

					
	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]	62	104	188	272	356

Specifications

Analog signal input	
Input signal type	DC, AC, IEPE
Number of input channels	Maximum 128ch
Input connector	BNC (Z=50Ω type)
Input format	Unbalanced
Input impedance	1MΩ
Input range	± 0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10 / 20 / 50V
High pass filter	OFF / 10Hz / 20Hz (−18dB / oct Butterworth filter)
Weighting	FLAT, A, C (IEC TYPE 1 compliant)
Absolute maximum input voltage (input range value)	± 50V (0.1 / 0.2 / 0.5 / 1 / 2 / 5 / 10V input ranges) ± 100V (25 / 50V input ranges)
Input signal quantization bit depth	16 / 24-bit
Extended range	± 127% (of rated range)
Analog-digital conversion method	ΔΣ conversion method (with simultaneous sampling and anti-aliasing filter)
Input frequency flatness characteristics (0dB at 100Hz) (In AC mode, 1Hz or higher)	≤10V input range : ±0.5dB ≥20V input range (20kHz bandwidth) : ±0.5dB or less (Bandwidths other than above) : ±2.0dB or less
Input range precision	± 1 % or less (of rated range)
Phase difference between input channels (identical input range)	20kHz bandwidth (≤10V input range) : 1° or less (≥20V input range) : 2° or less Bandwidths other than above : 3° or less
Dynamic range	135dB or more (24-bit, 10V input range, 12.8kHz sampling freq., input short, 3200-line FFT, 100kHz or higher noise peak level)
Maximum Recording Rate *When using SSD	32.768MB/s (16-bit : 256kHz×64ch, 24-bit : 256kHz×32ch)
SN ratio (24-bit)	< 1V input range : 20kHz bandwidth : 87dB or more 1V, 2V input range : 20kHz bandwidth : 104dB or more 5V, 10V input range : 20kHz bandwidth : 108dB or more 20V input range : 20kHz bandwidth : 99dB or more 50V input range : 20kHz bandwidth : 106dB or more
Crosstalk	−103dB or lower (1kHz, 1V input range, 48kHz fs)
Distortion	0.1% or less (1kHz)
IEPE sensor power supply	DC 24V / 4mA, 0.5mA
IEPE sensor disconnection detection	Detection function included for each channel
TEDS	Supports TEDS Ver. 1.0.
Insulation	Every 2 channels (1kVACrms : 60 seconds)
Included accessories	
Microphone, Earphone, SSD case, Connection reference sheet*, AC adapters*2	

NOTE : *1. The English Instructions for Use can be downloaded from <<https://datarecorder.jp/en/>>,
and for WX9K Navi Software please contact via the website.
*2. The number of AC adapters included varies depending on the number of channels configured.

Analog signal output	
Number of output channels	Maximum 128ch
Output connector	BNC (Z=50Ω type)
Output format	Unbalanced
Output impedance	50Ω
Output range	±1 – 5V (adjustable in 0.1V steps)
Output signal quantization bit depth	16 / 24-bit
Extended range	± 127% (of rated range)
DA conversion method	ΔΣ conversion method
Output frequency flatness characteristics	≤20kHz bandwidth : Within ±0.5dB ≤40kHz bandwidth : Within +0.5dB ~ −1.0dB Bandwidths excl. above : Within +0.5dB ~ −2dB
Phase difference between output channels	Within the same expansion unit : ≤80kHz bandwidth : 1° or less Within the same expansion unit : 100kHz bandwidth : 2° or less
Output range precision	± 1% or less
SN ratio	≤20kHz bandwidth : 104dB or more ≤40kHz bandwidth : 102dB or more Bandwidth excl. above : 94dB or more
Crosstalk	−104dB or lower (20kHz bandwidth, 1kHz signal)
Distortion	0.01% or less
General	
Rated voltage	DC 12–28V When using AC adapter : AC 100–240V
GPS Input	Number of Input Channels : 1 Connector : DX10A-20S Supported GPS receiver : TZ-GR8015R (Option)
Voice memo	Sampling frequency : 8kHz Quantization bit depth : 8-bit File format : WAV
Operating conditions	Operating temp./hum. : 0 to 40°C/10 to 80% (no condensation) Storage temp./hum. : −20 to 60°C/ 5 to 90% (no condensation) Operating air pressure range : 860–1060 hPa Vibration resistance : MIL-STD-810H Figure 514.8C-2
Communication Interface	Gigabit Ethernet
Recording Media	2.5-inch SATA SSD SDHC / SDXC card (Option, 32GB~128GB, CLASS 10 or more)
Options	
Remote control unit	ER-WXRC (9000)
GPS receiver	TZ-GR8015R
Side frames	TZ-WX9KSF series
DC power cable	CL-DRDC
Synchronization cable	KIT, SYNCHRO CABLE WX 1M
Cable connection adapter	TZ-WX9KCCA(M) (for recording unit) TZ-WX9KCCA(E) (for expansion unit)
Input / output connection cable	
SSD case	TZ-WX9KSSDCASE
SD adapter	TZ-WX9KSDADP

TEAC CORPORATION

1-47 Ochiai, Tama-shi, Tokyo 206-8530, Japan +81-42-356-9154

TEAC AMERICA INC. <https://datarecorder.jp/en/>
10410 Pioneer Blvd., Unit #3, Santa Fe Springs, California 90670, U.S.A. +1-323-726-0303

TEAC EUROPE GmbH. <https://teac.eu/en/>
Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany +49-(0)611-7158-0

TEAC SALES & TRADING (ShenZhen) CO., LTD.
Room817,Xinian Center A,Tairan Nine Road West,Shennan Road, Futian District,
Shenzhen, Guangdong Province, China +86-755-8831-1561

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

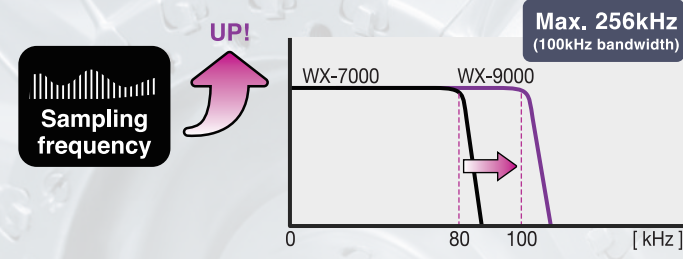


Supports up to 128 channels with additional expansion units.

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



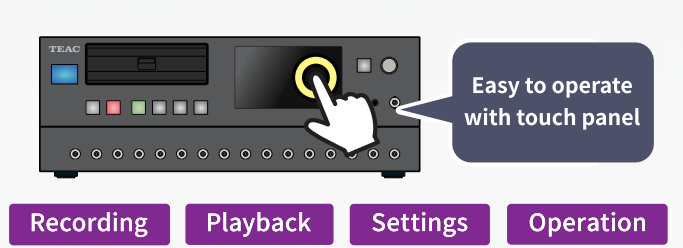
With a higher sampling rate than the existing 80kHz, signals up to the DC100kHz band can now be recorded.

Improved number of recording channels



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

Standalone



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

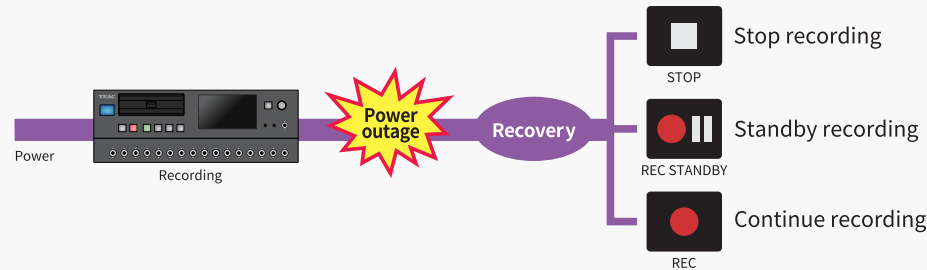
Adoption of SATA SSD



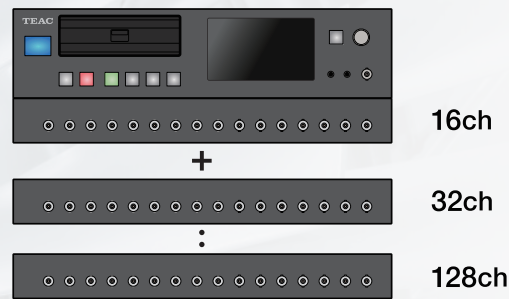
The recording media used is a readily available and inexpensive 2.5-inch SATA SSD (up to 4TB), which also ensures vibration resistance. A dedicated cartridge is used, and the cartridge can be used as is as removable media.

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.



Improved convenience for adding channels



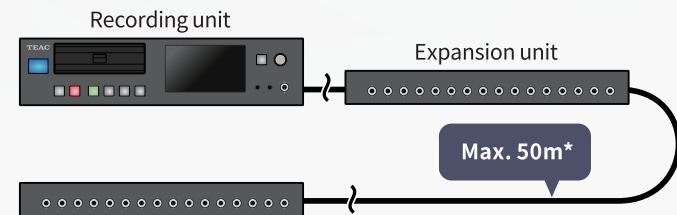
The number of channels can be increased by 16, up to a maximum of 128.

Channel-to-channel isolation 1kVACrms : 60sec



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

Distributed placement



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

*Cables connecting units and adapters for connecting cables are optional.
*Sampling may be subject to restrictions.

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.

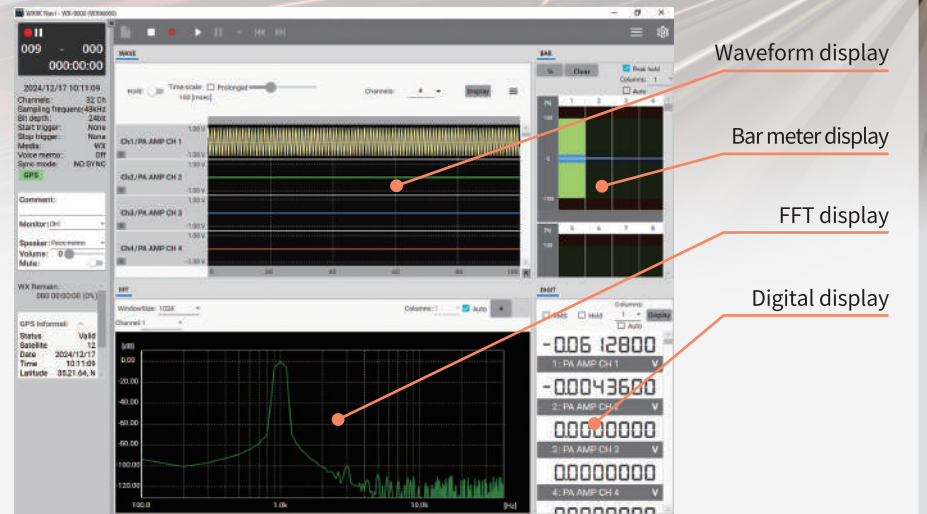
PC control software that has been completely redesigned from the existing Navi software and is now easier to use

WX9KNav

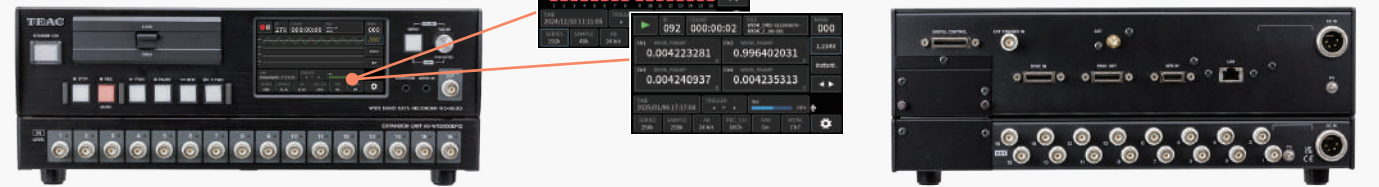
The software for configuring the Recording unit, setting measurement conditions, displaying recorded data, etc. from a PC.

- 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
- Direct recording to a PC is possible

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



The photo shows the 16ch model.



Sampling frequencies and bands

Series 1		Series 2		Series 3		Series 4	
Fs (kHz)		Fs (kHz)		Fs (kHz)		Fs (kHz)	
Band (kHz)		Band (kHz)		Band (kHz)		Band (kHz)	
-	-	-	-	256.00	100.00	-	-
192.00	80.000	200.00	80.00	204.80	80.00	131.072	51.20
96.00	40.000	100.00	40.00	102.40	40.00	65.536	25.60
48.00	20.000	50.00	20.00	51.20	20.00	32.768	12.80
24.00	10.000	20.00	8.00	25.60	10.00	16.384	6.40
12.00	5.000	10.00	4.00	12.80	5.00	8.192	3.20
6.00	2.500	5.00	2.00	5.12	2.00	4.096	1.60
3.00	1.250	2.00	0.80	2.56	1.00	2.048	0.80
1.50	0.625	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