Lineup *The number of channels varies depending on the amplifier configuration.

64ch model

48ch model

32ch model

16ch model

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	64 ch	
Cooling	No external cooling required (Fanless: up to 32 ch)	
Sampling frequencies	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
	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 / 1 Hz
Quantization bit depth	16 bit / 24 bit	
Interface for PC	Gigabit Ethernet 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
External dimensions	Main unit	300W x 65H x 200D mm
	Expansion unit	300W x 44H x 200D mm
Operating temperature and humidity range	0 to 40°C, 10 to 80% (no condensation)	
Storage temperature and humidity range	–20 to 60°C, 5 to 90% (no condensation)	
Synchronized operation	LX-1000 Synchronization	Up to 4 units
	VR-24 synchronization	1 unit
Pulse input (standard equipment)	Number of input channels	2ch
	Input connectors	BNC
	Threshold level	±0.5 / 1 / 2.5 / 5 / 10 / 20V
	Maximum input voltage	±50V
	Maximum input frequency	450kHz
	Input impedance	100kΩ
GPS input (standard equipment)	Number of input channels	1ch
	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
Power consumption	16ch model (AR-LXPA1000 ×4)	Approximately 30W
	32ch model (AR-LXPA1000 ×8)	Approximately 47W
	48ch model (AR-LXPA1000 ×12)	Approximately 64W
	64ch model (AR-LXPA1000 ×16)	Approximately 81W
Weight	LX-1000 (consisting of AR-LXPA1000 ×4)	Approximately 3.1kg
	AU-LX1000EPIO (consisting of AR-LXPA1000 ×4)	Approximately 2.3kg

Accessories

- CD-ROM ×1
  Contents: Owner's Manual,
  LXK Navi software*
  LXK Navi Operation Manual
- AC adapters
- AC power cords (According to the number of AC adapters)
- Microphone for voice memos ×1
- Earphone ×1

*LXK Navi: Measured data waveform display software

Options

- **ER-LXRC1000** Remote control unit

- **TZ-LXFAN1000** Cooling fan unit
- **BU-LX1000** Battery Box *Batteries are not included
- **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-LXFH1000** Front Handle
- **TZ-LXVMK series** Vehicle Mount Adapter
- **CL-DRDC** DC power cable

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TEAC

INTEGRATED LOGGER LX-1000

Further challenges to recording, and evolution. Integrated logger.




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

Compact and lightweight design
with excellent portability

Full control & data level display
Color remote controller
(option)

Flexible power supply specification from
DC 8V to 36V

Carrying case that can also store accessories is available. (option)

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.

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.

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.

Synchronization with video

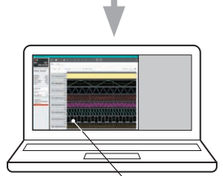
Supporting synchronization with the TEAC Video NV Recorder VR-24, which makes it easy to completely synchronize video and data. Scheduled to support video synchronization using a PC.

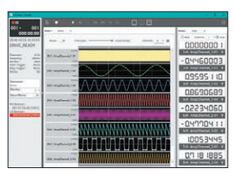
Diversification of amplifier modules

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, amplifier for strain gauge converter, thermocouple amplifier.

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.





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.

Standard equipment

Pulse

Pulse Input

2ch

GPS

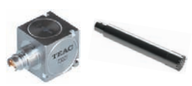
GPS Input

GARMIN
GPS18x-5Hz

Input / Output amplifier modules

Available in 5 selectable amplifier modules.
Amplifier modules can be replaced or expanded freely;
therefore, you can choose the configuration that suits your needs.
You can narrow down the configuration to the minimum necessary,
share with other departments, and expand the range of utilization.

Analog



accelerometers and microphones

Analog signal input amplifier
AR-LXPA1000

Number of input channels	4 ch/module, DC/AC/IEPE (TEDS applicable) Selectable
Input connector	BNC (Z=50Ω Type)
Input format	Unbalanced
Input impedance	1MΩ
Input range	±0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 50 V
Analog-digital conversion method	ΔΣ conversion method
Dynamic range	120dB (10V input range) FFT-based
High pass filter	OFF / 5Hz (–18dB/oct Butterworth filter)
Weighting	A curve, C curve or flat IEC-TYPE1
IEPE sensor constant current source	DC 24V / 4mA
IEPE sensor interruption detection	Each channel has IEPE sensor interruption detection

Analog

Analog signal output amplifier
AR-LXAO1000

Number of output channels	4ch
Output connector	BNC (Z=50Ω Type)
Output format	Unbalanced
Output impedance	50Ω
Output range setting	±1 to 5V (Selectable in 0.1V increments)
Over range	±127 % (+2.08dB)
Digital-analog conversion method	ΔΣ conversion method

CAN

CAN module
AR-LXCAN1000

Number of input ports	2 ports / module
Input connector	9-pin D-sub rectangular connector
Compatible protocol	ISO-11898-1 2.0A (11-bit ID) / 2.0B (29-bit ID)
Baud rate	125 / 200 / 250 / 500 / 1000 kbps
Recording mode	All frames recording / ID filtering /Data signal values
Bus modes of operation	Normal / Listen Only

Scheduled to support next-generation car network, CAN FD
(To be released this fall)

Strain

Strain input amplifier
AR-LXST1000

Number of input channels	4 ch/ module

Amplifier for strain gauge devices such as load cells

(To be released this fall)

Temp

Thermocouple input amplifier
AR-LXTC1000

Number of input channels	4 ch/ module

(To be released this fall)