



Exceed All Limits

Fast and powerful - the best specs in the history of Memory HiCorders



Measurement	Blazing fast, never-fail sampling High-speed isolation measurement at 200 MS/s
Storage	Superior processing capacity lets you save data while measuring Save data in real time, 32 times faster than conventional models
Usability	User-friendly design for accurate and smooth operation





Overwhelming high speed technology A revolutionary approach to measurement, recording and analysis

MEMORY HICORDER MR6000

The MR6000 overcomes all barriers to reach new ground and meet challenges that are yet to be seen.

World class specifications, operability and design - Hioki's newest memory recorder has been re-engineered from top to bottom, delivering unprecedented performance that will change how you look at waveform recording.

Redefining the world standard for recorders - that is the Hioki MR6000.

200MS/s

High-speed optical isolated measurement

Instant saving

Real-time save

Intuitive operation

Touch screen







Series-Leading Measurement Performance

High-speed isolated measurement at 200 MS/s Up to 32 ch in the analog unit and up to 128 ch in the logic unit

The Hioki Memory HiCorder lineup now includes a powerful input unit that unlocks the full measuring potential of the MR6000. The High Speed Analog Unit U8976 boasts the highest sampling rate in its entire series, an order of magnitude faster than conventional models, enabling the unit to perform isolated measurement at 200 MS/s. Combine multiple modules of the 4ch Analog Unit U8975, which provides 4 channels of input with a speed of 5 MS/s at 16 bits, to perform multi-channel measurements up to 32 channels. Make the most of the Memory HiCorder's capabilities as we continue its development to meet your advanced measurement needs.

* 200 MS/s measurements can be achieved even if a unit other than the U8976 is connected at the same time. However, the data update rate will not exceed the maximum sampling rate of the unit.





Blazing fast, never-fail sampling Record high-precision waveforms

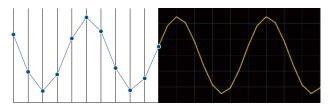


HIGH SPEED ANALOG UNIT U8976

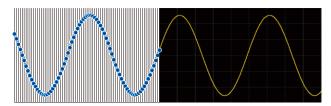
You need accurate detection of switching waveforms in inverter evaluation tests, which requires a high level of efficiency. We developed the High Speed Analog Unit U8976 to meet those needs. In addition to high-speed sampling at 200 MS/s, the unit supports frequency bands up to 30 MHz. Adapted to the Memory HiCorder's direct input feature, it supports inputs up to 400 V DC.

	Available recor duration	$\rangle\rangle$	5-second recording			
	Sampling rate	1 ch	2 ch	3 to 4 ch	5 to 8 ch	9 to 16 ch
	200 MS/s	5 s	2.5 s	1 s	0.5 s	0.25 s
_	100 MS/s	10 s	5 s	2 s	1 s	0.5 s
	50 MS/s	20 s	10 s	4 s	2 s	1 s
	20 MS/s	50 s	25 s	10 s	5 s	2.5 s
	:	:	:	:	:	:

^{*} Internal memory used * U8976 installed in 8 slots



Conventional sampling (20 MS/s)



200 MS/s High-speed sampling



Isolated input with optical isolation devices

Connections between analog input channels, and between the input channel and the main unit, are fully isolated. This means that, unlike an oscilloscope, measurements can be made without concern with negative effects from potential differences.

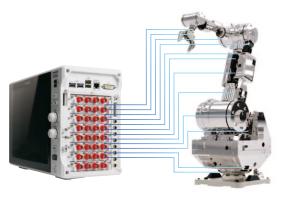
Install up to 8 units with 4 channels each Measure multiple points simultaneously



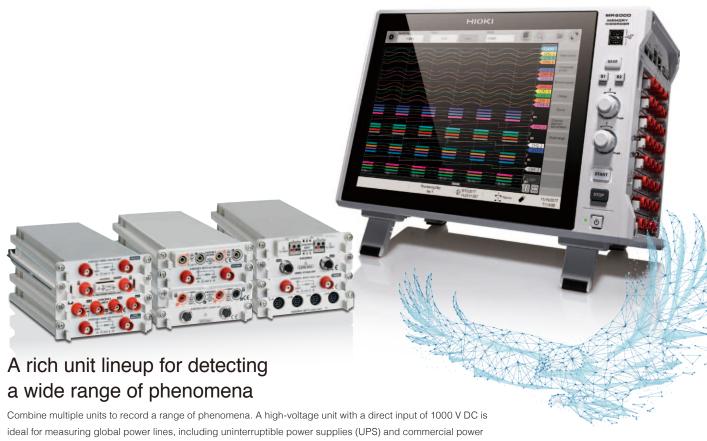


4CH ANALOG UNIT U8975 4CH ANALOG UNIT U8978

Our lineup now includes two types of analog units with 4-channel input in a single device. The U8975 supports direct inputs up to 200 V DC, and the U8978 is effective for accurately capturing sensor output using its 100 mV f.s. high sensitivity range. Both units provide a sampling rate of 5 MHz and 16-bit resolution.



Simultaneous measurement of multiple locations across 32 channels at 5 MS/s



Combine multiple units to record a range of phenomena. A high-voltage unit with a direct input of 1000 V DC is ideal for measuring global power lines, including uninterruptible power supplies (UPS) and commercial power supplies. Use multiple logic units to measure relay ON/OFF signals or PLC (programmable logic controller) signals across up to 128 channels simultaneously.

Unit interchangeability

The unit types compatible with the MR6000 are identical to the ones compatible with the MEMORY HiCORDER MR8827, MR8847A, MR8740, MR8741, and MR8740-50. Use any of the 15 types listed in the unit selection guide below. However, the U8977, U8978, and U8979 can only be used with the MR6000.

Unit selection guide (15 types)

available for Ver 2.10 or later

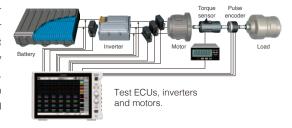
										Max.		
Measured signal	Model	Description			Bandwidth		DC accuracy	Max. input voltage	Sensitivity (#1)		Isolation	Supplement
Voltage (high speed)	U8976	High-Speed Analog Unit	2 ch	200 MS/s	DC to 30 MHz	12 bits	±0.5% f.s.	400 V DC 1000 V DC (#2)	0.0625 mV	100 mV f.s.	Yes	n/a
Voltage	8966	Analog Unit	2 ch	20 MS/s	DC to 5 MHz	12 bits	±0.5% f.s.	400 V DC	0.05 mV	100 mV f.s.	Yes	n/a
Voltage (4ch)	U8975	4ch Analog Unit	4 ch	5 MS/s	DC to 2 MHz	16 bits	±0.1% f.s.	200 V DC	0.125 mV	4 V f.s.	Yes	n/a
Voltage (4ch, high resolution)	U8978	4ch Analog Unit	4 ch	5 MS/s	DC to 2 MHz	16 bits	±0.3% f.s.	40 V DC	3.125 uV	100 mV f.s.	Yes	n/a
Voltage (high resolution)	8968	High Resolution Unit	2 ch	1 MS/s	DC to 100 kHz	16 bits	±0.3% f.s.	400 V DC	3.125 uV	100 mV f.s.	Yes	with AAF
Voltage (DC, RMS)	8972	DC/RMS Unit	2 ch	1 MS/s	DC to 400 kHz	12 bits	±0.5% f.s.	400 V DC	0.05 mV	100 mV f.s.	Yes	with RMS
Voltage (high voltage)	U8974	High Voltage Unit	2 ch	1 MS/s	DC to 100 kHz	16 bits	±0.25% f.s.	1000 V DC 700 V AC	0.125 mV	4 V f.s.	Yes	CAT IV 600 '
Voltage (high resolution)	MR8990	Digital Voltmeter Unit	2 ch	2 ms	n/a	24 bits	±0.01% rdg. ±0.0025% f.s.	500 V DC	0.1 uV	100 mV f.s.	Yes	CAT II 300 \ AC/DC
Current	U8977	Current Unit	3ch	5 MS/s	DC to 2 MHz	16 bits	±0.3% f.s.	Current sensor only			n/a	Max. 3 Units
Current	8971	Current Unit	2 ch	1 MS/s	DC to 100 kHz	12 bits	±0.65% f.s.	Current sensor only			n/a	with RMS Max. 4 Units
Temperature	8967	Temperature Unit	2 ch	1.2 ms	DC	16 bits	Detailed reference	Thermocouples only	0.01°C	200°C (392°F)f.s.	Yes	n/a
Strain	U8969	Strain Unit	2 ch	200 kS/s	DC to 20 kHz	16 bits	±0.5% f.s. ±4 με	Strain only	0.016 με	400 μεf.s.	Yes	n/a
Frequency	8970	Frequency Unit	2 ch	200 kS/s	DC to 100 kHz (#3)	16 bits	n/a	400 V DC	0.002 Hz	Depends on mode	Yes	n/a
Acceleration	U8979	Charge Unit	2 ch	200 kS/s	DC to 50 kHz (DC) 1 Hz to 50 kHz (AC)	16 bits	±0.5% f.s. (Voltage) ±2.0% f.s. (Acceleration)	40 V DC			Yes	Supports TED
Logic	8973	Logic Unit	4 probes (16 ch)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Requires 9320- 9327 or MR932
	Voltage (high speed) Voltage Voltage (4ch) Voltage (4ch, high resolution) Voltage (high resolution) Voltage (high resolution) Voltage (DC, RMS) Voltage (high voltage) Voltage (high resolution) Current Current Temperature Strain Frequency Acceleration	signal Model Voltage (high speed) U8976 Voltage 8966 Voltage (4ch) U8975 Voltage (4ch, high resolution) U8978 Voltage (high resolution) 8968 Voltage (DC, RMS) 8972 Voltage (high voltage) U8974 Voltage (high resolution) MR8990 Current U8977 Current 8971 Temperature 8967 Strain U8969 Frequency 8970 Acceleration U8979	signal Model Description Voltage (high speed) U8976 High-Speed Analog Unit Voltage 8966 Analog Unit Voltage (4ch) U8975 4ch Analog Unit Voltage (4ch, high resolution) U8978 4ch Analog Unit Voltage (high resolution) 8968 High Resolution Unit Voltage (DC, RMS) 8972 DC/RMS Unit Voltage (high voltage) U8974 High Voltage Unit Voltage (high resolution) MR8990 Digital Voltmeter Unit Current U8977 Current Unit Current 8971 Current Unit Temperature 8969 Strain Unit Frequency 8970 Frequency Unit Acceleration U8979 Charge Unit	signal Model Description channels Voltage (high speed) U8976 High-Speed Analog Unit Analog Unit Analog Unit Analog Unit Analog Unit Ach Unit Ach Unit Ach Unit Ach Unit Ach Unit Ach Unit Analog Unit Ach Unit Ach Unit Analog Unit Ach Unit Ach Unit Ach Unit Analog Unit Ach Unit Analog Unit Ach Unit Ach Unit Analog Unit Ach Unit Analog Unit Ach Unit Analog Unit Ach Unit Ach Unit Ach Unit Analog Unit Ach Unit Ach Unit Ach Unit Analog Unit Ach Unit Ach Unit Ach Unit Ach Unit Ach Unit Analog Unit Ach Unit Ac	signal Model Description channels sampling Voltage (high speed) U8976 High-Speed Analog Unit Analog Unit 2 ch 200 MS/s 2 ch 200 MS/s Voltage (4ch) U8975 4ch Analog Unit 4 ch 5 MS/s Voltage (4ch, high resolution) U8978 4ch Analog Unit 4 ch 5 MS/s Voltage (4ch, high resolution) 8968 High Resolution Unit 2 ch 1 MS/s Voltage (DC, RMS) 8972 DC/RMS Unit 2 ch 1 MS/s Voltage (high voltage) U8974 High Voltage Unit 2 ch 1 MS/s Voltage (high resolution) MR8990 Digital Voltmeter Unit 2 ch 2 ms Current U8977 Current Unit 3 ch 5 MS/s Current 8971 Current Unit 2 ch 1 MS/s Temperature 8967 Temperature Unit 2 ch 1.2 ms Strain U8969 Strain Unit 2 ch 200 kS/s Frequency 8970 Frequency Unit 2 ch 200 kS/s Logic 4 probes 200 kS/s	signal Model Description channels sampling Bandwidth Voltage (high speed) U8976 High-Speed Analog Unit 2 ch 200 MS/s DC to 30 MHz Voltage 8966 Analog Unit 2 ch 20 MS/s DC to 5 MHz Voltage (4ch) U8975 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz Voltage (4ch, high resolution) U8978 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz Voltage (high resolution) B968 High Resolution Unit 2 ch 1 MS/s DC to 100 kHz Voltage (DC, RMS) 8972 DC/RMS Unit 2 ch 1 MS/s DC to 400 kHz Voltage (high voltage) U8974 High Voltage Unit 2 ch 1 MS/s DC to 100 kHz Voltage (high resolution) MR8990 Digital Voltmeter Unit 2 ch 2 ms n/a Current U8977 Current Unit 2 ch 1 MS/s DC to 2 MHz Current 8971 Current Unit 2 ch 1 MS/s DC to 100 kHz	signal Model Description channels sampling Bandwidth resolution Voltage (high speed) U8976 High-Speed Analog Unit Analog Unit 2 ch 200 MS/s DC to 30 MHz 12 bits Voltage (4ch) 8966 Analog Unit 2 ch 20 MS/s DC to 5 MHz 12 bits Voltage (4ch) U8975 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits Voltage (4ch), high resolution (high resolution) U8978 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits Voltage (high resolution) 8968 High Resolution Unit 2 ch 1 MS/s DC to 100 kHz 16 bits Voltage (DC, RMS) 8972 DC/RMS Unit 2 ch 1 MS/s DC to 400 kHz 12 bits Voltage (high voltage) U8974 High Voltage Unit 2 ch 1 MS/s DC to 100 kHz 16 bits Voltage (high voltage) U8977 Current Unit 2 ch 2 ms n/a 24 bits Current U8977 Current Unit 2 ch <td>Signal Model Description channels sampling Barrowdorm resolution De accuracy Voltage (high speed) U8976 High-Speed Analog Unit Analog Unit 2 ch 200 MS/s DC to 30 MHz 12 bits ±0.5% f.s. Voltage (Ach) 8966 Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits ±0.1% f.s. Voltage (Ach, high resolution) (High resolution) U8978 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits ±0.3% f.s. Voltage (High resolution) (High resolution) 8968 High Resolution Unit 2 ch 1 MS/s DC to 100 kHz 16 bits ±0.3% f.s. Voltage (DC, RMS) 8972 DC/RMS Unit 2 ch 1 MS/s DC to 400 kHz 12 bits ±0.5% f.s. Voltage (high voltage) U8974 Unit 2 ch 1 MS/s DC to 100 kHz 16 bits ±0.25% f.s. Current U8977 Current Unit 3 ch 5 MS/s DC to 2 MHz 16 bits ±0.01% rdg. 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Input Sensitivity Se</td>	Signal Model Description channels sampling Barrowdorm resolution De accuracy Voltage (high speed) U8976 High-Speed Analog Unit Analog Unit 2 ch 200 MS/s DC to 30 MHz 12 bits ±0.5% f.s. Voltage (Ach) 8966 Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits ±0.1% f.s. Voltage (Ach, high resolution) (High resolution) U8978 4ch Analog Unit 4 ch 5 MS/s DC to 2 MHz 16 bits ±0.3% f.s. Voltage (High resolution) (High resolution) 8968 High Resolution Unit 2 ch 1 MS/s DC to 100 kHz 16 bits ±0.3% f.s. Voltage (DC, RMS) 8972 DC/RMS Unit 2 ch 1 MS/s DC to 400 kHz 12 bits ±0.5% f.s. Voltage (high voltage) U8974 Unit 2 ch 1 MS/s DC to 100 kHz 16 bits ±0.25% f.s. Current U8977 Current Unit 3 ch 5 MS/s DC to 2 MHz 16 bits ±0.01% rdg. 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Concentration of sensing technologies with superior accuracy: A rich set of functions suitable for all measuring purposes

Sensing technology that serves as the key to reliable measurement data is essential for detecting various phenomena across multiple channels. The MR6000 is a high-spec model that fully leverages the performance of Hioki's high-precision sensors.



Combine the Current Unit (8971 or U8977) and a current probe or current sensor designed and manufactured by Hioki to use the system over a wide temperature range or measure large currents with a high level of precision at solar power plants or development sites for EVs/HEVs. The convenient, built-in sensor identification function lets you simply connect the sensor to easily configure the scaling settings through automatic recognition. Combine the High Speed Analog Unit U8976 and a Hioki current probe or clamp-on probe for high-precision wideband observation of current waveforms. Furthermore, install the optional Probe Power Unit Z5021 to drive these probes from the MR6000 main unit.



Triggers that detect targeted events

Set triggers on any channel to record data whenever an event occurs.

Level trigger

Window trigger

Compares to one voltage value.

Voltage drop trigger

Period trigger

Monitors periods.

Glitch trigger

Detects anomalies in pulses.

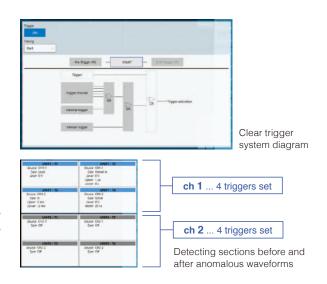
Pattern trigger

Compares when the logic signal is ON/OFF.

Setting multiple triggers for a single channel

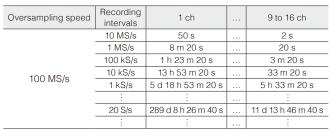
Set up to 4 triggers for a single channel. If, for instance, you set the glitch, level, window-in, and window-out triggers for the same input waveform, that waveform is monitored according to the set trigger conditions.



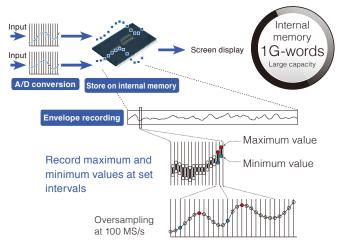


Observe fluctuations over the long-term with high-speed sampling

The system uses the envelope measurement method to record maximum and minimum values at set intervals while performing oversampling at 100 MS/s. The internal memory has a capacity of 1 G-words, which ensures that the measuring process continues for a long time without any data losses. Save data in real time while measuring.



* Limitations apply to measurable time when the U8975, U8977, U8978, or MR8990 is in use, and when performing real-time waveform processing.



Equipped with a powerful data analysis function

FFT calculation function (Equipped from Ver. 2.10)

NEW ALL Installed in MR6000, MR6000-01

Analyze 8 phenomena at the same time with a single measurement. Multiple FFT analyses of signals input from different channels let you investigate the frequency components that appeared for each channel at a single point in time. Similarly, conduct a variety of analyses for a single signal simultaneously.



FFT calculation 4-split screen

calculation results.

FFT analysis directly from the memory waveform

Perform FFT analysis from measured data. Simply touch the screen to

specify the starting point for analysis, while simultaneously viewing the



Waveform in chronological order

Chronological order + FFT calculation screen

Waveform processing function (Equipped from Ver. 2.10)

NEW ALL Installed in MR6000, MR6000-01

Perform complex calculations using previously loaded waveforms. Make up to 16 calculations, including logarithmic conversions, various filters, and trigonometric functions, simultaneously. You can also compute the average value, maximum value, or minimum value of the loaded data and reuse the results in further waveform processing operations.

Z1	Comment	Half-wave rectification
On	Formula	(CH(1,1)+ABS(CH(1,1)))/2
Z2	Comment	Capacitance
ON	Formula	INT(CH(2,1))/CH(2,2)
Z 3	Comment	Inductance
Z3 ON		Inductance LPFFIR(CH(3,1),500,200,10)/DIF(LPFFIR(CH(3,2),500,200,10))

Supports complex calculations

Numerical calculation function

ALL Installed in MR6000, MR6000-01

Analyze measured waveforms with numerical parameters. The MR6000 features several new numerical calculation functions including those for identifying overshoot and undershoot. In addition to analog and logic channels, the MR6000 can also perform calculations on real-time waveform processing channels, and features a numerical comparator function.

Average value	Rise time	Duty ratio	Amplitude
RMS value	Fall time	Pulse count	Overshoot
Peak to peak value	Standard deviation	Four arithmetic operations	Undershoot
Maximum value	Area value	Time difference	+Width
Time to maximum value	X-Y area value	Phase difference	-Width
Minimum value	Specified level time	High-level	Burst width
Time to minimum value	Specified time level	Low-level	Integration values
Period	Pulse width	Median value	XY waveform angle
Frequency			

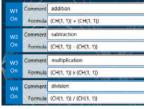
Simultaneous calculations of up to 16 out of a total of 33 computations

Real-time waveform processing

ONLY Installed in MR6000-01

Calculate measurement data during measurement

The MR6000-01 further features a powerful technology designed for robust real-time waveform processing. This function performs the four arithmetic operations (addition, subtraction, multiplication, and division), differentiation calculations, or integration calculations during the measuring process, letting you use check the calculated results via waveforms while measuring. Results can be further processed after measurement and saved



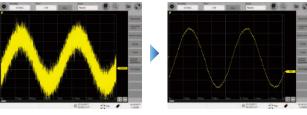


Digital filter calculation

ONLY Installed in MR6000-01

Observe clear waveforms without noise

Remove harmonic noise or specific frequency noise from measurement data. Use it to eliminate the noise that cannot be resolved with the standard filter installed in the unit.



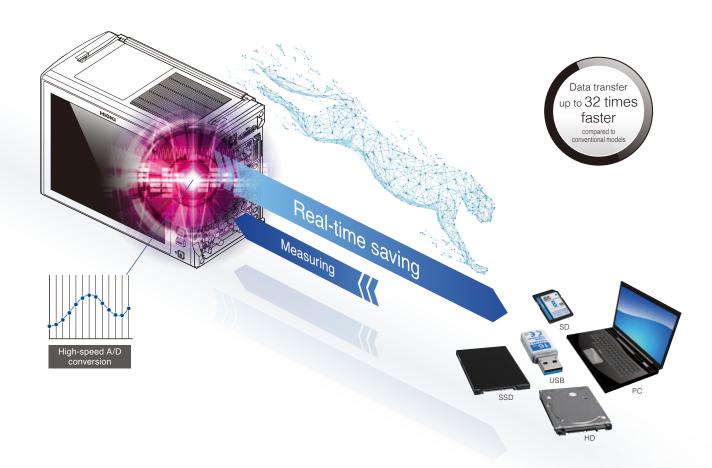
Digital filter disabled Digital filter enabled

Highest Transfer Speed in the Entire Series

Data transfer up to 32 times faster compared to conventional models Outstanding real-time save function that saves data during measurement

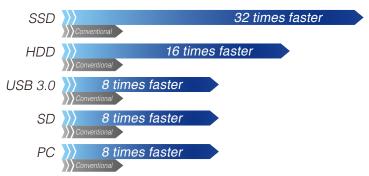
The MR6000 features a brand new interface that makes data transfer up to 32 times faster.

In addition, faster internal processing allows data to be saved to external media in real time during measurement.



Drastically increased data transfer speed

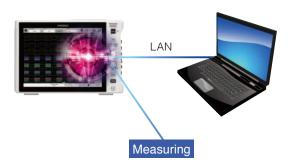
Data transfer to storage devices is now up to 32 times faster. While conventional models transferred data at 1 MS/s in a single channel, the MR6000 transfers data for 32 channels



*Compared to other recorders in the Hioki Memory HiCorder series.

Saving data directly to your PC

Transfer measurement data directly to your PC by using the FTP sending function together with the real-time save function. This makes it easier to observe data after the measuring process.



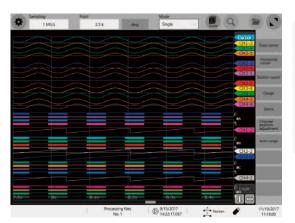
^{*}Results vary according to measurement conditions

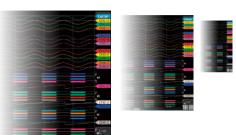
Longest Continuous Recording in the Entire Series

Long-term recording and high-speed sampling in multiple channels All in a single measurement

The real-time save function controls the available measurement duration without relying on the capacity of the internal storage memory.

For long-term recording, we recommend a high-capacity SSD or HD unit. You can also use a more convenient USB memory stick or SD memory card. All phenomena can be recorded at a high sampling rate over a long period of time. This feature is ideal for situations where it is hard to predict the nature of a phenomenon or for measurements that can only be performed once. When saved in real time, data is split into several 512 MB files.







1 hour of continuous recording across as many as 32 channels at 1 MS/s

Available real-time save duration for various media

Save destination	Sampling speed	Number of channels	Available measurement duration	Maximum sampling rate for real-time save *1
SSD UNIT U8332 (256 GB)	1 MS/s	32 ch	Approx. 1 h	20 MS/s
HD UNIT U8333 (320 GB)	1 MS/s	16 ch	Approx. 2 h 40 min	10 MS/s
USB DRIVE Z4006 (16 GB)	1 MS/s	8 ch	Approx. 16 min	5 MS/s *2
SD MEMORY CARD Z4003 (8 GB)	1 MS/s	8 ch	Approx. 8 min	5 MS/s
PC	1 MS/s	8 ch	Depends on PC capacity	5 MS/s

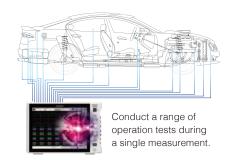
Maximum recording duration for real-time save

with an SSD UNIT U8332/Reference values d: days h: hours min: minutes s: seconds Sampling Number of channels used 8 16 32 20 MS/s 53 min 20 s 1 h 46 min 40 s 53 min 20 s 1 MS/s 17 h 46 min 40 s 8 h 53 min 20 s 4 h 26 min 40 s 2 h 13 min 20 s 1 h 6 min 40 s 500 kS/s 1 d 11 h 33 min 20 s 17 h 46 min 40 s 8 h 53 min 20 s 4 h 26 min 40 s 2 h 13 min 20 s 200 kS/s 3 d 16 h 53 min 20 s 1 d 20 h 26 min 40 s 11 h 6 min 40 s 5 h 33 min 20 s 22 h 13 min 20 s 100 kS/s 7d9h46min40s 3 d 16 h 53 min 20 s 1 d 20 h 26 min 40 s 22 h 13 min 20 s 11 h 6 min 40 s 50 kS/s 14 d 19 h 33 min 20 s 7 d 9 h 46 min 40 s 3 d 16 h 53 min 20 s 1 d 20 h 26 min 40 s 22 h 13 min 20 s 20 kS/s 37 d 0 h 53 min 20 s 18 d 12 h 26 min 40 s 9 d 6 h 13 min 20 s 4 d 15 h 6 min 40 s 2 d 7 h 33 min 20 s 10 kS/s 74 d 1 h 46 min 40 s 37 d 0 h 53 min 20 s 18 d 12 h 26 min 40 s 9 d 6 h 13 min 20 s 4 d 15 h 6 min 40 s 148 d 3 h 33 min 20 s 5 kS/s 74 d 1 h 46 min 40 s 37 d 0 h 53 min 20 s 18 d 12 h 26 min 40 s 9d6h13min20s 2 kS/s 185 d 4 h 26 min 40 s 92 d 14 h 13 min 20 s 46 d 7 h 6 min 40 s 23 d 3 h 33 min 20 s 1 kS/s 185 d 4 h 26 min 40 s 92 d 14 h 13 min 20 s 46 d 7 h 6 min 40 s 500 S/s 92 d 14 h 13 min 20 s 231 d 11 h 33 min 20 s 100 S/s

Long-term measurements for more efficient testing

The real-time save function boasts high-speed sampling and multi-channel measurements.

Perform an approximately 1-hour measurement at 20 MS/s in 2 channels or 1 MS/s in 32 channels.



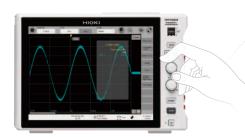


Fast and convenient touch screen Operation as smooth as silk

The capacitive touch screen delivers intuitive operability.

Select a setting item directly by tapping the screen, and use your fingers to enlarge the part you want to see.

The new user interface makes setting measurement items for multiple channels easier compared to the more complicated conventional models where you had to press the keys several times to configure a setting.



▲ Use the rotary knobs to move the tracing cursor.



▲ Simply tap the screen to switch between the items you want to set.

Easy method for pinpointing a specific waveform within large amounts of measurement data

Set the peak values or trigger conditions you want to search for to have the relevant data retrieved and displayed automatically.

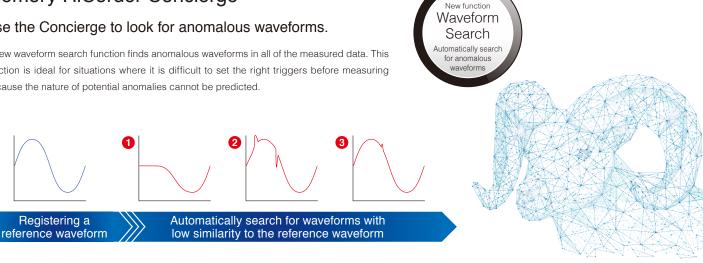
Our new Memory HiCorder Concierge function automatically calculates the characteristics of the reference waveform you have set and searches all of the measured data to detect and array any waveforms with low similarity as anomalous waveforms.

This drastically reduces the amount of time required to search for anomalies by eliminating the need to scroll through measured waveforms and check them visually.

Memory HiCorder Concierge

Use the Concierge to look for anomalous waveforms.

A new waveform search function finds anomalous waveforms in all of the measured data. This function is ideal for situations where it is difficult to set the right triggers before measuring because the nature of potential anomalies cannot be predicted.



Rich set of search functions

Peak search

Search for the maximum value, minimum value, local maxima, or local minima in all of the measured data, and mark the search point in the waveform.

Trigger search

Set trigger conditions for all of the measured data again to search for points where the conditions are fulfilled, even if no triggers were set during the measuring process.

Jump

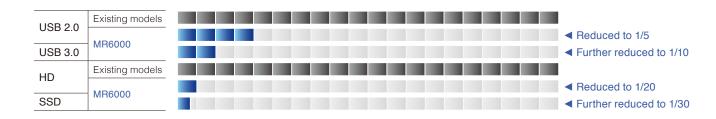
Jump to an event mark you made while measuring, to the cursor position on the display, or to the location measured at a specified time.

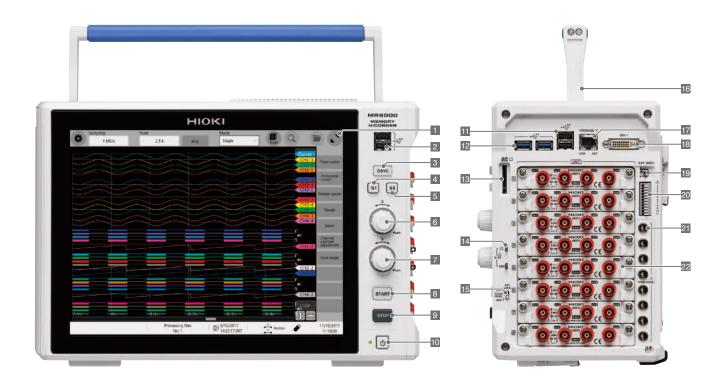
Radically improved data saving time

Transferring very large amounts of data measured over a long period of time used to be very time-consuming.

The MR6000 features a brand new interface and faster internal processing, reducing the time required to save measurement data to media.

This saves you the trouble of waiting for data to be saved and improves work efficiency.





Multifunctional Interface

To begin the measuring process

23

Open or close the top panel of the main unit. Z4006 USB DRIVE installable.

For USB 3.0 connectors

(USB memory sticks only)

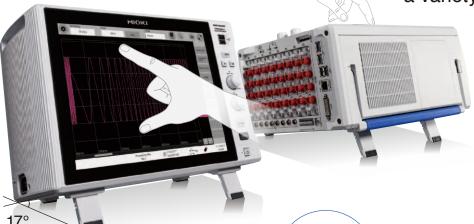
Only 6 keys in total New recorder design

Use the touch screen to configure all the basic settings.

1000 BASE-T connector 12.1-inch capacitive touch screen For importing the set recording length For connecting to the network via TFT color LCD display and stopping the measuring process LAN cable USB 2.0 connector x2 Power button DVI terminal For connecting a USB memory stick, USB mouse, or USB keyboard For turning the power on or off For outputting the screen display SAVE button USB 2.0 connector x2 External sampling terminal For connecting a USB memory stick, USB mouse, or USB keyboard For inputting various external For displaying the manual save sampling signals dialog box USB 3.0 connector x2 External control terminal Shortcut button 1 For connecting a USB memory stick, For inputting various external For registering frequently used USB mouse, or USB keyboard signals to control the device settings Dedicated power supply terminal for current clamp Shortcut button 2 SD MEMORY CARD slot For registering frequently used For inserting SD memory cards For supplying power to the settings current sensor (Option) Rotary knob X Output terminal for probe Various units For moving the tracing cursor and compensation signals Install input units appropriate for For outputting 10:1 or 100:1 PROBE compensation signals scrolling or zooming the waveform in the measurement target and out **KEY LOCK** Air inlet Rotary knob Y For changing the position and zooming the waveform in and out For reducing the internal For disabling the touch screen and buttons temperature Media box START button Handle

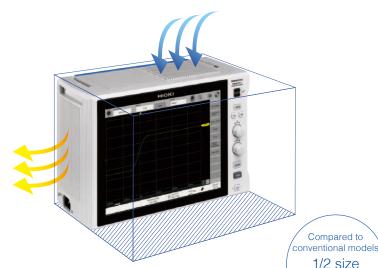
For carrying the device

Operability and visibility suited for a variety of work environments



Ergonomical operating angle

Our search for a touch screen with the best operability and visibility angle led us to develop retractable feet that maximize those two important attributes. Tilting the MR6000 with the feet reduces the strain on your wrists when you use the device on a desk, and keeps your line of sight at a natural level. The rear side also features the same retractable feet, making is easy to use the device on the floor.



Space-saving size

We have achieved a design that is compact while still delivering blazing fast processing speeds by using thermal liquid analysis to optimally position the air inlets, heating components, and cooling fans. The smaller form factor requires less space for installation, making the device just right for tight workspaces.

Easy multi-touch

Horizontal and

1/2 size

When compared to 8861-50



Easy handling

Convenient long handle Robust design

The rubber handle boasts excellent grip and makes it easy to carry the device with either one or both hands. The grips on either side of the device can also be used to lift it with both hands.

Simple protectors on the top and bottom right side of the device protect the interface and unit input terminals from sudden physical shocks.

Sleek details

The bevelled chassis edges give the device a compact and sleek look. The left side is slightly curved with slits to match the mesh of the air outlet. The air outlet is therefore in harmony with the design of the flat and solid-looking chassis. The simple and refined appearance achieved by these efforts well suits a device used for R&D purposes.

Refined attractive shape Simple design



Product Specifications

Basic Specification (Accuracy guaranteed for		nt accuracy guaranteed for 1 year)
	Normal: Regular wa	
Recording method	*Envelope setting n	ot available with external sampling
No. of channels	Logic with up to 128 *Common GND for	2 channels (with 4ch ANALOG UNIT U8975/U8978) 3 channels (LOGIC UNIT 8973) the logic probe input connector and main unit
Maximum sampling rate	200 MS/s (all chann U8976) External sampling (els at the same time) (with HIGH SPEED ANALOG UNIT 10 MS/s)
Memory capacity	1 G-words	2000 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Operating environment Operating temperature		egree 2, altitude up to 2000 m (6562.20 ft) o 104°F), 80% RH or less (no condensation)
and humidity range Storage temperature		
and humidity range Compliance standards	Safety: EN61010, EI	to 122°F), 80% RH or less (no condensation)
Power supply	Rated supply voltag for rated supply volt	e: AC 100 V to 240 V (consider ±10% voltage fluctuations age)
		r frequency: 50 Hz / 60 Hz it overvoltage: 2500 V
Max. power consumption Clock		-year correcting 24-hour clock
Backup battery life		t 23°C (73°F)) for clock and settings
PC interface (overview) External dimensions	LAN, USB, SD, SAT 353 mm (13.90 in) W x	A, monitor 235 mm (9.25 in) H x 154.8 mm (6.09 in) D (excluding protrusions
Mass	6.5 kg (229.3 oz) (m 6.7 kg (236.3 oz) (w	ain unit only) ith Z5021, U8332, or U8333 installed)
		ith HIGH SPEED ANALOG UNIT U8976 installed) art Manual (booklet, CD-R), operating precautions (booklet),
Accessories	application disk (CD-F	R), Instruction Manual (detailed edition) (CD-R), Instruction exclusive functions edition) (CD-R), blank panel (blank slot only)
Accuracy	, , , , , , , , , , , , , , , , , , , ,	. , (, , ,
Accuracy guarantee conditions	Temperature and hu	umidity range: 23°C ±5°C (73°F ±9°F), 80% RH or less
Time axis accuracy	±0.0005%	
Display	101 inch VO: TEE	olar I CD (1004 v 700 deta) with a second
Display type LAN Interface	12.1 inch XGA TFT o	color LCD (1024 x 768 dots) with capacitive touch screen
Compatibility specifications Functions	DHCP, DNS, FTP, H	1000BASE-T, 100BASE-TX, 10BASE-T TTP, e-mail sending function
Connector Maximum cable length	RJ-45 100 m (328.11 ft)	
USB interface	100111 (320.1111)	
Compatibility specifications		x 3, USB 2.0 compliant x 4
Host	Connector: Series A Connected devices	receptacle : Keyboard, mouse, USB memory stick
Available options	Z4006 USB MEMOR	
SD card slot	Compliant with SD sta	ndards x 1 (compatible with SD, SDHC, SDXC memory cards)
		ridards x 1 (compatible with 65, 65116, 65X6 memory cards)
Available options SATA interface	24001 3D INLINOTT	CARD (2 GB), Z4003 SD MEMORY CARD (8 GB)
SATA interface Compatibility specifications	Serial ATA Revision	3.0 compliant x 1
SATA interface Compatibility specifications Available options	Serial ATA Revision	
SATA interface Compatibility specifications	Serial ATA Revision	3.0 compliant x 1
SATA interface Compatibility specifications Available options Monitor output Connector Output type	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exte	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB)
SATA interface Compatibility specifications Available options Monitor output Connector	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exte	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB)
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exte terminal SMB 10 V DC	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual linl
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high	3.0 compliant x 1 556 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual link h level, 0 V to 0.8 V for low level
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage Response pulse width Maximum input frequency	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual linl n level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods
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SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage Response pulse width Maximum input frequency	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more durin 10 MHz External sampling of	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual linl n level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling or rminals Push-button type Maximum input voltage	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual line n level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage input voltage response pulse width Maximum input frequency Functions External control te Terminal block	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exte terminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling or	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual line in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling or minals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual link h level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage input voltage response pulse width Maximum input frequency Functions External control te Terminal block	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling of rminals Push-button type Maximum input voltage Input voltage Response pulse width	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) small displays 1024 x 768 (XGA) *Not compatible with dual link in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage input voltage response pulse width Maximum input frequency Functions External control te Terminal block	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling of rminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output type	3.0 compliant x 1 56 GB), U8333 HD UNIT (320 GB) mal displays 1024 x 768 (XGA) *Not compatible with dual line in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event Open drain output (active low, with 5 V voltage output)
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage input voltage input voltage input voltage response pulse width Maximum input frequency Functions External control te Terminal block	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling cominals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) small displays 1024 x 768 (XGA) *Not compatible with dual line in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event
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SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling comminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output voltage Maximum input voltage Maximum input voltage Maximum input voltage Number of terminals	3.0 compliant x 1 56 GB), U8333 HD UNIT (320 GB) mal displays 1024 x 768 (XGA) *Not compatible with dual link in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event Open drain output (active low, with 5 V voltage output) 4.0 V to 5.0 V for high level, 0 V to 0.5 V for low level 50 V DC, 50 mA, 200 mW 2
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling comminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output voltage Maximum input voltage Maximum input voltage Number of terminals Functions	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) rnal displays 1024 x 768 (XGA) *Not compatible with dual line in level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event Open drain output (active low, with 5 V voltage output) 4.0 V to 5.0 V for high level, 0 V to 0.5 V for low level 50 V DC, 50 mA, 200 mW 2 Judgment (PASS), judgment (FAIL), occurrence of errors busy, trigger standby 10 V DC ON / OFF External trigger filter OFF: 1 ms or more during high periods, 2 us or more during low periods
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling comminals Push-button type Maximum input voltage Input	3.0 compliant x 1 256 GB), U8333 HD UNIT (320 GB) In level, 0 V to 0.8 V for low level g high periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ns or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event Open drain output (active low, with 5 V voltage output) 4.0 V to 5.0 V for high level, 0 V to 0.5 V for low level 50 V DC, 50 mA, 200 mW 2 Judgment (PASS), judgment (FAIL), occurrence of errors busy, trigger standby 10 V DC ON / OFF External trigger filter OFF: 1 ms or more during high periods, 2 us or more during low periods External trigger filter ON: 2.5 ms or more during high periods, 2 us or more during low periods External trigger filter ON: 2.5 ms or more during high periods, 2.5 ms or more during low periods
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SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more durin 10 MHz External sampling of the sampling of	and displays 1024 x 768 (XGA) *Not compatible with dual line of the price of the pr
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SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Input voltage Input voltage External control te Terminal block External input External output External output	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high 50 ns or more during 10 MHz External sampling of comminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output voltage Number of terminals Functions Maximum input voltage Number of terminals Functions Maximum input voltage External trigger filter Response pulse width Functions Cutput voltage Functions Maximum input voltage External trigger filter Response pulse width Functions Output voltage Output voltage Output voltage	and displays 1024 x 768 (XGA) *Not compatible with dual line with displays 1024 x 768 (XGA) *Not compatible with dual line hevel, 0 V to 0.8 V for low level ghigh periods, 50 ns or more during low periods lock input, rising/falling selection possible 10 V DC 2.5 V to 10 V for high level, 0 V to 0.8 V for low level 50 ms or more during high periods, 50 ms or more during low period 200 ms or greater 2 START, STOP, START/STOP, SAVE, ABORT, event Open drain output (active low, with 5 V voltage output) 4.0 V to 5.0 V for high level, 0 V to 0.5 V for low level 50 V DC, 50 mA, 200 mW 2 Judgment (PASS), judgment (FAIL), occurrence of errors busy, trigger standby 10 V DC ON / OFF External trigger filter OFF: 1 ms or more during high periods, 2 us or more during low periods External trigger filter ON: 2.5 ms or more during high periods, 2.5 ms or more during low periods External trigger filter ON: 2.5 ms or more during high periods, 2.5 ms or more during low periods Rising/falling selection possible Rising: Triggering occurs when the voltage rises from low (0 V to 0.8 V) to high (2.5 V to 10 V). Falling: Triggering occurs when the voltage falls from high (2.5 V to 10 V) to 10 (V) to 0.8 V) or when a terminal short circuit occurs. **Trigger timing: With the START&STOP option, rising/falling can be selected for either START or STOP. Open drain output (active low, with 5 V voltage output) 4.0 V to 5.0 V for high level, 0 V to 0.5 V for low level 50 V DC, 50 mA, 200 mW
SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input External input External output Output terminal fo	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for higi 50 ns or more durin 10 MHz External sampling of terminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output type Output voltage Maximum input voltage Maximum input voltage External trigger filter Response pulse width Functions Output type Output voltage Maximum input voltage Texternal trigger filter Response pulse Width Functions Output type Output voltage Maximum input voltage Maximum input voltage Output type Output voltage Maximum input voltage Maximum input voltage Output type Output voltage Maximum input voltage Output pulse width	and displays 1024 x 768 (XGA) *Not compatible with dual line of the price of the process of the
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SATA interface Compatibility specifications Available options Monitor output Connector Output type External sampling Connector Maximum input voltage Input voltage Response pulse width Maximum input frequency Functions External control te Terminal block External input External trigger Trigger output Output terminal fo Output signals Functions Dedicated power s	Serial ATA Revision U8332 SSD UNIT (2 DVI-I Digital output for exteterminal SMB 10 V DC 2.5 V to 10 V for high Son so or more during 10 MHz External sampling of terminals Push-button type Maximum input voltage Input voltage Response pulse width Pulse interval Number of terminals Functions Output type Output voltage Maximum input voltage Maximum input voltage Maximum input voltage Minumer of terminals Functions Output type Output type Output voltage Maximum input voltage Maximum input voltage Functions Output type Output voltage Width Functions Output type Output voltage Maximum input voltage Output voltage Maximum input voltage Output voltage Maximum input voltage Output voltage Output voltage Output voltage Output voltage Output pulse width Probe correctio O V to 5 V ±10%, 1 kt po665 10:1 PROBE, 1 Supply terminal for	and displays 1024 x 768 (XGA) *Not compatible with dual line with displays 1024 x 768 (XGA) *Not compatible with dual line line line line line line line lin
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	Analog, logic, real-t	ime waveform processing
	*Up to 4 analog tr	FOP is selected: Up to 32 channels iggers can be set for each analog channel.
	*Up to 4 logic trig	gers can be set for each logic probe. gers can be set for each real-time waveform processing channel.
T.:	When START&STC	OP is selected: Up to 16 channels / group
Trigger source	Logic: Up to 16 p	hannels / group (Up to 2 channels per unit can be selected.) robes / group (Up to 2 probes per unit can be selected.)
		m processing: Up to 16 calculations / group pes from each group can be set for each analog channel.
	*Up to 2 logic trig External trigger	igers from each group can be set for each logic probe.
	The free run function	n is activated if all trigger sources are turned off.
	Level trigger	Triggering occurs when the set level rises (falls). Triggering occurs when peak voltage drops below the set level.
	Voltage drop trigger	(For a 50 Hz / 60 Hz commercial power supply only) *1, *2, *3
		Sets the upper and lower limit for trigger level.
	Window trigger	Triggering occurs when leaving (OUT) or entering (IN) the area. *1
	Period trigger	Sets the period reference value and cycle range. Triggering occurs when the rising (falling) reference value period is measured and determined to be outside or within the cycle range. *1, *2, *3
Analog triggers	Glitch trigger	Sets the reference value and pulse width (glitch width). Triggering occurs if the value is below the set pulse width from rising or falling of the reference value.
	Specifying events	*1, *Not available with MR8990, *3 Specifying events (1 to 4000) Counts the number of times conditions were fulfilled for each trigger source. Triggering occurs when the set number of times is reached.
		*Not available when the trigger conditions are set to AND *1: Disabled when sampling rate is set to 200 MS/s. *2: Not available with MR8990 or 8970
Logic trigger	Pattern trigger using	*3: Not available with envelope setting
Forcible trigger	Included (Forcible t	riggering can be prioritized over all trigger sources.)
Interval trigger	Recording possible a The trigger conditio	at specified measuring intervals (hours, minutes, or seconds) ns are fulfilled when the measuring process starts.
	Afterwards, the trigg	ger conditions are met at the set measuring intervals. OFF, 10, 20, 50, 100, 150, 200, 250, 500, 1000, 2000,
Trigger filter	Normal	5000, 10,000 samples
Level setting resolution	Envelope 1 LSB	OFF, 1 ms, 10 ms
Pre-trigger	0% to 100% (any va	lue set in 1% steps available), displaying the recording
Post-trigger	time for pre-trigger 0% to 40%, displayi	ing the recording time for post-trigger
Trigger priority	ON/OFF	
Trigger mark Trigger timing	Displays trigger may START, STOP, STAR	rks for the positions where triggers are set.
Waveform monitoring	Displays the wavefo	orm monitor in the trigger standby state. (The display can
Waveform screen	be turned off.)	
Waveloilli Scieeli	Waveform display	1 screen, 2 screens, 4 screens, 8 screens, 16 screens
Numerical display	in chronological order	*Displays up to 64 channels per sheet. *Multiple sheets can be set for the same channel.
format	FFT display	1 screen, 2 screens, 4 screens Waveform in chronological order + FFT display (1 screen, 2 screens, 4 screens)
Sheet function	Up to 16 sheets	*The display format can be selected for each sheet.
Zoom display		s are displayed in chronological order in the top part of the ereas the zoomed waveforms are displayed in the bottom part.)
Full screen display		s over the entire waveform screen.
	Waveform color	Fixed colors (32 colors) Linear
	Interpolation Variable display	Always ON
Wayafara dianlay	Vernier	Adjustable input waveform (Adjustment range: 50% to 250% of the input)
Waveform display	Grid	OFF / ON
	Logic display width	
	Waveform inversion	Displays waveforms upside down. *Not available with 8967, 8970, and 8973
Enlarge / Reduce	Allows you to adjust	the zoom ratio as necessary by pinching in or out.
Waveform scrolling		swiping the screen and scroll back while measuring. latest data by following the measuring process.
Roll display mode		
		osition (left or right edge) can be selected.
Waveform monitoring	*The roll cannot be	osition (left or right edge) can be selected. displayed when the overlay function is turned on.
function	*The roll cannot be ON / OFF (The mon	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.)
	*The roll cannot be ON / OFF (The mon The OFF, automatic	osition (left or right edge) can be selected. displayed when the overlay function is turned on.
function	*The roll cannot be ON / OFF (The mon The OFF, automatic	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected.
function Overlay	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. *Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed.
function	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. *Displays potential, time from trigger, time difference between cursors, and potential difference.
function Overlay	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2
function Overlay	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. *Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. *Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2
function Overlay	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. Ig the measuring process (up to 1000 marks)
Overlay Cursor	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location.
Cursor Event mark	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) for external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M, 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K
Cursor Event mark	*The roll cannot be: ON / OFF (The mon The OFF, automatic *The roll cannot be: Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. *Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. *Displays potential and potential difference. Up to 8 gauges can be displayed. *Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. Ing the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M
Cursor Event mark	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. up the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s.
Cursor Event mark	*The roll cannot be: ON / OFF (The mon The OFF, automatic *The roll cannot be: Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal
Cursor Event mark	*The roll cannot be: ON / OFF (The mon The OFF, automatic *The roll cannot be: Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. ng the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M, 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k, 500, 200, 100, 50, 20, 10, 5, 2, 1 [Ss] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz
Cursor Event mark	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. ng the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M, 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K
Cursor Event mark	*The roll cannot be: ON / OFF (The mon The OFF, automatic *The roll cannot be: Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. up the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500 c, 200, 10, 50, 20, 10, 5, 2, 1 [S/s] 30, 12, 6, 2, 1 [S/min] 30, 12, 6, 2, 1 [S/min]
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. *Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. *Displays potential and potential difference. Up to 8 gauges can be displayed. *Segment cursor 1 / Segment cursor 2 *Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. 19 the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] *The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s]
Cursor Event mark	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. ng the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M, 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 k, 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K, 500 C, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K,
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "Not N, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "Asimum available sampling rate [Save destination: SSD] 20 MS/s (2 channels), 10 MS/s (4 channels), 5 MS/s (6 channels), 2 MS/s (16 channels),
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durin Use the start button Normal Envelope For real-time	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2; 1 [S/s] MA, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2; 1 [S/s] Maximum available sampling rate [Save destination: SDI) 20 MS/s (2 channels), 10 MS/s (8av destination: HDI) 10 MS/s
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button Normal Envelope For real-time saving	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) for external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for maximum and minimum values "Oversampling rate: 100 MS/s Maximum available sampling rate [Save destination: SDD] 20 MS/s (2 channels), 10 MS/s (4 channels), 5 MS/s (8 channels), 1 MS/s (16 channels), 1 MS/s (32 channels), 20 MS/s (2 channels), 5 MS/s (4 channels), 1 MS/s (6 channels), 5 MS/s (6 chan
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durin Use the start button Normal Envelope For real-time	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for maximum and minimum values "Oversampling rate: 100 MS/s Maximum available sampling rate [Save destination: SDJ 20 MS/s (3 channels), 1 MS/s (16 channels), 1 MS/s (32 channels), 5 MS/s (6 channels), 1 MS/s (16 channels), 1 MS/s (32 channels), 200 KS/s (4 channels), 5 MS/s (8 channels), 1 MS/s (16 channels), 1 MS/s (26 channels), 2 MS/s (4 channels), 2 MS/s (2 channels), 1 MS/s (26 channels), 2 MS/s (4 channels), 2 MS/s (6 channels), 1 MS/s (8 channels), 1 MS/s (8 channels), 2 MS/s (8 channels), 2 MS/s (8 channels), 1 MS/s (8 channels), 2 MS/s (8 c
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durin Use the start button Normal Envelope For real-time saving *The values in () indicate the number of	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. or the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "Asimpling rate: 100 MS/s Maximum available sampling rate [Save destination: SSD] 20 MS/s (2 channels), 1 MS/s (16 channels), 1 MS/s (32 channels), 2 MS/s (6 channels), 1 MS/s (16 channels), 1 MS/s (32 channels), 2 MS/s (6 channel
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durir Use the start button Normal Envelope For real-time saving	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 K, 200 K, 100 K, 50 K, 20 K, 10 K, 5 K, 2 K, 1 K 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] Maximum available sampling rate [Save destination: SSD] 20 MS/s (2 channels), 10 MS/s (4 channels), 5 MS/s (6 channels), 2 MS/s (16 channels), 1 MS/s (16 channels), 1 MS/s (18 channels), 1 MS/s (18 channels), 200 KS/s (24 channels), 100 KS/s (4 channels), 1 MS/s (8 channels), 100 KS/s (4 channels), 1 MS/s (8 channels), 100 KS/s (4 channels), 1 MS/s (64 channels), 100 KS/s (4 channels), 1 MS/s (64 channels), 200 KS/s (24 channels), 100 KS/s (4 ch
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durin Use the start button Normal Envelope For real-time saving *The values in () indicate the number of	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. In the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M, 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k, 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M, 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k, 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] Maximum available sampling rate [Save destination: SDD] 20 MS/s (2 channels), 10 MS/s (4 channels), 5 MS/s (8 channels), 2 MS/s (16 channels), [Save destination: SDD] memory card, USB memory stick, sending via FTP] 5 MS/s (8 channels), 10 MS/s (4 channels), [Save destination: SDD memory card, USB memory stick, sending via FTP] 5 MS/s (8 channels), 20 MS/s (64 channels) Couramted only when the available option is specified for the save destination. USB memory data guaranteed only when using the
Cursor Event mark Setting screen	*The roll cannot be ON / OFF (The mon The OFF, automatic *The roll cannot be Tracing cursor Horizontal cursor Gauge Specifying segments Jump Input available durin Use the start button Normal Envelope For real-time saving *The values in () indicate the number of	osition (left or right edge) can be selected. displayed when the overlay function is turned on. itor can also be displayed in the trigger standby state.) , or manual option can be selected. displayed when the overlay function is turned on. Up to 8 cursors can be displayed. "Displays potential, time from trigger, time difference between cursors, and potential difference. Up to 8 cursors can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. "Displays potential and potential difference. Up to 8 gauges can be displayed. Segment cursor 1 / Segment cursor 2 "Specifies the calculation range, saving range, and search range. Tap the screen to jump to the specified location. og the measuring process (up to 1000 marks) or external input terminal for input. 200 M, 100 M, 50 M, 20 M, 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] "The speed for real-time waveform processing can be set from 100 MS/s. External sampling: Depending on the input signal of the external sampling terminal Up to 10 MHz 10 M, 5 M, 2 M, 1 M 500 k, 200 k, 100 k, 50 k, 20 k, 10 k, 5 k, 2 k, 1 k 500, 200, 100, 50, 20, 10, 5, 2, 1 [S/s] 30, 12, 6, 2, 1 [S/min] "Calculation speed for maximum and minimum values "Oversampling rate: 100 MS/s (2 channels), 10 MS/s (4 channels), 5 MS/s (32 channels), 500 kS/s (64 channels), 1 MS/s (64 channels), 1 MS/s (82 channels), 2 MS/s (64 channels), 1 MS/s (64 channels), 1 MS/s (82 channels), 2 MS/s (64 channels),

		[Built-in presets] 20 M (32 channels), 50 M (16 channels), 100 M (8 channels), 200 M (4 channels), 500 M (2 channels), 1 G (1					
	Normal	(8 channels), 200 M (4 channels), 500 M (2 channels), 1 G (1 channel) [Point] [Arbitrary recording length] 33554400 (32 channels), 67108800					
	Normal	(16 channels), 134217700 (8 channels), 268435400 (4 channels),					
		536870900 (2 channels), 1073741800 (1 channel) [Point] *Setting is possible in units of 100 points.					
		[Built-in presets] 10 M (32 channels), 20 M (16 channels), 50 M (8 channels), 100 M (4 channels), 200 M (2 channels), 500 M (1					
	Envolono	channel) [Point] [Arbitrary recording length] 16777200 (32 channels), 33554400					
	Envelope	(16 channels), 67108800 (8 channels), 134217700 (4 channels),					
Maximum recording length		268435400 (2 channels), 536870900 (1 channel) [Point] *Setting is possible in units of 100 points.					
lerigiri	For real-time saving Determined according to the amount of free space in the save destination, file system, and number of measurement channels						
		ate the number of channels used.					
	How channels are defit 1. 2-channel input unit	ned: ts: Each channel counts as 1 channel					
		ls: (U8975/U8977/U8978): CH1/CH2 are used, counts as 1 channel					
	When either or both C	CH3/CH4 are used, counts as 1 channel ne above, counts as 2 channels					
	Real-time waveform	processing: each operation counts as 1 channel					
	*When using any of Model U8975, U8977, U8978, or MR8990, or conducting real-time waveform processing, the maximum recording length at a sampling rate of 10 MS/s or						
Repeated		I half the length of the values listed above. scified number of times *Repeated measurements cannot					
measurements		er of times cannot be specified for real-time saving.					
Waveform monitoring function		annel setting screen offset / 2-point input / Model / Output rate / dB / Rating					
Scaling		del to configure the scaling settings automatically. and automatic scaling are available when a current unit is used.					
Comments	Title comments, channe	I comments					
Commonto	Channel numbers and ch Calculation formulas	annel comments are added on the setting screen and waveform screen.					
		Measurement channels in 8966, 8967, 8968, U8969, 8970,					
	Calculation targets	8971, 8972, U8974, U8975, U8976, U8977, U8978, U8979 *The 8973 and MR8990 measurement channels are not applicable.					
Digital filter	Calculation update	10 M / 1 M / 100 k / 10 k / 1 k / 100 / 10 / 1 [S/s] *Up to 8 calculations can be set for 10 MS/s.					
*MR6000-01 only	rate	*Up to 16 calculations can be set for 1 MS/s.					
(Option to be specified upon order)		Calculation update rate 10 MS/s 1 MS/s 100 kS/s 10 kS/s or less					
,	Calculation delay	Calculation 6.2 or 5 us 20 us Calculation update					
	Filter types	delay 6.3 us 20 us rate period FIR (LPF / HPF / BPF / BSF), IIR (LPF / HPF / BPF / BSF),					
Covins	Filter types	moving average, delay device					
Saving	SD MEMORY CARD	Z4001 (2 GB), Z4003 (8 GB)					
	USB MEMORY STICK						
Save destination	HDD	U8332 SSD UNIT (256 GB) U8333 HD UNIT (320 GB)					
	Sending to FTP	PC with a LAN connection					
F" (Sending e-mails	Send files via e-mail to specified address					
File format Filename	FAT, FAT32, NTFS, e Alphanumeric and J						
Processing identical		ber at the beginning before saving					
filenames	ON / OFF						
Auto saving	a measuring proce *Settings files are no time saving is selec	ot supported. *This function is not available when real-					
		nitations on sampling rate and recording length apply.)					
Deal disease in a	ON / OFF *Saves the waveform	n data (binary) obtained during the measuring process					
Real-time saving	ON / OFF *Saves the waveform directly to the save of	n data (binary) obtained during the measuring process destination. *The auto saving function is not available.					
	ON / OFF *Saves the waveform directly to the save of File division Deletes the files with	n data (binary) obtained during the measuring process destination. "The auto saving function is not available. Files are divided for approx. every 512 MB of data. 1 the oldest creation dates and saves data when there is					
Real-time saving Deleting and saving	ON / OFF *Saves the waveform directly to the save of File division Deletes the files with	n data (binary) obtained during the measuring process destination. 'The auto saving function is not available. Files are divided for approx. every 512 MB of data. I the oldest creation dates and saves data when there is the specified media at the save destination. 'Enabled					
	ON / OFF *Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data	n data (binary) obtained during the measuring process destination. 'The auto saving function is not available. Files are divided for approx. every 512 MB of data. In the oldest creation dates and saves data when there is the specified media at the save destination. 'Enabled real-time saving.					
Deleting and saving	ON / OFF *Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and	n data (binary) obtained during the measuring process destination. "The auto saving function is not available. Files are divided for approx. every 512 MB of data. It the oldest creation dates and saves data when there is not be specified media at the save destination. "Enabled real-time saving.					
Deleting and saving	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data Waveform data Index Displayed images	n data (binary) obtained during the measuring process destination. 'The auto saving function is not available. Files are divided for approx. every 512 MB of data. It he oldest creation dates and saves data when there is the specified media at the save destination. "Enabled real-time saving. SET Binary format (MEM, .REC, .FLT), text format (.TXT, .CSV) Divided saving (.IDX), memory segmentation (.SEQ) .BMP, .PNG, .JPG					
Deleting and saving Types of saved data	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data Waveform data Index Displayed images Numerical calculation results	n data (binary) obtained during the measuring process destination. 'The auto saving function is not available. Files are divided for approx. every 512 MB of data. It he oldest creation dates and saves data when there is not he specified media at the save destination. 'Enabled real-time saving. SET Binary format (MEM, .REC, .FLT), text format (.TXT, .CSV) Divided saving (.IDX), memory segmentation (.SEQ) .BMP, .PNG, .JPG .CSV, .TXT					
Deleting and saving Types of saved data	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data Waveform data Index Displayed images Numerical calculation results Select a channel fro channels when savit	In data (binary) obtained during the measuring process destination. "The auto saving function is not available. Files are divided for approx. every 512 MB of data. It he oldest creation dates and saves data when there is the specified media at the save destination. "Enabled real-time saving. SET Binary format (MEM, .REC, .FLT), text format (.TXT, .CSV) Divided saving (.IDX), memory segmentation (.SEQ) .BMP, .PNG, .JPG .CSV, .TXT mall the channels available or from the displayed no waveform data.					
Deleting and saving Types of saved data Saving channels	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data Waveform data Index Displayed images Numerical calculation results Select a channel fro channels when savit	In data (binary) obtained during the measuring process destination. The auto saving function is not available. Files are divided for approx. every 512 MB of data. In the oldest creation dates and saves data when there is the specified media at the save destination. Enabled real-time saving. SET Binary format (MEM, .REC, .FLT), text format (.TXT, .CSV) Divided saving (.IDX), memory segmentation (.SEQ) .BMP, .PNG, .JPG .CSV, .TXT m all the channels available or from the displayed ng waveform data. format) is culled according to the specified culling value					
Deleting and saving Types of saved data Saving channels Culled data saving File division	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and settings data Waveform data Index Displayed images Numerical calculation results Select a channel fro channels when savin Waveform data (text (from 2 to 1000) befr. Types of saved data	In data (binary) obtained during the measuring process destination. "The auto saving function is not available. Files are divided for approx. every 512 MB of data. It he oldest creation dates and saves data when there is the specified media at the save destination. "Enabled real-time saving. SET Binary format (MEM, REC, FLT), text format (TXT, CSV) Divided saving (IDX), memory segmentation (SEQ) BMP, PNG, JPG CSV, TXT m all the channels available or from the displayed my aveform data. format) is culled according to the specified culling value ore saving. Division method					
Deleting and saving Types of saved data Saving channels Culled data saving File division 'Real-time saving and	ON / OFF Saves the waveform directly to the save of File division Deletes the files with no free space left or for auto saving and Settings data Waveform data Index Displayed images Numerical calculation results Select a channel fro channels when savit Waveform data (text (from 2 to 1000) bearing from 2 to 1000) bearing possible of the saved data Binary format	In data (binary) obtained during the measuring process destination. "The auto saving function is not available. Files are divided for approx. every 512 MB of data. It he oldest creation dates and saves data when there is the specified media at the save destination. "Enabled real-time saving. SET Binary format (MEM, .REC, .FLT), text format (.TXT, .CSV) Divided saving (.IDX), memory segmentation (.SEQ) .BMP, .PNG, .JPG .CSV, .TXT mall the channels available or from the displayed no waveform data. format) is culled according to the specified culling value ore saving. Division method OFF / Every 16 MB of data / Every 32 MB of data / Every 64 MB of data					
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	In ann ann			
Maximum recording length Standard operator	2,000,000 points +, -, ×, ÷			
	Absolute value, expone	tiation, common logarith	hm, moving aver	age, derivative, integral,
Calculation items	COS, TAN, ASIN, ACOS average value (*), maxir	, ATAN, ATAN2, FIR (LF num value (*), minimum	PF, HPF, BPF, BS value (*), level a	
				etting for rotations from
Averaging function	2 to 10,000 times) *Roll display not avail	ble when the averagi	ing function is t	turned on. ots. (The two calculations
Dool time waysfaw	spots directly followin	the calculation number	ber for simple	averaging will be unavailable.)
Maximum number of calculations	n processing *0 16 formulas	option to be specified	d upon order (Order code: MR6000-01)
Calculation targets	U8974, MR8990 (*)	U8975, U8976, U8	977, U8978, I	8970, 8971, 8972, 8973, J8979 6 bits of the 24-bit AD resolution.
Calculation update	10 M, 1 M, 100 k, 1	k, 1 k, 100, 10, 1 [[S/s]	types of calculations
rate	cannot be set with o	ertain calculation u	ipdate rates.	10 kS/s or less
	Calculation delay	6.2 or 6.3 us 5 u	us 20 us	Calculation update rate period
Calculation delay	selected for calculati	on.		rm processing channels are
	Calculation update rate Added calculation delay	10 MS/s 1 MS		10 kS/s or less Calculation update rate period
Calculation type				erations with coefficients, quartic erentiation, integrals, integration,
	FIR (LPF / HPF / BPF / B	SF), IIR (LPF / HPF / BP	F / BSF), moving	average, delay device
Maximum number of calculations	8	ppe setting, not avail	iable simulam	eously with real-time saving
Frequency range	500 mHz to 100 MH	z (sampling rate x0).5), external s	sampling
Number of sampling points	1 k, 2 k, 5 k, 10 k, 2			/50.000
Frequency resolution	1/500, 1/1000, 1/25 AAF (8968, U8979)			
Anti-aliasing filter	waveform processing	g LPF filter (FIR, IIF	R) _	
Calculation targets				vaveform processing results
Analyzed data	Newly loaded Memory	Data newly measured m		or data loaded from media
FFT analysis mode	Linear spectrum, RN	IS spectrum, power	r spectrum, 10	CH phase spectrum, cross
setting Windows				n, 2CH phase spectrum Harris, Flat-top, Exponential
Display scale	Linear scale, log sc		ari, Diackiriari-i	iams, martop, Exponential
Peak value display	OFF, local maxima,	maximum value		
Averaging function	Simple averaging, e 2 to 10,000 times)	xponential averagir	ng, peak hold	(arbitrary setting from
Calculation execution button	Execution button di	played in screen		
Memory division	Lincoln			
Max. divisions Block search	1024 blocks Search from the da	a that is saved in di	ivided memor	v block.
Bulk save	Saves entire range			
Waveform search				
	Trigger	selected as the ta	rch is availabl argeted chanr	
	Peak			lable with envelope setting. local maxima, local minima
Search mode	CONCIERGE	waveform or to the	o compare ea e directly pre	
	l. man	*Disabled with en Event mark, cursor,		e time, relative time, or time
	Jump Full range	specified by the nu All of the data stor		s), trigger point, search mark
	T dil Tarige			d for segment 1 or the one
Search range	Specifying			
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Number of searches	segments Specifiable (Up to 1 After a search is ex	Select either the rispecified for segnion on data points) acuted, if there are in number, the wave or searching.	more search eform data fol	hits in the search range
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Number of searches Continuous search Display method Other	segments Specifiable (Up to 1 After a search is ex beyond the specific point is continued fe Specify a search lo "When th Available "The HDC that order un the hor	Select either the rispecified for segn o00 data points) souted, if there are id number, the wave is searching, attoin to display the power is turned or saved (STARTUP: (SSD, SD memory of the save locatic zontal direction, the	ment 2. more search eform data fol e data. n, the unit load SET) to start to card, and USI on. e sampling rai	hits in the search range lowing the last search dis the settings data up. B memory are searched, in te, compression rate, or
Number of searches Continuous search Display method Other	segments Specifiable (Up to 1 After a search is ex beyond the specific point is continued fi Specify a search lo "When the Available previously "The HDC that order X In the hor display p In the ver	Select either the respecified for segn 300 data points) secuted, if there are id number, the wave researching seation to display the power is turned or saved (STARTUP.: SSD, SD memory of for the save locatic zontal direction, the mistion can be chamical direction, the mistion can be chamically direction.	ment 2. more search eform data fol e data. n, the unit loar SET) to start t card, and USI on. e sampling ra ged and the o neasurement	hits in the search range lowing the last search distribution to the last search distribution to the search distribution to the searched, in the compression rate, or currence, compression rate, carange, compression rate, a
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Number of searches Continuous search Display method Other Auto setup Rotary knobs	segments Specifiable (Up to : After a search is ex beyond the specific point is continued fe Specify a search lo "When th Available "When th that order X In the hor display p Y In the ver Gisplay S1, S2 A function Available (The optin waveform are autor "Not available for er	Select either the respecified for sept of the wave reacting. The wave reacting the selection of the selection of the selection of the selection of the selection, the reposition can be changing and income selection, the reposition can be allocated. The selection of the selection of the selection of the selection of the selection, the reposition can be changing allocated. The selection of the sel	ment 2. more search eform data fol e data. n, the unit load set of the card, and USI on. e sampling rai ged and the c neasurement anged and the mod measurement aving, or exte	hits in the search range lowing the last search ds the settings data up. B memory are searched, in the compression rate, or cursor can be moved. range, compression rate, e cursor can be moved. ent range for the input r
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Number of searches Continuous search Display method Other Auto setup Rotary knobs Shortcut button Auto range	segments Specifiable (Up to 1 After a search is ex beyond the specific point is continued fi Specify a search lo "When the previously "The HDC that order X In the hor display pr Y In the ver or display S1, S2 A functior Not available for er Three levels of settir	Select either the respecified for segn 300 data points) souted, if there are id number, the wave researching attorned to display the power is turned or saved (STARTUP: SSD, SD memory contail direction, the isition can be changical direction, the reposition can be chosen to allocated. all sampling rate are latically set.) velope, real-time signs are available: Of	ment 2. more search eform data folion dat	hits in the search range lowing the last search ds the settings data up. B memory are searched, in the compression rate, or cursor can be moved. range, compression rate, e cursor can be moved. ent range for the input r
Number of searches Continuous search Display method Other Auto setup Rotary knobs Shortcut button Auto range Key lock	segments Specifiable (Up to 1 After a search is ex beyond the specific point is continued fi Specify a search lo "When the Available previously "The HDD that order X In the hor Y In the ver or display p Y In the ver or display p Afunction Available (The optir waveform are autor "Not available for re Three levels of settir and hard buttons. OFF / Alarm only / / Sending e-mails via	Select either the respecified for segn o00 data points) secuted, if there are a number, the wave researching, action to display the power is turned or saved (STARTUP.5 (YSD, SD memory of for the save locatic zontal direction, the sition can be changical direction, the mosition can be changical direction, the mosition can be allocated. Lal sampling rate an attically set.) welope, real-time sign are available: Of larm and operation SMTP	mont 2. more search eform data foli e data. n, the unit load SET) to start to card, and USi on. e sampling ra ged and the one measurement hanged and the nd measurement aving, or exte FFF, touch scre	hits in the search range lowing the last search distribution to the last search distribution and the last search distribution. By memory are searched, in the compression rate, or compression rate, or compression rate, e
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Option Specifications (sold separately)

Dimensions/mass: approx. 106 mm (4.17 in) W \times 19.8 mm (0.78 in) H \times 196.5 mm (7.74 in) D, approx. 280 g (9.9 oz) Accessories: None



HIGH SPEED ANAL U8976	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment, Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for voltage measurement
Input terminals	Isolated BNC connector (input impedance 1 M Ω , input capacitance 22 pF) Max. rated voltage to ground:1000 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Measurement range	100, 200, 400 mV f.s. 1, 2, 4, 10, 20, 40, 100, 200, 400 V f.s., 12 ranges AC voltage for possible measurement/display: 280 V rms Low-pass filter: 5/500/5 k/1 MHz
Measurement resolution	1/1600 of measurement range (using 12-bit A/D conversion)
Maximum sampling rate	200 MS/s (simultaneous sampling in 2 channels)
Measurement accuracy	±0.5% f.s. (with filter 5 Hz, zero position accuracy included)
Frequency characteristics	DC to 30 MHz -3 dB (with AC coupling: 7 Hz to 30 MHz -3 dB)
Input coupling	AC/DC/GND
Maximum input voltage	400 V DC (with direct input), 1000 V DC (with 9665)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz)



Accessories: No	ne
ANALOG UNIT 896	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm- up time and zero adjustment; Accuracy guaranteed for 1 year, Post- adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for voltage measurement
Input terminals	Isolated BNC connector (input impedance 1 M Ω , input capacitance 30 pF), Max. rated voltage to ground: 300 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Measurement range	100, 200, 400 mV f.s. 1, 2, 4, 10, 20, 40, 100, 200, 400 V f.s., 12 ranges AC voltage for possible measurement/display: 280 V rms Low-pass filter: 5/50/500/5 k/50 k/500 kHz
Measurement resolution	1/2000 of measurement range (using 12-bit A/D conversion)
Maximum sampling rate	20 MS/s (simultaneous sampling across 2 channels)
Measurement accuracy	±0.5% f.s. (with filter 5 Hz, zero position accuracy included)
Frequency characteristics	DC to 5 MHz -3 dB (with AC coupling: 7 Hz to 5 MHz -3 dB)
Input coupling	AC/DC/GND
Maximum input voltage	400 V DC (the maximum voltage that can be applied across input pins without damage)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



4CH ANALOG UNI	T U8975	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 4,	for voltage measurement
Input terminals	Max. rated voltage maximum voltage t	ector (input impedance 1 $M\Omega$, input capacitance 30 pF), to ground: 300 V AC, DC (with input isolated from the unit, the hat can be applied between input channel and chassis and nnels without damage)
Measurement range		200 V f.s., 6 ranges sible measurement/display: 140 V rms 00/5 k/200 kHz
Measurement resolution	1/32,000 of measu	rement range (using 16-bit A/D conversion)
Maximum sampling rate	5 MS/s (simultaneo	us sampling in 4 channels)
Measurement accuracy	±0.1% f.s. (with filter	er 5 Hz, zero position accuracy included)
Frequency characteristics	DC to 2 MHz -3 dB	
Input coupling	DC / GND	
Maximum input voltage	200 V DC (the max damage)	imum voltage that can be applied across input pins without

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



4CH ANALOG UNI	T U8978	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 4	I, for voltage measurement
Input terminals	Max. rated voltag (CAT II) when co	nector (input impedance 1 MΩ, input capacitance 30 pF), e to ground: 30 V AC or 60V DC for direct input, 300 V AC, DC mbined with the 9665 (Between each input channel and the tween the input channels)
Measurement range	100, 200, 400 mV 1, 2, 4, 10, 20, 40 Low-pass filter: 5/	V f.s., 9 ranges
Measurement resolution	1/32,000 of meas	urement range (using 16-bit A/D conversion)
Maximum sampling rate	5 MS/s (simultane	ous sampling in 4 channels)
Measurement accuracy	±0.3% f.s. (with fil	ter 5 Hz, zero position accuracy included)
Frequency characteristics	DC to 2 MHz -3 dl	В
Input coupling	DC/GND	
Maximum input voltage	40 V DC (with dire	ect input), 400 V DC (with 9665)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



HIGH RESOLUTIO 8968	N UNIT (Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment, Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for voltage measurement
Input terminals	Isolated BNC connector (input impedance 1 MΩ, input capacitance 30 pF), Max. rated voltage to ground: 300 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Measurement range	100, 200, 400 mV f.s. 1, 2, 4, 10, 20, 40, 100, 200, 400 V f.s., 12 ranges AC voltage for possible measurement/display: 280 V rms Low-pass filter: 5/50/500/5 k/50 kHz
Anti-aliasing filter	Integrated filter for suppressing aliasing distortion caused by FFT processing (automatic cutoff frequency setting/OFF)
Measurement resolution	1/32,000 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	1 MS/s (simultaneous sampling across 2 channels)
Measurement accuracy	±0.3% f.s. (with filter 5 Hz, zero position accuracy included)
Frequency characteristics	DC to 100 kHz -3 dB (with AC coupling: 7 Hz to 100 kHz -3 dB)
Input coupling	AC/DC/GND
Maximum input voltage	400 V DC (the maximum voltage that can be applied across input pins without damage)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



DC/RMS UNIT 897	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for voltage measurement, DC/RMS selectable
Input terminals	Isolated BNC connector (input impedance 1 M Ω , input capacitance 30 pF), Max. rated voltage to ground: 300 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Measurement range	100, 200, 400 mV f.s. 1, 2, 4, 10, 20, 40, 100, 200, 400 V f.s., 12 ranges AC voltage for possible measurement/display: 280 V rms Low-pass filter: 5/50/500/5 k/100 kHz
Measurement resolution	1/2000 of measurement range (using 12-bit A/D conversion)
Maximum sampling rate	1 MS/s (simultaneous sampling across 2 channels)
Measurement accuracy	±0.5% f.s. (with filter 5 Hz, zero position accuracy included)
RMS measurement	RMS accuracy: ±1% f.s. (DC, 30 Hz to 1 kHz) ±3% f.s. (1 kHz to 100 kHz) Response time: SLOW 5 s (rise time from 0 to 90% of full scale), MID 800 ms (rise time from 0 to 90% of full scale), FAST 100 ms (rise time from 0 to 90% of full scale) Crest factor: 2
Frequency characteristics	DC to 400 kHz -3 dB (with AC coupling: 7 Hz to 400 kHz -3 dB)
Input coupling	AC/DC/GND
Maximum input voltage	400 V DC (the maximum voltage that can be applied across input pins without damage)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 230 g (8.1 oz) Accessories: None



710000001100.1401	
HIGH-VOLTAGE U U8974	NIT (Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment, Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for voltage measurement, DC/RMS selectable Max. rated voltage to ground: 1000 V AC,DC for measurement category III, 600 V AC, DC for measurement category IV
Input terminals	Banana input terminal (Input impedance: 4 MΩ, Input capacitance: 5 pF)
Measurement range	4, 10, 20, 40, 100, 200, 400, 1000 V f.s. (DC mode), 8 ranges 10, 20, 40, 100, 200, 400, 1000 V f.s. (RMS mode), 7 ranges Low-pass filter: 5/50/500/5 k/50 kHz
Measurement resolution	1/32,000 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	1 MS/s
Measurement accuracy	±0.25% f.s. (with filter 5 Hz, zero position accuracy included)
RMS measurement	RMS accuracy: \pm 1.5% f.s. (DC, 30 Hz to 1 kHz), \pm 3% f.s. (1 kHz to 100 kHz) Response time: High speed 150 ms, medium speed 500 ms, low speed 2.5 s
Frequency characteristics	DC to 100 kHz -3 dB
Input coupling	DC / GND
Maximum input voltage	1000 V DC, 700 V AC

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 19.6.5 mm (7.74 in) D, approx. 260 g (9.2 oz)



Accessories: Non	e e
DIGITAL VOLTMET MR8990	FER UNIT (Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and calibration, Accuracy guaranteed for 1 year, Postadjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for DC voltage measurement
Input terminals	Banana input connectors (Input resistance: $100~M\Omega$ or higher with $100~mV$ f.s. to $10~V$ f.s. range, otherwise $10~M\Omega$) Max. rated voltage to ground: $300~V$ AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Measurement range	100, 1000 mV f.s. 10, 100, 1000 V f.s., 5 ranges
Measurement resolution	1/1,000,000 of measurement range (using 24-bit ΔΣ modulation A/D)
Integration Time	20 ms × NPLC (during 50 Hz), 16.67 ms × NPLC (during 60 Hz)
Response time	2 ms +2× integration time or less (rise - f.s. → + f.s., fall + f.s. → - f.s.)
Basic measurement accuracy	±0.01% rdg. ±0.0025% f.s. (at range of 1000 mV f.s.)
Maximum input voltage	500 V DC (the maximum voltage that can be applied across input pins without damage)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 245 g (8.6 oz) Accessories: CONVERSION CABLE L9769 \times 2 (cable length 60 cm (1.97 ft))



STRAIN UNIT U89	(Accuracy at 23 ±5°C/73 ±9°F, 80% RH or less after 30 minutes of 69 warm-up time and auto-balance; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for distortion measurement (electronic auto-balancing,
	balance adjustment range within ±10,000 με or less)
Input terminals	NDIS connector EPRC07-R9FNDIS (via CONVERSION CABLE L9769, NDIS connector PRC03-12A10-7M10.5) Max. rated voltage to ground: 30 V AC rms or 60 V DC (with input isolated from the main unit, the maximum voltage that can be applied between input channel and chassis, and between input channels without damage)
Suitable transducer	Strain gauge converter, Bridge impedance: 120 Ω to 1 k Ω , Bridge voltage: 2 V ± 0.05 V, Gauge rate: 2.0
Measurement range	400, 1000, 2000, 4000, 10,000, 20,000 με f.s., 6 ranges Low-pass filter: 5/10/100/1 kHz
Measurement resolution	1/25,000 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	200 kS/s (simultaneous sampling across 2 channels)
Measurement accuracy After auto-balancing	±0.5% f.s. ±4 με (5 Hz filter ON)
Frequency characteristics	DC to 20 kHz +1/-3 dB

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 230 g (8.1 oz) Accessories: None



CHARGE UNIT U897	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm- up time and zero adjustment; Accuracy guaranteed for 1 year, Post- adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for acceleration measurement
Input terminals	Voltage input / pre-amp embedded input: Metal BNC connector (Under voltage input: input impedance 1 MΩ, input capacitance 200 pF or less) Charge input: Miniature connector (#10-32UNF) Max. rated voltage to ground: 30 V AC or 60 V DC (with input isolated from the main unit, the maximum voltage that can be applied between input channel and chassis, and between input channels without damage) *Voltage input terminal GND and charge input terminal GND for the same channel are shared.
Suitable transducer	Charge output type acceleration detector Pre-amp embedded acceleration detector
Measurement range Charge input (Miniature connector) Pre-amp embedded input (BNC connector)	1 (m/s²) to 200 k (m/s²) f.s., 12 ranges x 6 types Charge input sensitivity: 0.1 to 10 pC /(m/s²) Pre-amp embedded sensor input sensitivity: 0.1 to 10 mV /(m/s²) Amplitude accuracy: ±2% f.s. Frequency characteristics: 1(1.5) to 50 kHz -3 dB (charge input) Low-pass filter: 500/5 kHz Pre-amp supply power: 3.5 mA ±20%. 22 V ±5% Maximum input charge: ±500 pC (6 ranges on high sensitivity side), 50.000 pC (6 ranges on low sensitivity side)
Measurement range Voltage input (BNC connector)	10 mV to 40 V f.s., 12 ranges, DC amplitude accuracy: ±0.5% f.s. Frequency characteristics: DC to 50 kHz -3 dB (with DC coupling), 1 Hz to 50 kHz -3 dB (with AC coupling) Low-pass filter: 5/500/5 kHz, input coupling: AC/DC/GND Maximum input voltage: 40 V DC
Measurement resolution	1/25,000 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	200 kS/s
Anti-aliasing filter	Integrated filter for suppressing aliasing distortion caused by FFT processing (automatic cutoff frequency setting/OFF)
TEDS	IEEE 1451.1.4 class 1 support (Support for sensor information reading and automatic sensitivity setting)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: CONVERSION CABLE 9318 \times 2 (To connect the current sensor to the 9971)



CURRENT UNIT 89	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm- up time and zero adjustment, Accuracy paranteed for 1 year, Post- adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, Current measurement with optional current sensor
Input terminals	Sensor connector (input impedance 1 $M\Omega$, exclusive connector for current sensor via conversion cable the 9318, common GND with recorder)
Compatible current sensors	CT6862, CT6863, 9709, CT6865, CT6841, CT6843, CT6844, CT6845, CT6846, 9272-10 (To connect to the 8971 via the CONVERSION CABLE 9318)
Measurement range	Using 9272-10 (20 A), CT6841: 2 A to 100 A f.s., 6 ranges Using CT6862: 4 A to 200 A f.s., 6 ranges Using 9272-10 (200 A), CT6843, CT6863: 20 A to 1000 A f.s., 6 ranges Using CT6844, CT6845, 9709, CT6846*1, CT6865*1: 40 A to 2000 A f.s., 6 ranges 1: The conversion ratio needs to be set to 2 for scaling.
Measurement accuracy (with 5 Hz filter ON)	±0.65% f.s. RMS accuracy: ±1% f.s. (DC, 30 Hz to 1 kHz), ±3% f.s. (1 kHz to 10 kHz)
Note: Add the accuracy and attributes of the current sensor being used.	RMS response time: 100 ms (rise time from 0 to 90% of full scale) Crest factor: 2 Frequency characteristics: DC to 100 kHz ±3 dB (with AC coupling: 7 Hz to 100 kHz)
Measurement resolution	1/2000 of measurement range (using 12-bit A/D conversion)
Maximum sampling rate	1 MS/s (simultaneous sampling across 2 channels)
Other functions	Input coupling: AC/DC/GND, Low-pass filter: 5/50/500/5 k/50 kHz

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 190 g (6.7 oz) Accessories: None



Accessories. I	Notice
LOGIC UNIT 8973	
Measurement functions	No. of channels: 16 channels (4 ch/1 probe connector × 4 connectors)
	Mini DIN connector (for HIOKI logic probes only),

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



3CH CURRENT UN U8977	IIT (Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 3, Current measurement with optional current sensor
Input terminals	Dedicated connector terminal (ME15W) (input impedance 1 $M\Omega$, common GND with recorder)
Compatible current sensors	9272-05, CT6841-05, CT6843-05, CT6844-05, CT6845-05, CT6846-05, CT6862-05, CT6863-05, 9709-05, CT6904, CT6865-05, CT6875, CT6876 (Direct connection) CT7631, CT7636, CT7642, CT7731, CT7736, CT7742, CT7044, CT7045, CT7046 (Connection using optional CONVERSION CABLE CT9920)
Measurement range	- Directly connected current sensor: Automatically identify rating of compatible current sensors Using 9272-05 (20 A), CT6841-05: 2 A to 100 A f.s., 6 ranges Using 9272-05 (20 A), CT6841-05: 2 A to 100 A f.s., 6 ranges Using 9272-05 (200 A), CT6843-05, CT6863-05: 20 A to 1000 A f.s., 6 ranges Using 9272-05 (200 A), CT6843-05, CT6863-05: 20 A to 1000 A f.s., 6 ranges Using CT6846-05, CT6865-05, CT6876: 80 A to 4000 A f.s., 6 ranges - Current sensors connected using CT9920: Select conversion rate or model Using CT7631, CT7731: 200 A, 1 range Using CT7636, CT7736: 200 A to 1000 A, 3 ranges Using CT7642, CT7742: 2000 A/4000 A, 2 ranges Using CT7644, CT7045, CT7046: 2000 A to 10,000 A, 3 ranges
Measurement accuracy (with 5 Hz filter ON) Note: Add the accuracy and attributes of the current sensor being used.	±0.3% f.s. Frequency characteristics: DC to 2 MHz ±3 dB
Measurement resolution	1/32,000 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	5 MS/s (simultaneous sampling in 3 channels)
Other functions	Input coupling: DC/GND, Low-pass filter: 5/500/5 k/200 kHz

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 204.5 mm (8.05 in) D, approx. 240 g (8.5 oz) Accessories: Ferrite clamp x 2



TEMP UNIT 8967	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80% RH after 30 minutes of warm-up time and zero adjustment; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)
Measurement functions	No. of channels: 2, for temperature measurement with thermocouple (voltage measurement not available)
Input terminals	Thermocouple input: Push-button terminal block, Recommended wire diameter: single-wire 0.14 to 1.5 mm², braided wire 0.14 to 1.0 mm² (conductor wire diameter $\varphi 0.18$ mm (0.01 in) or more), AWG 26 to 16 Input impedance: min. 5 M Ω (with line fault detection ON/OFF) Max. rated voltage to ground: 300 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)
Temperature measurement range Note: Upper and lower limit values depend on the thermocouple	200°C (392°F) f.s. (-100°C to 200°C (-148°F to 392°F)), 1000°C (1832°F) f.s. (-200°C to 1000°C (-328°F to 1832°F)), 2000°C (3632°F) f.s. (-200°C to 2000°C (-328°F to 3632°F)), 3 ranges Measurement resolution: 1/20,000 of measurement range (using 16-bit A/D conversion)
Thermocouple range (JIS C 1602-1995) (ASTM E-988-96)	K: -200°C to 1350°C (-328°F to 2462°F), J: -200°C to 1100°C (-328°F to 2012°F), E: -200°C to 800°C (-328°F to 1472°F), T: -200°C to 400°C (-328°F to 752°F), N: -200°C to 1300°C (-328°F to 2372°F), R: 0°C to 1700°C (32°F to 3092°F), S: 0°C to 1700°C (32°F to 3092°F), B: 400°C to 1800°C (752°F to 3272°F), W (WRe5-26): 0 to 2000°C (32°F to 3632°F) Reference junction compensation: internal/ external (switchable), line fault detection ON/OFF possible
Data refresh rate	3 methods, Fast:1.2 ms (digital filter OFF), Normal:100 ms (digital filter 50/60 Hz), Slow: 500 ms (digital filter 10 Hz)
Measurement accuracy	Thermocouple K, J, E, T, N: \pm 0.1% f.s. \pm 1°C (\pm 1.8°F), (\pm 0.1% f.s. \pm 2°C (\pm 3.6°F) at \pm 200°C to 0°C (\pm 3.28°F to 32°F) to 32°F) to 12°F) Thermocouple R, S, B, W: \pm 0.1% f.s. \pm 3.5°C (\pm 6.3°F)(at 0°C (\pm 2°F) to less than 400°C (\pm 7.52°F); However, no accuracy guarantee at less than 400°C (\pm 7.52°F) for B), \pm 0.1% f.s. \pm 3°C (\pm 5.4°F) (at 400°C or more) Reference junction compensation [RJC] accuracy: \pm 1.5°C (\pm 2.7°F) (added to measurement accuracy with internal reference junction compensation)

Dimensions/mass: approx. 106 mm (4.17 in) W x 19.8 mm (0.78 in) H x 196.5 mm (7.74 in) D, approx. 250 g (8.8 oz) Accessories: None



FREQ UNIT 8970	(Accuracy at 23 ±5°C/73 ±9°F, 20 to 80 % RH after 30 minutes of warm-up time; Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)	
Measurement functions	No. of channels: 2, for voltage input based frequency measurement, rotation, power frequency, integration, pulse duty ratio, pulse width	
Input terminals	Isolated BNC connector (input impedance 1 $M\Omega$, input capacitance 30 pF), Max , rated voltage to ground: 300 V AC, DC (with input isolated from the unit, the maximum voltage that can be applied between input channel and chassis and between input channels without damage)	
Frequency mode	Measurement range: Between DC to 100 kHz (minimum pulse width 2 μs), 20 Hz to 100 kHz f.s., 8 ranges Accuracy: ±0.1% f.s. (exclude 100 kHz range), ±0.7% f.s. (100 kHz range)	
Rotation mode	Measurement range: Between 0 to 2 million rotations/minute (minimum pulse width 2 µs), 2 kr/min to 2 Mr/min f.s, 7 ranges Accuracy: ±0.1% f.s. (exclude 2 Mr/min range), ±0.7% f.s. (2 Mr/min range)	
Power frequency mode	Measurement range: 50 Hz (40 to 60 Hz), 60 Hz (50 to 70 Hz), 400 Hz (390 410 Hz), 3 ranges Accuracy: ±0.03 Hz (50, 60 Hz), ±0.1 Hz (400 Hz range)	
Integration mode	Measurement range: 40 k-counts fig. to 20 M-counts fig. 6 ranges	
Duty ratio mode Measurement range: Between 10 Hz to 100 kHz (minimum pulse width 2 µs), Accuracy: ±1% (10 to 10 kHz), ±4% (10 k to 100 kHz)		
Pulse width mode	Measurement range: Between 2 μs to 2 s, 10 ms to 2 s f.s. Accuracy: ±0.1% f.s.	
Measurement resolution	0.0025% f.s. (Integration mode), 0.01% f.s. (exclude integration, power frequency mode), 0.01 Hz (power frequency mode)	
Input voltage range and threshold level	±10 V to ±400 V, 6 ranges, selectable threshold level at each range	
Other functions	Slope, Level, Hold, Smoothing, Low-pass filter, Switchable DC/AC input coupling, Frequency dividing, Integration over-range keep/return	

System Chart of Options

Model: MEMORY HICORDER MR6000 Model No. (Order code) (Specifications) MR6000 (Main unit only, install up to 8 optional input modules) (Real-time waveform processing and other functions MR6000-01



Note: The main unit cannot operate alone You must install one or more optional input modules in the unit. The Z5021, U8332, and U8333 are factory built-in options and cannot be installed by the user.

Factory-installed option A *Must specify when ordering

*Power can be supplied to up to 9 current sensors, including the current sensors connected to the CURRENT UNIT U8977 and CURRENT UNIT 8971.

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PROBE POWER UNIT Z5021 Specified upon order, DC ±12 V, supply for up to 8 probes

Factory-installed option B



SSD UNIT U8332 Specified upon order; built-in type, 256 GB

Factory-installed option C

*Must specify when ordering



HD UNIT U8333 Specified upon order: built-in type, 320 GB

Storage media

*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



SD MEMORY CARD Z4001

SD MEMORY CARD Z4003



USB DRIVE Z4006

Using highly durable and reliable SLC flash

Case



CARRYING CASE C1010

For the MR6000, hard trunk type, for storing

Input modules



HIGH SPEED ANALOG UNIT U8976 2 ch, voltage input, 200 MS/s, (DC to 30 MHz)

ANALOG UNIT 8966

2 ch, voltage input, 20 MS/s, (DC to 5 MHz)



4CH ANALOG UNIT U8975 4 ch, voltage input, 5 MS/s, (DC to 2 MHz), Input voltage limit: 200 V DC



4CH ANALOG UNIT U8978 4 ch, voltage input, 5 MS/s, (DC to 2 MHz), highest sensitivity range 100 mV f.s.

HIGH RESOLUTION UNIT 8968 2 ch, voltage input, 1 MS/s (DC to 100 kHz)



DC/RMS UNIT 8972 2 ch, voltage/1 MS/s, (DC to 400 kHz) RMS rectifier (DC, 30 to 100 kHz)



HIGH-VOLTAGE UNIT U8974

2 ch, voltage input, max. 1000 V DC and 700 V AC



DIGITAL VOLTMETER UNIT MR8990 2 ch, high-precision DC voltage, 0.1 μ V resolution, maximum sampling rate 500 times/s

3CH CURRENT UNIT U8977 3 ch, for measuring current using dedicated current sensors, can be directly connected to ME15W (12-pin) connector-type sensors, for use with up to 3 units



CURRENT UNIT 8971 2 ch, for measuring current using dedicated current sensors, 2 CONVERSION CABLES 9318 included, for use with up to 4 units

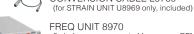


TEMP UNIT 8967 2 ch, thermocouple temperature input



STRAIN UNIT U8969

CONVERSION CABLE L9769



2 ch, for measurement of frequency, RPM, pulse, etc.



CHARGE UNIT U8979

2 ch, for acceleration measurement, supports charge output, pre-amp output, and voltage output



LOGIC UNIT 8973

4 terminals, 16 ch, installable in all 8 slots

Logic signal measurement



LOGIC PROBE 9327

4-channel type, for voltage/contact signal ON/OFF detection (response pulse width 100 ns or more, miniature terminal type)



LOGIC PROBE MR9321-01

4 isolated channels, ON/OFF detection of AC/DC voltage (miniature terminal type)



LOGIC PROBE 9320-01 4-channel type, for voltage/contact signal ON/OFF detection (response pulse width 500 ns or more, miniature terminal type)

External sampling measurement



CONNECTION CABLE L9795-01 Max. rated voltage to ground: 33 V AC rms or 70 V DC, SMB terminal to alligator clip, 1.5 m



CONNECTION CABLE L9795-02

Max. rated voltage to ground: 33 V AC rms or 70 V DC, SMB terminal to BNC terminal, 1.5 m (4.92 ft)

PC Software



Waveform Viewer Wv Software for checking waveforms with binary data on a PC, saving data in CSV format, and transferring to spreadsheet programs

- Operating environment: Windows 10/8/7 (32-bit/64-bit) - Simple display of waveform files Convert binary data files to text

format, CSV, etc.
- Scroll function, enlarge/reduce display, jump to cursor/trigger position, etc

... Standard accessory

WAVE PROCESSOR 9335 PC display for massive amounts of waveform



LAN CABLE 9642 Straight Ethernet cable, supplied with straight to cross conversion cable,

5 m (16.41 ft) length



Over 400 types of calculation processing functions, easy report function

Sold by: TOYO Corporation



Quickly search and process massive amounts of data, share analysis templates

Sold by: Weisang GmbH



NI DIAdem Software that performs data searching and loading to analysis and report creation, in an interactive format

Sold by: Kyowa Electronic Instruments Co., Ltd.

Sor details, see product information on Hioki's website.

*Voltage is limited to the specifications of the input modules in use. INPUT CORD (A)

CONNECTION CORD L9790 Flexible φ 4.1 mm (0.16 in) thin dia. cable allowing for up to 600 V input, 1.8 m (5.91 ft) length *The end clip is sold separately

ALLIGATOR CLIP L9790-01 Red/black set attaches to the ends of the cables L9790

GRABBER CLIP 9790-02

*When this clip is attached to the end of the L9790, input is limited to CAT II 300 V. Red/black set.

CONTACT PIN 9790-03 Red/black set attaches to the ends of the cables L9790

*Voltage is limited to the specifications of the input modules in use. INPUT CORD (B) CONNECTION CORD L9198

φ 5.0 mm (0.20 in) dia., cable allowing for up to 300 V input, 1.7 m (5.58 ft) length, small alligator clip CONNECTION CORD L9197

 φ 5.0 mm (0.20 in) dia., cable allowing for up to 600 V input, 1.8 m (5.91 ft) length, detachable large alligator clips are bundled

GRABBER CLIP 9243 Attaches to the tip of the L9197, red/black set, full length: 196 mm (7.72 in)

*Voltage is limited to the specifications of the input modules in use. INPUT CORD (C)



10:1 PROBE 9665

Max. rated voltage to ground is same as for input module, max. input voltage 1 kV rms (up to 500 kHz), 1.5 m (4.92 ft) length

100:1 PROBE 9666 Max. rated voltage to ground is same as for input module, max. input voltage 5 kV peak (up to 1 MHz), 1.5 m (4.92 ft) length

INPUT CORD (D) "Voltage to ground is within this product's specifications. "Separate power source is also required."



DIFFERENTIAL PROBE P9000-01 Wave Only) For Memory HiCorder, 1 kV AC, DC, Frequency band: 100 kHz

DIFFERENTIAL PROBE P9000-02 (Switch between Wave/RMS) For Memory HiCorder, 1 kV AC, DC, Frequency band: 100 kHz

AC ADAPTER 71008 100 to 240 V AC

*Voltage to ground is within this product's specifications INPUT CORD (E)



DIFFERENTIAL PROBE 9322 1 kV AC, 2 kV DC, Frequency band: 10 MHz

AC ADAPTER 9418-15 100 to 240 V AC

*Voltage input via banana termi voltage specifications of the re INPUT CORD (F)



CONNECTION CABLE L4940 Banana plug - banana plug, Cord length: 1.5 m (4.92 ft)

EXTENSION CABLE L4931 Extend the length of banana plug cables, Cable length: 1.5 m (4.92 ft)

ALLIGATOR CLIP L4935 Attach to the tip of banana plug cables, CAT IV 600 V, CAT III 1000 V $\,$

BUS BAR CLIP L4936

Attach to the tip of banana plug cables, CAT III 600 V

MAGNETIC ADAPTER L4937 Attach to the tip of banana plug cables, CAT III

GRABBER CLIP 9243

Attach to the tip of banana plug cables, red/black set, full length: 196 mm (7.72 in), CAT III 1000 V

INPUT CORD (G) *For the MR8990 *Voltage is limited to the specifications of the input modules in use



TEST LEAD L2200 Cable length: 70 cm (2.30 ft), tips interchangeable with a pin test lead or alligator clip, maximum input voltage: CAT IV 600 V, CAT III 1000 V

High-precision current measurement *ME15W (12-pin) terminal type *Directly connect to U8977



High-precision pull-through current sensors, observe waveforms from DC to distorted AC AC/DC CURRENT SENSOR CT6862-05, 1 MHz, 50 A AC/DC CURRENT SENSOR CT6863-05, 500 kHz, 200 A Observe waveforms from DC to distorted AC AC/DC CURRENT PROBE CT6841-05, 1 MHz, 20 A AC/DC CURRENT PROBE CT6843-05, 500 kHz, 200 A

CLAMP ON SENSOR 9272-05, 100 kHz, 200 A

High-precision pull-through current sensors, observe waveforms from DC to distorted AC AC/DC CURRENT SENSOR CT6875, 2 MHz, 500 A

AC/DC CURRENT SENSOR CT6876, 1.5 MHz, 1000 A
Observe waveforms from DC to distorted AC AC/DC CURRENT PROBE CT6844-05, 200 kHz, 500 A AC/DC CURRENT PROBE CT6845-05, 100 kHz, 500 A AC/DC CURRENT PROBE CT6846-05, 20 kHz, 1000 A

Precautions when connecting the CURRENT UNIT 8971 with a high-precision current sensor

 High-precision current sensor (ME15W) + CT9901 + 9318 → CURRENT UNIT 8971 -High-precision current sensor (ME15W) + C199U1 + 9318 → CUHRENT UNIT 897 -High-precision current sensor (ME15W) + C1955x + BNC cable → except -High-precision current sensor (PL23) + 9318 → CURRENT UNIT 8971 -High-precision current sensor (PL23) + C19900 + C1955x + BNC cable → except -CURRENT UNIT 8971

The 9318 is bundled with the CURRENT UNIT 8971.

Combine the high-precision current sensor and the power supply CT9555) to perform current measurements with a voltage input unit. July sensors with ME15W (12-pin) terminals (-05 type) can be connec

The separately available CONVERSION CABLE CT9900 is required in orde to use a sensor with a PL23 (10-pin) terminal.

POWER SUPPLY for Sensors SENSOR UNIT CT9555 1 ch, with waveform output

CONNECTION CORD L9217 Both cord ends are isolated BNC, 1.6 m (5.25 ft)

PL23 (10-pin) - ME15W (12-pin) conversion



CONVERSION CABLE CT9900 Convert PL23 (10-pin) terminal to ME15W (12-pin) terminal

y available CONVERSION CABLE CT9901 is required in high-precision current sensor equipped with a ME15W all (-05 type) with the CURRENT UNIT 8971. at (V3 ype) with cook in a sensor equipped with 55x is not required in order to use a sensor equipped with 1) terminal with the 8971, the CONVERSION CABLE 9318 with the 8971) is required for that setup.

ME15W (12-pin) - PL23 (10-pin) conversion



Other current sensor types

The MEMORY HICORDER can be used with various types of current sensors and probes

U8977 only

10 mA class to 500 A (High speed)



CURRENT PROBE CT6701 Frequency characteristics: DC to 120 MHz wideband response, 1 mA-class up to 5 A rms

CLAMP ON PROBE 3273-50 Frequency characteristics: DC to 50 MHz wideband response, 10 mA-class up to 30 A rms

CLAMP ON PROBE 3276 Frequency characteristics: DC to 100 MHz wideband response. 10 mA-class up to 30 A rms

CLAMP ON PROBE 3274 Frequency characteristics: DC to 10 MHz wideband response, up to 150 A rms

CLAMP ON PROBE 3275

Frequency characteristics: DC to 2 MHz wideband response, up to 500 A rms

For P9000. Inquire with your local Hioki distributor.

Non-contact voltage measuring

Sold individually

Sold individually

General-purpose current measurement *PL14 terminal type

AC/DC AUTO ZERO CURRENT SENSOR CT7731 DC, 1 Hz to 5 kHz, 100 A

AC/DC AUTO ZERO CURRENT SENSOR CT7736 DC, 1 Hz to 5 kHz, 600 A

AC/DC AUTO ZERO CURRENT SENSOR CT7742 DC, 1 Hz to 5 kHz, 2000 A AC/DC CURRENT SENSOR CT7631

DC, 1 Hz to 10 kHz, 100 A AC/DC CURRENT SENSOR CT7636 DC. 1 Hz to 10 kHz, 600 A

AC/DC CURRENT SENSOR CT7642 DC, 1 Hz to 10 kHz, 2000 A

AC FLEXIBLE CURRENT SENSOR CT7044 ф100 mm (3.94 in), 6000 A

AC FLEXIBLE CURRENT SENSOR CT7045 ф180 mm (7.09 in), 6000 A

AC FLEXIBLE CURRENT SENSOR CT7046 ф254 mm (10.00 in), 6000 A

eparately available CONVERSION CABLE CT9920 is red in order to connect a PL14 terminal general-purpose nt sensor to the CURRENT UNIT U8977.

PL14 - ME15W (12-pin) conversion



CONVERSION CABLE CT9920 Convert PL14 terminal to ME15W (12-pin)

Leak Current *For commercial power lines, 50/60 Hz



CLAMP ON LEAK HITESTER 3283 10 mA range / 10 µA resolution to 200 A range, with monitor / analog output 1 V f.s.

OUTPUT CORD L9095 Connect to BNC terminal, 1.5 m (4.92 ft) length



Precautions for connecting current sensors and current probes

*Depending on the combination of current sensors and current probes, physical and space limitations may prevent simultaneous connection. Hioki can assist with special order conversion cables please inquire with your local distributor.

*A total of 9 current sensors and current probes can be connected simultaneously to the Memory HiCorder. (Total with the CURRENT UNIT U8977, CURRENT UNIT 8971, and PROBE POWER UNIT Z5021 connected)

*Three U8977 current units and four 8971 current units can be simultaneously connected to the Memory

*If combining a current sensor or current probe with a sensor power source and using the voltage input analog unit for current measurement, there is no limitation on the number of connections.

*Only the U8977 can use the CT9920 to convert a PL14 connector sensor. The 8971 does not support this combination.

Other options for input CONNECTION CORD L9217



Custom cable

(3) 3-prong cable

(1) Bus powered USB cable

(2) USB(A)- Micro B cable

Cord has insulated BNC connectors at brends, signal output use, 1.6 m (5.25 ft) length

NON-CONTACT AC VOLTAGE PROBE SP3000-01 5 V rms rated, 10 Hz to 100 kHz band width

NON-CONTACT AC VOLTAGE PROBE SP3000

AC VOLTAGE PROBE SP9001

CONVERSION ADAPTER 9199 Receiving side banana terminal, output BNC terminal

Temperature sensor



THERMOCOUPLE *For reference only. Please purchase locally.

R&D Tests and Critical Analyses Meeting the High Demands of a Broad Range of Industries





High-speed 200 MS/s measurement of inverter waveforms

Perform high-speed isolated recording across 16 channels at 200 MS/s by installing 8 units of U8976.

MEMORY HICORDER	MR6000	1 unit
HIGH SPEED ANALOG UNIT	U8976	8
10:1 PROBE	9665	16



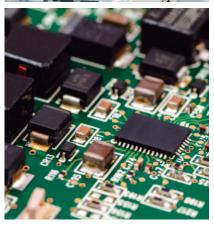
Multi-channel measurement for ECU development

Perform multi-channel recording across 32 channels at 5 MS/s by installing 8 units of U8975.

MEMORY HICORDER	MR6000	1 unit
4ch ANALOG UNIT	U8975	8
CONNECTION CORD	L9790	32
ALLIGATOR CLIP	L9790-01	32

Perform mixed multi-channel measurements across 16 analog and 64 logic channels by installing 4 units of U8975 and 4 units of 8973.

MEMORY HICORDER	MR6000	1 unit
4ch ANALOG UNIT	U8975	4
CONNECTION CORD	L9790	16
ALLIGATOR CLIP	L9790-01	16
LOGIC UNIT	8973	4
LOGIC PROBE	9327	16



Remove harmonic noise

The MR6000-01 comes with a digital filter calculation function that removes specific frequency noise from measurement data.

	MEMORY HICORDER	MR6000-01	1 unit
	ANALOG UNIT	8966	8
	CONNECTION CORD	L9790	16
	ALLIGATOR CLIP	L9790-01	16

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