AR-LXPA1000 (Analog) x 4 approx. 81W

AR-LXST1000 (Strain) x 4

External dimensions (WxHxD)

Power

consumption









64	ch	mo	dol	
UT	CII	1110	uci	

approx. 10kg

approx. 300 x 153 x 200 approx. 300 x 197 x 200mm

approx. 7.7kg

approx. 64W

approx. 103W

	32ch model	16ch model	
)mm	approx. 300 x 109 x 200mm	approx. 300 x 65 x 200mm	
	approx. 5.4kg	approx. 3.1kg	
	approx. 47W	approx. 30W	
	approx. 73W	approx. 43W	

* Not including AC adapters, media and optional boards

Specifications			
<u> </u>			
Product configuration	Main unit LX-1000	Up to 4 amplifiers can be incorporated.	
Froduct Corniguration	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 r	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		
nterface for PC	Gigabit Ethernet (1000BASE-T) x 1 port	Gigabit Ethernet (1000BASE-T) x 1 port	
Recording media	SDHC / SDXC card (8GB-128GB, CLASS	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	
2 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	
GPS input (standard equipment)	Number of input channels	1ch	
	Input connectors	DX10A-20S (50)	
	Recommended GPS module	GARMIN GPS18x-5Hz	
	Sampling frequency	8kHz	
Voice memo input and output	Quantization bit depth	8 bit	
	File format	WAV	
Operating conditions	Operating temperature/humidity range	e 0 to 40°C / 10 to 80% (no condensation)	
	Storage temperature/humidity range	-20 to 60°C / 5 to 90% (no condensation)	
	Operating air pressure range	860 - 1060hPa	
	Vibration resistance	MIL-STD-810E Figure 514.4-1, 2, 3	

Accessories ● CD-ROM Contents: Instructions for Use, LXK Navi software*, LXK Navi Operation Manual AC adapter LX-1000 only System with LX-1000 and one AU-LX1000EPIO unit System with LX-1000 and two AU-LX1000EPIO units System with LX-1000 and three AU-LX1000EPIO units AC adapter power cords same as number of AC adapters Microphone for voice memos Earphone ● Front handle (TZ-LXFH1000)

●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 16ch)
● CS-LX1032	Carrying Case (for up to 32ch)
●TZ-LXVMK series	Vehicle Mount Adapter

DC power cable



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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32ch model 16ch model 64ch model 48ch model In Pursuit of Data Recording Further challenges to recording, and evolution PA Amplifier Module ST Amplifier Module CAN Module **AO Amplifier Module**

TEAC









DATA RECORDER

LX-1000

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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



remote control unit

Pulse Input

Various options for more convenient use

Battery unit



GPS Input

GARMIN GPS18x-5Hz (Option)

Available in 4 selectable amplifier modules.

Analog signal

input amplifier

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.

Diversification of amplifier modules

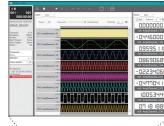
Lineup of various amplifier modules, such as analog input amplifier for TEDS compatible voltage output sensors, analog output amplifier for input signal voltage conversion, CAN data acquisition module, and amplifier for strain gauge converter.

General-purpose media adoption realizes improved media availability and increased capacity

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.





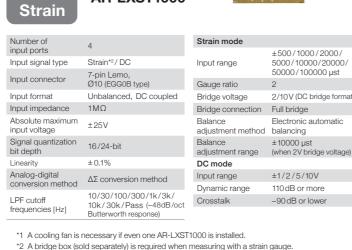
PC control enhancement

Strain

strain input amplifier AR-LXST1000°



Analog AR-	LXPA1000
	accelerometers
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



CAN input ports Input connector Supported Rus mode resistance Isolation Configration

9-pin D-sub 2.0A (11-bit ID) / 2.0B (29-bit ID) 125 / 200 / 250 / 500 / 1000 / 1250 / 2000 / 2500 / 4000 / 5000 kbps Full acquisition / Signal acquisition Normal / Listen Only 32/port (in full acquisition) Signal registrations 32/port (in signal acquisition) Normal / Listen Only 10/20/50/100/200/500 ms, 1/2/5 s Thinning-out mode Switchable Isolation between ports Up to 4 modules for CAN

Flexibility and simplification

CAN module

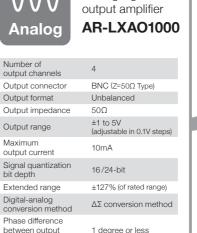
AR-LXCAN1000

Supporting the nextgeneration

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.



Output range precision ±1% (5V output range)

100dB or more (within

Analog signal

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.