LINEEYE

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PC Link Software LE-PC300F

Instruction Manual

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LINEEYE CO., LTD

Chapter 2 Introduction

Thank you for your purchase of LINEEYE's PC link software.

- To use it correctly, you are advised to read and understand this together with the instruction manual for analyzer thoroughly.

- Keep this instruction manual.

General Description

This software allows the analyzers such as the LE-1200/LE-2200/3200/7200 to start measurement via PC and to store the monitored data on the PC via the AUX port (serial) or a memory card.

Product Components

After unpacking, check that the components listed below are complete.

V	CD-ROM (software)	1
V	Instruction Manual (This booklet)	1

If there is any component missing, contact your dealer or our company.

Chapter 3 Before Start-up

Installation Guide

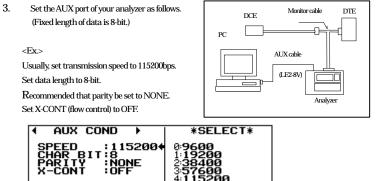
- Insert the included CD-ROM into the CD-ROM drive.
- 2. Select "RUN" from the "START" menu.
- 3. Input the "D (specify the CD drive):¥setup" in command line and click the "OK."
- The setup program will start. Follow the setup instructions. You need the serial number when installing. You can find the serial number on the side of the box that contains LE-PC300F (or on the card packed up with LE-PC300F).
- 5. After "Install Shield Wizard Complete" appears, click "Finish."

Uninstallation Guide

- 1. Click on the "Add/Remove programs" from control panel.
- 2. Select the "LEPC300F" from the list, then click the "Add/Remove" button.

Analyzer setting

- 1. Connect your analyzer to the circuit you would like to measure.
- 2. Connect your analyzer and a PC by the included cable (LE2-8V)



Notice

* Make sure to set your analyzer before starting LE-PC300F.

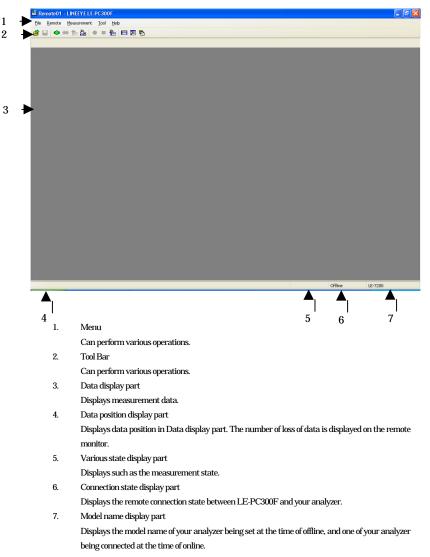
* Do not turn off power supply of your analyzer when it is connecting.

Chapter 4 Data Window

Data Window of LE-PC300F link software

Starting LE-PC300F PC link software Start "LE-PC300F" from the "Start" of Windows. Usually, the following display will appear.

Data Window



Chapter 5 Environment Setting

Remote Setting

Click 💼 on the tool bar of the data window (or "Remote Setting" of the "Remote" menu) to perform the

remote setting.

The remote setting consists of "Connection," "Model selection," "Remote monitor," "Key emulation" and "Miscellaneous."

Connection

Sets the remote connection.

	ci selección ritem	ote monitoi	Key emulation	Miscellaneous
Connection <u>m</u> eth	od : Serial port d	irect		~
Serial port :	COM1	*		
Speed :	115200	~		
<u>D</u> ata bit :	8	×		
P <u>a</u> rity :	None	~		
	Disable	~		
<u>X</u> -Control :	Disable			

Connection method

Select the connection method from the following.

"Serial port direct"

When connecting your analyzer to the serial port of the PC or USB-serial converter (LE-US232B).

- "Via SI-60" When connecting through SI-60*1
- "Via FA-11" When connecting through FA-11*2
- "Via FA-21" When connecting through FA-21 *2

*1 To learn more about the converter setting, read the instructions manual included to the converter: Dsub25 (male)-9 (male) Converter (when using LE2-8V), or LE2-8M is required.

*2 You can use the type which converts serial data into a TCP packet as it is. However, every LAN-Serial converter is not guaranteed. (LINEEYE does not support connection except SI-60.)

Henceforth, the required setting depends on connection methods you selected. "Serial Port" ("Serial port direct") Selects the serial port of the PC connected.

"Speed" ("Serial port direct," "Via SI-60," "Via FA-11," "Via FA-21") Sets up according to the speed of the AUX port setting of your analyzer:

"Data bit" ("Serial port direct," "Via SI-60," "Via FA-11," "Via FA-21") Fixed number of data bit is 8, so you cannot change it. Make sure that the AUX port setting of your analyzer is 8bit as well.

"Parity" ("Serial port direct," "Via SI-60," "Via FA-11," "Via FA-21") Sets up the communication data parity between your analyzer and a PC. Usually, set "None."

"X-Control" ("Serial port direct," "Via SI-60," "Via FA-11," "Via FA-21") Sets up whether to perform the flow control of X control systems between your analyzer and a PC. Usually, set "None."

"Host name" ("Via SI-60," "Via FA-11," "Via FA-21") Set the host name or IP address of a LAN-serial converter to use.

"Data port" ("Via SI-60")

Sets the port number for sending and receiving the serial data. If you leave it blank, it automatically is set, so usually keep blank. If the router or the firewall causes the port number to be changed, it needs to be set.

"Control port" ("Via SI-60")

Set the port number of SI-60. Usually, keep the port number blank. If the router or the firewall causes the port number to be changed, it needs to be set.

"Command port" ("Via FA-11," "Via FA-21") Sets the command port numbers of FA-11 and FA-21.

"Serial port" ("Via FA-21") Select which port you use from 2 serial ports of FA-21.

Model selection

Performs the setting about your analyzer used. Mainly, it is used at the time of offline. However in the case of that there is information which is not received by remote communication at the time of online, it is used as it is set. In addition, if the information is received by remote communication, these settings are automatically changed following the setting.

onnection Model	selection	Remote monitor	Key emulatio	n Miscellaneous
Analyzer <u>m</u> odel :	LE-720	00	~	
Expansion board :	Stand	ard	*	
which cann When these	ot acquire e informati		emote commun n remote comm	unications, the

"Analyzer model"

Selects the model name of a target analyzer.

"Expansion board"

Selects the expansion board which is equipped with a target analyzer.

"Firmware"

Set s when you use optional firmware on a target analyzer. It is for expansion of future use. Not available now.

Remote monitor

Sets the remote monitor.

onnection	Model selection	Remote monitor	Key emulation	Miscellaneous
	o save the remot ents and Setting:	e monitor data	nents\LEPC300F\	Remote01\Buff
Block size :	[IM Bytes 🛛 👻		
<u>M</u> aximum b	lock count :	10 (2-200	D)	
Eull stop Measure		the stored files rea	ach maximum blo	:k count.
	removing the e:	kisting data files wh aved in order after		starts,
Warning		re is a data file on	starting measure	ment

A folder to save remote monitor data

The folder is to save data received from your analyzer by the remote monitor function.

To change the setting, click the "Change..." button.

Then, the window to select a folder appears.

Select the proper folder to click the "Ok" button.

The file name for saving data is saved from "0000000.DT" in numerical order.

- * Recommends to specify an exclusive folder.
- *Specify a drive which has enough capacity.
- (When it does not have enough capacity, a PC may not operate correctly.)

"Block size"

Sets up the data capacity per file. You can select from "1M Bytes" "2M Bytes" "4M Bytes" or "8M Bytes"

"Maximum block count"

Sets up the maximum block count of a file to save. You can set from 2 to 2000. When the number of the data file is over this setting, the data file with a small number file is deleted.

"Full stop"

If the stored files reach maximum block count when checking, measurement will automatically stop.

"Append mode"

When checking and measurement starts, a newly-created file is saved in order after them without removing the existing data files. If the numbers of the whole data files are over the maximum block count setting even in the append mode, a data file with a small number file (data files were saved on former measurement included) is deleted.

"Warning display"

When checking, you will be warned if there is a data file on starting measurement.

"Key emulation"

Sets the key emulation.

	ting			X
Setting name	: Remote01			
Connection	Model selection	Remote monitor	Key emulation	Miscellaneous
A folder to	o save the screen	capture data		
C:\Docum	ents and Settings\	lineeye\My Docum	ents\LEPC300F\	Remote01\Scre
				Change
		ſ	ОК	Cancel

A folder to save the screen capture data

A folder to save a screen image when you save it on the key emulation screen. Click the "Change" button to set then the folder setting window appears. If you change the setting, also select a folder you would like to set, and click "OK".

"Miscellaneous"

onnection Model selection Remote monitor Key emulation Miscellaneous Settings synchronization The setting data will be automatically received or transmitted when the analyzer setting window is opened or closed.	tting name	: Remote01			
The setting data will be automatically received or transmitted when the	Connection	Model selection	Remote monitor	Key emulation	Miscellaneous
	The set	ting data will be a	utomatically receiv s opened or closed	red or transmitte 1.	d when the

Settings synchronization

Transmits and receives contents of the setting automatically at the time of the opening and closing the analyzer setting window when you check.

Chapter 6 Remote monitor

This function allows to start measurement of your analyzer and to record measurement data on PC HDD displaying in real time.

Connection

After finishing setting the system requirements (remote setting), click 🜻 on the tool bar of the window (or

click "Connect" of the remote menu) to connect with your analyzer.

At the time of completing the connection with your analyzer, the connection state display part of the data window displays "Stopping", and the model display part displays the model name of the analyzer connected.

Analyzer setting

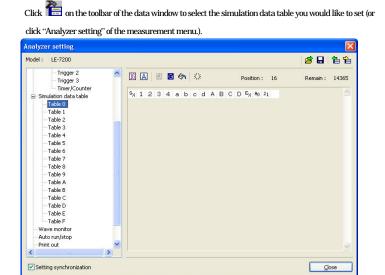
Click f on the toolbar of the data window to set your analyzer (or click "Analyzer setting" of the measurement menu).

odel : LE-7200		
Function Interface Monitor buffer Data monitor Configuration Record and Display control Trigger 0 Trigger 1 Trigger 2 Trigger 3 Trigger 3 Trimer/Counter Wave monitor Auto run/stop Print out Date and Time Others	Monitor Online Delay Trend BERT Simulation MANUAL BUFFER FLOW ECHO POLLING PROGRAM	

On the analyzer setting window, every time you select the setting developed on a tree (on the left), the contents of the setting (on the right) are changed. Depending on necessity, set each.



Simulation data setting



Changes the data to the hexadecimal display or ASCII display.
 Changes the input to the hexadecimal or ASCII.
 The character which is focused is set to the parity error (or the multi processor bit.)
 Inputs BCC (or FCS.)

🍘 : The data from "Begin data" to "End data" is inputted by the number of characters of "Data size."

"Start data">"End data" : Inputs the number of characters of "Data size" while performing "+1" from "Begin data."

"Start data">"End data": Inputs the number of characters of "Data size" while performing "-1" from "Begin data."

: Delete all the data in the table.

Run measurement

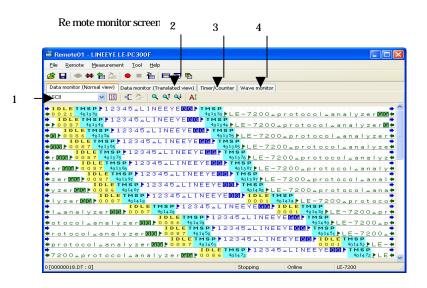
Click on the toolbar of the data window (or click "Run measurement" of the measurement menu) to measure. After measurement starts, "Measuring" is displayed on the state display part, and data received from your analyzer is displayed one by one. You can change character size (click A) and character code, display in hexadecimal (click 16), and pause while measuring (click 1).

Stop measurement

To stop measurement, click e on the toolbar of the data window (or click "Stop measurement" of the measurement menu). After stopping measurement, you can perform such as scroll. Data is automatically saved in the folder you specified on the remote setting. To save with another name, click

(or click "Save data file" of the file menu.).

At the time of stopping measurement, the last file opens. To display all files, click in the context of the file menu) to select a file to display.



Switch screen display

There are the following method	ls to switch the screen display.
-Change display code	Select a character code from the drop down list which displays
	character codes.
-Hexadecimal number display	Click 16.
	(Displayed in hexadecimal number including special characters.)
-Control line information display	Click T . To change control line information you would like to
	display, click 🎦 to open the control line information setting
	window, and set up.
-Translated view	To switch the screen into the translated view screen, click the data
	monitor (translated view) tab (marked above 2.).Click 🌮 to
	switch the screen into the packet translated view if the packet translation is possible when the translation is displayed. Click the
	data monitor (normal view) tab to switch the screen into the original display screen.
	15

-Timer/Counter	To switch the screen into the timer / counter display screen, click the timer / counter display tab (marked above 3).	
-Wave monitor disp	lay To switch the screen into the wave monitor display screen, dick the wave monitor display tab (marked above 4).	
Read the measureme	nt data	
Click 불 on the toolbar	of the data window (or click "Open data file" of the file menu) to select a file of the	
measurement data.		
	opened, they are displayed as continuous data.	
WIRTEWOOD THOSE HES die		
Search Data		
Click 🤇 to set the searc	h conditions on the data search window.	
-Search conditions		
"Trigger"	Data which meets the trigger conditions	
"Error"	Parity error/Framing error/BCC error/FCS error/Break/Abort/Short frame	
	error (Data which meets what was checked).	
"Character"	The data length of a maximum of eight characters. (Can specify don't care	
	and bit mask.)	
"Idle time"	Idle time more than the appointed time.	
"Time stamp"	The designated time stamp. (Can specify don't care.)	
-Search operation		
"Display"	Met data is displayed at a head.	
"Calculation"	The number of data met is displayed.	
* To learn more detail	ls of the search condition, read the instruction manual included your analyzer.	
Click 🔍 (the direction	of the data head) or \mathbf{Q} (Back of the data) to search and calculate data.	

Chapter 7 Bit Error Rate Test (BERT)

When selecting bit error rate test (BERT), you can monitor quality of communication lines in remote place.

Run measurement

Click 🔎 on the toolbar of the data window (or click "Run measurement" of the measurement menu) to

measure. After measurement starts, the following screen appears.

Ele Remote Measurement Icol Help
<u># 🖬 ● ₩ 15 8 26 ● ■ 16 🗉 8 6 8</u>
Bit error rote test
₩ 1+ 5+ II
Saval : 0 Sync. loss : 0 Benetive bink : 0
Receive bit : 0 Receive block : 0 Error bit : 0 Error block : 0
Bit error rate : 0.00e+0 Block error rate : 0.00e+0
Error second : 0 %E.F.S. : 100.000
Lost count : 0 Measuring Online LE-7200
IDI Pessaring Online Levzao
Stars BERT.
SIGIS DER1.
 Stops BERT. (The test pattern is continuously output.) Outputs error of 1 bit.
• Outputs continuous error of 5 bits.
Pause on updating display.
\mathbf{E} : In the case of BERT of the repeat mode, multiple results can be received an
measurement stops. Converted results are saved as BERTDATA.csv.
${f \tilde{B}}$: Converts BERT results of the repeat mode saved on the analyzer (saved on the saved on the save
Saves BERT results. In the repeat mode, perform "Text conversion" to save

Chapter 8 Key Emulation

This function allows to perform the remote control from a place far from your analyzer or from a remote place.

Run key emulation

Click	on the too	lbar of th	e data wii	ndow (or click	. "Key emu	ulation" of	the tool n	nenu.).	
	Remote01 Ke			E LE-PC300F					X
			<u>ل</u> ع						1
1									
	C	 D	E	F	MENU	DISPLAY	TIME	STOP	RUN
2		9	A	B	 DEL	CODE		PAGE UP	LOAD
	4		6	7	BOTTOM X		ENTER	>	FIND
	0	1	2	3	SHIFT	HEX	V	PAGE	PRINT

- 1. Displays the screen of your analyzer being connected.
- 2. Emulate the key of your analyzer.

Capture of the screen image

You can save the screen display image of the connected analyzer in a bitmap (BMP) file format.

: Captures the present screen display as a bitmap file.

: Copies the present screen display to the clipboard.

Creates a bitmap file in a monochrome mode.

: Creates a bitmap file in a monochrome mode (with an outer frame.).

: Creates a bitmap file in a color mode.

Chapter 9 Text Conversion

This function allows to convert the data which is measured on the remote monitor, and which is saved on such as a memory card and HDD into a text file.

Text conversion function setting



The following text conversion window opens.

File <u>t</u> ype :	Conversion options -				
Data files(*.dt)	Output format :			Line state :	
Monitor data files :	Normal		•	⊡ RS	Up
Refresh	Select data line :	SD and RD	•	I CS I DR	Down
	Data format :	Char./Hex.	•	CD ER	
	Line <u>w</u> idth :	80	•	□sQ □□	
	☐ No guide			EX	
	□ E <u>×</u> clude time sta	mp			
	Exclude idle time	•			
	HDLC translation :	Frame	•		
	PPP translation :	PPP	•		

-Folder

Specify a folder which has the data you would like to convert into text.

-The kind of file

Selects from "Data files" and "Analyzer's auto save files."

-Refresh

Refresh the file information in the specified folder.

-Monitor data file

Selects a file you would like to convert from the list display. It is selected by clicking the file. To cancel the selection, click the file again. (You can select two or more files, and also select and cancel all of the files.)

-Output format

Selects a format you will convert from the following.

"Normal print" (Print format of your analyzer)

"Normal print with line state (Print format of your analyzer which includes control line information)

"Translated print (designated at the time of measurement)" (Translated print format of your analyzer)

"CSV format processing unit: Data (normal)" (Every data divided.)

"CSV format processing unit: Frame" (Every frame divided.)

-The number of characters per line

Selects the number of characters displayed per line from "40" "80" and "136".

-Data format

Selects the data format to convert from the following.

"Char. / Hex." (Displays the character code and the hexadecimal number value.)

"Char. Only" (Only characters are displayed.)

"Hexadecimal" (Only the hexadecimal number is displayed.)

-No guide

If "No guide" is checked, converts such as the communication condition without no guide (data only.) -Exclude time stamp

If "Exclude time stamp" is checked, delete the time stamp to convert.

-Exclude idle time

If "Exclude idle time" is checked, delete the idle time to convert.

-Select data line

Selects the data to convert from "SD and RD," "SD only" and "RD only."

-HDLC translation

At the time of HDLC, selects the translation format to convert from "Frame" and "Packet."

-PPP translation

At the time of PPP, selects the translation format you convert from "PPP" and "DUMP."

-Line state

At the time of "Normal print and Line state," check the control line displayed with. You can change a turn to display, by clicking "up" and "down" button.

If the CSV conversion is selected, the following window appears.

File type : Data files(*.dt)	Conversion options - Output format :			
Monitor data files :	CSV format (data)	1	•	
Refresh	Select data line :	SD and RD	•	
	Data format :	Hexadecimal	•	
	Colymn :	16	÷	
	Deļimit char. :			

-Select data line

Selects from "SD and RD," "SD only" and "RD only."

-Data format

Selects from "Hexadecimal," "Decimal" and "Character."

-Column

Set the range between 1 and 255.

-Delimit char.

Set the delimit character such as ","

Perform Text Conversion

Click "Convert." A converted file is saved in a folder which contains its source file.

Chapter 10 Waveform Monitor Data

Eile	Re	emote	Meas	ureme	nt (<u>T</u> ool	Help																	_	
3 6		۰	** 1	2	•	= 1	b F	= 2	s 🖷	5															
Data	mor		Jormal v				r (Trar					onitor													
x1			<u>~</u> ~		7.18		-	Þ	M	-2.94n				C-M :	10.12	ms									
			-2 mlauhudu	ms	hudunda		Dms	hadaada	hadaad	2m		mbaadaaa		4ms	lundender	In the second	6m		In and the set	Ģ	8ms		ndan (mala	mlandaad	
SD	01	1		-	-		T		Ļ			υи	Ш	ΠГ			Ц	_	Ц	Ļ	Щ		Ш	Ш	1
RD	11	1			Л	תתת	זתך	ШГ						1		l.	1				ł		-		
RS	0 (1																		1					
CS	0 (-																							
DR	0 0	0																							
ER	0 0	1																							
CD	0 (1																		Ì.					
CI	11	1								- 1										t			1		
ST1	1 1	1										8		1						ł					
ST2	1 1			iunnu	ווחחח		ndanna					nnin								unn	unnu			INNI	(
RT	1 1											החחת								unn	Innnin			nnn	(
EX	0 (0018351835								0,810/0		1001000					NO PUNA				949978S		~~~~	~
		<	III) ''				State -			165					1			8			11	>	1

-Display magnification change

Select the magnification you would like to display from the drop down list which is displayed.

Click **C**. The cursor is displayed near the center of the screen.

Click M. The marker is displayed near the center of the screen.

-Cursor display

-Marker display

-Time measurement

Drag and on the screen of the wave monitor to the position you would like to measure. "C-M:**ms" shows the time between the cursor and the marker (eg. The image above indicates C-M: 74ms).

-Signal display order setting

Click to set the order to display on the signal standard setting.

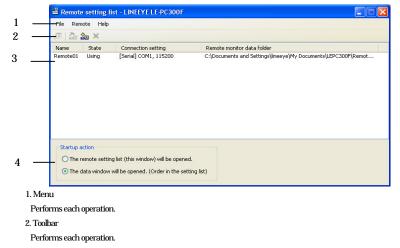
Chapter 11 Connecting Multiple Analyzers

To connect multiple analyzers at the same time, adding the necessary setting for each is required

Adds the remote setting on the remote setting list window.

To open the remote setting list window, click 🔊 from the toolbar of the window (or click "remote setting list" of the tool menu).

Remote Setting List Window



3. Remote Setting List

Displays the remote setting.

Option Setting

Selects how to operate when starting.

Adding the Remote Setting

To add a new setting to the list, click in the toolbar of the remote setting window (or, click "new setting" of the remote menu.). And the remote setting window opens then set necessary items. (Fro more information about each item of the remote setting, read "Chapter 5 Environment setting.") * For plural remote settings, make sure not to specify the same folder as location saving the remote monitor data.

When opening this setting window from the remote setting list window, you can rename the setting name. (It does not allow you to rename the setting name when the window opened from the data window)

	selection F	Remote monito	r Key emulation	Miscellaneous
Connection method	: Serial po	ort direct		*
Serial port :	COM1	~		
Speed :	115200	*		
1210 120	8	~		
<u>D</u> ata bit :				
<u>D</u> ata bit : P <u>a</u> rity :	None	*		
	None Disable	~		

Those instructions guide you to add the remote setting for the number of analyzers you wish to connect.

Opening the Data Window

To open the selected data window for remote setting, select the specific remote setting from the list of the

remote setting list window (multiple selections possible) to click 🛄 on the toolbar (or, click the "open data window" of the file menu.).

Deleting the Remote Setting

It allows you to delete unnecessary remote setting.

At first, select the remote setting you wish to delete from the list of the remote setting list window (multiple

selections possible) to click in the toolbar (or, click "delete setting" of the remote menu). Then, the deletion confirmation appears and the selected setting will be deleted by clicking the "OK" button.

However, if the remote settings opening their windows are included with multiple selections, you cannot delete them. If you end the application with all the remote settings deleted, a new setting (default setting) will be automatically added when you start the application next. Operation Setting of When Starting

You can select operation of when LE-PC300F starts from the following:

"The remote setting list (this window) will be opened"

The remote setting list window opens. If the window has already opened, it will be displayed in front.

"The data window will be opened. (Order in the setting list)"

The data window will be opened in order according to the remote setting list. If all data windows for the remote setting have already opened, the operation is the same with 'The remote setting list (this window) will be opened."

Chapter 12 Specifications

Applicable analyzers	LE-7200, LE-3200, LE-2200, LE-1200 *1								
Connection	Serial or LAN FA-11)	N connection (Supports the LAN-serial converters SI-60 and							
NO. of analyzers to be connected		Multiple analyzers can be connected and controlled simultaneously. (No. of connectable analyzers depends on the performance of the PC.)							
Key emulation function	Displays the analyzer's display and keys on the PC screen, and can perform the analyzer remote control.								
Measurement condition setting function	Measurement conditions (communications parameters, trigger and simulation data) can be edited and set.								
	-	easurement with an analyzer, displays the measurement data en, and records data continuously.							
Remote monitor Function	Recording mode	Fixed buffer mode: Measures data up to the specified size and stop automatically. Ring buffer mode: Records the latest data of the specified size endlessly.							
	Recording capacity	Max. 16 GB: Can be specified up to 2,000 files in the unit of 1/2/4/8 MB.							

	Standard	Displays com	munications data, idle time, time stamp and				
	display	data line statı	IS.				
	Translation	Translates an	d displays protocols such as SDLC, X.25 and				
	display	LAPD.					
Display modes	Waveform monitor display	U	reduces waveform. • time, and rearrange signals.)				
	Character codes	ASCII, EBCDIC, JIS7, JIS8, Baudot, Transcode, IP EBCD, EBCDIK, HEX (in hexadecimal including codes)					
	Finds and displays the data that matches the search key.						
		Specified data string (max. 8 characters, don't care and bit mask can also be specified)					
Search function	Search key	Error (parity, framing, BCC, break/abort, short frame: individual error type can be specified)					
		Idle time beyond a specified duration					
		specific time stamp (don't care can also be specified)					
Text-CSV conversion	Specified number of recorded files can be converted to text or CSV format all						
function	together.						
Screen image capture function	Analyzer's disp	lay shown by ke	y emulation can be saved to bitmap files.				
System requirements	PC	DOS/V	CPU: Pentium3 1GHz or faster RAM: 256 MB or more (recommended) HDD: 5 MB + free space on the measurement data area				
	00	Windows 98/9	98SE/ME/2000/XP				
	OS	(Internet Exp	lorer needs more than 4.01.)				
Composition	CD (software) x	1, instruction n	nanual x 1				

*1 You cannot use in combination with OP-SB7F or OP-FW10.



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