LINEEYE

Supports RS-232C, RS-422/485, TTL (UART, I2C, SPI)

Multi-protocol analyzer *LE-3500XR*





Arbitrary speed up to 2 Mbps 100MB buffer memory Up to 32GB auto save function PROGRAM simulation Wi-Fi remote control

The screen can be scrolled by swiping. The key operation is also available.



MODBUS standard compatible, CAN/CAN FD/CXPI/LIN optional.

Multi interface / Multi-Protocol supported

Equipped with RS-232C, RS-422/485, TTL (1.8/2.5/3.3/5V) measurement ports.



Standard support:

ASYNC (start-stop synchronization), SYNC/BSC, HDLC/SDLC, PPP(ASYNC), I2C, SPI, BURST, MODBUS

Optional support:

CAN FD/CAN, CXPI, LIN, X.20/21, RS-449, V.35, RS-530, Current loop, High speed CC-LINK



Expandable by replacing the board or adding a dedicated cable

• Monitor, simulation, BERT available

Many test functions and modes are available that are suitable for analysis purposes and test scenes.









Safe and reliable Auto-Save function

The measurement log file can be continuously recorded for a long time into a SDHC card or a USB flash drive. Even if the battery runs out suddenly, the log file being written is safely closed and measurement is completed, so valuable records can be reliably saved.



DUT	Estimated continuous recording time *		
speed	100MB Main	32GB SDHC card	
(bps)	memory only	Using SD-32GX	
9600	Approx. 6hrs.	Approx. 80days	
115.2K	Approx. 28min.	Approx. 6.5days	
1M	Approx. 200sec.	Approx. 20hrs.	

^{*:} When 1 kilobyte data is repeatedly transmitted by full duplex with intervals of 1m second idle time for each.

Convenient Statistical analysis function and logic analyzer function

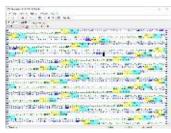




Utilize measurement data on a PC

Includes PC link software (light version). Wi-Fi connection between analyzer and PC is also available.





LE-3500XR specifications

LE-3500XR spec	ifications		
Standard	RS-232C, RS-422/485,		
measurement port	TTL (1.8V/2.5V/3.3V/5V level)		
Expansion	CAN, CAN FD, CXPI, LIN, X.20/21,		
measurement port	RS-449, V.35, RS-530, current loop		
Standard protocol	ASYNC, SYNC/BSC, HDLC/SDLC,		
'	PPP(ASYNC), I2C, SPI, MODBUS, BURST		
Expansion protocol	CAN, DeviceNet*1, CAN FD, CXPI, LIN,		
· ·	CC-LINK*1		
Capture memory	100 MB *2 Can be split into 2		
Measurable speed	50bps ~ 2.048Mbps		
'	(Available with 4 significant figures)		
Line signaling mode	NRZ, NRZI, FM0, FM1		
Data display code	ASCII, EBCDIC, JIS, Baudot, Transcode,		
' '	IPARS, EBCD, EBCDIK, HEX		
Measurement	Protocol, data/parity/stop bit, sync clock, frame		
condition setting	end, address filter, bit transmission order, bit		
3	polarity, etc. can be specified according to the		
	DUT		
Online monitor function	Raw data display, protocol translation display, error display, bit shift display possible		
Error check function	Parity, Fleming, Break, BCC, Abort,		
	Short frame, Non-ACK (I2C)		
Idle time measurement	Resolution 1 msec., 10 msec., 100 msec., and		
	OFF can be specified up to 999.9 sec		
Time stamp record	Minimum 10 msec. (day:minute:second.10m sec.), 6 time units and OFF can be specified		
Line status record	Record RTS, CTS, DTR, DSR, DCD, RI,		
	TRGIN (external trigger input) signals together		
	with send/receive data		
Interval timer	2, Maximum count 999999		
	(Resolution 1msec., 10msec., 100msec.)		
General counter	2, Maximum count 999999		
Data counter	Maximum count for SD/RD is 4294967295		
Trigger function	4 sets of trigger conditions and actions can be		
	specified External trigger (1 input, 2 outputs)		
Trigger condition	Communication error, communication data		
rrigger condition	string of up to 8 characters (don't care and bit		
	mask can be specified), idle time longer than		
	specified time, matching timer/counter value,		
	logical state of control line and external input		
Trigger action	Stop measurement/test (offset number can be		
	specified), enable trigger condition, timer		
	control, counter control, buzzer sound, file		
	save, specified character string transmission,		
Manifest and 00	pulse output to external terminal		
Monitor conditions auto	Automatic setting of measurement conditions		
setting	such as speed (up to 460.8Kbps) and data frame *3		
Auto run/stop function	Specified time RUN/STOP		
, wie rungstop fundtion	(Hourly/Daily/Monthly repeatable),		
	Power-on RUN setting possible		
Auto save function	Automatically save a specified number of		
	communication log files in external storage with		
	a specified file size.		
	Ring record, automatic stop at maximum size		
	can be specified		
Delay time function	Measures and displays the interval of change		
	in the interface signal line.		
\/-\t	(current/min/max/average, resolution: 0. 1ms)		
Voltage measurement	RS-232C input range ±18V		
function	TTL input range -1V to 6V, resolution 0.1V		
Statistical analysis	Communication data, frame, and trigger match		
function	count are aggregated for each specified period		
	(1 to 24 minutes) and displayed as a graph 1KHz to 20MHz sampling, zoom display,		
Logic analyzer function	cursor time measurement, signal order swap		
	Lucisor une measurement signal orger swab. I		

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Simulation function	Data can be sent to the test target while	
	checking the received data	
Test data table	Transmit test data 160 types (16K data) can be	
	registered, BCC/LRC automatic calculation,	
	parity error data can be registered	
Test mode	6 modes (MANUAL, FLOW, ECHO,	
	POLLING, BUFFER, PROGRAM)	
	selectable	
Bit error rate test	Measures line quality such as bit error rate	
	and block error rate according to ITU-T	
	G.821*4	
File management	Save, load and delete measurement data	
, and the second	and measurement conditions	
Remote control	PC link software (light version *5) included	
	Measurement data display, recording,	
	text/CSV conversion	
LCD display	4.3 inch TFT color LCD (480x272dot)	
100 4.06.49	With touch panel	
LED display	Line state display, power/charge display	
External interface	USB2.0 (Standard A /micro-B each 1),	
	SDHC card slot, Wi-Fi 802.11 b/g/n *6	
External storage	SDHC card and USB memory *7 Up to	
	32GB	
Power supply	USB bus power, built-in lithium-ion battery	
11,7	Battery operating time: About 7 hours *8	
Temperature range	Operating temperature: 0-40°C	
1	Storage temperature: -10-50°C	
Dimension, mass	190 (W) x 153 (D) x 38 (H) mm, About 550g	
Accessories	Monitor cable for DSUB 25-pin (LE-25M1),	
	Monitor cable for DSUB 9-pin (LE-009M2),	
	DSUB25pin-9pin conversion adapter,	
	5 wires TTL prove cable (LE-5LS), micro	
	USB cable, USB charger (LE-P2USB),	
	carrying bag (LEB-01), Utility CD,	
	quick start guide, and warranty	

*1: Raw data display only. The optional OP-FW10XR is required for high-speed CC-LINK. *2: Communication data, idle time, time stamp, and line status consume 4-8 bytes of memory for each capture. *3: Automatic setting is available only for ASYNC, SYNC/BSC, HDLC/SDLC. If the communication data amount is small or there are many errors, the automatic setting cannot be performed correctly. *4: Only available in ASYNC and SYNC modes. *5: Some functions of the product version PC link software LE-PC300R are limited. *6: It can be shipped with the Wi-Fi function disable due to the radio law of each country. Please contact our sales department for details. *7: Operation of SDHC cards other than LINEEYE option is not supported. *8: According to our measurement conditions. conditions.

Option

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Item name	Model number	Remarks		
Expansion kit for CAN FD/CAN/CXPI	OP-SB7XC			
Expansion kit for CAN FD/CAN/LIN	OP-SB7XL			
HDLC/SPI Firmware to speed up	OP-FW10XR	*1		
Expansion board for RS-530	OP-SB10N			
Expansion kit for current loop comm.	OP-SB1C			
Expansion kit for TTL/I2C/SPI	OP-SB5GL			
5 wires TTL prove cable	LE-5LS	*2		
X.21 monitor cable	LE-25Y15	*3		
RS-449 monitor cable	LE-25Y37	*3		
V.35 monitor cable	LE-25M34	*3		
RS-530 cable	LE-25S530	*3		
USB charger	LE-P2USB	*2		
PC link software	LE-PC300R	*4		
PC link software (For OP-SB7XC/7XL)	LE-PC7XCL	*4		
3.81mm pitch terminal block (5 POS.)	LA-5ETB45	*5		
16GB SDHC card	SD-16GX			
32GB SDHC card	SD-32GX			
: Speed up to 10 Mbps				

*4: Full edition with no functional restrictions

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Read the instruction manual provided with the product before use and use the product as explained in that manual. Using the product in ways not guaranteed in the manual, connecting it to systems outside of the specified ranges and remodeling can all cause trouble and damage. LINEEYE CO., LTD. will assume no responsibility whatsoever for trouble or damage arising because of unauthorized ways of use.

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