

The Kett logo consists of the word "Kett" in a white, bold, sans-serif font, centered within a dark gray square background.

**Data Logger Soft**

**LDL-02**

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# **Operating Manual**

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Thank you for purchasing this product.  
Please read the operating manual carefully and use this product properly.



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# Introduction

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The “Data Logger Soft LDL-02 for L-370series” (=LDL-02) is data logger for KETT Coating Thickness Tester L-370 (=L-370).

The LDL-02 pastes a measurement data by L-370 on ©Microsoft Excel by the automatic operation, with the personal computer (=PC) that operates ©Microsoft Windows 2000 / XP / Vista.

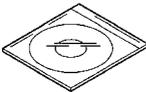
- \* Please see each operating manual, about the PC operation, the operating system operation (=“OS”, Microsoft Windows 2000 / XP / Vista), and or the other software operation (©Microsoft Excel).
- \* In this operating manual, there are the operations and the illustrations of Windows XP. Please operate the OS according to an individual manual excluding the special note, on Windows 2000 and Vista.

## Packages

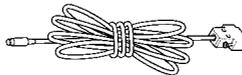
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Check your LDL-02 Software Package for the following items.

1×CD-ROM



1×VZC-53 Cable



1×Operating manual  
(This book)



\* **USB-RS232C converter (Option)**

This program has been checked the operation only with serial port (=RS-232C port) of the PC connecting directly or with the option USB-RS232C converter. If your PC does not have a connectable RS-232C port directly, please use this option converter. When other converters are used, we do not guarantee the operation.

# System Requirements

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- OS : Windows 2000 / XP (32bit) / Vista (32bit)
- PC : Manufacturer supported PC running the above OS (Microsoft recommended environment), with at least 1 spare RS-232C port or USB port (Ver.1.1 or later) and CD-ROM drives.
- Essential Software : Excel 2000 / 2002 / 2003 / 2007  
Microsoft Corporation recommended operating system requirements.
- \* **If the volume of measurement result data to be handled is large, we recommend increasing your PC memory.**
- \* **The combination of the OS and the essential software will depend on the OS supporting that software.**

## Notes

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1. KETT ELECTRIC LABORATORY has the copyright of "LDL-02" and that hangs to this product and other rights.
  2. It is impossible to reproduce by using part or all of this software and the manual without permission.
  3. This software can be installed in one personal computer by single-unit (= one license). When using it with two or more personal computers, please buy the license for the number of the personal computer that installs it.
  4. The screen and the file composition used in this book might be actually different.
  5. The specification of this software and the content described in the manual might change without a previous notice in the future.
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- \* **The names and logos of Microsoft, Windows, and Excel are either registered trademarks or trademarks of Microsoft Corporation in United States and other countries. Other companies and product names are their respective registered trademarks.**

# 1. Install

## Notes

\*If you use the optional USB-RS232C converter, please do not connect the USB-RS232C converter with PC until the driver's installation is completed.

\* Please operate the installation software with log on manager's group account.

(Recommend; account of administrator's group)

\*If the dialog "User account control (Vista)" or "Install program as other user (2000/XP)" is displayed while install operation, the installation cannot be completed even if the information is input. First of all, log off from PC, and try to reinstall after log on by the manager's account.

## ■ LDL-02 Install

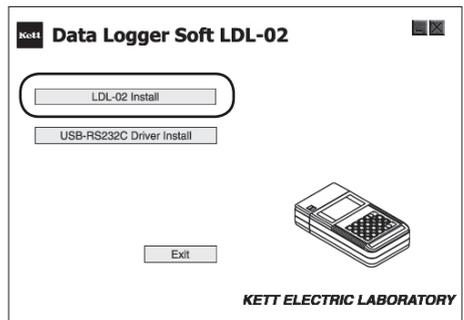
1. Startup Windows.

2. Insert the LDL-02 CD-ROM.

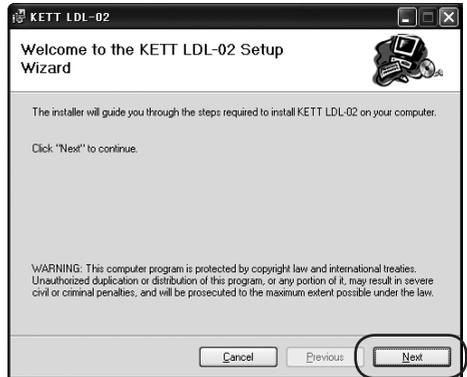
**\*It is necessary to end all other applications.**

3. Click [LDL-02 Install].

\* If this dialog is not displayed, double click (  ) in "My Computer", or double click [CD drive] and double click "CDRun.exe" in "Autorun".



4. Click [Next].



5. Click [Next].

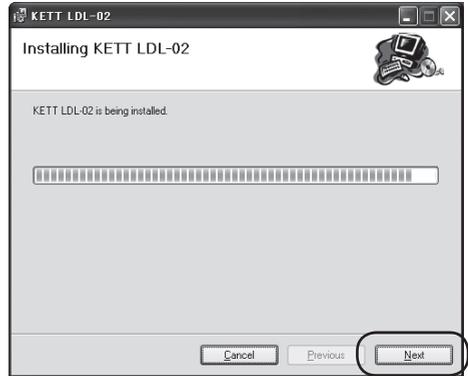
When you install to different folder, you can change to different folder. The "Confirm Installation" dialog will be displayed.



6. Click [Next].

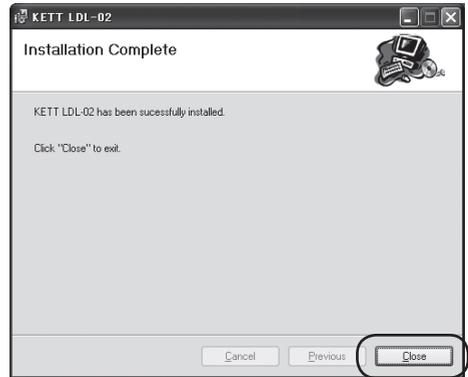


7. Click [Next].



8. Click [Close].

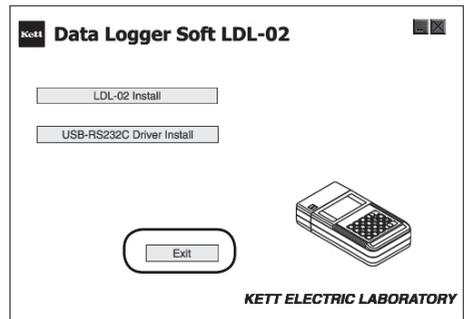
The installation ended. Please confirm the short cut (  ) of LDL-02 on desktop.



Setup is now complete.

When you need to install the USB-RS232C converter driver, go on to P.9[■USB-RS232C converter (Option) Install].

When you need not, click [Exit] on menu window.



## ■ USB-RS232C converter (Option) Install

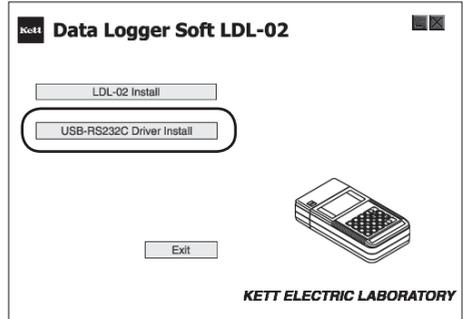
Install the “USB-RS232C converter driver” using the following method.

Notes

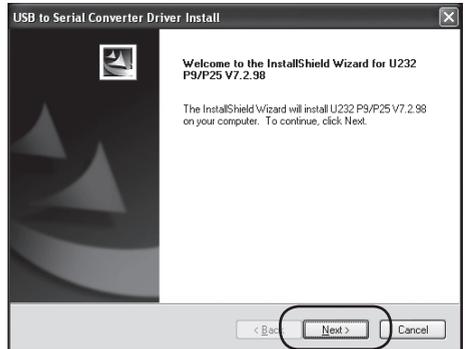
\* When the computer has RS-232C port of connecting directly, it is not necessary to install it.

1. Click [USB-RS232C Driver Install].

\* If this dialog is not displayed, double click (  ) in “My Computer”, or double click [CD drive] and double click “CDRun.exe” in “Autorun” folder.



2. Click [Next (N)].

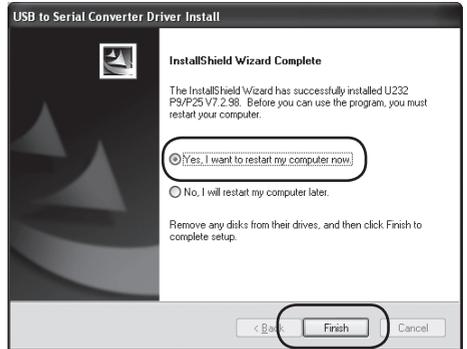


3. Click [Next (N)].

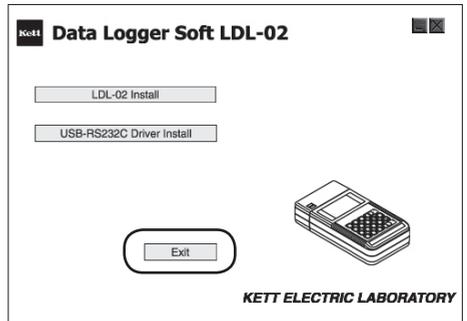


4. Click [Finish].

\* Please restart your PC before using.



5. Click [Exit] on menu window.



## ■ Connect Coating Thickness Tester L-370 to PC

Please connect PC with Coating thickness Tester L-370 by using the VZC-53 cable as shown in figure below.



When the PC does not have any RS-232C port, the optional USB-RS232C converter is necessary for our specifications to VZC-53 and the PC.

### ■ Connect USB-RS232C converter : first time

- \* When you connect the option USB-RS232C converter at first time, please operate the installation software with log on manager's group account. (Recommend; account of administrator's group)
- \* If you connect the option USB-RS232C converter to your PC before installing the driver, a dialog will be displayed requesting you to install the driver. Please, disconnect the USB-RS232C converter and install the driver first. (See P.9 [■ USB-RS232C converter (Option) Install])
- \* The following dialogs are displayed when the converter is connected, first time. And the installation work makes progress by the automatic operation.



The RS-232C port number is display according to OS that operates by your PC, please remember the displayed the serial port number.

- \* Refer to look up at the RS-232C port number to P.19.

## 2. Operate LDL-02

Please confirm the L-370 setting to output the measurement data, beforehand.

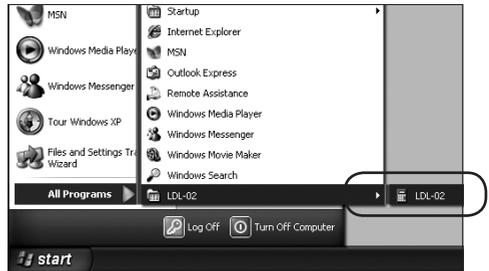
Please, see L-370 operating manual.

### ■ Start LDL-02

1. Turn on your PC and startup Windows.

2. Double Click (  ) on desktop, or click LDL-02 on program group.

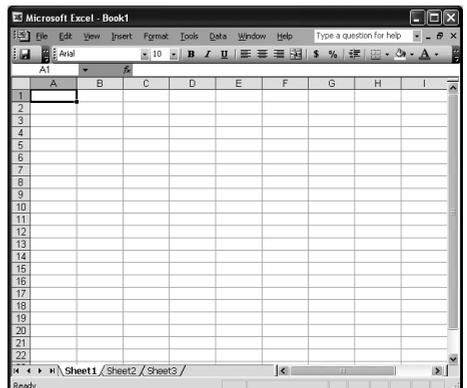
\* If “KETT LDL-02” does not display, search for the program from My Computer, or click on  → [All Programs]→[Accessories] → [Explorer], and search for the program.



3. The LDL-02 icon (  ) is displayed on the task tray when the LDL-02 is started, and a new EXCEL work-sheet starts.

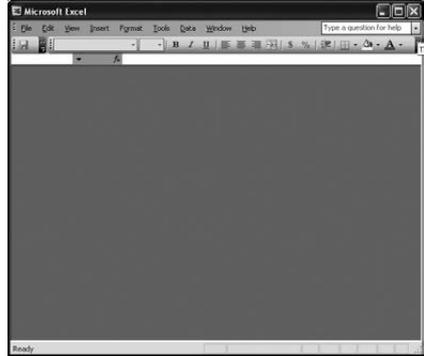
\* If the cable is already connected, the connection will be started automatically when the application is started up.

\* RS-232C port (Com) will open automatically.



**Trouble**

\* When the LDL-02 starts on PC without RS-232C port, Excel will start without new work-sheet.



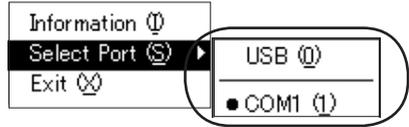
\* If the LDL-02 started up on your PC with excel not installed, the following dialogs are displayed. Please, restart the LDL-02 after installing excel.



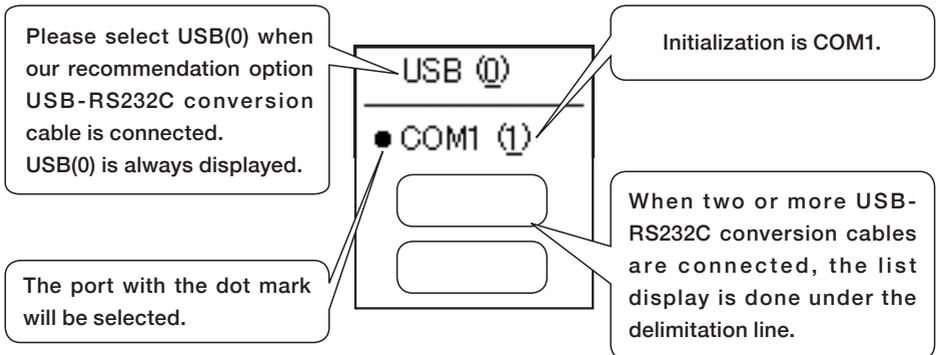
## ■ Set RS-232C port number

Click the LDL-02 icon (  ) in the task tray. Please, Select RS-232C port with L-370 connecting.

A new EXCEL work-sheet opens when the port that can be used is selected.



- \* In a right example, the port that can be selected is “USB (0)” and “COM (1)” .
- \* Please operate this process when it starts first time or you change the communications cable connection.
- \* Please see P.19 when you do not know the number.
- \* The new EXCEL work-sheet opens whenever the port is changed.



## ■ Data transmission and storage

When “Data Output” of L-370 is set, measurements and the calculation data are put on the EXCEL worksheet.

- \* Please see the L-370 operating manual for details of Data Output Setting.
- \* If you need the setting data, for example [APPLI NO] or [LOT], please start LDL-02, before measuring.
- \* The EXCEL file is not saved by the automatic operation. Please save it yourself.
- \* LDL-02 cannot add data to an existing EXCEL file. A new EXCEL work-sheet is made by the automatic operation when receiving the data even if EXCEL is ended by mistake.

	A	B	C	D	E	F	G
1	Data Memory Store						
2							
3	*APPLI NO 0						
4	*LOT 0						
5	*DATE 2008/09/30						
6	*TIME 11:35						
7	*TYPE Fe						
8	*U.LIM Off						
9	*L.LIM Off						
10	N=	0	52.6	um			
11	N=	1	34.9	um			
12	N=	2	62.3	um			
13	N=	3	41.8	um			
14	N=	4	944	um			
15	N=	5	947	um			
16	N=	6	811	um			
17	N=	7	926	um			
18	N=	8	17.6	um			
19	N=	9	24.7	um			
20	N=	10	27.2	um			
21	N=	11	48.6	um			
22							

## ■ End

Click the LDL-02 icon (  ) in the task tray, and select [Exit].



### 3. Uninstall (Remove)

Notes

\* Please operate the uninstallation software with log on manager's group account. (Recommend; account of administrator's group)

\* If "uninstall" cannot be selected, or the dialog "User account control (Vista)" or "Install program as other user (2000/XP)" is displayed while uninstall operation, the uninstallation cannot be completed. First of all, log off from PC, and try to log on by the manager's account.

#### ■ Uninstall LDL-02

Notes

\* We will recommend the backup of the measurement data etc. to be reserved before this operation.

1. Select [Control Panel] in start menu.

\* If you operate Windows 2000, please select [start]→[settings]→[Control Panel]



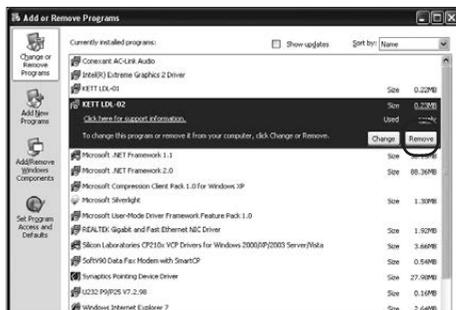
2. Double click [Add or Remove Programs]

\* If you operate Windows 2000, please select [Add / Remove Programs]. If you operate Windows Vista, please select [Programs and Features].



3. Select [KETT LDL-02], and click [Remove]. or [Change/Remove ].

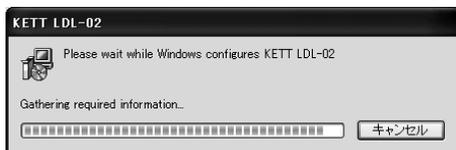
\* If you operate Windows Vista, please select [KETT LDL-02], and click [Uninstall/Change]. If “User account control” is displayed, select [continue].



4. Click [Yes].



Uninstalling will start.



## ■ Uninstall USB-RS232C Converter cable driver

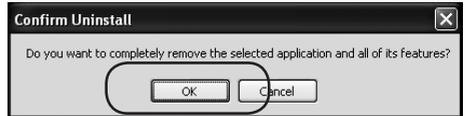
1. Please operate same operation from P.16(1) to (2).

2. Select [U232 P9/P25 V7.2.98] and Click [Remove].

\* If you operate Windows Vista, please select [U232 P9/P25 V7.2.98], and click [Uninstall]. If “User account control” is displayed, select [continue].



3. Click [OK].  
Uninstalling will started.



4. Click [Finish].



## 4. Reference

### ■ How to search serial port (RS-232C) number; (COM number)

1. Select [Control Panel] in start menu.

\* If you operate Windows 2000, please select [start] [settings] [Control Panel].

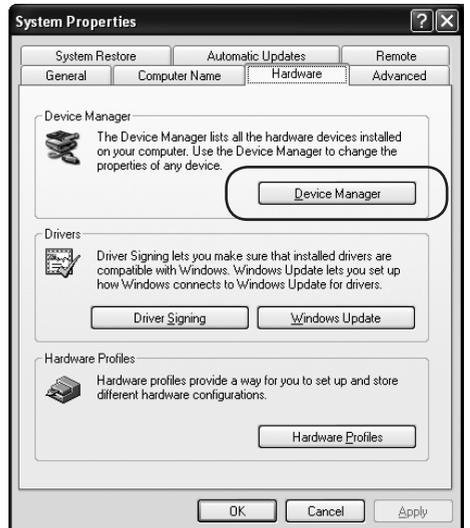


2. Double click [System].

\* Please make the control panel not the category view but a classic view on Windows XP and Windows Vista.

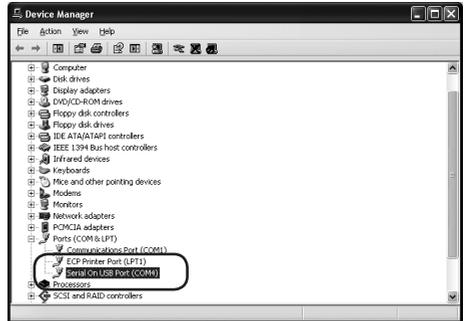


3. Click [Device Manager].



4. In a right example, the direct connect RS-232C port is one, because it is displayed [Communication Port (COM1)].

And, the RS-232C port of USB-RS-232C converter is four, because it is displayed [Serial On USB Port (COM4)].



## Version information of LDL-02

Click the LDL-02 icon (  ) in the task tray, and select [Information].



## ■ Troubleshooting

Trouble	Check Point
<p><b>Data is not putted on EXCEL.</b></p>	<ol style="list-style-type: none"> <li>1. Please confirm whether the selected RS-232C port is corresponding to the connected port. (See P.19)</li> <li>2. Please confirm whether PC is connected with L-370 by the connecting cable.</li> </ol>
<div>  <p><b>It is displayed while installing it, "It doesn't pass Windows logo testing".</b></p> </div>	<p>USB-RS232C converter (option) has been confirmed the operation. Please advance the installation clicking the continuation button at ease.</p>

The logo consists of a dark gray square on the left containing the word "Kett" in white, bold, sans-serif font. To the right of the square, the company name "KETT ELECTRIC LABORATORY" is written in a larger, bold, italicized, black sans-serif font.

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