

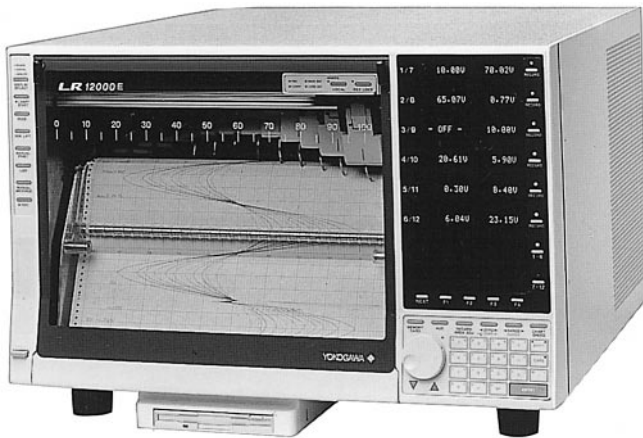
## LR SERIES RECORDERS

LR12000E/LR8100E/LR4100E/LR4200E

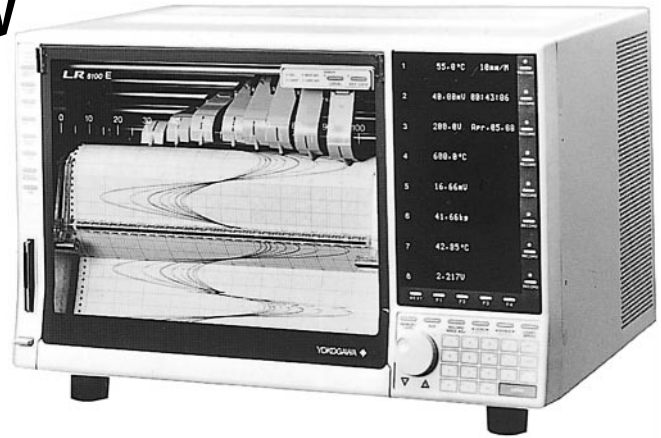
YOKOGAWA

3702/3701/3711 & 3712/3721 & 3722  
Recorders  
LR12000E/LR8100E/LR4100E/LR4200E

NEW



NEW



**LR12000E**  
438 × 273 × 434 mm 20.5 kg  
(17-1/4 × 10-3/4 × 17-1/8" 45.2 lbs)

\* The specifications for LR series recorders changes according to the type of power cord. Only the recorders having specification codes for power cords -D, -F, -G, or -J, which relate to the power cord attached, conform to EMC and safety standards; recorders with a -B specification code (with a JIS power cord attached) do not.



**LR8100E**  
438 × 273 × 310 mm 18.5 kg  
(17-1/4 × 10-3/4 × 12-1/4" 40.8 lbs)



Safety Standards; EN61010-1  
EMI Standard; EN55011 Group 1 Class A  
Immunity Standard; EN50082-2 : 1995



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The best-selling LR Recorder Series has revolutionized the pen recorder world with its outstanding reliability and performance. How was it done? Electrical contacts and gears were eliminated in the recording mechanism. Data processing was digitized. A full range of models of up to 12 pens was developed. A memory function to facilitate PC-based data recording and analysis was created. And a whole range of application software was written. In today's PC-driven world, only the LR recorder truly delivers the required functionality.

## FEATURES

- **Crisp color analog recording in up to 12 colors**
- **As simple to use as an analog pen recorder**  
The LR series offers easy dialog-based operation on a large vacuum-tube fluorescent display and multiple display functions.
- **Wealth of digital printing and analog recording functions**  
Packed with a wealth of digital printing functions, including zone recording, partial compression and enlargement recording, a rapid pen response of 1600 mm/s and a phase synchronization function, the LR series captures the target event faithfully, records it, and makes playback a cinch.
- **Multiple measurement type**  
The LR series offers DC voltage, thermocouple, and RTD universal inputs, computation functions, IC memory card, a 3.5-inch FDD, and application software to cover every type of measurement.
- **3.5-inch floppy disk drive (option)**
- **Windows 95 (32-bit) application software**  
YOKOGAWA's genuine software lets you set the measurement range and recording conditions, control the motion of the pen such as pen up/down, and even record and analyze the data on a PC.

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## SELECTION GUIDE

Models	LR12000E	LR8100E	LR4100E	LR4200E
	LR4110	LR4120	LR4210	LR4220
Form	Vertical			Flatbed
Recording width	250 mm			
No. of pens	10, 12	4, 6, 8	1, 2, 3, 4	
Input ranges	Voltage (20 ranges): 0.1 mV to 200 V Thermocouple (12 types) R, S, B, K, E, J, N, T, W, L [DIN], U [DIN], KPsAu7Fe RTD (5 types): Pt100, JPt100, Pt50, Ni100, J263*B			
Printing functions	Periodic print, manual print, change of range print, message print, change of chart speed print, pen offset compensation ON/OFF print, alarm print, scale marking print, and program list print. *Printing functions not provided in LR4120 and LR4220.			
Display	Digital values, Bar graph (2.5% resolution), Range Switches between display of the first-half 6 pens and the second-half 6 pens. *1	All channels, simultaneous easy-to-read fluorescent screen		
Math	Standard: Scaling function, difference computation Optional *2: Arithmetic operations, exponentials, logarithms, absolute value, square root			
IC memory card*3	8, 256, 512 KB, or 1 MB (8 KB card provided as standard)			
FDD *3 (option)	Built-in FDD with 768 KB RAM	Built-in FDD with 512 KB RAM	Built-in FDD with 256 KB RAM	—
PC software	Can be used with all models for 4, 8, 12-pen applications			
Chart speed	10 to 600 mm/min 10 to 600 mm/hour	10 mm/hour to 1,200 mm/min		
Chart length	Z-fold: 30 m		Z-fold: 20 m	Z-fold: 20 m; Roll: 20 m
Power	Allowable voltage: 90 to 132 V AC / 180 to 250 V AC (automatic switching) 48 to 63 Hz Rated voltage: 100 to 120 V AC / 200 to 240 V AC 50/60 Hz +10 to +32 V DC (optional)			

\*1 Digital measurement data can be displayed for all channels simultaneously.

\*2 These optional functions cannot be specified for the LR12000E.

\*3 IC memory card function is not available for suffix code /FDD.