

# Software Option for DCS-100A

For Simultaneous Acquisition of Moving Image Data and Physical Variables



# DCS-101A

- ◆ Enables monitoring/recording of moving image data in linkage with measuring operation.
- ◆ Enables reproduction of moving image and test data with cursors synchronized.
- ◆ Enables arithmetic operation of measurement data in real time.
- ◆ Enables rosette analysis and matrix analysis.

# Specifications

## 1. Video Data Acquisition

### 1.1 Video Data Acquisition

Applicable Camera: DirectX-compatible Web camera  
(Web camera the OS can recognize as an imaging device)

Number of Applicable Cameras: 1

Resolution/Size: Max. 640 x 480 dots

Frame Rate: Max. 30 frames per second

Saving File Format: AVI (Audio-Video Interleave)

Number of Video Capture Windows Available on Display: 1

Operations Available: Video data monitoring/recording in linkage with measuring operation, and zooming

Note: Resolution/size and frame rate depend on an applied camera.

### 1.2 Test Data Acquisition in Linkage with Video

Applicable Measuring Instruments: EDX-100A, EDS-400A, PCD-300 series

Data File Destination: Data file folder of the PC

Measuring Mode: Manual, manual with a preset number of measurements

Sampling Frequency: Max. 10 kHz

Note: Practical measuring conditions which can be set are limited depending on an applied measuring instrument.

### 1.3 Video Reproduction

Reproducible File Format: AVI

Number of Simultaneous Reproducible Files: 1

Number of Reproduce Windows Available on Display: 1

Operations Available: Reproduce, stop, pause, frame-by-frame forward/backward, zoom, change of reproduce speed

Synchronized Cursor: Video and graph can be reproduced with cursors synchronized.

### 1.4 Precaution

Video data acquisition and arithmetic operation cannot be made at the same time.

## Operating Environment (PC)

OS: Windows XP/Vista (32-bit Japanese/English Edition)

CPU: Pentium 4, 2 GHz or higher

Memory: 1 GB or more (2 GB or more for Windows Vista)

Display: Resolution 1024 x 768 dots or more

## 2. Arithmetic Operation

### 2.1 Arithmetic Operation

Number of Calculation Channels: Max. 32

Calculation Channel Conditions: Calculation ON/OFF, arithmetic expression (within 200 characters), unit, number of numeric digits on display, channel name (within 40 characters)

Printout: Preview and printout of calculation channel conditions possible

Reading/Saving: Calculation channel conditions can be read and saved as a calculation channel condition file. Matrix conditions can be read and saved as a condition file (CSV format).

Operations Available: Calculation channel data can be monitored together with measurement data and saved in the same data file.

### 2.2 Arithmetic Expression

Inputtable Channels: Measuring channels, calculation channels

Inputtable Operators and Constants: +, -, \*, /, ^ [power], PI [ $\pi$ ], ( ) [parentheses]

Inputtable Calculation Functions:

SQR	Square root	LN	Natural logarithm
ABS	Absolute value	EXP	Exponent
SIN	Sine	HMX	Max. principal strain
COS	Cosine	HMN	Min. principal strain
TAN	Tangent	HSM	Max. shearing strain
ASIN	Arc sine	SMX	Max. principal stress
ACOS	Arc cosine	SMN	Min. principal stress
ATAN	Arc tangent	SSM	Max. shearing stress
LOG	Common logarithm	DEG	Principal strain direction

### 2.3 Data Acquisition in Linkage with Arithmetic Operation

Applicable Measuring Instruments: EDX-100A, EDS-400A, PCD-300 series

Data Save Folder: PC data file folder

Measuring Mode: Manual, manual with a preset number of measurements, interval, analog trigger

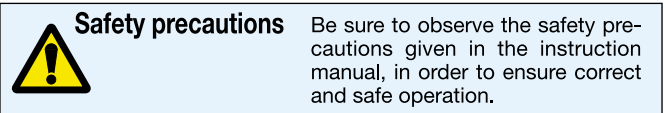
Sampling Frequency: Max. 10 kHz

Note: Practical measuring conditions which can be set are limited depending on an applied measuring instrument.



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Specifications are subject to change without notice for improvement.



Manufacturer's Representative

Reliability through integration

**KYOWA**

**KYOWA ELECTRONIC INSTRUMENTS CO., LTD.**

Overseas Department:

2-4-3, Hitotsubashi, Chiyoda-ku, Tokyo 101-0003, Japan

Phone: +81-3-5226-3553 Facsimile: +81-3-5226-3566

http://www.kyowa-ei.com

e-mail: overseas@kyowa-ei.co.jp

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