



The Power of One

IS8000 Integrated Software Platform



Precision Making

Bulletin IS8000-01EN



For over 100 years, Yokogawa has built a reputation on understanding the needs of researchers, scientists, and engineers across the globe. To ensure reliable and trustworthy results, these professionals require accuracy, stability, and reproducibility from their measurement system.

The IS8000 software platform is an integrated solution that accelerates engineering workflow. It is a revolutionary software that tightly integrates the timing, control, and data collection from multiple instruments, creating a comprehensive measurement suite that delivers confidence, efficiency, and unity.

Unity

Unification of Yokogawa instruments ensures measurement coherency during the product development process and allows for effortless data sharing throughout an organization. IS8000 makes it easier to debug and analyze data by viewing all measurements under one unified display.

Efficiency

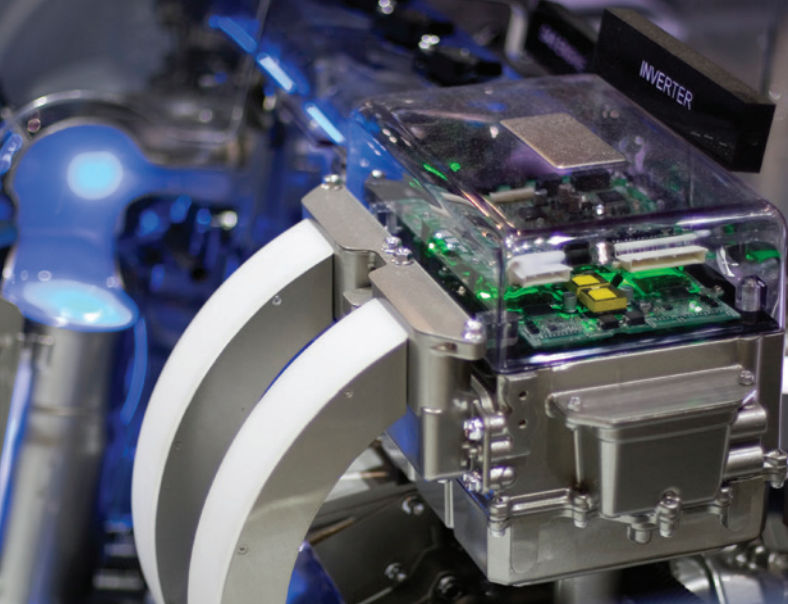
IS8000 allows you to streamline the product development process by spending less time developing testing systems and more time collecting valuable test data. With one software to setup and control all the instruments you need, you can start measuring data faster and more efficiently.

Synchronization

Storing data in one format and location has never been simpler. IS8000 gives you data you can trust by synchronizing measurements across multiple instruments utilizing an IEEE1588 time base.

Scalability

With today's fast evolving technology, a software that has the ability to expand is crucial. As your needs evolve, so can IS8000. Analyze your data deeper with add-on software packages.



The Power of One

Power Measurement, High-speed Waveform Logging, and Analysis Software in a Single Package

The IS8000 software platform is an integrated solution that accelerates engineering workflow. It is a revolutionary software solution that tightly integrates the timing, control, and data collection from multiple instruments, creating a comprehensive measurement suite that delivers high confidence, efficiency, and unity.



- 1 Acquired waveforms
- 2 Power trend display
- 3 Power numeric display
- 4 Three-phase vector diagram
- 5 Remote control interface
- 6 FFT Analysis (MH1 option)
- 7 High-speed camera image (FS1 option)

Accelerate Your Engineering Workflow

Device control	Measurement	Analysis	Export
Device Settings Remote Monitoring	High-speed Acquisition	Enhanced Viewer	Export to CSV CSV
Application Control Interface	High-Speed Cam. Sync.	Interharmonic/ Harmonic analysis	Export to MDF MDF
Modbus/TCP Communication	ECU Monitor Sync.	FFT Analysis Enhanced Math	Report Generator
Multi-unit connection Power & Waveform Sync.	IEC Harmonic/Flicker Test & Analysis IEC 61000	Serial Bus Analysis	Standard functions of the software platform Add-on Functions Only available in IS8011/8012

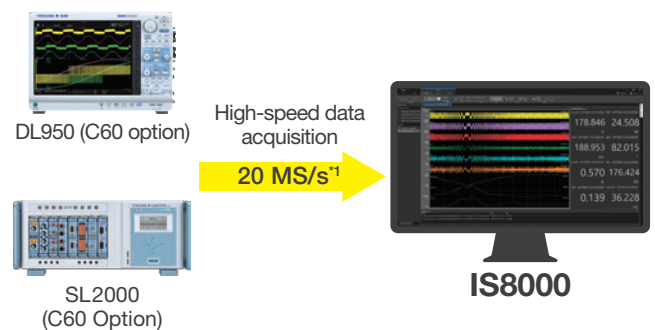
A Variety of Real-time Data Acquisition and Synchronization

High-speed and long-term data acquisition via 10 GbE

By combining the 10 GbE option (C60 option) on the DL950/SL2000 and the IS8000, up to 8 channels of data can be stored in real time on a PC at a sampling rate of up to 20 M Sample/s¹ with no limit on recording time². Even high-speed and multi-channel inputs, such as gate signals and switching waveforms of multi-phase inverters, can be recorded for long periods of time, reducing evaluation time significantly.

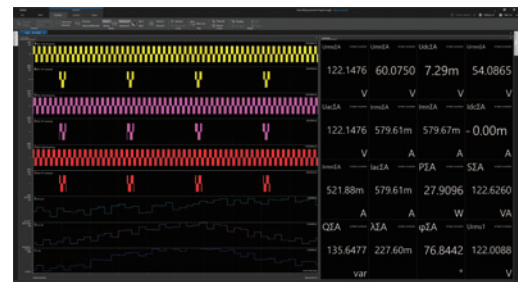
*1 With 1 Gb Ethernet/USB connection, the maximum transfer rate is 6.4 MB/s (200 kS/s × 16 ch).

*2 Data can be recorded until the remaining storage space of the PC becomes less than 10%.



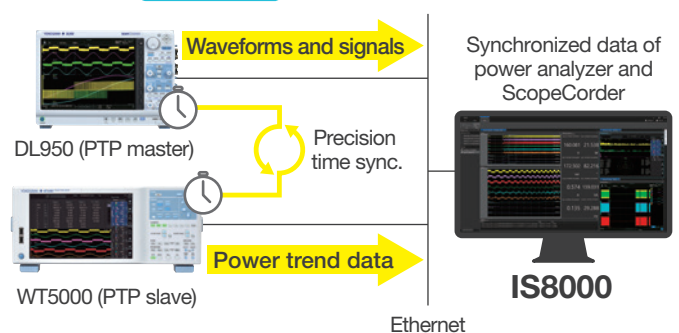
Real-time Recording of Power Parameters and Voltage and Current Waveforms by the Precision Power Analyzer

The IS8000 supports the WT5000's remote measurement. It provides numeric display of power parameters, trend graph, and real-time display of voltage/current compressed waveforms. In addition, the WT5000's DS option allows you to continuously record waveform data synchronized with power parameter measurements without any gaps and compression. This enables detailed analysis to understand how the noise on waveforms or the change in control state affects the power values and parameters.



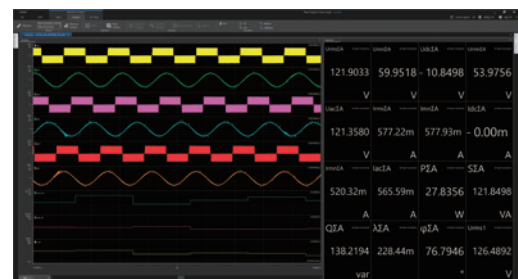
Multi-unit measurement with Time Synchronization SY1 option

The IS8000's SY1 option enables up to 5 units of the WT5000 precision power analyzer and the DL950 ScopeCorder to be connected for highly accurate synchronized measurement. It also allows simultaneous recording and display of highly reliable power measurements calibrated to national standards and high speed, high precision voltage/current and motor torque waveforms. Motors and inverters can be evaluated accurately and efficiently.



Data Integration and Analysis, File Output

The IS8000 allows multiple measurement data files to be overlaid and displayed with the start or end of the data, trigger timing, or measurement time as a reference point. Data files of synchronous measurement using the high-precision time synchronization feature (IEEE1588PTP) or the connection function between the same models of the WT5000, DL950, SL2000, and DLM3000HD/5000HD can be integrated and displayed as a single measurement data on the IS8000.



Extensive Measurement data and analysis functions

Synchronization High-speed camera FS1 option

IS8000 synchronizes high speed camera^{*1} images with related current, voltage, and control signals. Simultaneous slow motion playback allows visualization between design and results. In addition, the video files^{*2} captured by non-supported cameras can also be imported and played back in sync with waveforms and power trend data with IS8000.

*1 Supported camera: Photron's FASTCAM SA-Z, Mini AX/UX/WX series, FASTCAM Nova S series and Nova R2

2 Supported video file format: AVI (.avi), MP4 (*.mp4), WMV (*.wmv), AVCHD (*.mts), MOV (*.mov), MPEG2-PS (*.mpg, *.mpeg)

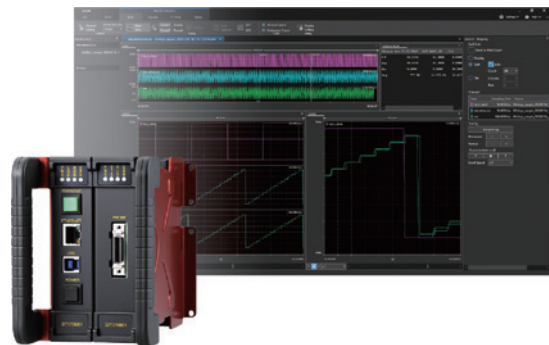


Synchronized Measurement with RAM Data EM1 option

IS8000 can acquire vehicle control data created by the control MPU in the Electronic Control Unit (ECU) via the DTS Insight's RAMScope series, a verification tool for MPU control software. The DL950 provides noise-resistant, multi-channel, high-speed, high-voltage inputs and synchronous measurement of RAM values, which are effective in evaluation of power units that control inverters in response to load fluctuations.

Applicable instruments: DTS INSIGHT RAMScope GT170 (RAM measurement module only), GT122

Applicable model: DL950



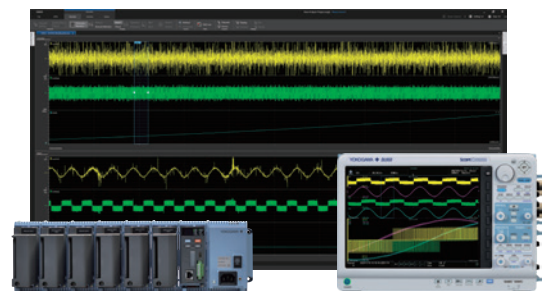
Serial Bus (CAN bus) Analysis SB1 option

This function enables decoding of communication contents, frame display, and search for specific information in CAN bus communication signal. This new serial bus analysis option can also be used to analyze signal waveforms acquired not only by YOKOGAWA's oscilloscopes but also by the ScopeCorder series and IS8000.



Simultaneous Measurement with Modbus/TCP Communication Devices MB1 option

Samples of communication configuration file to connect with the YOKOGAWA GM10 and VZ20X recorders is included with the software. The included tool can also create configuration files to connect other Modbus/TCP communication devices. This feature is very useful in development of air conditioning equipment and other applications that require many input channels, long recording times and a wide variety of temperature sensors.



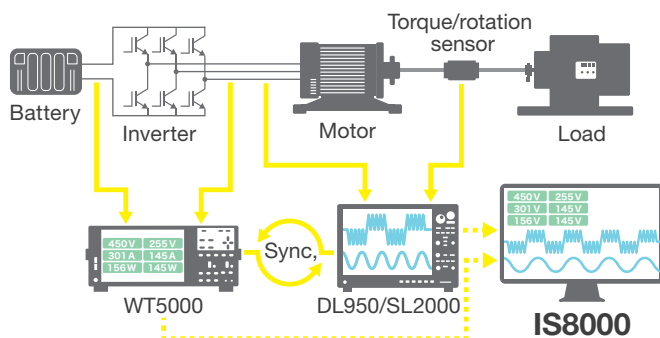
Applications

Evaluate all electrical and mechanical test faster with IS8000

Motor Efficiency

High Precision synchronized power and high speed recorder measurements

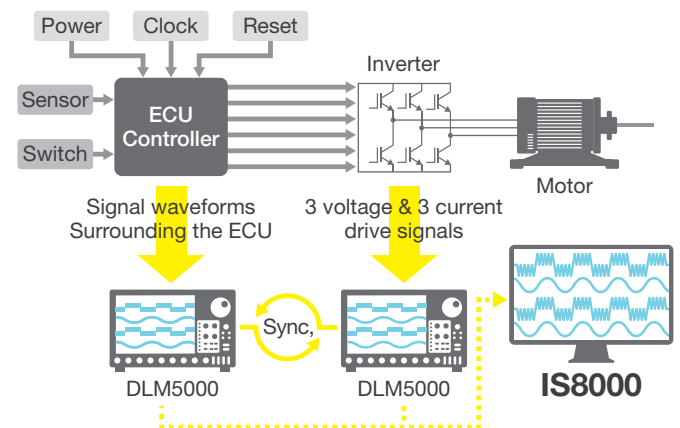
Data from the WT5000 power analyzer and DL950 ScopeCorder is time correlated with less than 10 μ s error using IEEE1588 PTP technology. Precise power parameters and waveforms are displayed on the same time axis.



Switching Waveform Analysis for IGBT Inverter

Combining multiple waveforms

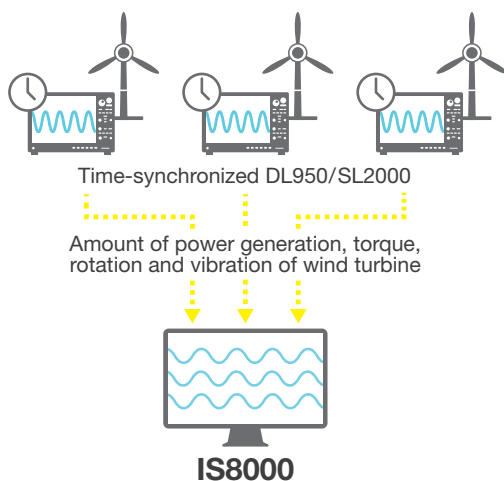
More than 8 waveforms are required to measure inverter performance in a loaded system. IS8000 can connect with multiple 8 channel DLM5000 oscilloscopes for analog and digital signals to scale up to any channel requirement, all in one control and viewing interface.



Solar/Wind Power System Development

View and compare waveforms from multiple instruments

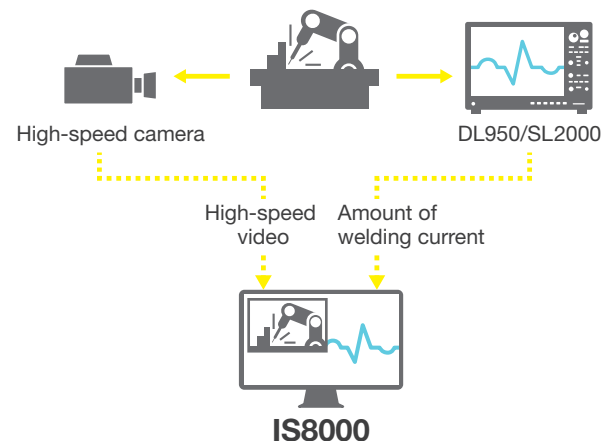
IS8000 can easily synchronize waveforms from multiple instruments, creating an easy view for comparison. Manipulating waveforms is easily done with zoom and pan controls to analyze long records of energy waveforms.



Analysis of Robotic Welding Control

Simultaneous recording of multiple signal types

IS8000 displays multiple inputs. The camera image is aligned in time with the other waveform, including the control signals and the voltage and current waveforms. Simultaneous slow motion playback allows visualization between design and results.



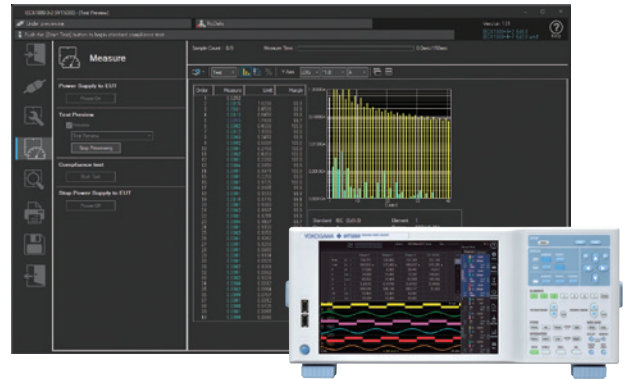
Measurement of Harmonic with International Standard

IS8011/IS8012 Harmonic/Flicker Analysis Software

Optional software package for IEC Harmonic and Flicker compliance test

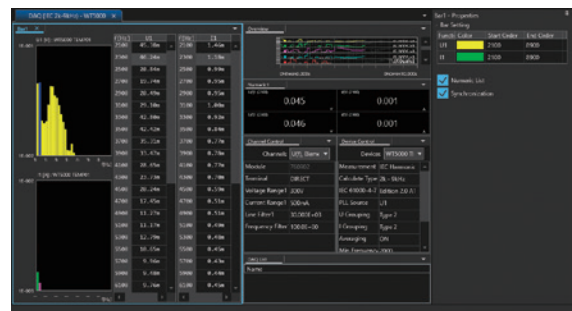
IS8011/IS8012 optional software package is designed to perform harmonic and flicker tests in accordance with IEC61000-3-2, 3-3, 3-11 and 3-12 standards using the WT5000 precision power analyzer. Users can easily set the conditions and output the test report without any specialized knowledge.

Users can make a pass/fail judgment by class A, B, C, and D of the harmonic current measurement values.



IS8001/IS8002 Standard Function for IEC Harmonic Display

Harmonic measurements in accordance with IEC standards can be displayed by combining the IS8001 or IS8002 with the WT5000 Precision Power Analyzer (with G7 option). Harmonic grouping specified in IEC61000-4-7 Ed.2.1 Annex A and B is supported, and measurement can be performed according to various standards related to the IEC61000-4-7.



Example of supported harmonic grouping and related standards

Edition for IEC 61000-4-7	grouping	Harmonic order / Frequency	Related standard
Ed. 2.1 Annex A	Harmonic subgroup	2 nd to 50 th	VDE-AR-N 4105
	Interharmonic group	2 nd to 50 th (105 Hz to 2545 Hz) for 50 Hz Power system 2 nd to 50 th (125 Hz to 3055 Hz) for 60 Hz Power system	IEEE1547-2018
	Interharmonic centred subgroup	1 st to 39 th (60 Hz to 1990 Hz) for 50 Hz Power system 1 st to 32 nd (70 Hz to 1970 Hz) for 60 Hz Power system	VDE-AR-N 4105
Ed. 2.1 Annex B	Harmonic group	2 kHz to 9 kHz	VDE-AR-N 4105

Difference between IS8001/IS8002's harmonic display function and IS8011/IS8012

Software	Application	Applicable model
IS8001/IS8002 Integrated Software Platform Harmonic display function	Display and save the results of harmonic measurement of equipment performed by the WT5000 in accordance with IEC and EN standards. IEC 61000-4-7 Ed. 2.1 Annex A and B are supported.	WT5000 G7 is required.
IS8011/IS8012 IEC Harmonic/Flicker Software	Measure harmonics and voltage fluctuations/flickers of equipment in accordance with IEC, EN, and JIS standards in combination with the WT5000 and display and save the results of compliance judgment according to the standard for limits .	WT5000 G7 is required.

High-speed and Simple Waveform Viewer Software

IS8002CDV Classic Data Viewer

The IS8002CDV Classic Data Viewer is waveform display software that inherits the design and performance of the 701992 Xviewer software, a standard waveform viewer for YOKOGAWA oscilloscopes and ScopeCorders. It delivers easy and swift processing and enables you to remotely control a measuring instrument, transfer data, view files, and perform math analysis (optional). The Classic Data Viewer supports the latest oscilloscopes and ScopeCorder in addition to YOKOGAWA's conventional measuring instruments that are supported by Xviewer.

the IS8002CDV Classic Data Viewer does not have the following functions and options that are provided by the 701992 Xviewer software:
Report generator, XviewerEYE, and DL850 advanced utility



Main & Zoom Display

A quick zooming function allows users to display an entire waveform and zoomed waveform at the same time to view it in detail. Even a large amount of data captured by the DL/DLM series models can be zoomed in and out smoothly.

Automated Measurement of Waveform Parameters

Various parameters can be automatically measured on a displayed waveform. The results of parameter measurement can be saved as a file in CSV format.

Data Format Conversion

The data format of a file can be converted to CSV (ASCII) or Excel. Multiple files can be converted at once.

Communication with Instruments

Connect an instrument to the IS8002CDV Classic Data Viewer via Ethernet, USB, or GP-IB to transfer data, remotely control the instrument and download waveforms.

Waveform Math Function (optional)

Up to 32 channels of math waveforms can be defined and displayed based on the measured waveform data. The waveform math feature allows for FFT analysis and digital filter computation and provides a variety of frequency-domain analysis functions, such as power spectrum.

IS8002CDV vs IS8001/IS8002

	IS8002CDV Classic Data Viewer	IS8001/IS8002 ¹ Integrated Software Platform
Remote Operation of Measurement Instruments		
DL950, SL2000	✓	✓
WT5000, WT1800R		✓
Other DLM, DL series	✓	✓
Waveform Display		
Max. Displayed Waveforms	90 ch/Gr. × 10 Gr.	128 ch/Gr. × 16 Gr.
Display Formats	Main, Zoom, History, X-Y	Main, Zoom, History, X-Y
Cursor	Vertical, Horizontal, X-Y	Vertical, Horizontal
Waveform Parameter Measurements	28 parameters	28 parameters
Statistical Calculations	Cycle, History	Cycle, History
Waveform Computation (available only with the Math option)		
Max. Displayed Waveforms	Math (including FFT) 32 ch	Math 16 ch, FFT 16 ch
Operator	59 types	59 types
Max. Number of computed points	12.5 M points	100 M points
FFT Window	Rect, Hanning, Flat top	Rect, Hanning, Flat top, Hamming
Digital Filter	Gauss, Sharp, IIR	Gauss, Sharp, IIR
Max. FFT Points	2 M points	100 M points
Waveform Data Loading and Conversion		
WDF files, WVF files	Loading, Conversion	Loading
CSV files	Loading, Batch Conversion	Loading, Batch Conversion
MAT (MATLAB) files	Loading, Conversion	
MDF files, MF4 files		Loading, Conversion
Online Measurement		
WT5000, WT1800R		✓
DL950, SL2000		✓
		10 GbE, 1 GbE, USB connection
DL950, SL2000 (1 GbE, USB)		✓

¹ Classic Data Viewer is available at no extra charge on PCs with a valid IS8001/IS8002 license activated.

IS8000 Software Lineup

Features	Integrated Software Platform ^{*1}		Classic Data Viewer	IEC Harmonic/Flicker
	IS8001 (Annual) ^{*2} IS8002 (Perpetual) ^{*2}	Simple (free) edition	IS8002CDV (Perpetual)	IS8011 (Annual) IS8012 (Perpetual)
Data file import/export				
WDF/WVF files (Measurement data of YOKOGAWA oscilloscope/Scopecoder)	Import only	Import only	Import/Export	Import only
CSV files (Measurement data of YOKOGAWA oscilloscope/Scopecoder)	Import/Export	Import/Export	Import/Export	Import/Export
CSV files (saved on WT1800 series, WT3000 series, WT5000)	Import only	Import only		Import only
MF4 files (IS8000 measurement data) and IS8000 project files	Import/Export	Import only		Import only
CSV batch conversion	✓		✓	
MAT files (MATLAB format)			Import/Export	
CSZ files (CSV files compressed in zip format)	Import/Export			
Online data acquisition				
Real-time data acquisition with DL950, SL2000 (Include connection of 10 GbE)	✓			
Monitoring, real-time data acquisition with WT5000, WT1800R	More than 9 items	Up to 8 items		Up to 8 items
WT5000 data streaming function (DS) support	✓			
Application Programming Interface for External Control and Extension	✓			
Remote control				
Remote control and cached data import with DL950, SL2000 via 10 GbE connection	✓		✓	
Remote control and cached data import with DL950, SL2000 via 1 GbE/USB	✓		✓	
Remote control with WT5000, WT1800R via 1 GbE/USB	✓	✓		✓
Remote control and cached data import with other DL/DLM series via 1 GbE/USB	✓ ^{*4}		✓	
Remote control, monitoring and real-time data acquisition for up to 5 devices	SY1 option			
File manager				
Transfer saved file from YOKOGAWA oscilloscope/Scopecoder	✓		✓	
Analysis				
Combining, overlaying and separation of multiple measurement waveforms	✓			
Max. number of display channels	128 channels × 16 Gr.	8 channels × 1 Gr.	90 channels × 10 Gr.	8 channels × 1 Gr.
Max. number of zoom screens/Max. number of X-Y screens	4 screens/2 screens	1 screen/1 screen	1 screen/1 screen	1 screen/1 screen
Cursor measurement/Display history data and dual capture data	✓	✓	✓	✓
Automatically measure waveform parameters/Inserting annotations/Automated measurement of history/cycle statistics	✓		✓	
Inter-channel calculation/FFT analysis	MH1 option ^{*3}		Math option	
Power numeric display	4 to 32 values × 2 screens	4 or 8 values × 1 screen		4 or 8 values × 1 screen
Harmonic bar graph display	Bar panel × 6 screens	Bar panel × 1 screen		Bar panel × 1 screen
Report generator function	RP1 option			
Synchronized measurement with video files/High-speed camera	FS1 option			
Synchronized measurement with ECU monitor	EM1 option			
Serial Bus (CAN bus) Analysis	SB1 option			
Simultaneous Measurement with Modbus/TCP Communication Devices	MB1 option			
IEC Harmonic/Flicker testing (WT5000 with G7 option required)				
IEC Harmonic/Flicker testing, judgement and report creation with WT5000				✓
Display and save the results of harmonic measurement in accordance with IEC	✓	✓		✓

*1 After 30 days have passed since you started to use the trial version without activation or the annual license has expired, the software will switch to the simple (free) edition.

*2 Classic Data Viewer is available at no extra charge on PCs with a valid IS8001/IS8002 license activated.

*3 Math function of Classic Data Viewer is available at no extra charge on PCs with a valid IS8001/IS8002 license activated.

*4 Please refer to the specifications table for supported devices.

Main Specifications

IS8001/IS8002 Integrated Software Platform	
Please refer to our website for the most up-to-date specifications; the information provided here pertains to Version 25.2	
Connecting support firmware	
DL950, SL2000	Ver. 2.01 or later
WT5000	Ver. 3.31 or later
Languages	
English/Chinese/Japanese	
PC requirements	
For data acquisition with 10 Gb Ethernet connection; Desktop PC required/CPU: Intel Core i7-10700K with 4 cores (8 threads), 4.7 GHz or faster Intel CPU/Amount of memory: 16 GB or more/Amount of SSD: 512 GB or more (M.2 slot is recommended, Sequential read/write 3 GB/s or faster)	
For data acquisition with 1 Gb Ethernet/USB connection and offline analysis; CPU: Intel Core i5-10210U with 4 cores (8 threads), 4.2 GHz or faster Intel CPU/Amount of memory: 8 GB or more/Amount of SSD: 256 GB or more (Sequential read/write 400 MB/s or faster)	
OS	
Windows 11 Pro or Enterprise edition (except EM1 option) Windows 10 64 bit Pro or Enterprise edition	
Communication interface	
USB (USBTMC/VISA), Ethernet (VXI-11, HiSLIP, Modbus/TCP ³)	
Display resolution	
1366 × 768 dots or higher, 100% zoom	
Number of connectable units	
Up to 5 units (Only one unit without SY1 option; SY1 option is required even if the time synchronisation is not used)	
Supported file format	
WDF	DL350, DL850 series, DL950, SL2000, SL1000, DLM2000, DLM4000, DLM3000HD/DLM3000/DLM5000HD/DLM5000
CSV (Waveform data)	DL950, SL2000, DL850 series, DL350, DLM3000HD/3000/5000HD/5000, DLM4000/2000, IS8000 ¹ , IS8002CDV, and Xviewer
CSZ	IS8000 CSV data compressed in ZIP format
CSV (Power measurement data) ²	WT5000, WT3000 series ¹ , WT1800 series
MF4	IS8000 (ASAM MDF 4.1 files)
WVF	DL750, SL1400
mepjt, anpjt	IS8000 (Project files)
Export file formats	
ASAM MDF 4.1 files (mf4), ASCII files (csv), CSV files compressed in ZIP format (csz), WDF files	
Online data acquisition (DL950, SL2000)⁷	
Motion mode	Scope mode (Trigger ¹² /Free-run) ⁴
Maximum transfer rate	10 Gb Ethernet connection: 320 MB/s (20 MS/s × 8 ch, 10 MS/s × 16 ch) 1 Gb Ethernet/USB connection: 6.4 MB/s (200 kS/s × 16 ch)
Online data acquisition (WT5000, WT1800R)⁷	
Monitoring/DAQ items	Power trend graph and numeric Data-streaming waveform ³ Harmonic bar graph ⁹ Vector diagram
Online data acquisition (common)⁷	
Maximum continuous recording time/size	The recording will be kept until free storage space falls below 10%.
Maximum recording channels	160 channels
Display format	
Common	TY-Overview: up to 128 ch for each group, up to 16 group XY: up to 2 windows for each group TY-View: up to 4 areas for each group Numeric Monitor: Up to 128 channels
WT5000, WT1800R	Power trend graph and numeric display Peak-to-peak compressed waveform (Data update interval: 1 s or slower) Data streaming waveform display ³ Bar graph of the amplitude and phase of each harmonic ⁹ ¹⁰ Harmonic list display Matrix display Vector diagram
Waveform overlays	
Aligned by time, absolute time, head of data, end of data or arbitrary position	
Automated waveform parameter measurements	
Parameters	28 parameters (including P-P, Amp, RMS and Freq).
History statistics	Waveform parameters for each waveform in the historical memory and their statistics can be calculated automatically.
Cycle statistics	Waveform parameters of each period of a cyclic waveform and their statistics can be calculated automatically.
Cursor Vertical (up to 2 cursors in a window), Horizontal (up to 2 cursors in a window)	
Annotation	
Comments, acquired data and calculated values can be added on the overview/view, waveform window and X-Y window.	
Supported devices	

Data acquisition	DL950, SL2000, WT5000 ¹¹
Flash ACQ data saving	DL950, SL2000
Remote control and setting, acq. data download	DL350, DL850 series, DL950, SL2000, DLM3000HD/3000/5000HD/5000, DLM4000/2000, WT5000/WT1800R (Remote control and setting only)
Data file import	DL350, DL850 series, DL950, SL2000, SL1000, WT1800 series, WT3000 series, WT5000, DLM3000HD/3000/5000HD/5000, DL750 (Only WVF files), SL1400 (Only WVF files)
Screen Capture	
Save	Clipboard, png, jpg, gif
CSV batch converter	
Load	MF4 (MDF4.1), WDF, WVF
Save	CSV, CSZ (CSV compressed in ZIP format)
Mathematical data analysis (MH1)	
Number of Math channels	Up to 16 channels
Operators	+, -, ×, /, Phase shift, ABS, SORT, LOG, EXP, RMS, NEG, SIN, COS, TAN, ATAN, PH, DIF, DDF, INTEG, BIN, P2, P3, F1, F2, FV, PWHH, PWHL, PWLH, PWLL, PWWX, DUTYH, DUTYL, FLT1, FLT2, HLBH, MEAN
Number of computed points	Up to 12.5 M points, or up to 100 M points with MATLAB Runtime
Digital filters	Gauss, Sharp, IIR (Butterworth)
FFT analysis (MH1)	
Operator	Type: LS, RS, PS, PSD, CS, TF, CH Sub-type: REAL, IMAG, MAG, LOGMAG, PHASE
Window function	Rect, Hanning, Flat top, Hamming
Number of FFT channels	Up to 16 channels independently
Number of computed points	Up to 2 M points, or up to 100 M points with MATLAB Runtime
Serial bus analysis (SB1)	
Supported protocol	CAN (CAN FD is not supported at present.)
Search target	SOF, ID/Data, Error
Number of search points	Up to 100,000 frames
Bit rate	Select the value from 33.3 kbps, 83.3 kbps, 125 kbps, 250 kbps, 500 kbps, 1 Mbps, or enter it within the range of 10 kbps to 1 Mbps in 0.1 kbps steps.
Report Generator (RP1)	
Export	Microsoft Word, Excel, PDF, Print
Components	Waveforms, Measurement data, Comments, Images
High-speed camera Sync. (FS1)	
Supported cameras for online sync	Photron's FASTCAM SA-Z, Mini UX ⁹ /AX/WX series, Nova S series, Nova R2
Supported video format for online sync	high-speed camera video files (avi)
Supported devices for online sync	DL950, SL2000
Supported video file formats for offline sync	AVI (*.avi), MP4 (*.mp4), WMV (*.wmv), AVCHD (*.mts), MOV (*.mov), MPEG2-PS (*.mpeg, *.mpep)
ECU Monitor sync. (EM1 option)	
Supported monitoring tools	DTS INSIGHT's RAMScope GT170 (only for the variable data acquisition and calibration module), GT122
Supported data file	RAMScopeVP output files (a2l)
Supported devices for online sync	DL950, SL2000

¹ Harmonic measurement data excluded.

² The measurement data of first 128 channels can be imported.

³ The WT5000 with DS option is required.

⁴ Trigger DAQ with DL950 external clock input is not supported. Freerun DAQ with DL950 external clock input, including 16-channel input module or CAN/CAN FD/LIN/SENT module, is not supported.

⁵ Pre-trigger recording and multi-trigger recording using the Mini UX series in combination with the FS1 option are not supported.

⁶ Only CSV files saved with Ver. 22.6.1.0 or later IS8000 can be imported.

⁷ Connecting instruments and collecting data with multiple launches of the IS8000 software on the same PC is not covered by the specification.

⁸ MB1 option is required.

⁹ The G7 option is required on the connected WT5000 to display measurement data compliant with IEC 61000-4-7 Ed. 2.1 Annex B (2 kHz to 9 kHz).

¹⁰ Firmware version 3.61 or later and the G7 option are required on the connected WT5000 to display interharmonic measurement data compliant with IEC 61000-4-7 Ed. 2.1 Annex A.

¹¹ IS8011/8012 does not support the 760903 Current Sensor Element.

¹² Conditions for the Trigger DAQ may be subject to certain limitations. For more information, please visit: <https://tmi.yokogawa.com/p/is8000-tdaq/>

IS8002CDV Classic Data Viewer	
Please refer to our website for the most up-to-date specifications; the information provided here pertains to Version 1.04.	
Compatible instruments (Remote control of the DL series, Waveform Viewer) DL950 ¹ , SL2000 ¹ , DL350, DLM5000HD, DLM5000, DLM3000HD, DLM3000, other DL/DLM series, SL1000, and each series of the above models	
PC System Requirements PC capable of running Windows 10/Windows 11, Intel Core i5-10210U or later Intel CPU with 4 or more cores (8 or more threads), 4.2 GHz or faster, 4 GB or more memory	
Display Resolution 1366 × 768 dots or higher, 100% zoom	
Supported File types Binary format (*.wvf, *.wdf) ASCII format (*.csv) MATLAB format saved by DL950, SL2000, DL350, DL850 series and this software (*.mat)	
Max. Number of displayed waveforms 90/Group, Up to 10 Groups can be set	
Display format Main, Zoom, History, X-Y	
Number of divided Windows Max. 16	
Cursors Vertical, Horizontal and X-Y	
Annotation Comments can be added in the Main, Zoom and X-Y windows	
Automated Calculation of Waveform Parameters 28 parameters such as P-P, Amp, RMS and Freq. Cycle Statistics and History Statistics.	
Save file format Waveform data file (*.wdf, *.wvf, *.csv, *.xls, *.fld, *.mat) Screenshot file (Clipboard, *.bmp, *.png) Waveform parameters automatically calculated, Display settings (*.csv)	
Print Waveform displayed	
Waveform Data Conversion Waveform data files (*.wvf, *.wdf) can be converted to *.csv Waveform data files (*.wdf) can be converted to *.wvf Waveform data files (*.wvf, *.wdf) can be converted to *.fld	
Waveform Computation (available only with the Math option) Max. Number of displayed waveforms (CHs) 32 waveforms (Math1 to Math32)	
Computation Accuracy (resolution) Single floating point number	
Operations +, -, ×, /, Phase Shift, ABS, SQRT, LOG, EXP, RMS, NEG, SIN, COS, TAN, ATAN, PH, DIF, DDIF, IINTG, BIN, P2, P3, F1, F2, FV, PWHH, PWHL, PWLH, PWLL, PWXX, DUTYH, DUTYL, FILT1, FILT2, HLBT, MEAN, LS, RS, PS, PSD, CS, TF, CH	
FFT Points Max. 2 M points	
FFT Window Rect, Hanning and Flat top	
Digital Filter Gauss, Sharp, IIR	
Max. Number of computed points 12.5 M points (depends on the number of Math channels)	

¹ When opening data files with specific sample rate combinations of the multi-sample rates feature, some channels may not load.

Model and Suffix Code

IS8000 Integrated Software Platform

Model	Suffix Code	Description
IS8001		IS8000 Integrated Software Platform Subscription (Annual license)
IS8002		IS8000 Integrated Software Platform Perpetual (Permanent license)
	/SY1	Multi-Unit Connection Option
	/MH1	Waveform Math Option
	/RP1	Report Generator Option
	/FS1	High-speed Camera Synchronization Option
	/EM1	ECU Monitor Synchronization Option
	/SB1	Serial Bus Analysis Option
	/MB1	Modbus/TCP Communication Option

Add-on Packages

Model	Suffix Code	Description
IS8001EX		IS8000 Add-on Package Subscription (Annual license)
IS8002EX		IS8000 Add-on Package Perpetual (Permanent license)
	-SY1	Multi-Unit Connection
	-MH1	Waveform Math
	-RP1	Report Generator
	-FS1	High-speed Camera Synchronization
	-EM1	ECU Monitor Synchronization
	-SB1	Serial Bus Analysis
	-MB1	Modbus/TCP Communication

IS8010 IEC Harmonic/Flicker Measurement Software

Model	Suffix Code	Description
IS8011		IEC Harmonic/Flicker Software Subscription (Annual license)
IS8012		IEC Harmonic/Flicker Software Perpetual (Permanent license)

IS8002CDV Classic Data Viewer

Model	Suffix Code	Description
IS8002CDV		Classic Data Viewer Perpetual
	-P01	Standard Function for 1 PC
	-P05	Standard Function for 5 PCs
	-P10	Standard Function for 10 PCs
	-P20	Standard Function for 20 PCs
	/M01	Math Function for 1 PC
	/M05	Math Function for 5 PCs
	/M10	Math Function for 10 PCs
	/M20	Math Function for 20 PCs

Classic Data Viewer is available at no extra charge on PCs with a valid IS8001/IS8002 license activated.

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YMI-N-MI-M-E03

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[Ed: 04/b] Printed in Japan, 506(KP)