

# Measuring Instruments for RAIL WAY

# UHA series

## Vibration Recorder for the railway vehicles

### UHA-2, UHA-3

UHA can measure the vibrations on the railed vehicles to evaluate the rail road track conditions and to maintain the railed vehicles. Vibration data is recorded real-time, processing to a PC card and can be printed it out. Also, data is analyzed via specialized PC software .



### Features

- Acceleration data is measured by strain gage pick-up at 12 bit resolution.
- Digital vibration data is recorded to the printed form as analogue data real-time.
- Data over the threshold is shown via LCD on the device.  
Those data can be transferred to PC by USB cable or printed out.
- Optional markings, kilometer-point and speed, is printed on the paper every 100m or 1km.  
It can also be typed by the remote-switch.
- All measurement conditions setup like start-stop is operated by its keyboard.
- Data of each time or distance is recorded to PC card.  
Data viewing and analysis is performed by analysis software.

### Specification

Model	UHA-2	UHA-3			
Measurement Direction	2 axis (vertical/horizontal)	3 axis (up / down, right / left, front / rear)			
Printer	sensible heat recording by thermal head				
Measurement Acceleration	Select by key operation				
	Acceleration range (G)	0.25	0.4	0.5	1.0
	Record speed (mm/s)	100	70	40	20
Printed Form Speed (mm/s)	5 / 10 / 20 selectable				
Data	kilometer point threshold of over-data, vibration value, speed				
Filter (Hz)	low-pass fo = 10, high-pass fo = 0.3				
Printed Paper	scaled roll paper W112mm × L40m				
Keyboard	number and operation key (total 20 keys)				
LCD	240×128dot with back light				
Communication interface	USB				
Input Signal	tachometer generator (1 to 999 pulses / 1 rotation), remote-switch				
Power	internal battery and AC adapter				
Size (mm)	W240 × D300 × H130				
Weight (kg)	about 3.0				
PC card	64MB compact flash				
Memory unit	distance mode (0.25m) / time mode (5ms)				
Memory Volume	distance mode (999km) / time mode (about 5.5hours)				
Battery Charge	Chargeable with AC adapter (only when main unit power supply is off)				



## SHINYEI TESTING MACHINERY CO., LTD.

Head Office B47-11, Katoridai, Tsukuba, Ibaraki, 300-2657, JAPAN

Tel: +81-29-848-3571 FAX: +81-29-848-3572

International Sales Office

Shinyei BLDG. 5F, 77-1 Kyomachi, Chuo-ku, Kobe 651-0178, JAPAN

Tel: +81-78-392-6903 FAX: +81-78-332-1619