

TEAC®

Portable Wide-Band Data Recorder **WX-7000 Series**

<http://www.teac.com/>

NEW

*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

Portable Wide-Band Data Recorder

WX-7000 Series

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)	WX-7016	W13.4 x H 4.8 x D8.7 (inch) , W340 x H123 x D220 (mm), 16.3 lb
Weight (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)

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 Precaution : To ensure safe handling and operation, read the Instruction Manual before use.