

*Portable high-bandwidth Data Recorder with extended recording time.  
Selectable 16/24-bit resolution for optimal dynamic range.  
Multiple channel configurations to address a wide range of applications.*



**WX-7016**

The WX-7000 Series, a new Portable Instrumentation Data Recorder family of products, are designed to provide multi-channel high-bandwidth data recording solutions for testing and monitoring requirements in aerospace, defense, power generation, underwater research, rail transportation, automotive, heavy machinery, and acoustics/vibration-based industrial applications.

*Base model is WX-7016; 32, 64 and 128 channel models are available.*



*16ch model* WX-7016



*32ch model* WX-7032



*64ch model* WX-7064



*128ch model* WX-7128

**Preliminary**

## Feature

- DC to 80 KHz bandwidth per channel with up to 16-channels of DC-IEPE(ICP®) input and analog output with 16-bit resolution or 8 channels at 24-bit resolution
- Standard configuration with RDX®\* drive slot and SD card slot
- Up to 128 channels configuration is available by using expansion units (16-channels I/O each)
- Synchronous recording of 2 units (provides up to 256 channels of analog input/output )
- Front panel control for portable stand-alone operation and Gigabit-Ethernet interface for remote control, front-end recording, and data transfer via PC
- Remote PC control/front-end recording application software provided as standard accessory

\* RDX is a rugged high reliability hard-disc based storage system with removable cartridges, with a high data capacity.

## Specifications

Number of Channels Input/Output	16-ch (Main unit) 32-ch, 64-ch, 128-ch; by adding 16-channel Expansion units	
Frequency Bandwidth	24bit mode	8-ch: DC-80kHz (fs 192kHz); 16-ch: DC-40kHz (fs 96kHz) 32-ch: DC-20kHz (fs 48kHz) per channel
	16bit mode	16-ch: DC-80kHz (fs 192kHz); 32-ch: DC-40kHz (fs 96kHz) 64-ch: DC-20kHz (fs 48kHz) per channel
Input	DC, AC, ICP® (TEDS Supported)	
Input Range	±0.1, 0.2, 0.5, 1, 2, 5, 10, 20V	
Output Range	±1 to 5V (selectable in 0.1 V steps,)	
Range Accuracy	Less than ±2 %	
Crosstalk	Less than -80 dB	
Inter-channel Phase Difference	Less than 1 degree @ 20kHz Bandwidth	
Resolution	Selectable 16-bit/24-bit, utilizing Delta-Sigma ADCs with digital and analog anti-aliasing filters (2nd-order Butterworth)	
Dynamic Range	100 dB @ 24 bit mode, 89 dB @ 16 bit mode	
Front Panel Display	3.5" TFT LCD with Bar Meters	
Recording Media	SDHC flash-memory card RDX Hard-Drive (SSD type also available)	
Media Capacity	SD	up to 32GB (5 hrs. 16-ch, 20kHz BW @ 16 bit mode)
	RDX	up to 1TB ( 38 hrs. 64-ch, 20kHz BW @ 16 bit mode)
Digital Input	(Optional)	CAN, GPS (NMEA)
Time code	(Optional)	IRIG-B
Interface	LAN (Gigabit-Ethernet)	
Synchronization	2 units synchronized operation available (Max 128ch x 2 =256ch)	
Data File Format	TAFFmat (TEAC Data Acquisition File Format)	
Safety Standard	Safety: UL , NRTL/C , CE EMI: FCC Part 15, Class A	
Shock and Vibration Conformance	MIL-STD-810E 514.4-1.2.3	
Temperature and Humidity	32 to 104 deg F (0 to 40 deg C), 10 to 85 % RH	
Dimension (W,H,D) Weight (lb)	WX-7016	W13.4 x H 4.8 x D8.7 (inch) , W340 x H123 x D220 (mm), 16.3 lb
	WX-7032	W13.4 x H 6.4 x D8.7 (inch) , W340 x H164 x D220 (mm), 22.9 lb
	WX-7064	W13.4 x H 9.6 x D8.7 (inch) , W340 x H245 x D220 (mm), 37.7 lb
	WX-7128	W13.4 x H16.2 x D8.7 (inch) , W340 x H412 x D220 (mm), 66.5 lb
Power (Power Consumption)	DC: 11 to 30V, AC Adapter 100V to 240V (WX-7016: 53W, WX-7032: 90W, WX-7064: 166W, WX-7128: 317W )	

## TEAC CORPORATION

1-47 Ochiai, Tama-shi, Tokyo 206-8530, JAPAN  
Phone +81 42 356 9154 | Fax +81 42 356 9184

<http://datarecorder.jp/>