





32ch model



16ch model

64ch model	6	4ch	m	od	el
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External dimens	ions (WxHxD)	approx. 300 x 197 x 200 mm	approx. 300 x 153 x 200mm	approx. 300 x 109 x 200mm	approx. 300 x 65 x 200mm
Weight*		approx. 10kg	approx. 7.7kg	approx. 5.4kg	approx. 3.1kg
Power	AR-LXPA1000 (Analog) x 4	approx. 81W	approx. 64W	approx. 47W	approx. 30W
consumption	AR-LXST1000 (Strain) x 4	approx. 133W	approx. 103W	approx. 73W	approx. 43W

48ch model

		* Not including AC adapters, media and optional board	
Specifications			
Product configuration	Main unit LX-1000	Up to 4 amplifiers can be incorporated.	
	Expansion unit AU-LX1000EPIO	Up to 4 amplifiers can be incorporated.	
Power supply	AC100V - 240V (from included AC adaptor),	DC 8V-36V	
Maximum number of channels	Analog recording: up to 64 ch / pulse recording: 2 ch *A cooling fan is necessary if even one AR-LXST1000 is installed.		
Cooling	No external cooling required (Fanless: up	No external cooling required (Fanless: up to 32 ch)	
	102.4kHz series	102.4k/51.2k/25.6k/12.8k/5.12k/2.56k/1.28kHz	
	100kHz series	100k/50k/20k/10k/5k/1kHz	
Sampling frequencies	96kHz series	96k/48k/24k/12k/6k/3k/1.5kHz	
	65.54kHz series	65.536k/32.768k/16.384k/8.192k/4.096k/2.048k/1.024kHz	
	Low speed sampling	500/200/100/50/10/5/1Hz	
Quantization bit depth	16bit/24bit		
Interface for PC	Gigabit Ethernet (1000BASE-T) x 1 port		
Recording media	SDHC / SDXC card (8GB-128GB, CLASS 10 or more) / PC direct recordable		
Maximum recording rate	3.2 Mbyte/s	40kHz band (102.4kHz sampling) x 16-bit x 16ch	
0 1 1 1 1	LX-1000 Synchronization	Up to 4 units	
Synchronized operation	VR-24 synchronization	1 unit	
	Number of input channels	2	
	Input connector type	BNC	
	Input format	Unbalanced	
	Input impedance	100kΩ	
Pulse input (standard equipment)	Input voltage	±50V maximum (threshold ±20V)	
	Input frequency	450kHz maximum	
	Threshold	±0.5V/±1V/±2.5V/±5V/±10V/±20V (switchable)	
	Division ratio setting	1-255	
	Moving average	1, 2, 4, 8, 16	
	Number of input channels	1ch	
GPS input (standard equipment)	Input connectors	DX10A-20S (50)	
	Recommended GPS module	GARMIN GPS18x-5Hz	
Voice memo input and output	Sampling frequency	8kHz	
	Quantization bit depth	8 bit	
	File format	WAV	
	Operating temperature/humidity range	0 to 40°C / 10 to 80% (no condensation)	
0 "	Storage temperature/humidity range	-20 to 60°C / 5 to 90% (no condensation)	
Operating conditions	Operating air pressure range	860 - 1060hPa	
	Vibration resistance	MIL-STD-810E Figure 514.4-1, 2, 3	

### Accessories

<ul><li>CD-ROM</li></ul>	1	×
Contents:	Instructions for Use, LXK Navi software*, LXK Navi O	peration Manua
<ul> <li>AC adap</li> </ul>	ter	
LX-1000	only	×
System v	with LX-1000 and one AU-LX1000EPIO unit	×
System v	with LX-1000 and two AU-LX1000EPIO units	×
System v	with LX-1000 and three AU-LX1000EPIO units	×

• AC adapter power cords same as number of AC adapters

Microphone for voice memosEarphone

Front handle (TZ-LXFH1000)

### Options

● BU-LX1000	Battery Box
● ER-LXRC1000	Remote control unit
TZ-LXFAN1000	Cooling fan unit
● NP-7LS	Battery pack
JL-2PLUS	Battery Charger
LXGPS18X (5Hz)	GPS receiver
● CS-LX1016	Carrying Case (for up to

CS-LX1016 Carrying Case (for up to 16ch)
CS-LX1032 Carrying Case (for up to 32ch)
TZ-LXVMK series Vehicle Mount Adapter
CL-DRDC DC power cable

BU-LX1000

Mounting image with 16CH model

\*Batteries and battery charger are sold separately.

Continuous operation time on battery unit: approx. 7 hours

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In Pursuit of Data Recording
Further challenges to recording, and evolution



# LX-1000 comes with fulfilling functions and has field use specifications.

Compact and lightweight design with excellent portability Flexible power supply specification from **DV 8V to 36V** 

Carrying case

### Dynamic range improvement

The realization of 120 dB (FFT based) wide dynamic range enables more accurate recording and reproduction even with dynamic signals with large fluctuations.

### Synchronization with video

Supporting synchronization with the TEAC Video NV Recorder VR-24, which makes it easy to completely synchronize video and data. Scheduled to support video synchronization using a PC.

### Multi-channel support

Support for up to 64ch in one unit. Up to 4 units (up to 256ch) can be synchronized. Also available to verify complex events.

Input / Output amplifier modules



**Pulse Input** 

Various options for more convenient use

Battery unit



**GPS Input** 

**GARMIN** GPS18x-5Hz (Option)

Pulse

Available in 4 selectable amplifier modules.

Amplifier modules can be replaced or expanded freely; which enables you to choose the configuration that suits your needs. Also, you can narrow down the configuration to the minimum necessary, share with other departments, and expand the range of utilization.

acquisition module, and amplifier for strain gauge converter.

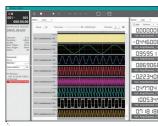
# improved media availability and increased capacity

General-purpose media adoption realizes

Highly versatile SD memory card adopted for recording media (SDXC:up to 128GB) Easy to use due to significant capacity increase compared with conventional models.

Fanless (up to 32ch configuration)

Less limited equipment arrangement. Realization of clear sound and vibration measurement without worrying about the effects of fans.





### Diversification of amplifier modules

Lineup of various amplifier modules, such as analog input amplifier for TEDS compatible voltage output sensors, analog output amplifier for input signal voltage conversion, CAN data

# CAN module

CAN

Configration

Flexibility and simplification

of the channel increases and decreases

Channel configuration of 1 amplifier: 4ch (2 ports for CAN)

Easy-to-understand structure assuming replacement. Necessary amplifier can be set instantly according to the measurement object.

> AR-LXCAN1000 Supporting the nextgeneration

Number of input ports	2
Input connector	9-pin D-sub
Supported protocol	ISO 11898-1:2015 2.0A (11-bit ID) / 2.0B (29-bit ID)
Baud rate	125 / 200 / 250 / 500 / 1000 / 1250 / 2000 / 2500 / 4000 / 5000 kbps
Recording mode	Full acquisition / Signal acquisition
Bus mode	Normal / Listen Only
ID filtering	32/port (in full acquisition)
Signal registrations	32/port (in signal acquisition)
Bus mode	Normal / Listen Only
Thinning-out mode	10/20/50/100/200/500 ms, 1/2/5 s
Termination resistance	Switchable

Isolation between ports

Up to 4 modules for CAN

Number of output channels	4
Output connector	BNC (Z=50Ω Type)
Output format	Unbalanced
Output impedance	50Ω
Output range	±1 to 5V (adjustable in 0.1V steps)
Maximum output current	10mA
Signal quantization bit depth	16/24-bit
Extended range	±127% (of rated range)
Digital-analog conversion method	$\Delta\Sigma$ conversion method
Phase difference between output channels	1 degree or less
Output range precision	±1% (5V output range)
S/N ratio	100dB or more (within

S/N ratio

Analog signal

output amplifier

AR-LXAO1000

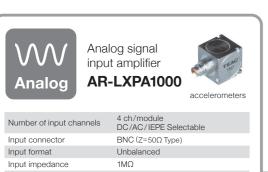
# PC control enhancement

Full control from a PC and direct recording to a PC are possible. The control app has also been updated to be easier to use and improve the convenience of using data.

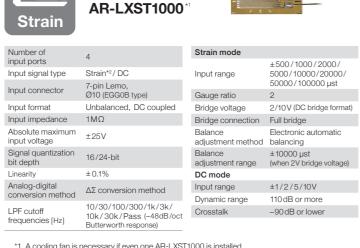


### Well-designed Interface

The remote control unit employs a jog-dial and graphical screen for easy operation.



Number of input channels	4 ch/module DC/AC/IEPE Selectable
Input connector	BNC (Z=50Ω Type)
Input format	Unbalanced
Input impedance	1ΜΩ
Input range	±0.1/0.2/0.5/1/2/5/10/50V
Analog-digital conversion method	$\Delta\Sigma$ conversion method
HPF	OFF / 5Hz (-18dB/oct Butterworth filter)
Weighting	FLAT, A, C (IEC TYPE 1 compliant)
Signal quantization bit depth	16/24-bit
Input renage precision	±2%
Dynamic range	125dB or more (24-bit, 5V input range, FFT-based)
IEPE sensor power supply	DC 24V/4mA
IEPE sensor disconnection detection	Detection function included for each channel
TEDS	Supports TEDS Ver. 1.0



\*1 A cooling fan is necessary if even one AR-LXST1000 is installed

strain input amplifier

\*2 A bridge box (sold separately) is required when measuring with a strain gauge.