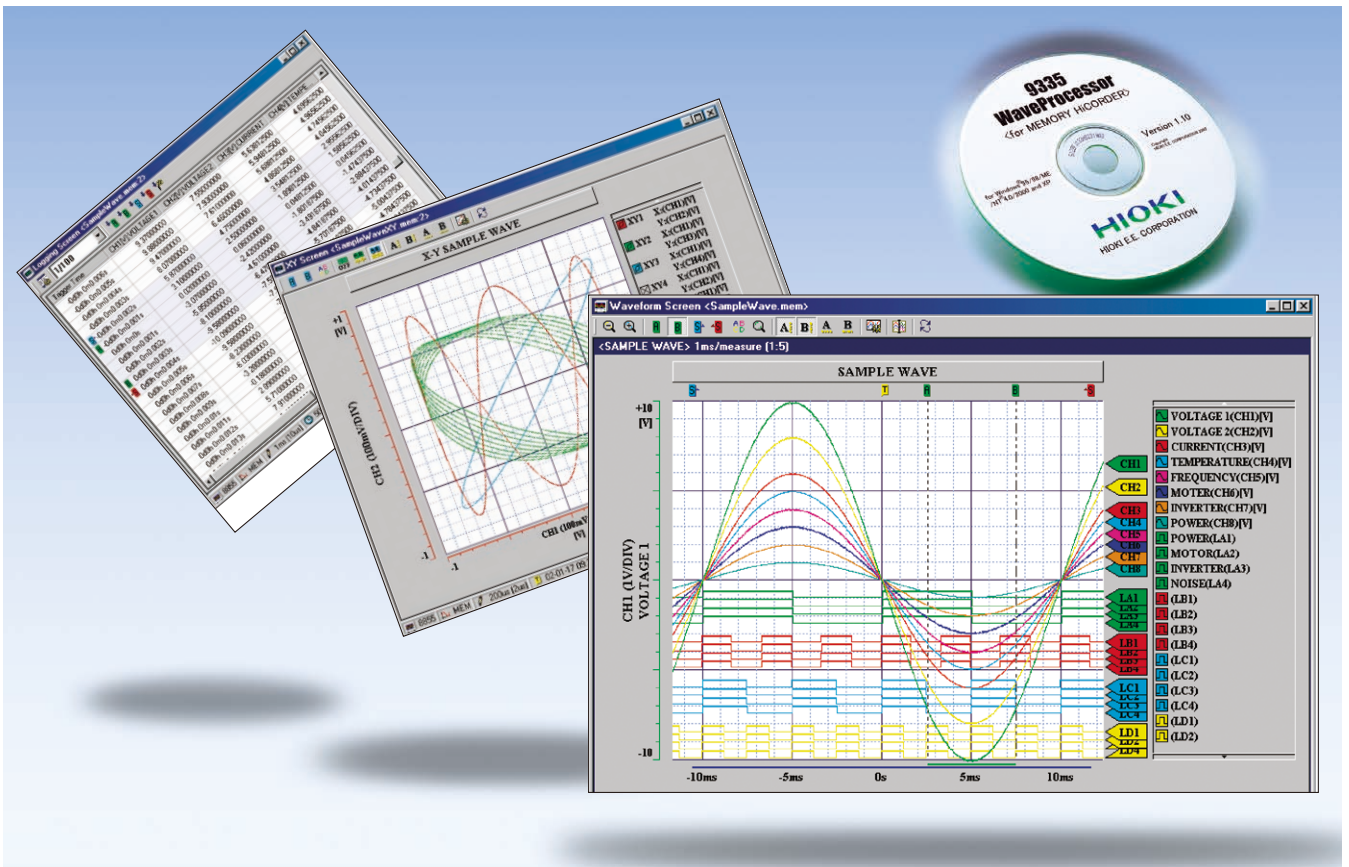


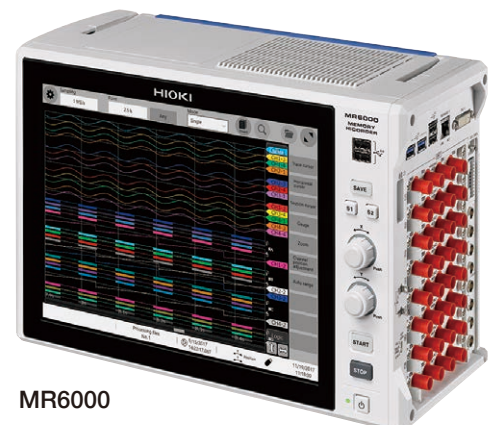
Waveform analysis software for the MEMORY HiCORDER series

## Highly detailed printing to see the slightest waveform fluctuation



## Display, convert, calculate and print large volumes of waveform data on a PC

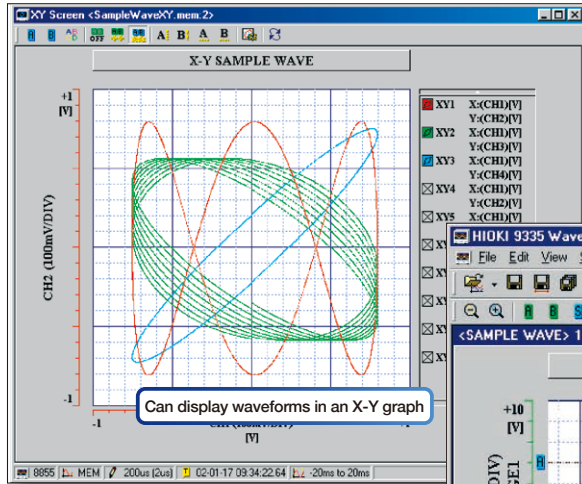
The WAVE PROCESSOR 9335 is an application software for Windows that enables users to display, print, convert, and calculate large volumes of waveform data that have been recorded and collected by instruments in the MEMORY HiCORDER series. This PC application also includes functions for checking and analyzing measured results, such as conditional search, numeric calculations, and cursor measurement. Detailed printing can be performed as if it were printed by the printer installed in the MR8848 MEMORY HiCORDER, very popular for its printer's quality.



MR6000

# Check waveforms and measured results on a PC

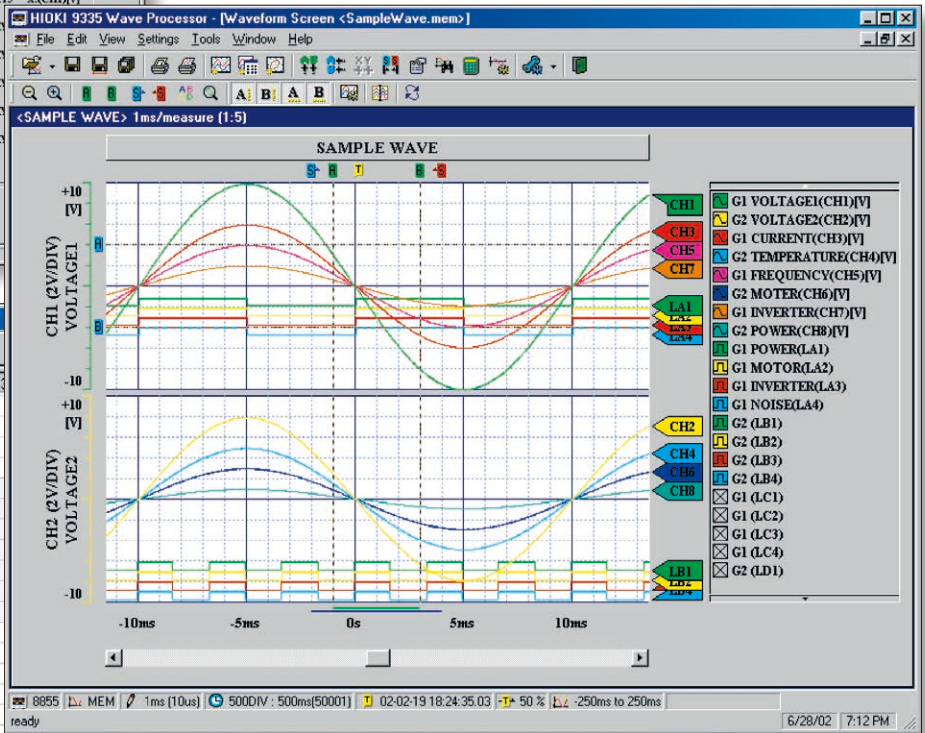
## Waveform display screen and X-Y display screen



The Wave Processor 9335 lets you load binary files from a MEMORY HiCORDER and then check the waveform or measured results on the waveform display screen and the numeric display screen. The 9335 also supports the memory recorder X-Y display function. The waveform display screen and the X-Y display screen also can be split into graphs for each channel.

Trigger Time	CH1[V]:VOLTAGE1	CH2[V]:VOLTAGE2	CH3
-0d0h 0m0.006s	9.37000000	7.55000000	
-0d0h 0m0.005s	9.88000000	7.93000000	
-0d0h 0m0.004s	9.47000000	7.61000000	
-0d0h 0m0.003s	8.07000000	6.46000000	
-0d0h 0m0.002s	5.87000000	4.75000000	
-0d0h 0m0.001s	3.10000000	2.50000000	
0d0h 0m0s	0.02000000	0.06000000	
0d0h 0m0.001s	-3.07000000	-2.42000000	
0d0h 0m0.002s	-5.85000000	-4.61000000	
0d0h 0m0.003s	-8.10000000	-6.47000000	
0d0h 0m0.004s	-9.58000000	-7.59000000	
0d0h 0m0.005s	-10.09000000	-7.99000000	
0d0h 0m0.01s	-0.18000000	-0.03000000	

The acquired data can be displayed as digital values on a timeline. Furthermore, waveform images and digital values can be displayed simultaneously.



CH	Comment	Unit	Mode	Range	LPF	AAF	Coupling
CH1	VOLTAGE1	8950 analog	VOLTAGE	1V	OFF	---	DC
CH2	VOLTAGE2	8952 RMS	VOLTAGE	1V	OFF	---	DC
CH3	CURRENT	8953 H-RESO	VOLTAGE	1V	OFF	OFF	DC
CH4	TEMPERATURE	8953 H-RESO	VOLTAGE	1V	OFF	OFF	DC
CH5	FREQUENCY	8950 analog	VOLTAGE	1V	OFF	---	DC
CH6	MOTER	8952 RMS	VOLTAGE	1V	OFF	---	DC
CH7	INVERTER	8953 H-RESO	VOLTAGE	1V	OFF	OFF	DC
CH8	POWER	8953 H-RESO	VOLTAGE	1V	OFF	OFF	DC

Waveform display screen

CH	A	B	B-A	Search
CH1[V]:VOLTAGE1	3.1V	-8.1V	-11.2V	20mV
CH2[V]:VOLTAGE2	2.9V	-8.4V	-8.9V	10mV
CH3[V]:CURRENT	1.83613V	-4.8410V	-6.74V	28.135mV
CH4[V]:TEMPERATURE	1.52653V	-4.01438V	-5.8V	45.625mV
CH5[V]:FREQUENCY	1.21V	-2.29V	-4.48V	-10mV
CH6[V]:MOTER	950mV	-2.39V	-3.3V	-10mV
CH7[V]:INVERTER	533.75mV	-1.61313V	-2.24650V	-10mV
CH8[V]:POWER	326.975mV	-766.25mV	-1.11V	-10mV
LA1-POWER	0	1		
LA2-MOTOR	0	1		
LA3-INVERTER	0	1		
LA4-NOISE	0	1		
LA5	0	0		

Trace cursor screen

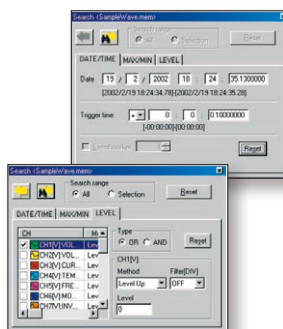
Voltage cursor screen

## Fast search by date, time, level, etc.

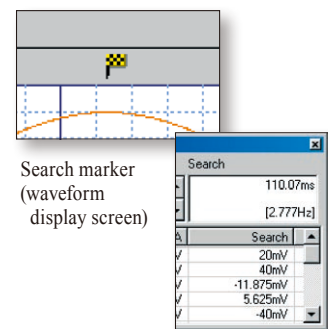
The Wave Processor 9335 allows you to jump to a position that satisfies certain conditions, and display the waveform and the measured value at that position. This function can also be used as a re-trigger function.

The following search criteria can also be specified:

- Date and time
- Maximum value
- Absolute maximum value
- Level up
- Window in
- Logic pattern (logic data only)
- Event mark
- Minimum value
- Absolute minimum value
- Level down
- Window out

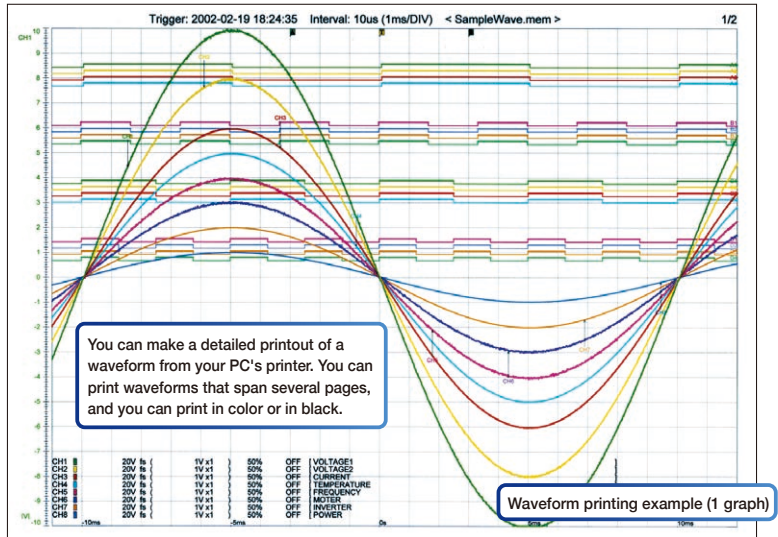
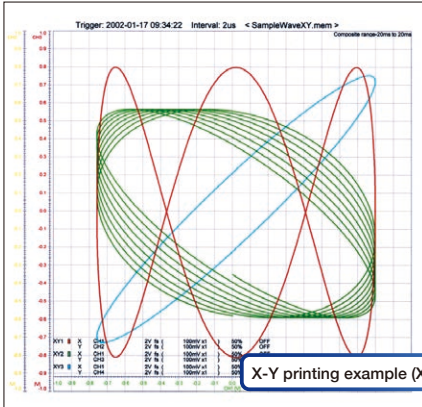


Settings screen for search criteria (Top: time search; bottom: conditional search)

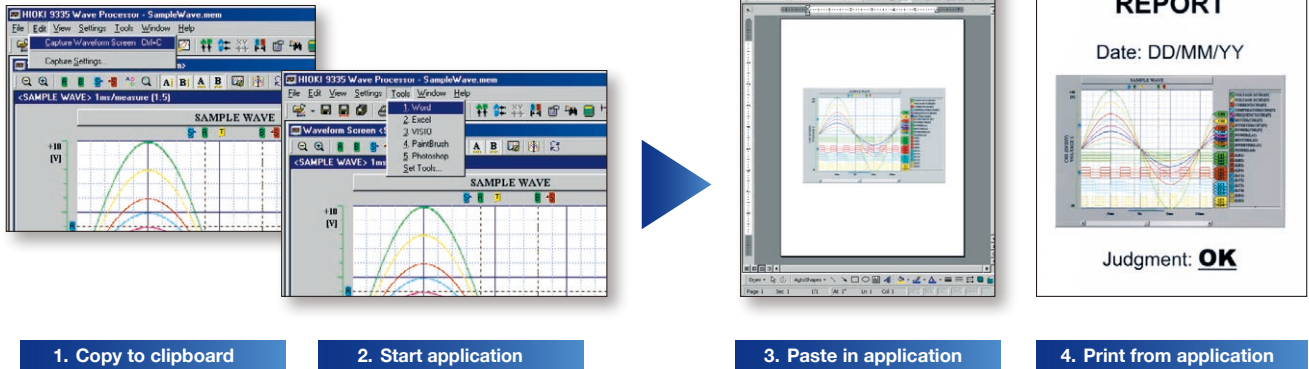


Measurement value at the search position (cursor screen)

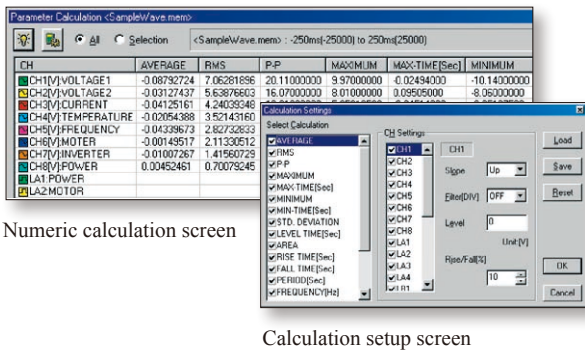
## Printing and copying the waveform screen



When a waveform is displayed on the screen, you can copy that waveform to the Windows clipboard, or make a hardcopy of the waveform. You can also paste the waveform onto text document, as register applications like Word that you often use so that you can quickly open a new document of your choice.



## Statistical functions make data evaluation easy

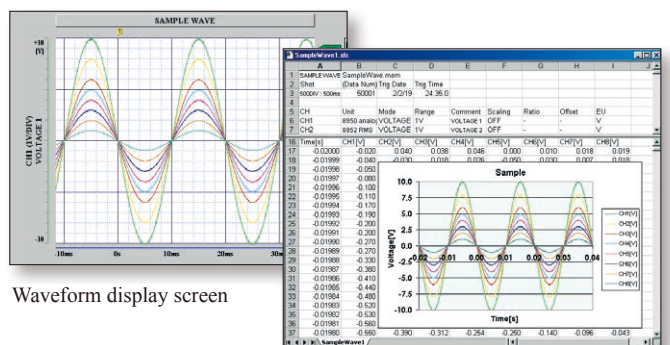


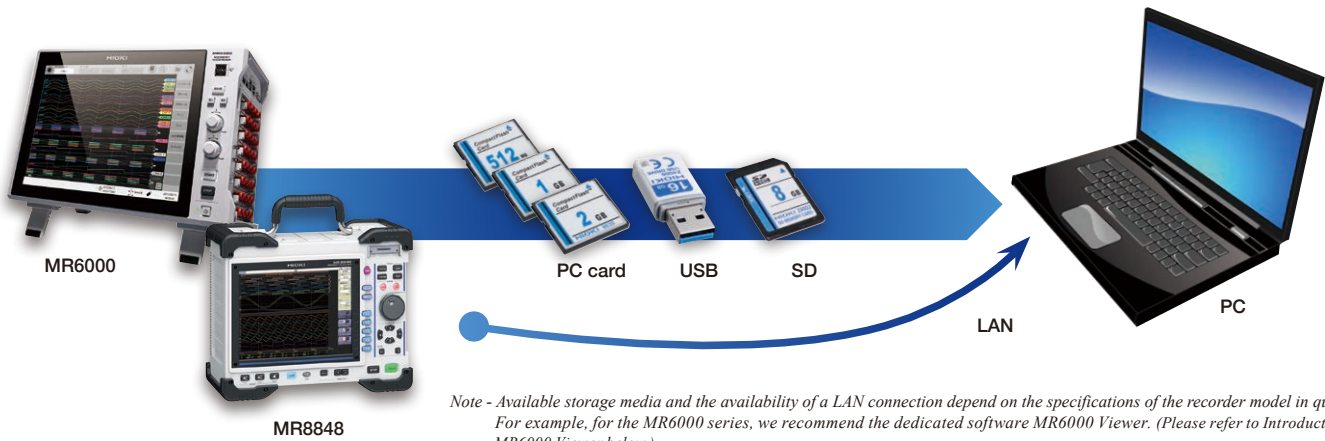
19 types of numerical calculations can be displayed for all the areas or a specific area only. In addition to effective value, maximum value, frequency, and other standard values, you can also calculate values for characteristics such as duty ratio and rise time.

Use the Wave Processor 9335 to calculate the following: average value, maximum value, minimum value, maximum time, minimum time, peak-to-peak value, effective value, area, standard deviation, on time, off time, number of times turned on, frequency, period, duty ratio, pulse width, rise time, fall time, time to level

## Converting data to CSV format

A displayed waveform can be converted into a CSV file, either in whole or in part. Variables such as cropping on/off, the cropping method, and the time axis format can be set. Converting to a CSV file allows you to use the data with spreadsheet software and other compatible software.





Note - Available storage media and the availability of a LAN connection depend on the specifications of the recorder model in question. For example, for the MR6000 series, we recommend the dedicated software MR6000 Viewer. (Please refer to Introduction of MR6000 Viewer below.)

## Displaying and printing measurement results through a PC

The WAVE PROCESSOR 9335 is a PC application software that can be used to display and print waveform data recorded by a MEMORY HiCORDER, such as the MR6000, MR8848, MR8875, or the MR8880. The application can load an especially large amount of waveform data when recorded by the MEMORY HiCORDER MR6000. (The file size you can handle may be less depending on the PC environment.) Waveform data files can be transferred from a MEMORY HiCORDER to a PC via a PC card, SD card, USB memory, or LAN connection.

\*Use only the storage media sold by HIOKI. Compatibility and performance are not guaranteed for storage media made by other manufacturers. You may be unable to read from or save data to such media.

### Model : WAVE PROCESSOR 9335

Model No. (Order Code)	(Note)
9335	CD version
9335-01	Downloadable version (license card)

### Specifications

Compatible devices	Model MR6000, MR6000-01, MR8848, MR8827, MR8875, MR8880, MR8870, MR8740T, MR8847-51/-52/-53, MR8847-01/-02/-03, 8847, 8861-50/8860-50 (not compatible with dual time-axis data of the 8860 series), 8855, 8870, 8842, 8841, 8840, 8835-01, 8835, 8826, 8825, 8808, 8807, 8808-50, 8807-50 (excluding harmonic analysis function), MR8730, MR8731, 8730, 8731, 8720, 8715, 8714
Supplied Media	One CD-R disc
Operating environment	Windows 11, 10
Display functions	[Waveform display] displays image of loaded waveform data on screen [X-Y display] memory (.MEM) and power (.POW) only [Digital value display] displays waveform data as digital values, and allows images and digital values to be displayed simultaneously [Cursor function] allows you to display the time and potential differences between cursors A and B, the time and electrical potential between each cursor, and the absolute and relative times [Scroll function] yes [Maximum number of channels] 256 analog channels, 128 logic channels [Gauge display] time gauge, voltage axis gauge [Graphical input] yes
File loading	[Loading data format] memory (.MEM, except for data stored in real time); recorder (.REC), effective value recorder (.RMS), power (.POW) [Maximum loadable file size] maximum size that can be stored by hardware (the maximum size that can be handled may be smaller in some PC environments.)
Data conversion functions	[Target data] all data, data between cursors [Data interval] simple interval (number of samples can be specified) [Data conversion] converts analog waveform data into numeric values, converts logic data into binary [Data conversion format] CSV format, tab delimited, space delimited (selectable when data is saved) [Conversion channel] can be selected when data is saved [Batch conversion] multiple files can be specified for batch conversion
Printing functions	[Printing format] can print with no partitions, 2 to 16 partitions, 2 to 16 columns, X-Y 1 to 4 partitions, gauges, channel comments [Print preview] yes [Waveform screen hard copy] yes [Compatible printers] any printer supported by the OS (color or black and white)
Parameter calculation functions	[Target data] all data, data between cursors [Calculation items] average value, effective value, peak value, maximum value, time of maximum value, minimum value, time of minimum value, rise time, fall time, standard deviation, area, cycle, frequency, pulse width, duty ratio, on time, off time, number of times turned on
Other	[Search functions] event mark, date and time (absolute time, time relative to trigger), maximum, minimum, absolute maximum, absolute minimum, level up/down, window in/out [Clipboard copy] waveform screen, cursor value, digital value, file information [Startup of other applications] other applications can be launched by specifying run file

Free download

## PC software MR6000 Viewer

Load data measured with the MR6000/MR6000-01 onto a PC to display waveforms and perform calculations

Intuitive operation

Waveform processing

FFT calculations

Utilize functionality similar to that provided by the MR6000 on a PC, including numerical calculations, waveform processing, and FFT calculations. (Some restrictions apply.)



Supported models	MR6000, MR6000-01, MR8848, MR8847A, MR8827, MR8740T
Supported operating system	Windows 11, 10 (64-bit) For other system requirements, please see the user manual.
Availability	Free download from the Hioki website

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