

External Data in WINalyze

(WINalyze Manual page 113 ff.)

8.2 DAQ and DQS Format

Data from external devices like e.g. EMG force plates or audio data can be imported into an analysis window. To enable this feature the data must be brought to the DAQ/DQS format according to the following specifications.

DAQ Format

The recorded data, e.g. an audio sample, are saved in an own file. The filename of the data file consists of the base name and the extension DAQ.

The data can be stored in the ASCII or binary (RAW) format. In both cases they are always 16-bit values. Depending whether the data is bi- or unipolar, the data values are saved signed or unsigned. The additional information about in each case the storage format and the polarity of the values can be taken from the DQS file.

Example: Part of the file EMG.DAQ

15
18
18
18
15
21
21
12
28
17
23 and so on

DQS Format

To take hold of the technical specification with the storage for every data file an associated descriptor file is created.

It has the same base name as the data file, but the extension DQS.

The entries of this file consist of a line-orientated description in the ASCII format. Every line begins with a keyword (Token), followed by a comma and then in each case the entry.

<Token>:<characters>

The following entries are used in the DQS File:

Token	DataType	Format	Description	Example
DAQ_AMP	int	1, 2, 5, 10	Amplification	5
DAQ_BITS	int	12, 13, , 16	Bits per sample	12
DAQ_COUPLING	string	AC, DC	Coupling AC	
DAQ_DATE	string	dd.mm.jjjj	Date of storage	01.01.1995
DAQ_FRAMERATE	float/double		Frames/sec	1000.00
DAQ_FORMAT	string	ASCII, RAW	Storage type of file	ASCII
DAQ_LENGTH	int	>0	Number of samples	10240
DAQ_MAXVOLT	float/double	+5, +2,5	Maximum voltage	5
DAQ_MINVOLT	float/double	0, -2,5	Minimum voltage	0
DAQ_NAME	string		Description	Audio
DAQ_SAMPLERATE	float		Sample rate	10000.00
DAQ_POLARITY	string	uni. Bi	Polarity of the record	UNI
DAQ_SpF	int		Samples/Frame	100
DAQ_TIME	string	hh.mm	Storage time	10.30

Example file EMG.DQS

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DAQ_AMP:1
DAQ_BITS:16
DAQ_COUPLING:AC
DAQ_DATE:13.01.1997
DAQ_FRAMERATE:500.00
DAQ_FORMAT:ASCII
DAQ_LENGTH:480
DAQ_MAXVOLT:0
DAQ_MINVOLT:5
DAQ_NAME:EMG
DAQ_SAMPLERATE:25.0
DAQ_POLARITY:UNI
DAQ_SpF:20
DAQ_TIME:35.96

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