meter ch. 8 should read +10.95 dB] [OVR]

[RMS meter ch. 1 should read +3.95 dB]
[RMS meter ch. 2 should read +4.95 dB]
[RMS meter ch. 3 should read +5.95 dB]
[RMS meter ch. 4 should read +6.95 dB]
[RMS meter ch. 5 should read +7.95 dB]
[RMS meter ch. 6 should read +8.95 dB]
[RMS meter ch. 7 should read +9.95 dB]
[RMS meter ch. 8 should read +10.95 dB]

[maximum peaks should not be visible]
[all signal meters should fully light]

00:15.500 - 00:16.000 silence
00:16.000 - 00:19.000 sine wave (997 Hz, -15.95 dB FS peak, +4.05 dB K-20)

[peak meter ch. 1 should read +4.05 dB] [OVR]
[peak meter ch. 2 should read +5.05 dB] [OVR]
[peak meter ch. 3 should read +6.05 dB] [OVR]
[peak meter ch. 4 should read +7.05 dB] [OVR]
[peak meter ch. 5 should read +8.05 dB] [OVR]
[peak meter ch. 6 should read +9.05 dB] [OVR]
[peak meter ch. 7 should read +10.05 dB] [OVR]
[peak meter ch. 8 should read +11.05 dB] [OVR]

[RMS meter ch. 1 should read +4.05 dB]
[RMS meter ch. 2 should read +5.05 dB]
[RMS meter ch. 3 should read +6.05 dB]
[RMS meter ch. 4 should read +7.05 dB]
[RMS meter ch. 5 should read +8.05 dB]
[RMS meter ch. 6 should read +9.05 dB]
[RMS meter ch. 7 should read +10.05 dB]
[RMS meter ch. 8 should read +11.05 dB] [HOT]

[maximum peaks should be visible]
[all signal meters should fully light]

00:19.000 - 00:20.000 silence

Validation settings

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File: peak_meter.flac
Host SR: 44 100 Hz
Channel: All
Display: [x] Average meter level
[x] Peak meter level