| | WX-9016 | WX-9032 | WX-9064 | WX-9096 | WX-9128 |
|---|---|---|---|---|---|
| Size (W x H x D) [mm] | 348 x 123 x 220 | 348 x 164 x 220 | 348 x 246 x 220 | 348 x 328 x 220 | 368 x 469 x 318 |
| Weight [kg] | 5.7 | 8.3 | 13.4 | 18.5 | 26.4 |
| Power consumption [W] | 50 | 83 | 149 | 215 | 281 |

*Side frames are included with 112ch and 128ch models.

## Main specifications

| | | |
|---|---|---|
| Product configuration | Main unit | WX-9000 |
| | Expansion unit | AU-WX9000EPIO |
| Power supply | | AC 100V～240V |
| | | (when using AC adapter) |
| | | DC 8V～36V |
| Input | Number of Channels | Max. 128ch |
| | Connector | BNC |
| | Signal type | Voltage (AC/DC) |
| | | IEPE (TEDS supported) |
| | Range | 0.1 / 0.2 / 0.5 / 1 / 2 / 5 / |
| | | 10 / 20 / 50V |
| | Quantization bit depth | 24bit / 16bit |
| | Isolation between channels | Isolated every 2ch |
| | MIC set | FLAT / A / C |
| | HPF | 10Hz / 20Hz |
| | Dynamic Range | 137dB (FFT-based) |
| | Max. Recording Rate | 32.768MB/s<br>16bit : 256kHz×64ch<br>24bit : 256kHz×32ch |
| Output | Range | ±5V |
| | Connector | BNC |
| Synchronized Operation | WX-9000 Synchronization | Up to 2 units (max. 256ch) |

| | | |
|---|---|---|
| GPS Input | Number of Input Channels | 1 |
| | Connector | DX10A-20S（50） |
| | Supported GPS receiver | TZ-GR8015R |
| Voice memo | Sampling frequency | 8kHz |
| | Quantization bit depth | 8bit |
| | File format | WAV |
| Operating conditions | Operating temperature/humidity | 0-40°C/10-80% (no condensation) |
| | Storage temperature/humidity | -20 to 60°C/5 to 90% (non-condensing) |
| | Operating air pressure range | 860 ～1060hPa |
| | Vibration resistance | MIL-STD-810H Figure 514.8C-2 |
| Communication Interface | | Gigabit Ethernet |
| Recording Media | | 2.5-inch SATA SSD |

## Included accessories

AC adapter*1, SSD cartridge*2, Quick start guide, Earphone, Microphone,

NOTE: The English Instructions for Use can be downloaded from <https://datarecorder.jp/en/>, and for WX9K Navi Software please contact via the website.

## Options

Cable connection adapter, Connection cable between units, SD card cartridge, Side frame, Remote control, GPS receiver

*1. The number of AC adapters included varies depending on the number of channels configured.

*2. SSD is not included. Please prepare by yourself.

The photo shows the 16ch model.


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TEAC

Wideband Data Recorder

# WX-9000

Successor to the WX-7000 series

# Enhancement and Evolution

## To the highest, pinnacle level of data recorders

Standalone　Distributed placement　Channel-to-channel isolation

Improved convenience of adding channels

High sampling x Recording rate improvement

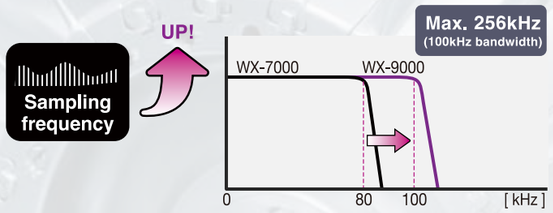

16ch model

Supports up to 128 channels with additional expansion units.

Features and specifications are subject to change without notice.

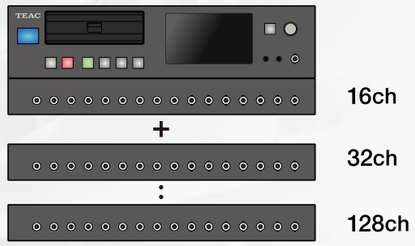
## Inheriting the performance of WX-7000, with further enhanced and improved functions and convenience

### Further, wideband




With a higher sampling rate than the existing 80kHz, signals up to the DC100kHz band can now be recorded.

### Improved convenience for adding channels




The number of channels can be increased by 16, up to a maximum of 128.

### Improved number of recording channels

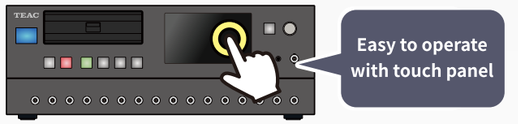

Max.recording rate : 32.768MB/s

The improved recording rate significantly increases the maximum number of recording channels.

### Channel-to-channel isolation

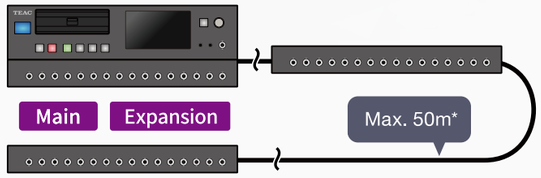
Isolating every 2 channels makes it less susceptible to noise and interference from other channels.

### Standalone




Settings and operations can be performed using the main unit's touch panel or jog dial. Recorded waveforms can also be displayed on the touch panel. Everything can be done in one unit.

### Distributed placement



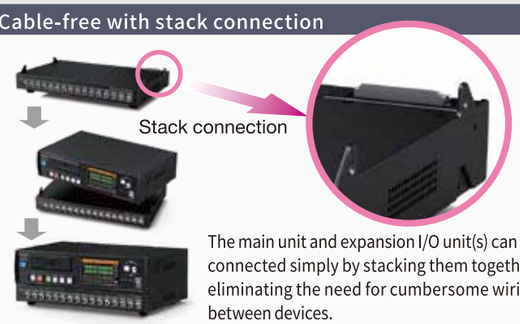

The main unit and expansion unit, and between expansion units (single recording), can be extended up to 50m with a cable connection, allowing for distributed placement.

*Cable adapters are optional. *Sampling may be subject to restrictions.

### Adoption of SATA SSD

The recording media used is a readily available and inexpensive 2.5-inch SATA SSD (up to 4TB), which also ensures vibration resistance.
A dedicated cartridge is used, and the cartridge can be used as is as removable media.
*SSD is not included.

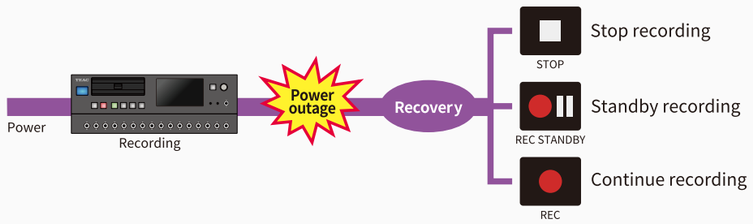
### Cable-free with stack connection




The main unit and expansion I/O unit(s) can be connected simply by stacking them together, eliminating the need for cumbersome wiring between devices.

### The operation after power-on can be set

The operation after power is turned on (STOP/REC STANDBY/REC) can be set. It is now possible to resume recording when power is restored after an unexpected power interruption.




### PC control software that has been completely redesigned from the existing Navi software and is now easier to use — WX9KNavi


The software for configuring the main unit, setting measurement conditions, displaying recorded data, etc. from a PC.

- **Various settings** (basic settings, GPS, time, trigger, monitor output, etc.)
- **Sensor settings for each channel** (TEDS or actual input)
- **Real-time monitor**
- **Checking data after recording**
- **Data processing and analysis by PC**

| System requirements | |
|---|---|
| OS | Microsoft Windows 10 (64-bit version), Windows 11 |
| CPU | Intel® Core™ i5 3.0GHz or higher, 4 Cores or higher |
| Memory | 8GB or more |
| Storage (HDD/SSD) | 1GB or more free space |

### Sampling frequencies and bands

Series 1 Corresponds to DAT/audio sampling frequencies
Series 2 Corresponds to integer frequencies
Series 3 Frequency axis during 2N FFT analysis : integrated in resolution
Series 4 Frequency axis during 2N FFT analysis : integrated in resolution

| Series 1 | | Series 2 | | Series 3 | | Series 4 | |
|---|---|---|---|---|---|---|---|
| Fs (kHz) | Band (kHz) | Fs (kHz) | Band (kHz) | Fs (kHz) | Band (kHz) | Fs (kHz) | Band (kHz) |
| - | - | - | - | 256.00 | 100.00 | - | - |
| 192.00 | 80.00 | 200.00 | 80.00 | 204.80 | 80.00 | 131.072 | 51.20 |
| 96.00 | 40.00 | 100.00 | 40.00 | 102.40 | 40.00 | 65.536 | 25.60 |
| 48.00 | 20.00 | 50.00 | 20.00 | 51.20 | 20.00 | 32.768 | 12.80 |
| 24.00 | 10.00 | 20.00 | 8.00 | 25.60 | 10.00 | 16.384 | 6.40 |
| 12.00 | 5.00 | 10.00 | 4.00 | 12.80 | 5.00 | 8.192 | 3.20 |
| 6.00 | 2.50 | 5.00 | 2.00 | 5.12 | 2.00 | 4.096 | 1.60 |
| 3.00 | 1.25 | 2.00 | 0.80 | 2.56 | 1.00 | 2.048 | 0.80 |
| 1.50 | 0.63 | 1.00 | 0.40 | 1.28 | 0.50 | 1.024 | 0.40 |

### Number of channels that can be recorded simultaneously

| Fs (kHz) | | | | Number of channels that can be recorded analog | | | |
|---|---|---|---|---|---|---|---|
| | | | | Stack connection, cable 10m or less | | Cable 11m or more | |
| Series 1 | Series 2 | Series 3 | Series 4 | 24bit | 16 bit | 24bit | 16 bit |
| - | - | 256.00 | - | 32ch | 64ch | - | - |
| 192.00 | 200.00 | 204.80 | 131.072 | 32ch | 80ch | - | 8ch |
| 96.00 | 100.00 | 102.40 | 65.536 | 80ch | 128ch | 8ch | 16ch |
| 48.00 | 50.00 | 51.20 | 32.768 | 128ch | 128ch | 16ch | 32ch |
| 24.00 | 20.00 | 25.60 | 16.384 | 128ch | 128ch | 32ch | 64ch |
| 12.00 | 10.00 | 12.80 | 8.192 | 128ch | 128ch | 64ch | 128ch |
| 6.00 | 5.00 | 5.12 | 4.096 | 128ch | 128ch | 128ch | 128ch |
| 3.00 | 2.00 | 2.56 | 2.048 | 128ch | 128ch | 128ch | 128ch |
| 1.50 | 1.00 | 1.28 | 1.024 | 128ch | 128ch | 128ch | 128ch |

### Approximate total recording times (4TB SSD / 24-bit recording / no voice memos)

| Fs (kHz) | Band (kHz) | 16ch | 32ch | 48ch | 64ch | 80ch | 96ch | 112ch | 128ch |
|---|---|---|---|---|---|---|---|---|---|
| 256.00 | 100.00 | 67:48 | 33:54 | - | - | - | - | - | - |
| 204.80 | 80.00 | 84:46 | 42:23 | - | - | - | - | - | - |
| 102.40 | 40.00 | 169:32 | 84:46 | 56:30 | 42:23 | 33:54 | - | - | - |
| 51.20 | 20.00 | 339:03 | 169:32 | 113:01 | 84:46 | 67:48 | 56:30 | 48:26 | 42:23 |
| 25.60 | 10.00 | 678:09 | 339:04 | 226:03 | 169:32 | 135:37 | 113:01 | 96:52 | 84:46 |
| 12.80 | 5.00 | 1356:19 | 678:09 | 452:06 | 339:03 | 271:15 | 226:03 | 193:45 | 169:32 |
| 5.12 | 2.00 | 3390:39 | 1695:19 | 1130:13 | 847:39 | 678:07 | 565:06 | 484:22 | 423:49 |
| 2.56 | 1.00 | 6781:30 | 3390:39 | 2260:30 | 1695:19 | 1356:18 | 1130:13 | 968:47 | 847:39 |
| 1.28 | 0.50 | 13563:00 | 6781:19 | 4521:00 | 3390:39 | 2712:36 | 2260:26 | 1937:34 | 1695:19 |