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traKmeter
==========
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 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.

```
00:00.000 - 00:01.000  silence
00:01.000 - 00:03.000  sine wave (1000 Hz, -60.10 dB FS peak)

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

```
00:03.000 - 00:04.000  silence
00:04.000 - 00:06.000  sine wave (1000 Hz, -22.05 dB FS peak)

                       [peak meter ch. 1 should read -22.05 dB]  [---]
                       [peak meter ch. 2 should read -21.05 dB]  [LOW]
                       [peak meter ch. 3 should read -20.05 dB]
                       [peak meter ch. 4 should read -19.05 dB]
                       [peak meter ch. 5 should read -18.05 dB]
                       [peak meter ch. 6 should read -17.05 dB]
                       [peak meter ch. 7 should read -16.05 dB]
                       [peak meter ch. 8 should read -15.05 dB]

                       [RMS  meter ch. 1 should read -22.05 dB]  [---]
                       [RMS  meter ch. 2 should read -21.05 dB]  [---]
                       [RMS  meter ch. 3 should read -20.05 dB]  [---]
                       [RMS  meter ch. 4 should read -19.05 dB]  [LOW]
                       [RMS  meter ch. 5 should read -18.05 dB]
                       [RMS  meter ch. 6 should read -17.05 dB]
                       [RMS  meter ch. 7 should read -16.05 dB]
                       [RMS  meter ch. 8 should read -15.05 dB]

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

00:06.000 - 00:06.500  silence
00:06.500 - 00:08.500  sine wave (1000 Hz, -21.95 dB FS peak)

                       [peak meter ch. 1 should read -21.95 dB]  [---]
                       [peak meter ch. 2 should read -20.95 dB]  [LOW]
                       [peak meter ch. 3 should read -19.95 dB]
                       [peak meter ch. 4 should read -18.95 dB]
                       [peak meter ch. 5 should read -17.95 dB]
                       [peak meter ch. 6 should read -16.95 dB]
                       [peak meter ch. 7 should read -15.95 dB]
                       [peak meter ch. 8 should read -14.95 dB]

                       [RMS  meter ch. 1 should read -21.95 dB]  [---]
                       [RMS  meter ch. 2 should read -20.95 dB]  [---]
                       [RMS  meter ch. 3 should read -19.95 dB]  [---]
                       [RMS  meter ch. 4 should read -18.95 dB]  [LOW]
                       [RMS  meter ch. 5 should read -17.95 dB]
                       [RMS  meter ch. 6 should read -16.95 dB]
                       [RMS  meter ch. 7 should read -15.95 dB]
                       [RMS  meter ch. 8 should read -14.95 dB]

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

```
00:08.500 - 00:09.500  silence
00:09.500 - 00:11.500  sine wave (1000 Hz, -15.05 dB FS peak)

                       [peak meter ch. 1 should read -15.05 dB]
                       [peak meter ch. 2 should read -14.05 dB]  [HOT]
                       [peak meter ch. 3 should read -13.05 dB]  [HOT]
                       [peak meter ch. 4 should read -12.05 dB]  [HOT]
                       [peak meter ch. 5 should read -11.05 dB]  [HOT]
                       [peak meter ch. 6 should read -10.05 dB]  [HOT]
                       [peak meter ch. 7 should read  -9.05 dB]  [HOT]
                       [peak meter ch. 8 should read  -8.05 dB]  [HOT]

                       [RMS  meter ch. 1 should read -15.05 dB]
                       [RMS  meter ch. 2 should read -14.05 dB]
                       [RMS  meter ch. 3 should read -13.05 dB]
                       [RMS  meter ch. 4 should read -12.05 dB]
                       [RMS  meter ch. 5 should read -11.05 dB]
                       [RMS  meter ch. 6 should read -10.05 dB]
                       [RMS  meter ch. 7 should read  -9.05 dB]
                       [RMS  meter ch. 8 should read  -8.05 dB]  [HOT]

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

00:11.500 - 00:12.000  silence
00:12.000 - 00:14.000  sine wave (1000 Hz, -14.95 dB FS peak)

                       [peak meter ch. 1 should read -14.95 dB]  [HOT]
                       [peak meter ch. 2 should read -13.95 dB]  [HOT]
                       [peak meter ch. 3 should read -12.95 dB]  [HOT]
                       [peak meter ch. 4 should read -11.95 dB]  [HOT]
                       [peak meter ch. 5 should read -10.95 dB]  [HOT]
                       [peak meter ch. 6 should read  -9.95 dB]  [HOT]
                       [peak meter ch. 7 should read  -8.95 dB]  [HOT]
                       [peak meter ch. 8 should read  -7.95 dB]  [HOT]

                       [RMS  meter ch. 1 should read -14.95 dB]
                       [RMS  meter ch. 2 should read -13.95 dB]
                       [RMS  meter ch. 3 should read -12.95 dB]
                       [RMS  meter ch. 4 should read -11.95 dB]
                       [RMS  meter ch. 5 should read -10.95 dB]
                       [RMS  meter ch. 6 should read  -9.95 dB]
                       [RMS  meter ch. 7 should read  -8.95 dB]  [HOT]
                       [RMS  meter ch. 8 should read  -7.95 dB]  [HOT]

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

00:14.000 - 00:15.000  silence
```

Validation settings

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