
K-Meter

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Implementation of a K-System meter according to Bob Katz' specifications

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

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Please verify readout of overflow counter by making use of your eyes and ears. In "ITU-R BS.1770" mode, the number of overflows must equal the sum of overflows in each channel.

Given values describe the left channel. The right channel is delayed by one second and contains a sine wave with a frequency of 500 Hz.

00:00.000 - 00:02.000 silence

00:02.000 - 00:05.000 sine wave (150 Hz, -5.5 dB FS peak)

[both channels: first audible click must not register]
[both channels: second audible click must register]

[left channel: a total of 16 clips must register]
[right channel: a total of 9 clips must register]

00:05.000 - 00:07.000 silence

Validation settings

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File: overflow.flac

Host SR: 44 100 Hz

Channel: All

Display: [] Average meter level
 [] Peak meter level
 [] Maximum peak level
 [] Stereo meter value
 [] Phase correlation

Samples reaching digital full scale

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both channels: 1 sample of integer level 32'764
1 adjoining negated sample of integer level 32'764

--> these peaks MUST NOT register

both channels: 1 sample of integer level 32'765
1 adjoining negated sample of integer level 32'765

--> these peaks MUST register

left channel: 4 continuous positive samples

left channel: 2 continuous negative samples

left channel: 1 positive sample
1 adjoining negative sample

left channel: 2 continuous positive samples
1 "valid" sample
2 continuous negative samples

right channel: 1 positive sample

right channel: 1 negative sample
1 adjoining positive sample

left channel: 1 negative sample

left channel: 1 positive sample

right channel: 2 continuous negative samples
1 "valid" sample
2 continuous positive samples