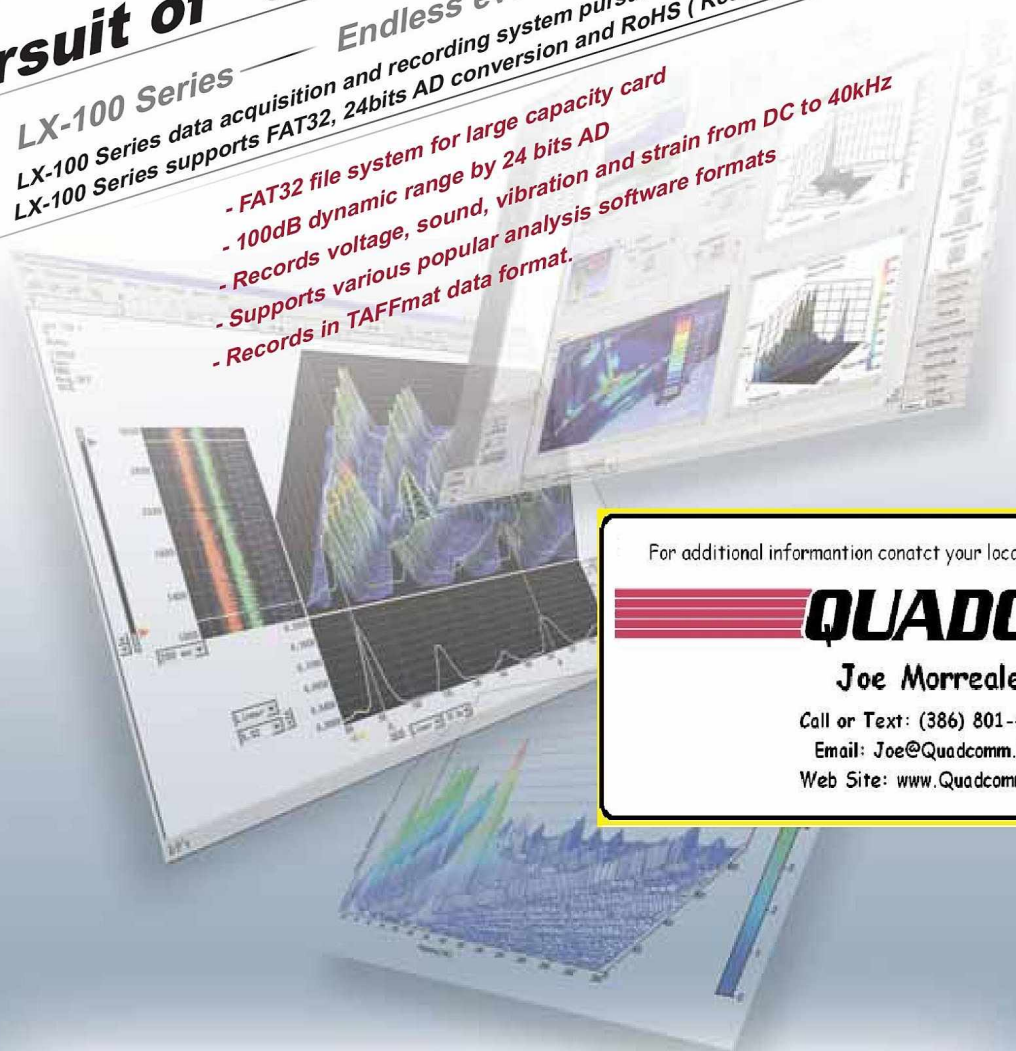




Pursuit of "Usability" and "Speed".

LX-100 Series — Endless evolution of data recording
LX-100 Series data acquisition and recording system pursues the usability and reliability in the field.
LX-100 Series supports FAT32, 24bits AD conversion and RoHS (Restriction of Hazardous Substances).

- FAT32 file system for large capacity card
- 100dB dynamic range by 24 bits AD
- Records voltage, sound, vibration and strain from DC to 40kHz
- Supports various popular analysis software formats
- Records in TAFFmat data format.



For additional information contact your local representative:



Joe Morreale

Call or Text: (386) 801-4290

Email: Joe@Quadcomm.Net

Web Site: www.Quadcomm.net



LX-100 series accepts the needs of customers.

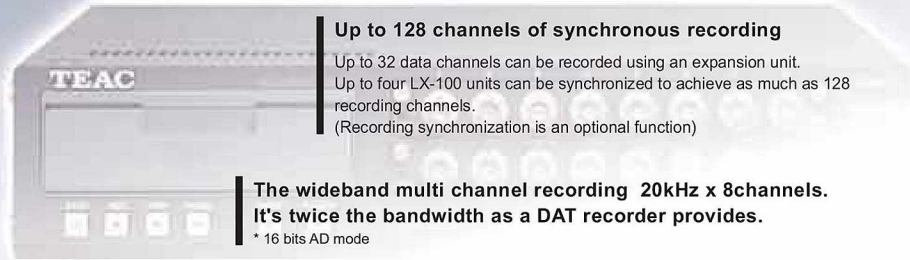
LX-100 Series data acquisition and recording system was designed for reliable use in the lab and the field, and quick data processing. Following the convenience of TEAC DAT technology, the LX-100 Series enables a wider recording bandwidth. The connectivity to a transducer and PC are enhanced to meet the customer needs and offer cost-efficient data acquisition.

- Select 1** Choice of Main Body
LX-110 / LX-120
- Select 2** Choice of Number of Channels *
8 / 16 / 32
- Select 3** Choice of Amplifier *
DC / PA / Strain / Output
- Select 4** Choice of Recording Devices *
Internal Memory / PC card
- Select 5** Choice of Interface *
Ethernet / Firewire(IEEE1394)
- Select 6** Choice of Control Unit
Remote Control Unit / PC

*Specify number of channels when you order

Records voltage, sound, vibration and strain from DC to 40kHz bandwidth

It achieves 100dB dynamic range by 24 bits AD
*PA amp 3.16V range.



Up to 128 channels of synchronous recording
Up to 32 data channels can be recorded using an expansion unit. Up to four LX-100 units can be synchronized to achieve as much as 128 recording channels. (Recording synchronization is an optional function)

The wideband multi channel recording 20kHz x 8channels.
It's twice the bandwidth as a DAT recorder provides.
* 16 bits AD mode

Up to 8GB recording
FAT32 file system for large capacity card
Up to 8GB card can be used at the moment.

Select 1 Choice of Main Body

LX-110

Standard Model

The LX-110 provides superior recording and playback performance with selectable recording media and input/output configurations.

LX-120

High Specification Model

In addition to all recording and playback features of the LX-110, LX-120 provides the selection of additional sampling rate and Tachometer pulse inputs.

Various sampling frequencies from high speed to low speed for extended time recording are available as selection.

96kHz, 102.4kHz, 65.536kHz, 100kHz and lower sampling are (from 1kHz to 1/60Hz).

LX-110 96kHz, lower sampling

LX-120 96, 102.4, 65.536, 100kHz, lower sampling

Select 4 Choice of Recording Devices

Internal Memory & PC card

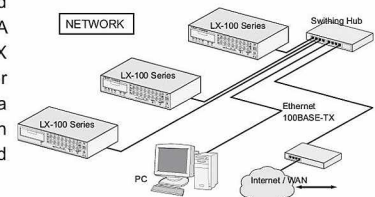
Memory - From standard 64MB to 576MB of internal memory achieving the maximum recording rate.

PC card - Supports up to 8GB PCMCIA Type II or Compact Flash enabling the recording in harsh environments.

Select 5 Choice of Interface

Ethernet / Firewire(IEEE1394)

Simultaneous recording to media and PC with a selection of interfaces. A Firewire(IEEE1394) or 100BASE-TX Ethernet interface are available for the connection to the PC. The data can be transferred to a PC in real-time and displayed, processed and stored in the PC HDD.



Select 2 Choice of Number of Channels

Up to 32 channels

8 or 16 recording channels with a main unit or 32 channels using an expansion unit.



▲ expansion unit

Select 3 Choice of Amplifier

Expandable amplifier with 8 channels per unit.

Various sensor amplifiers are available.

Three types of input amplifier cards are available :

A DC input amp card with lower sampling (from 1kHz to 1/60Hz), a selectable DC/IEPE(*) accelerometer input amp card, and a selectable DC/IEPE(*) accelerometer input amp card. The output amplifier card outputs the analog voltage during recording and plays-back the analog voltage.

* IEPE : Integrated Electronics Piezoelectric.

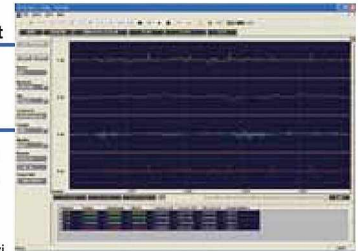
DC	DC input amplifier	[AR-LXDC100]
PA	PA input amplifier	[AR-LXPA100] With TEDS
Strain	Strain amplifier	[AR-LXST100] Common use DC input
Output	Output amplifier	[AR-LXAO100] lower sampling will be available in the near future.

Select 6 Choice of Control Unit

Remote Control Unit or PC

Through a remote control unit (stand-alone) or PC (LX Navi software), the LX-100 Series can be fully controlled.

LX Navi



An example Amplifier board & number of channels

DC Input Type	PA Input Type	Strain Input Type
8ch Input/Output	8ch Input/Output	8ch Input/Output
16ch Input	16ch Input	16ch Input
16ch Input/Output	16ch Input/Output	16ch Input/Output
32ch Input	32ch Input	32ch Input

The analog monitor output is available during recording.
Time base conversion is possible in playback.

Acquired data also can be transmitted to the PC while media recording.

Recording format is TAFFmat, which is supported by many popular analysis software applications.

Through a remote control unit (stand-alone) or PC (LX Navi software), the LX-100 Series can be fully controlled

Full color remote control unit ER-LXRC100



Recording Devices
Choice of Memory and Memory + PC card drive

◀ CF card & Adapter

Trigger recording
Voice Memo recording

A voice memo can be recorded, which simplifies the future data searches. Trigger recording offers the pre-trigger, level-trigger, the repeat and interval recording.

DC power supply and AC adapter
OPTION : Battery Unit

OPTION :
Wave data display software
LX View (PL-S1001)

Frequency Bandwidth vs. Recording Time

Internal memory recording An example) Nom. of 8 Channels , 576MB Memory

Frequency Bandwidth (Sampling Frequencies)	Recording Time	
	16bit	24bit
DC to 40 kHz (96 kHz)	Approx 6 minute	-
DC to 20 kHz (48 kHz)	Approx 12 minute	Approx 6 minute
DC to 10 kHz (24 kHz)	Approx 24 minute	Approx 12 minute
DC to 5 kHz (12 kHz)	Approx 48 minute	Approx 24 minute
DC to 2.5 kHz (6 kHz)	Approx 1 h 36 min	Approx 48 minute
DC to 1.25 kHz (3 kHz)	Approx 3 h 12 min	Approx 1 h 36 min
DC to 675 Hz (1.5 kHz)	Approx 6 h 24 min	Approx 3 h 12 min
DC to 400 Hz (1 kHz)	Approx 9 h 36 min	Approx 4 h 48 min
DC to 80 Hz (200 Hz)	Approx 48 hour	Approx 24 hour

Note : Recording rate is approx 1.6MB/sec (DC to 40 kHz bandwidth x 8ch)

PC card recording An example) Nom. of 8 Channels , 4GB PC card

Frequency Bandwidth (Sampling Frequencies)	Recording Time	
	16bit	24bit
DC to 20 kHz (48 kHz)	Approx 1 h 20 min	-
DC to 10 kHz (24 kHz)	Approx 2 h 40 min	Approx 1 h 20 min
DC to 5 kHz (12 kHz)	Approx 5 h 20 min	Approx 2 h 40 min
DC to 2.5 kHz (6 kHz)	Approx 10 h 40 min	Approx 5 h 20 min
DC to 1.25 kHz (3 kHz)	Approx 21 h 20 min	Approx 10 h 40 min
DC to 675 Hz (1.5 kHz)	Approx 42 h 40 min	Approx 21 h 20 min
DC to 400 Hz (1 kHz)	Approx 84 hour	Approx 32 hour
DC to 80 Hz (200 Hz)	Approx 320 hour	Approx 160 hour

Note : Recording rate is approx 0.8MB/sec (DC to 20 kHz bandwidth x 8ch)

Synchronous video and data recording

AQ-VU is a visual data recorder with which 4-channels of video and analog signals can be synchronously recorded and played back.

By synchronizing LX-100 series data recorder with AQ-VU, a variety of data measurements are possible.



Visual data recorder AQ-VU

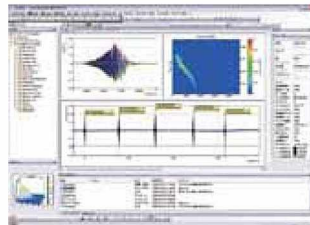
Connecting to Data Analysis Software

OPTION

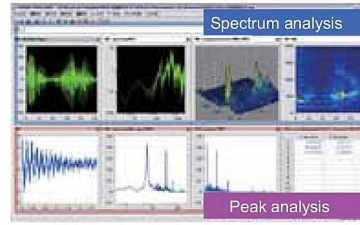
The recording format is TAFFmat which is compatible with Windows file system and it is commonly used by TEAC Digital Data Recorders. The TAFFmat data file can be read by LX View software and by many other popular analytical software applications.

A real-time front-end software (Windows DLL) is also available for a system integrator for direct control of LX Series recorders. Contact TEAC for detail.

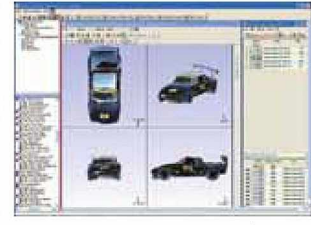
General analysis software



FlexPro7 Win Professional



DADISP/2002



ME'scope Visual Engineering Series
Used only in 16 bits mode

Options

Remote Control Unit (ER-LXRC100)

Display : Color LCD 320×240 pixels

Functions :

- Bar meter display
- Main-unit control (setting recording reproducing)
- Microphone input

External Dimension (W x H x D) :

Approx 170 x 30 x 100 mm (excluding protruding Parts)

Weight : Approx 0.65 kg

(excluding cables)

Battery Unit (BU-81)

Internal Battery Pack : HP-30L from Paco Electronics Industry Inc.

Num. of Internal Battery Packs : 3 (battery packs described below)

External Dimension (W x H x D) :

Approx 300 x 27.5 x 200 mm
11 13/16" x 1 1/16" x 7 7/8" (excluding protruding Parts)

Weight : Approx 1.5 kg/3 lb (excluding the battery pack and mounting brackets)

Battery Pack (HP-30L)

(Paco Electronics Industry Inc.)

Supply voltage :13.2V

Capacity : 3.3 Ah

Weight : Approx 700 g /1.5lb

Size : NP1type

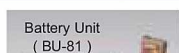
Battery charger for Battery Pack

(KH-2S from Paco Electronics Industry Inc.)

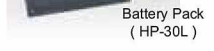
Power Supply : 100V AC

(200V AC Automatic reshuffling)

Slot for Battery Pack : 4



Battery Unit (BU-81)



Battery Pack (HP-30L)

Vehicle Mount Adapter



I/O Type	Input			Input and Output			Input			Input and Output		
	8ch	16ch	32ch	8ch	16ch	32ch	8ch	16ch	32ch	8ch	16ch	32ch
Channels	LX-110	3.67/9	3.9/8.6	6.1/13.4	3.9/8.6	6.1/13.4	3.67/9	3.9/8.6	6.1/13.4	3.67/9	3.9/8.6	6.1/13.4
Weight Approx (kg/lb)	LX-120	3.7/8.1	4/8.8	6.2/13.6	4/8.8	6.2/13.6	3.7/8.1	4/8.8	6.2/13.6	3.7/8.1	4/8.8	6.2/13.6
Power Consumption(W)	LX-110	30	36	48	36	48	35	46	66	46	66	86
	LX-120	36	42	56	42	56	41	52	76	52	76	92

Sampling Frequencies	96 / 48 / 24 / 12 / 6 / 3 / 1.5 kHz (Common to each Channel)		
	Low speed sampling	Cutoff Frequency	Attenuation
LX-110	1kHz	400Hz	-80dB (at 500Hz)
LX-120	500Hz	200Hz	-80dB (at 250Hz)
	200Hz	80Hz	-80dB (at 100Hz)
	100Hz	40Hz	-80dB (at 50Hz)
	50Hz	20Hz	-80dB (at 25Hz)
	20Hz	8Hz	-80dB (at 10Hz)
	10/5/2/1Hz	4Hz	-80dB (at 5Hz)
	2/5/10/30/60s (cycle)	4Hz	-80dB (at 5Hz)

(Aliasing may occur at and under 5Hz sampling)

Sampling Frequencies	102.4 / 51.2 / 25.6 / 12.8 / 6.4 / 3.2 / 1.6 kHz		
LX-120 only	65.536 / 32.768 / 16.384 / 8.192 / 4.096 / 2.048 / 1.024 kHz		
	100 / 50 / 20 / 10 / 5 / 2 / 1 kHz (Common to each Channel)		

Tachometer Pulse Input
 LX-120 only
 Num. of Input Channels : 12 x 16 bit Channels, 2 x 32 bit Channels (Highest sampling frequency settings support the moving average only at one(1)(Cannot be used simultaneously with generator output)
 Use the lowest 1bit for tachometer pulse timing bit.
 Input Format : Threshold level selections +0.5/1/2.5/10/20 V (Max allowable input voltage is 50V)
 Input Connector : BNC
 Frequency Division Ratio Setting : 1 to 255
 Moving Average Measurement : 1 to 16
 Measurement Mode : Pulse count mode(Count of number of pulses within the gate time; Count of the total number from start to stop), Cycle count mode, Frequency measurement mode, RPM mode

Generator Output
 LX-120 only
 (Cannot be used simultaneously with tachometer pulse input)
 Num. of Output Channels : 1
 Output signal : Sine wave, Sweep Sine wave, Pulse, Pink noise, White noise

Input Channel change	2 / 4 / 8 / 16 / 24 / 32 ch
Recording Devices	Choice of Memory only , Memory + PC card drive * PC card is Flash memory , supports up to 8GB capacity (FAT16 or FAT32)
Interface	Choice of 10BASE-T/100BASE-TX or Firewire (IEEE1394) (Specify one when you order)
Front Panel Control Keys	REC, FWD, REC FWD, STOP, PAUSE, EVENT, P.LOCK
Monitor Channel	1 (analog output) , BNC
Monitor output level	+/-1 to 5 V (0.1 V step)
Microphone Jack	1
Speaker and Earphone Jack	1 each
MAX. Recording Rate	Memory Approx. 1.6 MB/s, PC card Approx.0.8 MB/s
PC Throughput	Firewire (IEEE1394) Approx. 1.6 MB/s, Ethernet Approx. 0.8 MB/s
Time Precision	+/-1 ppm (25 deg C)
Temperature and Humidity	0 to 45deg C, Humidity 20 to 85%RH (Operation)
Internal Clock Correction	+/- 30 seconds adjustment
Power Supply	11 to 30 V DC
Safety Standards	CE, VCCI
Vibration	Conforms to MIL-STD-810 Figure 514.4-1.2.3 for the models with memory only memory + PC card drive
External Dimension (WxHxD) (Excluding protruding parts)	Approx 300 x 65 x 200 mm Approx 11 13/16" x 2 9/16" x 7 7/8"

Input Format	Unbalanced			Balanced and Unbalanced			Balanced and Unbalanced			
	Input Coupling	DC	Balanced DC, Balanced AC, Unbalanced DC	DC mode	ST mode	DC mode	ST mode	DC mode	ST mode	
Input Coupling	DC	Balanced DC, Balanced AC, Unbalanced DC	DC mode	ST mode	DC mode	ST mode	DC mode	ST mode	DC mode	
Input Impedance	1 M ohm	1 M ohm	1 M ohm	1 M ohm	1 M ohm	1 M ohm	1 M ohm	1 M ohm	1 M ohm	
Input Range (over-range to +/-127%)	+/- 0.5/1/2/5/10/20/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	+/- 0.01/0.0316/0.10/3.16/13.16/10/50 V	
Absolute Max. Input Voltage	+/- 100 V	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	+/- 50 V, but +/-100 V in the +/-50V range	
Weighting	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	FLAT/A/C	
HPF	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	OFF/10/20 Hz	
Supply voltage for a sensor	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	28V DC/4mA	
Anti aliasing filter	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	Joint use of both a digital filter(*) and an analog filter(2nd Order Butterworth)	
LPF	---	---	---	---	---	---	---	---	---	
Frequency Bandwidths	DC to the sampling frequency (listed above)/2.4 +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	DC Coupling : DC to the sampling frequency (listed above)/2.4, AC Coupling : 1Hz to the sampling frequency (listed above)/2.4, +/-0.5 dB	
Num. of Quantizing Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	16bits/24Bits	
Conversion Method	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	
Linearity	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	
Distortion Factor	Sampling Frequencies Measurement Frequency Distortion factor 96kHz 20kHz +/-0.1% or less 48kHz 10kHz +/-0.07% or less 24kHz or less fs / 4.8 +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less	Sampling Frequencies Input Range Distortion factor 48k, 96kHz 0.316V or over +/-0.1% or less 0.1V or less +/-0.2% or less All +/-0.4% or less
Range Accuracy	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	
Signal to Noise ratio (16bits/24bits) (25 deg C)	Input Range band (dB) Other of 20V 84 / 96 (in band) 20V 84 / 94 (in band)	Input Range band (dB) 20kHz 64 / 67 60 / 63 40kHz 74 / 77 69 / 72 0.1V 83 / 86 77 / 80 0.316 / 1 V 87 / 93 77 / 80 3.16 / 10 / 50 V 87 / 98 77 / 80	Input Range band (dB) 20kHz 64 / 67 60 / 63 40kHz 74 / 77 69 / 72 0.1V 83 / 86 77 / 80 0.316 / 1 V 87 / 93 77 / 80 3.16 / 10 / 50 V 87 / 98 77 / 80	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	Input Range band (dB) 1kHz 67 62 58 3kHz 73 68 64 10kHz 75 74 71 20kHz 75 75 75 40kHz 87/93 77/83	
SIN is a difference of noise level for 100% of each input range. Dynamic range is the greatest input level and a difference of noise level of each input. Dynamic range = SIN +20dB. The overall accuracy specified here is the accuracy of the analog output when using an input amp and an analog output amp, and may differ depending on the frequency characteristics and the input range of the input amp.										
Crosstalk	Input Range band (dB) All -82 / -88 (in band) -80 / -86 (in band)	Input Range band (dB) 20kHz -64 -60 40kHz -73 -69 0.1V -78 -74 0.316 / 1 / 3.16 / 10 / 50 V -78 -74	Input Range band (dB) 20kHz -64 -60 40kHz -73 -69 0.1V -78 -74 0.316 / 1 / 3.16 / 10 / 50 V -78 -74	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	Input Range band (dB) 1kHz -67 -62 -58 3kHz -73 -68 -64 10kHz -75 -74 -71 20kHz -75 -75 -75 40kHz -87/93 77/83	
Inter-channel phase difference	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 400 kHz or less)	
TEDS sensor	---	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	Possible (V 0.9)	
Input Connector Type	BNC	BNC	BNC	BNC	BNC	BNC	BNC	BNC	BNC	
Output Format	Unbalanced	Unbalanced	Unbalanced	Unbalanced	Unbalanced	Unbalanced	Unbalanced	Unbalanced	Unbalanced	
Output Coupling	DC	DC	DC	DC	DC	DC	DC	DC	DC	
Output Impedance	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	
Output Range	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	+/-1 to 5 V , 0.1 V Step	
Smoothing Filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	Combination of Analog filter + Digital filter	
Frequency Bandwidths	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	DC to the sampling frequency(listed above)/2.4 +/-0.5dB	
Num. of Quantizing Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	16 / 24 Bits	
D/A Conversion Method	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	128 times over sampling delta sigma method : however 64 times over sampling at 40kHz	
Linearity	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	
Distortion Factor	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	+/-0.2 % or less	
Range Accuracy	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	+/-0.1 % or less	
Signal to Noise ratio (16bits/24bits)(25 deg C)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	87 / 93 dB (in band) (1V input)	
Crosstalk	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	-78 dB (At 20 kHz or less) -75 dB (At 40 kHz or less)	
Inter-channel phase difference	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	1 deg or less (At 20 kHz or less) , 3 deg or less (At 40 kHz or less)	
Output Connector Type	BNC	BNC	BNC	BNC	BNC	BNC	BNC	BNC	BNC	

- * Specify one when you order
- Main Body * LX-110 / LX-120
- Number of Channels * 8 / 16 / 32
- Amplifier * DC / PA / Strain / Output
- Recording Devices * Internal Memory / PC card
- Interface * Ethernet / Firewire(IEEE1394)
- Remote Control Unit / PC
- Accessories
 - DC Cable
 - AC Adapter
 - LX Navi software

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