Information NEW

HIOKI

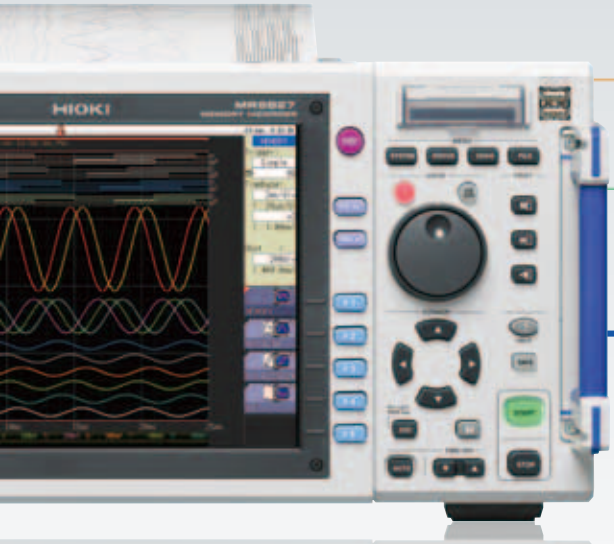
ARBITRARY WAVEFORM GENERATOR UNIT

U8793

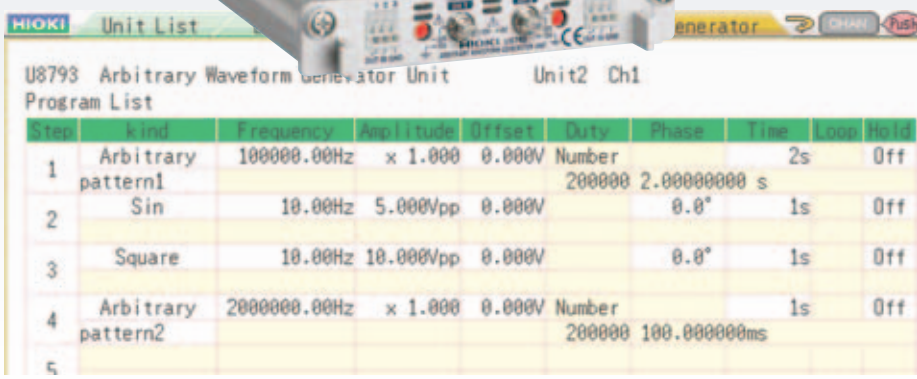
Recorders

Memory HiCorders make testing and experimentation convenient.

Combine recording and generating functions



Generate analog output of recorded waveforms



Step	kind	Frequency	Amplitude	Offset	Duty	Phase	Time	Loop	Hold
1	Arbitrary pattern1	100000.00Hz	x 1.000	0.000V	Number 200000	2.00000000 s	2s		Off
2	Sin	10.00Hz	5.000Vpp	0.000V		0.0°	1s		Off
3	Square	10.00Hz	10.000Vpp	0.000V		0.0°	1s		Off
4	Arbitrary pattern2	2000000.00Hz	x 1.000	0.000V	Number 200000	100.000000ms	1s		Off
5									

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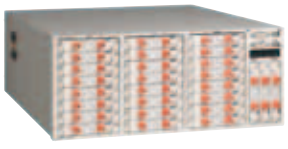
Arbitrary Waveform Generator Unit U8793

Compatible Memory HiCorders

MR8740/MR8741 Max. 54ch.



Measurement system recorder (Rack-mounted)

MR8827 Max. 32ch.

Compatible with multiple types and multiple circuits (Portable)

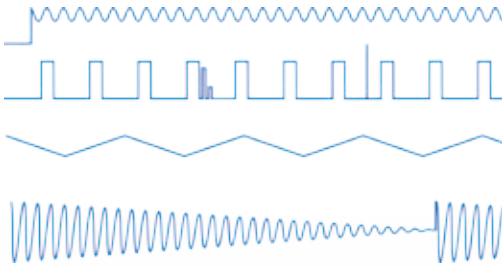
MR8847A Max. 16ch.

Available soon

New

Record and print waveforms on site immediately with convenient portable design

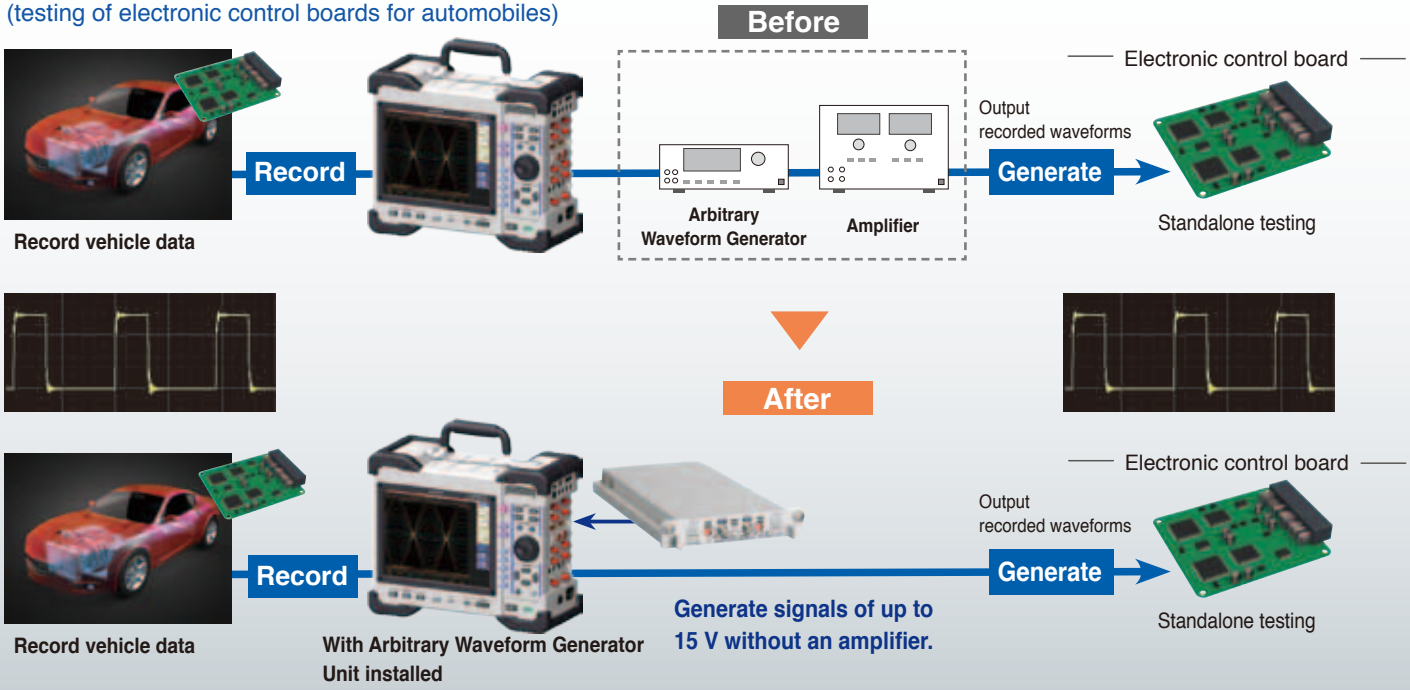
Output recorded waveforms without modification



By combining a Memory HiCorder and the Arbitrary Waveform Generator Unit, you can output actual waveforms captured from a test vehicle without modification for later use in standalone testing.
Furthermore, the U8793 can generate isolated output of up to 15 V without a generator or amplifier, which is traditionally necessary in order to generate output while varying the signal's amplitude and frequency.

Example applications

(testing of electronic control boards for automobiles)



Available soon

Arbitrary Waveform Generator Unit U8793

General Specifications

Number of output channels	2 channels per unit
Output format	Unbalanced output (floating)
Output terminal	SMB terminal
Dimensions and mass	Approx. 106 (W) × 19.8 (H) × 196.5 (D) mm, approx. 250 g
Accessory	User manual

Arbitrary Waveform Generation

Output waveforms	Waveforms measured with the Memory HiCorder MR8847, MR8847A, MR8827, MR8740, and MR8741 Waveforms created with Waveform Creation Software SF8000 Waveforms saved by the Arbitrary Waveform Generator 7075 Power Quality Analyzer PW3198 and power meter waveforms Waveforms created as CSV-format files *Logic waveforms are not supported.
Voltage axis resolution	16 bits
Waveform memory capacity	256 kW/ch. × 8 blocks
Low-pass filter	2-stage LPF, 50 Hz to 1 MHz (14 steps in 1-2-5 progression)
D/A refresh rate	Up to 2 MHz (from 0 to 2 MHz, 10 mHz resolution)
Delay	-250.000 to 250.000
Number of loops	∞, 1 to 50,000

Function Generator Mode

Output waveforms	Sine, square, pulse (variable duty), triangle, ramp, DC
Output frequency range	10 mHz to 100 kHz (setting resolution: 10 mHz)

Analog Output Specifications

(applicable to both custom waveform generation and function generation mode)

Maximum output voltage	-10 V to 15 V
Amplitude setting range	0 V to 20 V p-p (setting resolution: 1 mV)
DC offset setting range	-10 V to 15 V
Output impedance	1 Ω or less
Maximum output current	±10 mA (per channel)
Output type	Waveform output, open, shorted

Other Specifications

Channel synchronization	Set phase between unit channels or between units
Sweep functions	Frequency sweep, amplitude sweep, offset sweep (can be set simultaneously), duty sweep (during pulse output) *Up and down sweep operation is supported. (Target: Non-DC function generation waveforms and custom waveforms)
Program functions	Sequence length: Max. 128 steps (Hold on/off can be set by step.) Number of step loops: 1 to 1,000 Number of overall loops: 1 to 50,000 or ∞

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All information correct as of Sept. 18, 2015. All specifications are subject to change without notice.

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