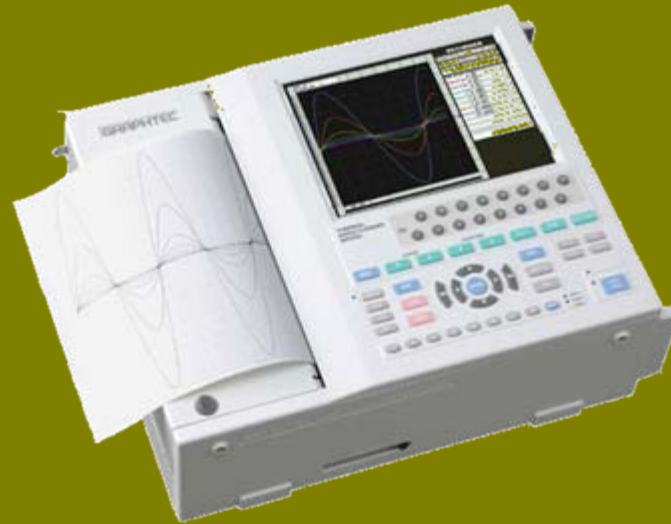


**New Product**

# Thermal Arraycorder **WR300 Series**

Sales Manual



# Highest peak of Analog recoding and Digital capturing Thermal Arraycorder WR310

## Long-term recording and Large capacity

100mm/s chart speed, 200 mm width printer and 40 GB hard disk drive



## Multi-function input amplifiers

Voltage, Temperature, Strain, Frequency, Logic



## Easy PC connectivity

USB, LAN, PCMCIA interfaces



## Easy operation

Pen oscillograph-like key operation





WR310-8 / 16



# Large capacity HDD

High speed / Long-term data capture



	Graphtec WR310 series	
		
Number of channel	8	16
Maximum sampling speed	1 micro second	1 micro second
Internal memory (W/ch)	1MW	1MW
Hard disk drive	○ 40 GB	○ 40 GB
Direct data save	1 $\mu$ s 40 GB HDD	2 $\mu$ s 40 GB HDD

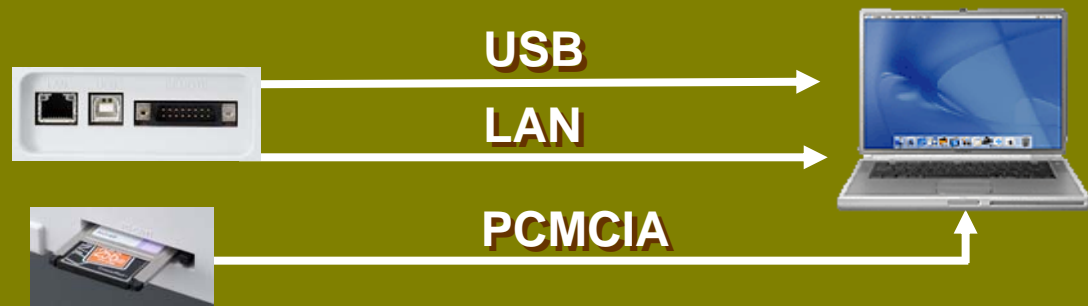
Only Graphtec : with built-in the hard disk.  
It is possible to measure it continuously for about one week  
with 5ms sampling 8ch.

Moreover,  
These about 20 files  
can be stored

One data capture operation is up to 2 GB

# Easy PC Connectivity

			
Number of channel		8	16
Interface	USB	○	○
	LAN	○	○
	PCMCIA	○	○



# Large-format Thermal Printer

Wide recording

200 mm



Memo area

Convenient chart annotation area



Easy install  
Recording paper



40 m length roll paper



40 m length Z-fold paper



100 m long-length Z-fold paper

Apply long-term measurement



Recording paper

Possible to write  
WR300

# Easy Operation

Easy operation like pen recorder

Easy measuring by 4 steps

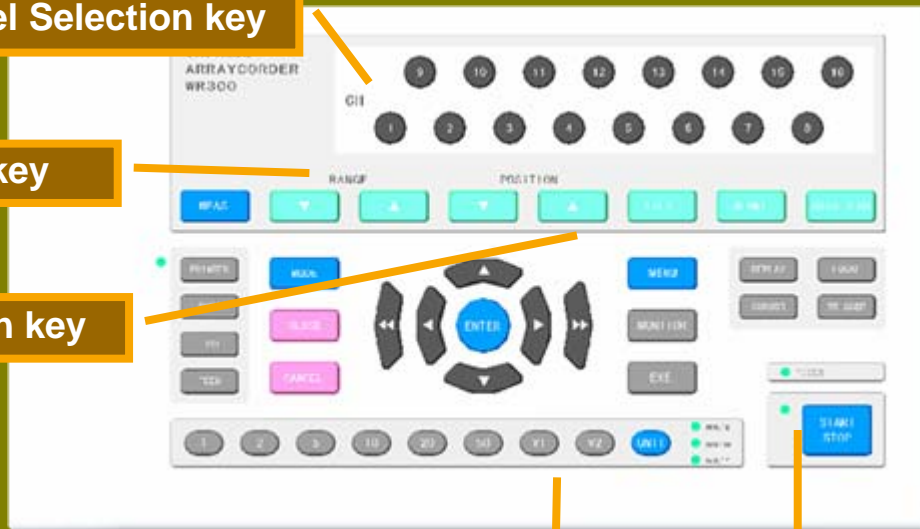
(1) Channel Selection key

(2) Range key

(3) Position key

(4) Chart paper feed speed setting key  
(Max. chart paper feed speed 50 mm/s)

(5) Start/Stop key



(1) Select channel

(2) Setting range

(3) Setting position

(4) Setting chart feed speed

Push <Start> key start measures

# Multi Function

## Measuring through isolated multi function

Voltage



Voltage amp

Thermocouple



Voltage / Temperature amp

Temperature

Strain



Strain amp

Frequency



Frequency amp



Logic amplifier  
standard equipment

The measurement matched to the usage with the plug-in amplifiers is possible. Safe measurement it with the isolated amplifiers.

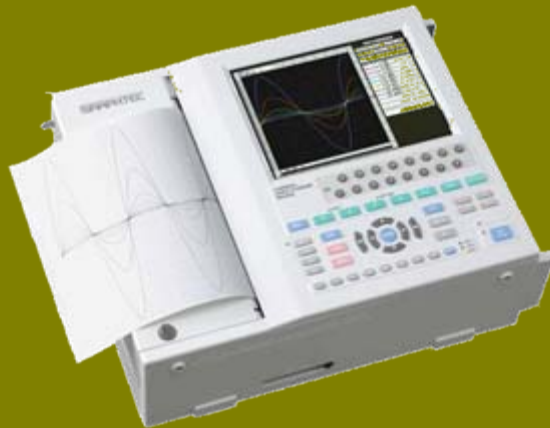
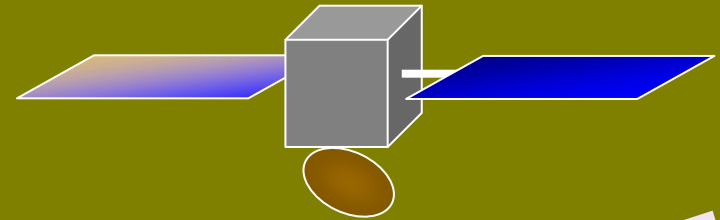
# Other convenient functions

**IRIG signal data capture**

Can be accurately understand the measurement time.

The time code of IRIG can be input.  
[Standard of IRIG]

- > IRIG-B
- > IRIG-E



IRIG signal data



IRIG signal input interface



# Emphasis data capturing




## Transportation machine

Various characteristic tests such as engine, brakes. Examination of railroad vehicle and transformation of electrical energy equipment. Operation monitor of breaker and signal. Car running test, collision test. Electric circuit maintenance. Operation evaluation of vehicle sensor.

## General machine

Oil pressure and tension load measurement of machine for agriculture and construction. Temperature, pressure, and sequence control such as injection molding machines. Quality control of arc welding etc.. Temperature management of machine tool. Inrush current of motor. Maintenance of electronic telecommunications equipment. Maintenance and check of pump.

### Feature

- Direct recording  High speed data capturing data to large capacity HDD
- Direct operation  Easy operation with direct key
- Easy PC connectivity  Easy PC connection by USB · LAN

# Emphasis recording

## Medical treatment

Electrocardiogram , brain wave, and electromyographic measuring

## Steel

Ultrasonic flaw detection data, management, accident monitor of power supply line and switchboard signal, outbreak phenomenon recorders of control system, and operation checks of PLC (Programmable Logic Controller).

### Feature

Direct recording  Chart paper width

4 ch 100 mm

8 ch / 16 ch 200 mm

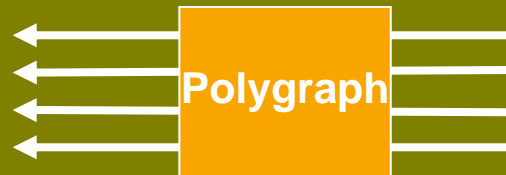
Max. chart paper feed speed 100 mm/s

Direct operation  Easy operation with direct key

Remote  External remote operation



Nerve waves output



# Main Specification

## Main unit

Item	Description				
Models	WR300-4	WR300-8 Base model	WR310-8 Full function model	WR300-16 Base model	WR310-16 Full function model
Number of Amplifier slot	2	4		8	
Number of logic channel	4	8		16	
Maximum sampling speed	1 micro second (V amp)				
Memory capacity	1 MW / ch				
Display screen	8.4" TFT color display				
Interface	USB / LAN / PCMCIA				
Other	/	/	HDD · I R I G	/	HDD · I R I G
Printer (Chart speed: Max. 50 mm/s)	width 100 mm thermal paper	Width 200 mm thermal paper			
Power rating	100 to 240 V AC, 12 V DC input (Adhering DC model only)				
External dimensions	Approx. 360 x 296 x 125 mm				

## Plug-in amplifier units

Item	Description	
Plug-in amplifier	V amp	50 mV - 200V / f.S, 1MS / s, 12 bit
	Temperature	20 mV - 500V / f.S, K/J/T/R/E/B, 100 KS/s, 16 bit
	Strain	1,000 - 20,000 x 10 <sup>-6</sup> / f.S, 100 KS/s, 16 bit
	Frequency	200 Hz - 40 KHz / f.S, 250 KS/s, 12 bit
Number of channel	2ch / unit	
Input method	No each channel independent balanced input	