# Kett

## Data Logger Soft LDL-02

# **Operating Manual**

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

## CONTENTS

	Introduction	4
	Packages	4
	System Requirements	5
	Notes	5
1.	Install	6
	LDL-02 Instal	6
	USB-RS232C converter (Option) Install	9
	Connect Coating Thickness Tester L-370 to PC	11
2.	Operate LDL-02	12
	Start LDL-02	12
	Set RS-232C port number	14
	Data transmission and storage	15
	End	15
3.	Uninstall (Remove)	16
	Uninstall LDL-02	16
	Uninstall USB-RS232C Converter cable driver	18
4.	Reference	19
	How to search serial port (RS-232C) number; (COM number)	19
	Version information of LDL-02	20
	Troubleshooting	21

## Introduction

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

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



#### \* 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**

- 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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- 2. It is impossible to reproduce by using part or all of this software and the manual without permission.
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- \*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 ( we ) in "My Computer", or double click [CD drive] and double click "CDRun.exe" in "Autorun".

Kett Data Logger Soft LDL-02		
LDL-02 Install	1	
USB-RS232C Driver Install		
Exit		
	KETT ELECTRIC LABORATORY	

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.

₩ KETT LDL-02	X
Select Installation Folder	
The installer will install KETT LDL-02 in the following folder.	
To install in this folder, click "Next". To install to a different new or existing below or click "Browse".	folder, enter one
Eolder: C#Program Files#LDL-02#	Browse
You can install the software on the following drives:	
Volume	Disk Siz
	74Gł
<b>₽</b> Z:	62ME
	>
	Disk Cost
<u>C</u> ancel <u>Previous</u>	

6. Click [Next].

₽ KETT LDL-02	
Confirm Installation	
The installer is ready to install KETT LDL-02 on your	computer.
Click "Next" to start the installation.	
Cancel	

7. Click [Next].



8. Click [Close].

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

Setup is now complete.

₿ KETT LDL-02	- X
Installation Complete	
KETT LDL-02 has been sucessfully installed.	
Click "Close" to exit.	
Cancel	Previous Dose

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.



\* 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 ( ket ) in "My Computer", or double click [CD drive] and double click "CDRun.exe" in "Autorun" folder.
- $\times$ Mata Logger Soft LDL-02 LDL-02 Install USB-RS232C Driver Install Exit KETT ELECTRIC LABORATORY USB to Serial Converter Driver Install 4 Welcome to the InstallShield Wizard for U232 P9/P25 V7 2 98 The InstallShield Wizard will install U232 P9/P25 V7.2.98 on your computer. To continue, click Next. <u>N</u>ext > Cancel USB to Serial Converter Driver Install Information Please read the following text The U232 driver setup program is preparing to install all the files ~ into your Windows system folder. Please remove the U232/ USB to Serial Converter from your system before continuing any further. VERY IMPORTANT: When the setup program finishes the installation of the driver files, you must restart your system before plugging in your U232/ USB to Serial Converter. Failure to do so could result in improper driver installation. For more information, ~ <u>N</u>ext > Cancel < <u>B</u>a

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 [IUSB-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.
- - \* If "KETT LDL-02" does not display, search for the program from My Computer, or click on [Astronometry] → [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.



\* 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.

					-
Microsoft Excel					Ě.
Elle Edit Yew	Insert Format To	ols Quata Window	Rep	Type a question for help	-
		BIU	8 - 1 - 14   S %	I IE   III - Ca - A -	E.
-			_		
Ready			E		11
LDL-02				l x	
					2
~					
	Couldn't s	start Excel a	and get App	lication object	
		ÖK			

#### Set RS-232C port number

Click the LDL-02 icon ( **I**) 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.

Microsoft Excel - Book1							
: B)	<u>Eile E</u> dit	<u>V</u> iew Ins	ert F <u>o</u> rmat	<u>T</u> ools [	ata <u>W</u> indo	w <u>H</u> elp	Type a que
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1	Data Mem	pry Store					
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3	*APPLI NO	0					
4	*LOT 0						
5	*DATE 200	38/09/30					
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							
нч	וֹ או ∖Sh	eet1 / She	et2 / Shee	t3/		<	
Read	dy						

#### End

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



## 3. Uninstall (Remove)



- \* 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



\* 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].

👪 Add or Re	move Programs			.ox
易	Currently installed programs:	Show updates	Sort by: Name	
Change or Remove Programs	Conexant AC-Link Audio     Intel(R) Extreme Graphics 2 Driver			^
a.	SKETT LDL-DI		Size	0.22MB
30	le <sup>2</sup> KETT LDL-02		Sim	0.23MB
Programs	Cick here for support information.		Used	
4	To change this program or remove it from your comp	uter, click Change or Remove.	Change	Remove
J.	Microsoft .NET Framework 1.1		Size	
Windows	Microsoft .NET Framework 2.0		Size	88.36MB
Components	Microsoft Compression Client Pack 1.0 for Windows X	9		
(P)	Acrosoft Silverlight		5420	1.3048
Set Program	Microsoft User-Mode Driver Framework Feature Pack	:1.0		
Access and Defaults	REALTEX Gigabit and Fast Ethernet NEC Driver		Size	1.92MB
C-CI BACK	Silicon Laboratories CP210x VCP Drivers for Windows	2000;0/P/2003 Server/Nsta	Size	3.6678
	SoftV90 Data Fax Modern with SmartCP	Size	0.54MB	
	Synaptics Pointing Device Driver		Size	27.90MB
	1232 P9/P25 V7.2.98		Size	0.16MB
	H Windows Internet Explorer 7		Size	2.64MB

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].



Click [OK].
 Uninstalling will started.



4. Click [Finish].

USB to Serial Converter Driver Uninstall		
E	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on UZ32 P9/P25 V7.2.98.	
	< Bac Finish Cancel	

## 4. Reference

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

E

- 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].

Windows Media Player	Control Panel				
	C Set Program Access and Defaults				
and Windows Messenger	Printers and Faxes				
Tour Windows XP	Help and Support				
Files and Settings Transfer Wizard	Search				
All Programs 🕨	1997 Run				
	Log Off 🔘 Turn Off Computer				
🛃 start 📄 🖬 3 Window	s Explorer 🔹 👸 Add or Remove Pi				
# Control Panel					
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Address Dr Control Parel	·D·				
Control Panel     Switch to Category Yeav     Cottons	Add or Administrative Automatic Date and Time Display emov				
See Also 8 Polder Options Parts	🞾 🥪 🔟 🏈 🍏 Game Indexing Intel <sup>(2)</sup> Internet Keyboard				
Windows Update White and Support	Colors Colors Diverse Colors				
Nouse Network Net Connections	work Setup Phone and Power Options Printers and Regional and Woard Modes				
Scarrers and Stredded	Security Sounds and Second Sec				
82 🖗					
User Accounts Windows Wi Firewall	reless Link Wireless Network Set				
See information about your computer system, and change settings for hardwar	e, performance, and automatic upda				
System Properties	?×				
System Restore Auto	oma <u>tic Updates</u> Remote				
General Computer Name	Hardware Advanced				
C Device Manager					
The Device Manager lists	all the hardware devices installed				
properties of any device.					
	Device Manager				
Drivers					
Driver Signing lets you ma	ike sure that installed drivers are Windows Undate lets you set up				
how Windows connects t	o Windows Update for drivers.				
Driver Signing	<u>W</u> indows Update				
- Hardware Profiles					
Hardware profiles provide different hardware configu	a way for you to set up and store irations.				
	Hardware Profiles				
	naruware <u>F</u> ronies				
	OK Cancel Apply				

 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)].

🗒 Device Manager	
Ele Action View Help	
←→ 8 2 2 8 2 3 × 2 2	
🗄 🚽 Computer	~
😟 🝩 Disk drives	
🗄 😼 Display adapters	
B - B DVD/CD-ROM drives	
🗄 🚭 Floppy disk controllers	
🕀 🍓 Floppy disk drives	
IDE ATA/ATAPI controllers	
IEEE 1394 Bus host controllers	
🕀 🚚 Infrared devices	
H - > Keyboards	-
Image: The second se	
E- b Modems	
E-B Monitors	
Imp Network adapters	
E PCMCIA adapters	
E Ports (COM & LPT)	
Communications Port (COM1)	,
ECP Printer Port (LPT1)	
Serial On USB Port (COM4)	
Processors	
EI-Se SCSI and RAID controllers	~

#### Version information of LDL-02

n the task

Click the LDL-02 icon ( If tray, and select [Information].



## Troubleshooting

Trouble	Check Point
Data is not putted on EXCEL.	<ol> <li>Please confirm whether the selected RS-232C port is corresponding to the connected port. (See P.19)</li> <li>Please confirm whether PC is connected with L-370 by the connecting cable.</li> </ol>
Software Installation         Image: Software Installation         Image: Software Installation of the software may impair or destabilize the correct operation of your system either immediately or installation now and context the software vendor for software that has passed Windows Logo testing.         Image: Software Installation of the software were were the software vendor for software that has passed Windows Logo testing.         Image: Software Installation of the software vendor for software that has passed Windows Logo testing.         Image: Software Installation Installation Installation Installation         Image: Software Installation Installation Installation Installation Installation Installation Installation Installation Installation Installing It, "It doesn't pass Windows Logo testing".	USB-RS232C converter (option) has been confirmed the operation. Please advance the installation clicking the continuation button at ease.
lesting.	

## KETT ELECTRIC LABORATORY



1-8-1 Minami-Magome Ota-Ku,Tokyo 143-8507 Japan Tel.+81-3-3776-1121 Fax.+81-3-3772-3001 URL http://www.kett.co.jp/ E-mail overseas@kett.co.jp