## 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 dBl
                                                                   [---]
                                                       -3.05 dB]
                        [peak meter ch. 2 should read
                                                                   [LOW]
                        [peak meter ch. 3 should read
                                                       -2.05 dB1
                        [peak meter ch. 4 should read
                                                       -1.05 dB]
                        [peak meter ch. 5 should read
                                                       -0.05 dB1
                                                       +0.95 dB]
                        [peak meter ch. 6 should read
                        [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 dB1
                        [RMS
                             meter ch. 2 should read
                                                       -3.05 dB]
                                                                   [---]
                        [RMS
                             meter ch. 3 should read
                                                       -2.05 dB1
                                                                  [---]
                             meter ch. 4 should read
                                                       -1.05 dB]
                                                                  [---]
                        [ RMS
                             meter ch. 5 should read
                                                       -0.05 dBl
                        [RMS
                                                                  [---]
                                                       +0.95 dB]
                             meter ch. 6 should read
                        [ RMS
                                                                  [LOW]
                        [RMS
                             meter ch. 7 should read
                                                       +1.95 dB
                             meter ch. 8 should read +2.95 dBl
                        [ RMS
                        [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 dB1
                        [peak meter ch. 5 should read
                                                       +0.05 dB1
                        [peak meter ch. 6 should read
                                                       +1.05 dB1
                        [peak meter ch. 7 should read
                                                       +2.05 dB1
                                                       +3.05 dB]
                        [peak meter ch. 8 should read
                                                                   [HOT]
                             meter ch. 1 should read
                                                       -3.95 dB1
                        [RMS
                                                                   [---]
                             meter ch. 2 should read
                                                       -2.95 dB]
                        [RMS
                                                                   [---]
                             meter ch. 3 should read
                        [RMS
                                                       -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 dB1
                                                                   [HOT]
                        [peak meter ch. 2 should read
                                                       +4.95 dB1
                                                                   [HOT]
                        [peak meter ch. 3 should read
                                                       +5.95 dB1
                                                                   [H0T]
                                                       +6.95 dB1
                        [peak meter ch. 4 should read
                                                                   [HOT]
                        [peak meter ch. 5 should read
                                                       +7.95 dB]
                                                                   [HOT]
                                                       +8.95 dB]
                        [peak meter ch. 6 should read
                                                                   [HOT]
                        [peak meter ch. 7 should read
                                                       +9.95 dB]
                                                                   [HOT]
                        [peak meter ch. 8 should read +10.95 dB]
                                                                   [HOT]
                        [RMS
                             meter ch. 1 should read
                                                       +3.95 dB1
                        [RMS
                             meter ch. 2 should read
                                                       +4.95 dB1
                        [RMS
                             meter ch. 3 should read
                                                       +5.95 dB1
                             meter ch. 4 should read +6.95 dB]
                        [ RMS
                             meter ch. 5 should read
                                                       +7.95 dB1
                        [RMS
                             meter ch. 6 should read +8.95 dB]
                        [ RMS
                        [ RMS
                             meter ch. 7 should read +9.95 dBl
                             meter ch. 8 should read +10.95 dBl
                        [ RMS
                        [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 dB1
                                                                   [HOT]
                        [peak meter ch. 2 should read
                                                       +5.05 dB]
                                                                   [HOT]
                        [peak meter ch. 3 should read
                                                       +6.05 dB1
                                                                   [HOT]
                        [peak meter ch. 4 should read
                                                       +7.05 dB1
                                                                   [H0T]
                        [peak meter ch. 5 should read
                                                       +8.05 dB1
                                                                   [H0T]
                        [peak meter ch. 6 should read
                                                       +9.05 dB1
                                                                   [H0T]
                        [peak meter ch. 7 should read +10.05 dB]
                                                                   [H0T]
                        [peak meter ch. 8 should read +11.05 dB]
                                                                   [HOT]
                             meter ch. 1 should read
                                                       +4.05 dB1
                        [RMS
                             meter ch. 2 should read
                                                       +5.05 dB1
                        [RMS
                             meter ch. 3 should read
                        [RMS
                                                       +6.05 dB1
                        [RMS
                             meter ch. 4 should read
                                                       +7.05 dB
                        [RMS
                             meter ch. 5 should read
                                                       +8.05 dB1
                        [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

File: peak\_meter.flac

Host SR: 44 100 Hz

Channel: All

Display: [x] Average meter level

[x] Peak meter level