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*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, stereo)**

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

Given levels describe the left channel, while the right channel has been amplified by +0.10 dB. All readouts are given in K-20 and should be validated on both peak and average meters.

00:00.000 - 00:01.000   silence  
00:01.000 - 00:04.000   sine wave (997 Hz, -24.05 dB FS peak)  
  
                          [left level meters should read -4.05 dB]  
                          [right level meters should read -3.95 dB]  
  
00:04.000 - 00:05.000   silence  
00:05.000 - 00:08.000   sine wave (997 Hz, -23.05 dB FS peak)  
  
                          [left level meters should read -3.05 dB]  
                          [right level meters should read -2.95 dB]  
  
00:08.000 - 00:09.000   silence  
00:09.000 - 00:12.000   sine wave (997 Hz, -22.05 dB FS peak)  
  
                          [left level meters should read -2.05 dB]  
                          [right level meters should read -1.95 dB]  
  
00:12.000 - 00:13.000   silence  
00:13.000 - 00:16.000   sine wave (997 Hz, -21.05 dB FS peak)  
  
                          [left level meters should read -1.05 dB]  
                          [right level meters should read -0.95 dB]

00:16.000 - 00:17.000 silence  
00:17.000 - 00:20.000 sine wave (997 Hz, -20.05 dB FS peak)  
[left level meters should read -0.05 dB]  
[right level meters should read +0.05 dB]

00:20.000 - 00:21.000 silence  
00:21.000 - 00:24.000 sine wave (997 Hz, -19.05 dB FS peak)  
[left level meters should read +0.95 dB]  
[right level meters should read +1.05 dB]

00:24.000 - 00:25.000 silence  
00:25.000 - 00:28.000 sine wave (997 Hz, -18.05 dB FS peak)  
[left level meters should read +1.95 dB]  
[right level meters should read +2.05 dB]

00:28.000 - 00:29.000 silence  
00:29.000 - 00:32.000 sine wave (997 Hz, -17.05 dB FS peak)  
[left level meters should read +2.95 dB]  
[right level meters should read +3.05 dB]

00:32.000 - 00:33.000 silence  
00:33.000 - 00:36.000 sine wave (997 Hz, -16.05 dB FS peak)  
[left level meters should read +3.95 dB]  
[right level meters should read +4.05 dB]

00:36.000 - 00:37.000 silence  
00:37.000 - 00:40.000 sine wave (997 Hz, -15.05 dB FS peak)  
[left level meters should read +4.95 dB]  
[right level meters should read +5.05 dB]

00:40.000 - 00:41.000 silence  
00:41.000 - 00:44.000 sine wave (997 Hz, -14.05 dB FS peak)  
[left level meters should read +5.95 dB]  
[right level meters should read +6.05 dB]

00:44.000 - 00:45.000 silence  
00:45.000 - 00:48.000 sine wave (997 Hz, -13.05 dB FS peak)  
[left level meters should read +6.95 dB]  
[right level meters should read +7.05 dB]

00:48.000 - 00:49.000 silence  
00:49.000 - 00:52.000 sine wave (997 Hz, -12.05 dB FS peak)  
[left level meters should read +7.95 dB]  
[right level meters should read +8.05 dB]

00:52.000 - 00:53.000 silence  
00:53.000 - 00:56.000 sine wave (997 Hz, -11.05 dB FS peak)  
[left level meters should read +8.95 dB]  
[right level meters should read +9.05 dB]

00:56.000 - 00:57.000 silence  
00:57.000 - 01:00.000 sine wave (997 Hz, -10.05 dB FS peak)  
[left level meters should read +9.95 dB]  
[right level meters should read +10.05 dB]  
  
01:00.000 - 01:01.000 silence  
01:01.000 - 01:04.000 sine wave (997 Hz, -9.05 dB FS peak)  
[left level meters should read +10.95 dB]  
[right level meters should read +11.05 dB]  
  
[left overload meter should be empty]  
[right overload meter should read +11]  
  
01:04.000 - 01:05.000 silence  
01:05.000 - 01:08.000 sine wave (997 Hz, -8.05 dB FS peak)  
[left level meters should read +11.95 dB]  
[right level meters should read +12.05 dB]  
  
[left overload meter should read +12]  
[right overload meter should read +12]  
  
01:08.000 - 01:09.000 silence  
01:09.000 - 01:12.000 sine wave (997 Hz, -0.05 dB FS peak)  
[left average meter should read +19.95 dB]  
[right average meter should read +20.05 dB]  
[left peak meter should read +19.95 dB]  
[right peak meter should read +20.00 dB]  
  
[left overload meter should read +20]  
[right overload meter should read +20]  
  
01:12.000 - 01:13.000 silence

### Validation settings

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