Software for WE7000 PC-based measuring instrument 7077 51

Waveform Editor

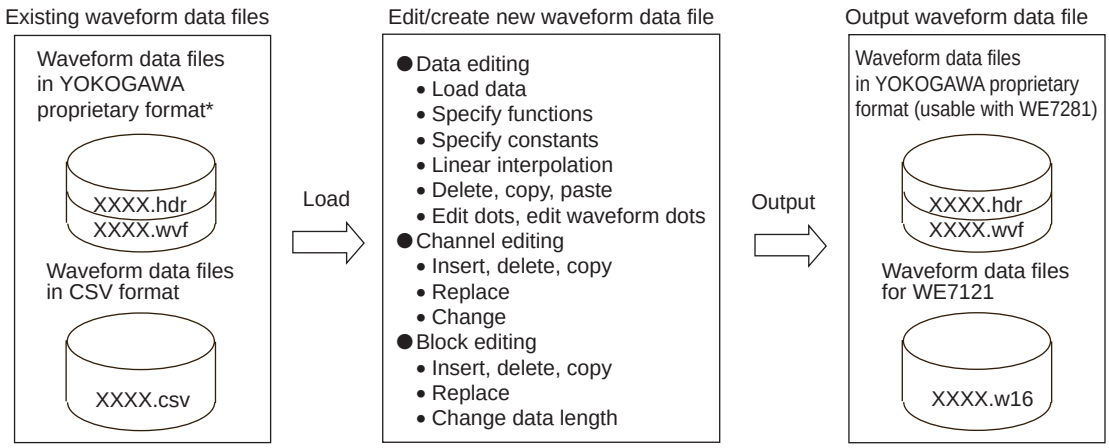
The Waveform Editor lets you edit new data or data collected with the WE7000 using a variety of waveform editing functions. Waveform data can be loaded in a DA module (WE7281) or FG module (WE7121) and output as a waveform data file.

Features

- Edit up to 4M of data per channel.
- Load measurement files (“wvf” file extension) and Excel files (“csv” file extension).
- Use interpolation (spline, linear) over segments in a specified range (e.g., to remove waveform noise components).
- Add edited waveforms (e.g., add noise components).

Overview

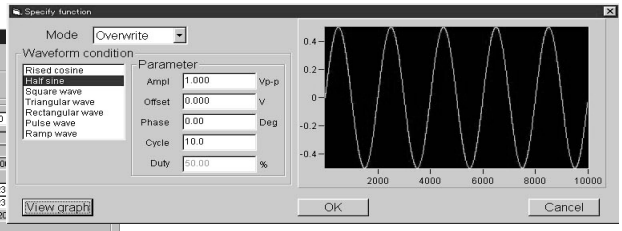
As shown below, this software lets you open and edit existing waveform data files, then save your data in the specified file format.



* Waveform data files saved with a "wvf" file extension using WE7000 modules or other YOKOGAWA measuring instruments (Note: Some waveform data, such as logic waveforms, may not be loaded properly.)

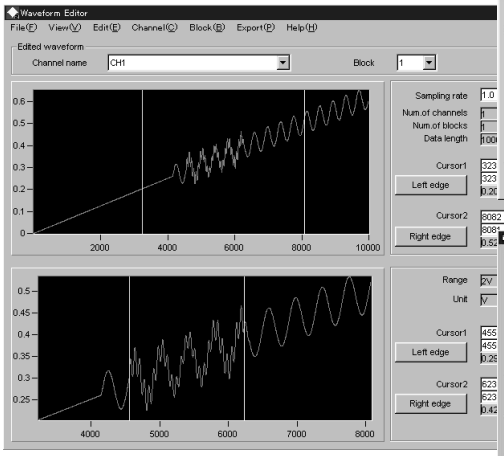
Editing screen example

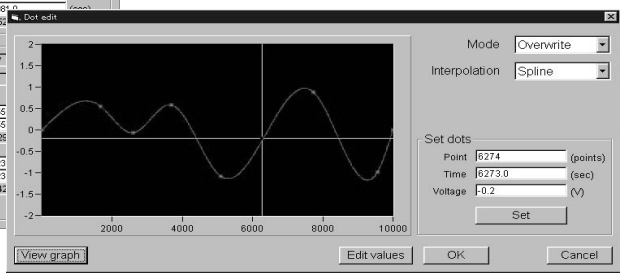
Screen for generating related waveforms



Full waveform display

Enlarged waveform display





Editing waveform display

Specifications

●File formats that can be loaded

- YOKOGAWA proprietary waveform data files with “wvf” file extension (header file with “hdr” extension also required):
  Note that only the specified channel in the specified block can be edited.
- ASCII files with “csv” file extension:
  Only the data in the first column can be edited.

●Output file format

- YOKOGAWA proprietary waveform data files with “wvf” file extension (header file with “hdr” extension also required)
  Bits: 16
  Channels: 1 to 80
  Blocks: 1 to 256
  Data length: 1 to 4,194,304 (per channel)
- WE7121 waveform data file extension: w16
  Bits: 16 (Little Endian; valid bits are lower 12 bits; upper 4 bits are ignored)
  Value assignment: Values are assigned from 1 to 4095, taking the minimum and maximum data values.
  Data length: 16,384 points (if there are fewer than 16,384 points, use 2048 to fill in the missing points)

●Editing functions

- Specify functions: Used to change the waveform data in the specified range to waveform data created using the following functions: raised cosine, half sine, sinewave, triangular wave, square wave, pulse wave, ramp wave.
- Specify constants: Used to change the waveform data in the specified range to a specified, fixed value.
- Linear interpolation: Used to change the waveform data in the specified range to a value obtained by linear interpolation between the leading value and the final value in the specified range.
- Delete: Used to delete the waveform data in the specified range, and move forward the waveform data subsequent to that range.
- Copy, paste: Used to copy the waveform data in the specified range and paste it to the specified range.
- Edit dots: Used to enter numerical values or plot specified through-points, and interpolate the segments between them (either linearly or based on a tertiary spline) to create a waveform, which is pasted to a specified range.
- Edit waveform dots: Used to enter numerical values or plot them in point-to-point correspondence with waveform data, in order to edit the waveform data (linear or tertiary spline interpolation can also be used).
- Channel editing: The following channel editing functions are provided: add/delete channel, copy waveform data between channels, replace waveform data between specified channels, change channel conditions (channel name, voltage range, unit).
- Block editing: The following block editing functions are provided: add/delete block, copy waveform data between blocks, replace waveform data between specified blocks, change data length.

●Waveform display

- Full waveform display graphs: Used to display all points in a specified block; allows multiple specified channels to be displayed on top of each other.
- Editing graph: Used to display waveform data in a specified range (enlarged display).
- Y-axis scale setting: Auto or manual scale

●Cursor functions

- The editing range can be specified with two cursors. The cursor position (X value) can be specified with the mouse or as a numerical value.
- The cursor position X value (number of points, time) and Y value (voltage value) are displayed.
- Cursor lock: Locks the distance between the two cursors.

●Settable voltage ranges

Data are edited based on voltage values. The following voltage ranges can be selected: ±1 V, ±2 V, ±5 V, ±10 V

●PC system requirements

- Operating system: Microsoft Windows 95/98 or Windows NT 4.0
- CPU: Pentium 133 MHz or higher
- RAM: Minimum 32 MB (48 MB recommended)
- Hard drive: Minimum 20 MB free space (varies according to the size of the waveform data file being edited)
- Floppy drive: 3.5-inch floppy drive compatible with 1.44 MB IBM-compatible floppy disks (used to install the software)
- Mouse: Compatible with Windows 95/98 or Windows NT 4.0 or later.
- Monitor: Compatible with Windows 95/98 or Windows NT 4.0 or later. A monitor capable of displaying at least 256 colors (analog RGB) is recommended.

Model information

Name	Model
Waveform Editor	707751/HE

Internet
Yokogawa Electric WWW server:
http://www.yokogawa.co.jp/Measurement/English/

YOKOGAWA ◆

Warning
● Read the Instruction Manual thoroughly to ensure safe use of this product.

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