

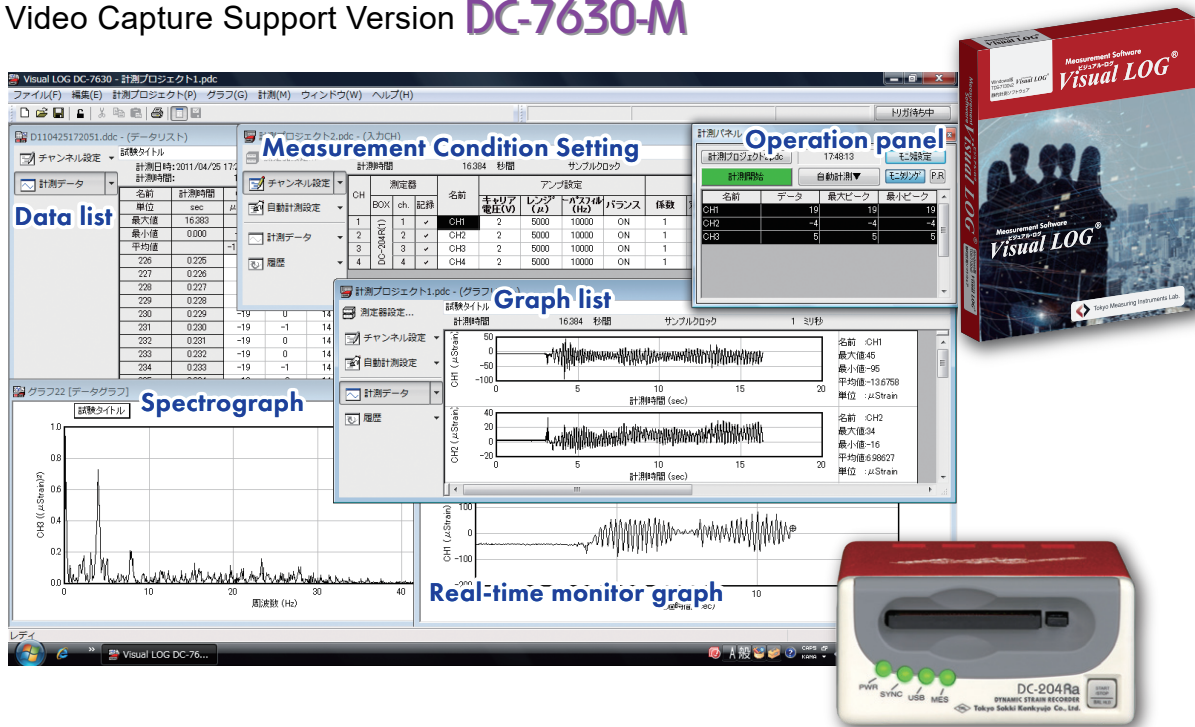


Visual LOG[®]

Dynamic Strain Recorder Measurement Data Processing Software

DC-7630

Video Capture Support Version DC-7630-M



This measurement software performs multi-channel dynamic measurement using the ultra-compact dynamic strain recorders DC-204R and DC-204Ra.

The DC-204R can be used to control up to 8 units of 32 channels simultaneously.

Real-time graph display during sampling allows measurement while checking dynamic waveforms.

Unified management of measurement conditions, settings, and data allows you to check settings and measurement data on the same startup screen.

Data can be converted to CSV format or DADiSP compatible format.

Graphs can also be saved in BMP, EMF, and PNG formats, so they can be loaded and reprocessed by commercial software in addition to being used to create reports.

The DC-7630-M is also available as an optional video capture version that can save video from DirectX-compatible cameras in conjunction with measurements, and playback the video in synchronization with the recorded data.

*Visual LOG is a registered trademark of Tokyo Measuring Instruments Laboratory Co., Ltd.

*DADiSP is a registered trademark of DSP Development Corporation.

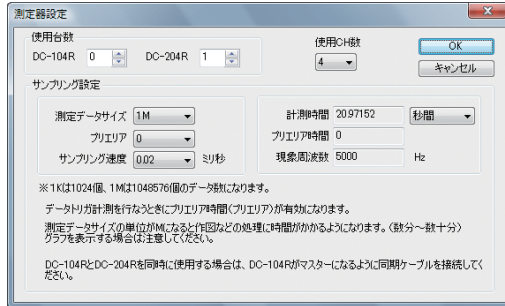
Features

- Simultaneous control of DC-204R and DC-204Ra, sampling and data recording up to 8 units with 32 points
- Real-time graphical display during sampling
- Extraction and thinning functions from measured data
- Auto-clear card when CF card capacity is insufficient and continue automatic measurement
- Automatic data recording with measurements such as interval, data trigger, external trigger, free-run, and data comparator
- Data-triggered or free-run measurements can be taken offline

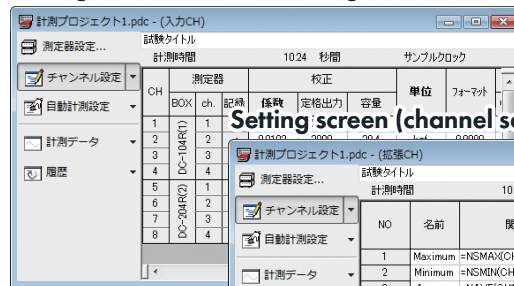
Tokyo Measuring Instruments Laboratory Co., Ltd.

Setup/Processing Screen

Instrument settings



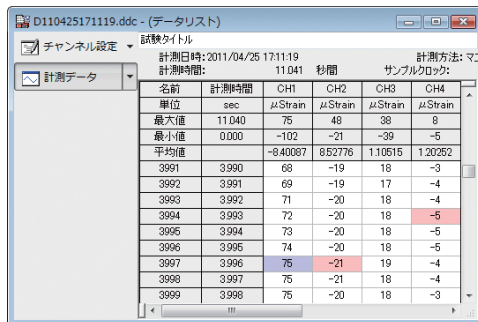
Setting screen (Channel settings: Factor)



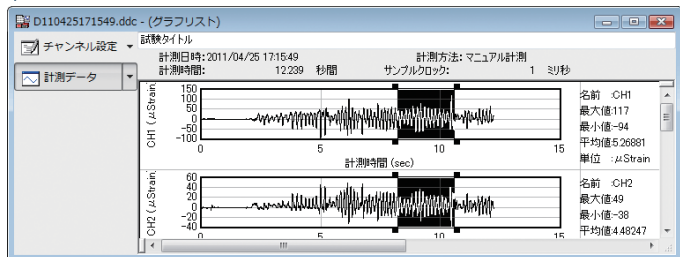
Setting screen (channel setting: extended CH)



Data list (maximum and minimum values can be searched)



Graph list (data extraction, maximum and minimum values can be searched)



DC-7630 Operating Environment

OS	Microsoft Windows 7(SP1)/8.1/10/11
PC	Specs recommended by the above OS or higher Models with CD drive and 2 USB ports
Memory capacity	4GByte or more recommended
HDD	10 GB or more of free space is recommended for hard disk for storing capacity data When the hard disk containing the OS, 4 GByte or more of free space is recommended.
Monitor Resolution	1024 x 768 dots or higher resolution
Interface	Number of USB ports: Number of measuring instruments used + protection key
Protection key	USB dongle

Specification

Number of measuring instruments that can be used simultaneously	Ultracompact dynamic strain recorder DC-204R, DC-204Ra Combination use max. 8 units 32ch
Maximum number of calculated data items	Maximum 100 items
Setting up a measurement project	Measurement project centrally manages measurement settings and results (instrument settings, channel settings, automatic measurement settings, etc.)
Measuring device settings	Number of measuring instruments used, number of channels used, and sampling settings (A/D conversion settings depending on the number of data and sampling speed)
Channel setting	
Input Channel	Setting of measurement data name, carrier voltage, measurement range, low-pass filter, balance, coefficient, rated output, capacity, unit, alarm, format, and optional data
Expansion channel	Name, function, unit, format, alarm, option
Automatic measurement setting	
Data Trigger Measurement	Trigger level (% of measurement range), slope (up/down)
Interval measurement	Measurement start date and time, measurement interval, conditions
Data Comparator Measurement	Name (CH/NO), amount of change, condition
Measurement data	Data listings, graph listings
Record	Measurement history, maximum minimum average, check results
Save and load	Save and load measurement project
Print	Printing of measurement projects

Measurement	
Instrument Check	List of sensor connection status, ROM/RAM check, CF card write speed, and LED display output results
Balance	Sensor zero adjustment (any channel selectable)
Measurement mode setting	Normal, Monitor, Data Trigger, Interval, Data Comparator, Free Run
Offline measurement	Exit this software after executing data trigger and free run for offline measurement.
Storage of measurement data	Measurement data (waveform data) is automatically recorded in the same location as the saved measurement project file, in a folder for data storage with _DATA added to the measurement project file name.
Stop saving measurement data	Only maximum, minimum, and average data can be recorded in the history (measurement data is not saved)
Automatic CF card clearing	Automatically clears the CF card when it runs out of free space and continues data processing for measurement
Data Processing	
Making a table or chart	Spreadsheet display of measured data
Plotting - Charts	Monitor graphs, data graphs, historical graphs, spectral graphs, rescaling and auto-scaling functions, graph overlay
Saving Graph	Saving to BMP, EMF, and PNG formats
Data File Processing	
Editing Data	Edit arbitrarily
Data extraction	Cut out only the necessary portion with the cursor
Data thinning	Thinning at any step
Data conversion	Convert to text file (CSV, DADiSP compatible text)
Print	Print results in tabular or graphical list

Option [Video Capture Support Version DC-7630-M]

Video can be recorded using a video capture device connected to a PC in conjunction with the measurement, and played back in conjunction with the measurement data.

Video can be recorded using a video capture device connected to a PC and played back in tandem with the measurement data. Data can be synchronized with the measurement status for structural tests, driving tests, behavior during operation, etc.

Video Recording History

The screenshot displays the Visual LOG DC-7630-M software interface. It features several windows: a main window with a video feed of a car's interior, a graph window showing vibration data (CH4), and a data list window. The data list window shows a table of recorded video files with columns for file name, date, and time. The graph window shows a plot of CH4 (m/s²) over time, with a peak around 4 seconds. The video feed shows a car's interior with a steering wheel and dashboard.

Video Recording History

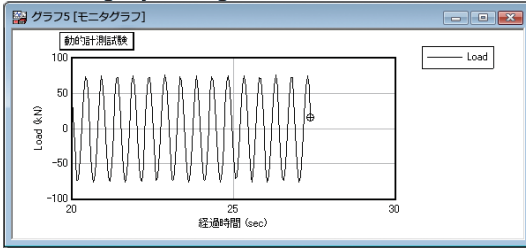
OS	Microsoft Windows 7(SP1)/8/8.1/10
PC	Core Duo or higher multi-processor recommended
Memory space	2GB memory or more recommended
HDD Capacity	10 MB free space or more (during setup) 100GB or more free space is recommended for the hard disk where data is stored 4GB or more of free space is recommended for the hard disk containing the OS
Display	800 x 600 dots or higher resolution
Interface	1 for protect key
USB port	1 for the number of units used (from 1 to 8) for the measurement device 1 for camera, but not required when using an interface other than USB
Protection key	HASP Key (USB)
Compatible camera or USB video capture	Cameras that support Direct Show or DirectX DV-specification video cameras and USB-connected webcams that are recognized by the OS as stream media, Cameras built into displays, industrial and industrial cameras that support IEEE1394/IEEE1394 requires an IEEE1394 terminal or interface board on the PC. Video camera connected to USB video capture
Number of cameras	1

DC-7630-M Specifications

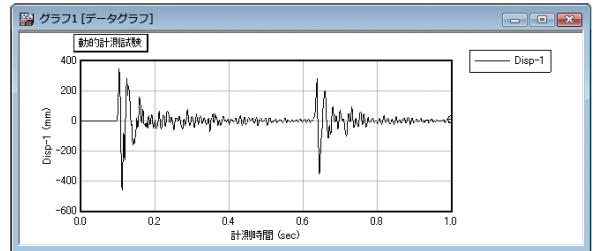
Video Capture	
File format	AVI File
Recipient	"VIDEO" folder directly under the measurement project folder
Selection of input devices	Recording start/stop/automatic recording
Video Capture Window	If multiple cameras are connected, the camera selection is performed. However, only one camera can be used.
Video Recording History	Manage the recorded video recording history.
Playback window	Select and play video as desired
Linkage with measurement data	
Linked video files	Multiple videos can be linked with a single measurement data. It is also possible to link multiple measurement data to a single video. However, multiple videos cannot be played back at the same time. However, multiple videos cannot be played back at the same time. Only videos recorded with this software can be linked.
Synchronized Display	Synchronization with the measurement data is performed on the Data List screen or Graph List screen of the measurement data file. The video corresponding to the measurement date and time of the measurement data displayed with the cursor is displayed.
Reproduction Method	Playback start, playback stop, playback feed speed, auto-synchronization, synchronization display update
Playback window	Displays in the playback window the video corresponding to the time the cursor is displayed on the data list or graph list screen.
Synchronous Offset	For each measurement data, the input value is added to the recorded date and time of all videos. The unit is in seconds, but inputs of seconds or less are also possible. The input range is up to ± 15 digits of the real number.

Graph Function

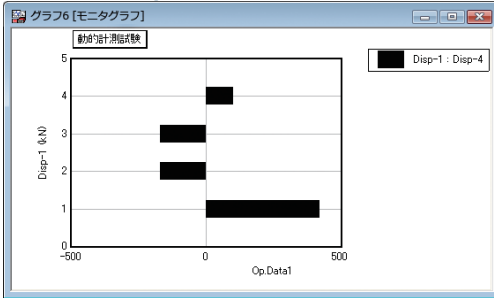
Monitor graph Progress monitor



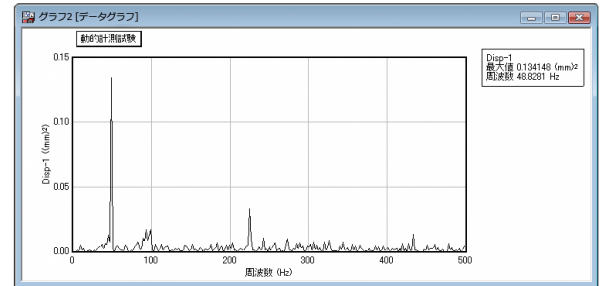
Progress diagram



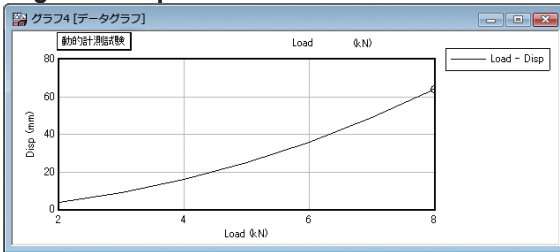
Monitor Graph Horizontal Bar Monitor



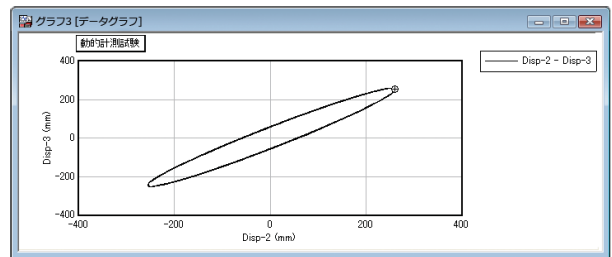
Spectrograph



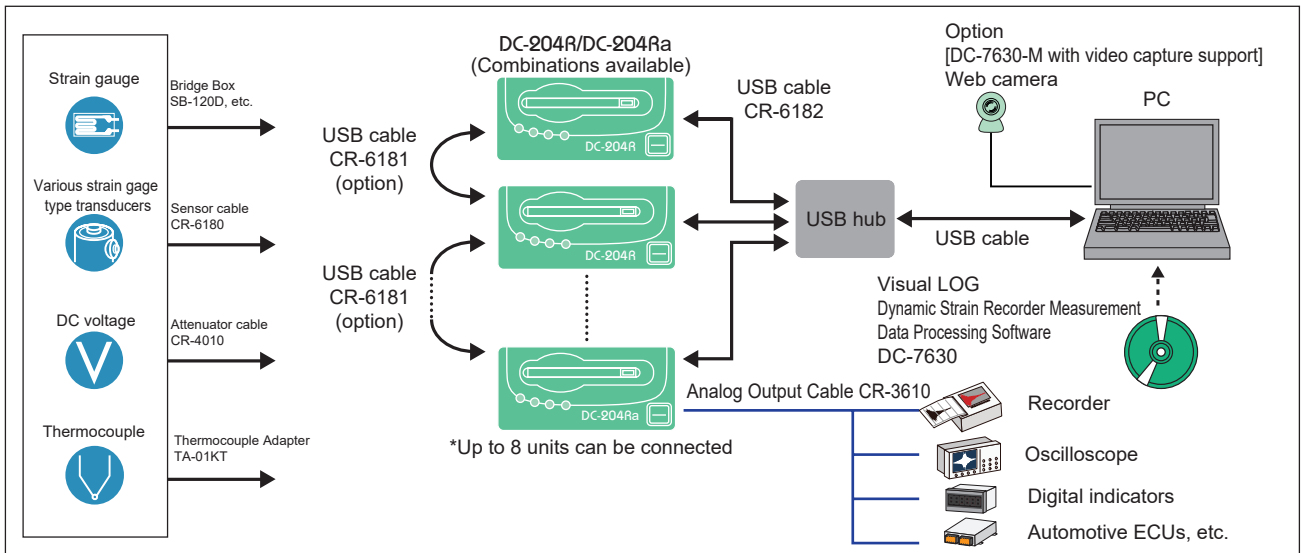
Regression equation



Line graph



Measurement Systems



The contents of this catalog are subject to change without prior notice.
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Approval Certificate **ISO9001**
Design and manufacture of
strain gauges, strain measuring
equipment and transducers



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