

# Latencies of Weiss Equipment

## EQ1

Sampling rate:	delay in ms	delay in frames 25 fps	delay in frames 24fps
44.1k	~ 0	~ 0	~ 0
48.0k	~ 0	~ 0	~ 0
88.2k	~ 0	~ 0	~ 0
96.0k	~ 0	~ 0	~ 0

## EQ1-MK2

Sampling rate:	delay in ms	delay in frames 25 fps	delay in frames 24fps
44.1k	1.68	0.043	0.041
48.0k	1.54	0.039	0.037
88.2k	~ 0	~ 0	~ 0
96.0k	~ 0	~ 0	~ 0

## EQ1-LP (in LP mode; for MK2 mode see EQ1-MK2 above)

Sampling rate:	delay in ms	delay in frames 25 fps	delay in frames 24fps
44.1k	375	9.375	9.000
48.0k	344	8.6	8.256
88.2k	372	9.3	8.928
96.0k	341	8.525	8.184

## EQ1-DYN

Sampling rate:	delay in ms	delay in frames 25 fps	delay in frames 24fps
44.1k	168.7	4.22	4.05
48.0k	155.0	3.88	3.72
88.2k	167.0	4.17	4.01
96.0k	153.5	3.84	3.68

## SFC2

	delay in ms	delay in frames 25 fps	delay in frames 24fps
worst case:	1.38	0.0346	0.0332

**DS1**

Sampling rate:	delay in ms	delay in frames 25 fps	delay in frames 24fps
44.1k or 48k	6.00	0.15	0.14
	8.00	0.20	0.19
	10.00	0.25	0.24
	12.00	0.30	0.29
	14.00	0.35	0.34
	16.00	0.40	0.38
	18.00	0.45	0.43
	20.00	0.50	0.48
	22.00	0.55	0.53
	24.00	0.60	0.58
	26.00	0.65	0.62
	28.00	0.70	0.67
	30.00	0.75	0.72
	32.00	0.80	0.77
	33.33	0.83	0.80
	33.37	0.83	0.80
	34.00	0.85	0.82
	36.00	0.90	0.86
	38.00	0.95	0.91
	40.00	1.00	0.96
	41.67	1.04	1.00
	42.00	1.05	1.01
	44.00	1.10	1.06
	46.00	1.15	1.10
	48.00	1.20	1.15
	50.00	1.25	1.20
	52.00	1.30	1.25
	54.00	1.35	1.30
	56.00	1.40	1.34
	58.00	1.45	1.39
	60.00	1.50	1.44
	62.00	1.55	1.49
	64.00	1.60	1.54
	66.00	1.65	1.58
	66.67	1.67	1.60
	67.30	1.68	1.62
	68.00	1.70	1.63
	70.00	1.75	1.68
	72.00	1.80	1.73

**DS1-MK2, DS1-MK3**

Sampling rate:	delay in ms (selectable)	delay in frames 25 fps	delay in frames 24fps
44.1k	33.33	0.83	0.80
or 48k	33.37	0.83	0.80
or 88.2k	34.00	0.85	0.82
or 96k	36.00	0.90	0.86
	38.00	0.95	0.91
	40.00	1.00	0.96
	41.67	1.04	1.00
	42.00	1.05	1.01
	44.00	1.10	1.06
	46.00	1.15	1.10
	48.00	1.20	1.15
	50.00	1.25	1.20
	52.00	1.30	1.25
	54.00	1.35	1.30
	56.00	1.40	1.34
	58.00	1.45	1.39
	60.00	1.50	1.44
	62.00	1.55	1.49
	64.00	1.60	1.54
	66.00	1.65	1.58
	66.67	1.67	1.60
	67.30	1.68	1.62
	68.00	1.70	1.63
	70.00	1.75	1.68
	72.00	1.80	1.73
	74.00	1.85	1.78
	76.00	1.90	1.82
	78.00	1.95	1.87
	80.00	2.00	1.92
	82.00	2.05	1.97
	83.33	2.08	2.00
	84.00	2.10	2.02
	86.00	2.15	2.06
	88.00	2.20	2.11
	90.00	2.25	2.16
	92.00	2.30	2.21
	94.00	2.35	2.26
	96.00	2.40	2.30

**DAC1**

44.1kHz: approx. 11ms with about 0.4ms variation over time

**ADC2**

<u>sampling rate</u>	<u>delay</u>
44.1k	2.6 ms
48.0k	2.49ms
88.2k	1.8ms
96.0k	1.75ms
176.4k	1.4ms
192.0k	1.38ms

**ADC1-MK2**

<u>sampling rate</u>	<u>delay approx.</u>
44.1k	0.82 ms
48.0k	0.75 ms
88.2k	0.41 ms
96.0k	0.38 ms