External dimensions (WxHxD)

Power consumption









TEAC

| 64ch model | 64 | ch | m | od | el | |
|------------|----|----|---|----|----|--|
|------------|----|----|---|----|----|--|

| | | 64cn moaei | 48cn moaei | 32cn moaei | тосп тоает | |
|----|--------------------------|----------------------------|---------------------------|---------------------------|--------------------------|--|
| si | ons (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 | |
| | | approx. 10kg | approx. 7.7kg | approx. 5.4kg | approx. 3.1 kg | |
| | AR-LXPA1000 (Analog) x 4 | approx. 81W | approx. 64W | approx. 47W | approx. 30W | |
| | AR-LXST1000 (Strain) x 4 | approx. 133W | approx. 103W | approx. 73W | approx. 43W | |

* Not including AC adapters, media and optional boards

| 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 | AC100V – 240V (from included AC adaptor), DC 8V – 36V | |
| Maximum number of channels | Analog recording: up to 64 ch / pulse r | recording: 2 ch *A cooling fan is necessary if even one AR-LXST1000 is installed | |
| Cooling | No external cooling required (Fanless: up | p 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/1.024kH | |
| | 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 | | |
| Recording media | SDHC / SDXC card (8GB-128GB, CLASS | S 10 or more) / PC direct recordable | |
| Maximum recording rate | 3.2 Mbyte/s | 40kHz band (102.4kHz sampling) x 16-bit x 16ch | |
| Synchronized operation | LX-1000 Synchronization | Up to 4 units | |
| | 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) | |
| 1. (0.00.00.00.00.00.00.00.00.00.00.00.00.0 | Recommended GPS module | GARMIN GPS18x-5Hz | |
| | Sampling frequency | 8kHz | |
| oice memo input and output | Quantization bit depth | 8 bit | |
| | File format | WAV | |
| | 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 conditions | Operating air pressure range | 860 - 1060hPa | |
| | Vibration resistance | MIL-STD-810E Figure 514.4-1, 2, 3 | |

● 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

Options

● BU-LX1000 Battery Box ● ER-LXRC1000 Remote control unit ●TZ-LXFAN1000 Cooling fan unit NP-7LS • JL-2PLUS Battery Charger ● LXGPS18X (5Hz) ● 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



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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TEAC EUROPE GmbH.

● Front handle (TZ-LXFH1000)

Accessories

Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Tel.: +49-(0)611-7158-651 +49-(0)611-7158-392 URL: https://teac.eu e-mail: info@teac.eu

LX-1000 32ch model 16ch model 64ch model 48ch model In Pursuit of Data Recording Further challenges to recording, and evolution

DATA RECORDER



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



IEPE sensor

TEDS

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.

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.

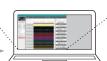
General-purpose media adoption realizes improved media availability and increased capacity

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

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.

Diversification of amplifier modules

strain input amplifier AR-LXST1000°

| | Number of input ports | 4 |
|--|----------------------------------|--|
| | Input signal type | Strain*2/DC |
| | Input connector | 7-pin Lemo, Ø10 (EGG0B type) |
| | Input format | Unbalanced, DC coupled |
| | Input impedance | 1ΜΩ |
| | Absolute maximum input voltage | ±25V |
| | Signal quantization bit depth | 16/24-bit |
| | Linearity | ±0.1% |
| | Analog-digital conversion method | $\Delta\Sigma$ conversion method |
| | LPF cutoff frequencies [Hz] | 10/30/100/300/1k/3k/ 10k/30k/Pass (-48dB/oc |

| Strain mode | |
|-----------------------------|--|
| Input range | ±500/1000/2000/ 5000/10000/20000/ 50000/100000 μst |
| Gauge ratio | 2 |
| Bridge voltage | 2/10V (DC bridge format) |
| Bridge connection | Full bridge |
| Balance adjustment method | Electronic automatic balancing |
| Balance adjustment range | ±10000 µst (when 2V bridge voltage) |
| DC mode | |
| Input range | ±1/2/5/10V |
| Dynamic range | 110 dB or more |
| Crosstalk | -90 dB or lower |
| | |

^{*1} A cooling fan is necessary if even one AR-LXST1000 is installed

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

CAN

CAN module AR-LXCAN1000

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.

Analog signal

Analog

Output connector

Output impedance

Output format

Output range

Maximum

output curren

Signal quantization

Extended range

Phase difference

between output

Digital-analog

Number of

output amplifier

BNC (Z=50Ω Type)

50Ω

16/24-bit

±127% (of rated range)

ΔΣ conversion method

100dB or more (within

1 degree or less

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

AR-LXAO1000

Supporting the nextgeneration

Flexibility and simplification

| | 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 |
| | | |

Configration Up to 4 modules for CAN

AR-LXPA1000 Analog 4 ch/module DC/AC/IEPE Selectable Number of input channels Input connector BNC (Z=50Ω Type) Input format Input impedance ±0.1/0.2/0.5/1/2/5/10/50V Input range Analog-digital $\Delta\Sigma$ conversion method conversion method OFF / 5Hz (-18dB/oct Butterworth filter) HPF FLAT, A, C (IEC TYPE 1 compliant) Weighting Signal quantization bit depth 16/24-bit Input renage precision 125dB or more Dynamic range (24-bit, 5V input range, FFT-based) IFPF sensor power supply DC 24V/4mA

included for each channe

Supports TEDS Ver. 1.0