

The DADISP Model SM-2002 is a flexible and very powerful analysis software package. It includes a variety of waveform plotting and display options. It is user friendly and has the same feel as a standard spreadsheet program. Many functions are performed by one click. The software directly reads waveform data files in CSS (uncompressed) data format.

Features Include;

Application Specific Analysis

- Amplitude Spectrum
- Power Spectrum
- Moving Average
- Vector Sum
- RMS
- Max and Min
- FFT
- Phase

Data Reduction

- Exact Region
- Cut Region
- Concatenate Series
- Merge, Unmerge, Replicate Series, and Reverse
- Interpolation; linear, spline, and interval
- Decimate
- Clip, Remove Points, Set NA Values,
- Conditional delete and replace
- Quantize

Math

- Absolute Value
- Round up or down
- Derivative, Left and Right Derivative
- Integrate
- Partial Sum
- Moving Average, Moving Average 2
- Moving Minimum, Moving Maximum
- Moving RMS, Moving Standard Dev.
- Amplitude Distribution

- Log, Log10, Natural Log, Exponent
- 2D Math, Gradient and Interpolation

FFT/Spectral

- FFT, DFT, FFT Shift
- Inverse FFT, Inverse DFT
- Spectrum and Specgram
- PSD

Signal Processing

- Filter Equation Evaluation
- Z Transform Evaluation
- Quantize to 2^N Bits
- Single Pole High Pass Filter
- Single Pole Low Pass Filter

Peaks and Valleys

- Display Minimums and Maximums
- Find Min and Max
- Find First, Next, and Prev. Peak
- Get Peak Values
- Find First, Next, and Prev Valleys
- Get Valley Values

Many More Features Including

- Image Processing-Nonlinear, Histogram, Sobel, 2D-FFT, IFFT, DCT, IDCT
- Matrix Math and Data Reordering
- Trigonometric and Hyperbolic Functions
- Correlation and Convolution Functions
- Error, Bessel, and Gamma Functions
- Complex Conversion Function