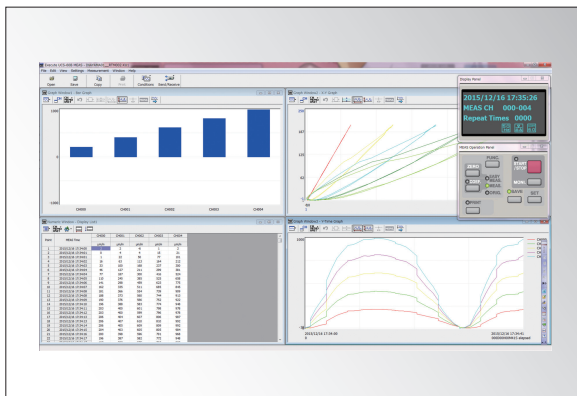


# UCS-60B

## Control Software



### Enhancing the performance of the data logger

- Control UCAM-60B/65B
- Numeric window presenting data in list format
- Up to 50 graphs windows on display, maximum 20 channels of data per graph
- Various data saving formats: Kyowa standard KU1, CSV and XLS (Excel format)
- Data processing (Arithmetic operations, statistic operations and rosette analysis)
- Read/write of measuring/calculating condition files
- Printer output  
When connecting the data logger to the PC via LAN port, use 2 straight cables and a LAN hub.

The UCS-60B enables the PC to control a data logger and to present measured/calculated data on graph and numeric windows, thereby enhancing the performance of the data logger.

### Specifications

<b>●PC Requirements</b>	
<b>OS</b>	Windows® Vista, 7, 8, or 8.1, English/Japanese 32, 64 bits support
<b>CPU</b>	Core2Duo, 2 GHz or advanced
<b>Memory</b>	If 32-bit OS, 2 GB or more If 64-bit OS, 4 GB or more
<b>Display</b>	1024×768 pixels or more
<b>HDD</b>	At installation, 10 MB + measurement data storage space
<b>Interfaces</b>	UCAM-60B RS-232C/100BASE-TX or advanced UCAM-65B RS-232C/100BASE-TX or advanced
<b>●Measurement-Related Functions</b>	
<b>Controllable Data Loggers</b> UCAM-60B/65B	
<b>Measuring Channels</b> 2000 (Within 2000 channels in total of measuring, temperature and calculating channels)	
<b>Measuring Condition Setting Functions</b>	
System setting (Setting of internal/ external scanners, etc.)	
Measuring channel range, measuring function and scanning speed depend on the applied data logger.	

<b>Measuring Channels</b>	000 to 999
<b>Measuring Functions</b>	EASY MEAS., MEASURE VALUE, ORIGINAL VALUE, INITIAL VALUE
<b>Repeat Times</b>	0 to 999 (0: Infinite)
<b>Calibration Coefficient Calculation</b>	ON/OFF setting possible
<b>Channel Conditions</b>	Type of scanner, measuring channel mode, calibration efficient, number of digits below decimal point, unit, offset, temperature reference value, initial value, scanning speed, channel name (Within 18 alphanumerics)
<b>Interval Measurement Conditions</b>	Starting date/time, interval, measuring times (0 to 999; 0 = Infinite), steps (Up to 99)
<b>Trigger Measurement Conditions</b>	Trigger channels (Desired 4 channels), reference values of trigger channels, AND/OR between trigger channels, trigger values, measuring times (0 to 999; 0 = infinite), steps (Up to 99)
<b>Trigger Interval Measurement Conditions</b>	Trigger channels (Desired 4 channels), reference values of trigger channels, AND/OR between trigger channels, interval, measuring times (0 to 999; 0 = infinite), steps (Up to 99)
<b>TEDS</b>	Reads sensor's information and sets to channel condition automatically.
<b>Automatic Reading of Channel Mode</b>	Possible for strain gages and strain-gage transducers connected to internal scanners of UCAM-60B and UCAM-65B
<b>Calculation Condition File</b>	Reading and saving possible
<b>Measurement Functions</b>	Measurement check, initial value measurement, monitor measurement (Max. 40 channels), real-time measurement, automatic measurement (Interval, trigger, trigger interval), stroke change (Single channel/measuring channel range) Note: Monitor, trigger or trigger interval measurement is used for setting calculation target channels.
<b>Numeric Display</b>	Real-time measurement and automatic measurement results in a list, results of measurement check, initial value measurement and monitor measurement in a list only Numeric windows: Max. 1 Monitoring windows: Max. 1
<b>Graph Display</b>	Types of Graph: Y-time, Y-Cycle, X-Y, bar graph, 1 channel/ graph, 20 channels/graph Display Channels: Max. 20 (Max. 10 sets of channels with X-Y graph) Cursor indication, scale enlargement, auto scale, scale setting for each individual channel, comparison graphs Graph Windows: Max. 50 Number of measured data available on display depends on the number of channels as following. 100 channels for 10000 200 channels for 5000 500 channels for 2000 1000 channels for 1000 1001 channels for 500 (Max. monitoring measurement data available on display is 1000.)
<b>Data Formats</b>	Kyowa standard KU1, CSV, XLS (Excel)
<b>Printing</b>	Numeric and graphic data are printed out. The built-in printer of UCAM-60B is set to ON or OFF.



## ● Reproduction-Related Functions

### Channels

2000 (Within 2000 channels in total of measuring, temperature and calculating channels)

### Reproducible File Formats

KU1

In addition to reproduction of data saved in the formats, the software enables coupling of files in the same format, extracting of a desired portion, and converting to CSV, or XLS format.

### Reading/Saving Calculation Condition File

Possible

### Numeric Indication of Measured Data

Numeric window where

measured data is listed and is edited as desired.

Numeric available on single screen: Max. 1

### Graphic Indication of Measured Data

Graph window: Y-time, Y-Cycle, X-Y

1 channel/graph, 20 channels/graph

Display Channels: Max. 20 (Max. 10 sets of channels with X-Y graph)

Cursor indication, scale enlargement, auto scale,

scale setting for each individual channel

Graph Windows available on single screen: Max. 50

### Reading/Saving Display Condition File

Possible

### Print Function

Numeric and graph windows are printed out.

## ● Calculation-related Functions

### Number of Characters in Expression

100

### Operators

+, -, \*, /, (, ), ^

### Applicable Function:

MAX To obtain the maximum value among channels

MIN To obtain the minimum value among channels

SUM To obtain the sum of data in all channels

AVG To obtain the average of data in all channels

STD To obtain the standard deviation in all channels

DEV To obtain the standard deviation in %

MAT To obtain the maximum value in a channel

MIT To obtain the minimum value in a channel

SUT To obtain the sum of data in a channel

AVT To obtain the average of data in a channel

STT To obtain the standard deviation in a channel

PRE To obtain the previous data in a channel Counting

CNT To obtain the measuring times

HMX To obtain the maximum principal strain

HMN To obtain the minimum principal strain

HSM To obtain the maximum shearing strain

SMX To obtain the maximum principal stress

SMN To obtain the minimum principal stress

SSM To obtain the maximum shearing stress

DEG To obtain principal strain direction

SIN Sine

COS Cosine

TAN Tangent

ASI Arc sine

ACO Arc cosine

ATA Arc tangent

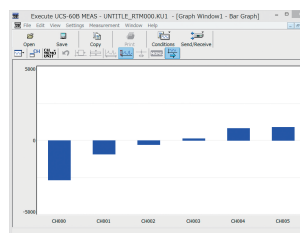
## ● Restrictions

To save measured data in the XLS format or to convert the measured data file into an XLS format file, the channels and the measured values are restricted as follows:

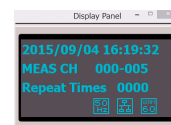
**Channels** Max. 250

**Measured values** Max. 10000

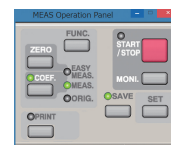
## ● Measured Data Monitor Windows



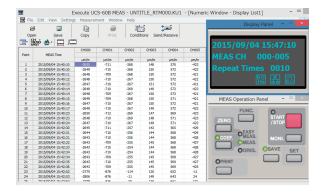
Bar Graph Window



Display Panel

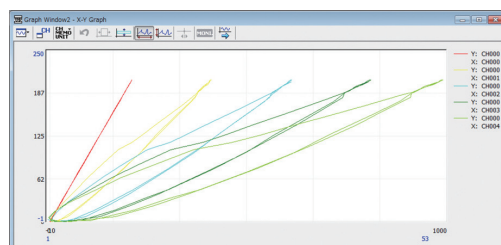


Operation Panel



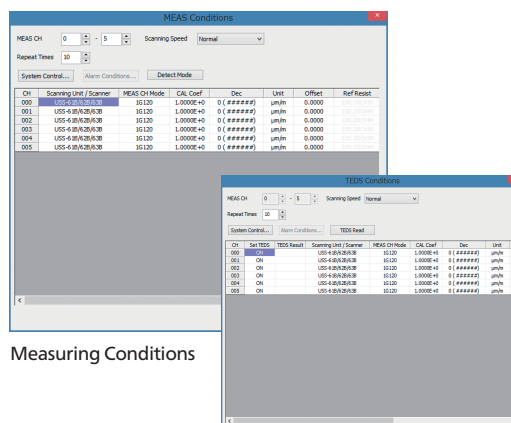
Numeric Window

## ● Data Reproduce Window



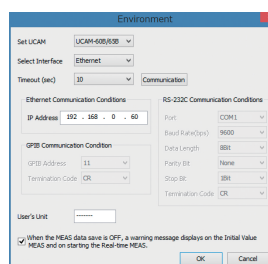
X-Y Graph

## ● Condition Setting Windows

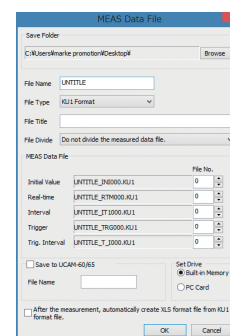


Measuring Conditions

TEDS Information



Environment



Measurement data file