Sampling freque	ncies and bands						
Seri	es 1	Serie	es 2	Seri	es 3	Serie	es 4
Fs	Band	Fs	Band	Fs	Band	Fs	Band
192.00 kHz	80.00 kHz	200.00 kHz	83.33 kHz	204.80 kHz	85.33 kHz	131.07 kHz	54.61 kHz
96.00 kHz	40.00 kHz	100.00 kHz	41.67 kHz	102.40 kHz	42.67 kHz	65.54 kHz	27.31 kHz
48.00 kHz	20.00 kHz	50.00 kHz	20.83 kHz	51.20 kHz	21.33 kHz	32.77 kHz	13.65 kHz
24.00 kHz	10.00 kHz	20.00 kHz	8.33 kHz	25.60 kHz	10.67 kHz	16.38 kHz	6.83 kHz
12.00 kHz	5.00 kHz	10.00 kHz	4.17 kHz	12.80 kHz	5.33 kHz	8.19 kHz	3.41 kHz
6.00 kHz	2.50 kHz	5.00 kHz	2.08 kHz	5.12 kHz	2.13 kHz	4.10 kHz	1.71 kHz
3.00 kHz	1.25 kHz	2.00 kHz	0.83 kHz	2.56 kHz	1.07 kHz	2.05 kHz	0.85 kHz
1.50 kHz	0.63 kHz	1.00 kHz	0.42 kHz	1.28 kHz	0.53 kHz	1.02 kHz	0.43 kHz

Sampling frequencies and bands Sampling frequency (Fs)/2.4 = band

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

Series 2 Corresponds to integer frequencies

Series 4 Frequency axis during 2N FFT analysis:

Appro	Approximate total recording times for a 1TB RDX HDD (in days, hours:minutes:seconds)												
				16-	bit					24-1	bit		
Fs(kHz)	Band(kHz)	8ch	16ch	32ch	64ch	96ch	128ch	8ch	16ch	32ch	64ch	96ch	128ch
192.00	80.00	3 days, 18:10	1 day, 21:09					1 day, 21:09					
96.00	40.00	7 days, 11:53	3 days, 18:10	1 day, 21:09				3 days, 18:10	1 day, 21:09				
48.00	20.00	14 days, 21:56	7 days, 11:53	3 days, 18:10	1 day, 21:09			7 days, 11:53	3 days, 18:10	1 day, 21:09			
24.00	10.00	29 days, 12:34	14 days, 21:56	7 days, 11:53	3 days, 18:10	2 days, 12:10	1 day, 21:09	14 days, 21:56	7 days, 11:53	3 days, 18:10	1 day, 21:09		
12.00	5.00	57 days, 20:48	29 days, 12:34	14 days, 21:56	7 days, 11:53	5 days, 0:20	3 days, 18:10	29 days, 12:34	14 days, 21:56	7 days, 11:53	3 days, 18:10	2 day, 12:10	1 day, 21:09
6.00	2.50	111 days, 6:48	57 days, 20:48	29 days, 12:34	14 days, 21:56	10 days, 0:41	7 days, 11:53	57 days, 20:48	29 days, 12:34	14 days, 21:56	7 days, 11:53	5 days, 0:20	3 days, 18:10
3.00	1.25	206 days, 16:03	111 days, 6:48	57 days, 20:48	29 days, 12:34	20 days, 1:23	14 days, 21:56	111 days, 6:48	57 days, 20:48	29 days, 12:34	14 days, 21:56	10 days, 0:41	7 days, 11:53
1.50	0.63	361 days, 16:06	206 days, 16:03	111 days, 6:48	57 days, 20:48	40 days, 2:47	29 days, 12:34	206 days, 16:03	111 days, 6:48	57 days, 20:48	29 days, 12:34	20 days, 1:23	14 days, 21:56

Appro	oximate	total recording	times for a 3	2GB SDHC ((in days, hour	s:minutes:sec	conds)						
				16-	bit					24-	bit		
Fs(kHz)	Band(kHz)	8ch	16ch	32ch	64ch	96ch	128ch	8ch	16ch	32ch	64ch	96ch	128ch
192.00	80.00												
96.00	40.00	5:44											
48.00	20.00	11:26	5:44					5:44					
24.00	10.00	22:38	11:26	5:44				11:26	5:44				
12.00	5.00	1 day, 20:22	22:38	11:26	5:44			22:38	11:26	5:44			
6.00	2.50	3 days, 13:19	1 day, 20:22	22:38	11:26	7:39	5:44	1 day, 20:22	22:38	11:26	5:44		
3.00	1.25	6 days, 14:28	3 days, 13:19	1 day, 20:22	22:38	15:18	11:26	3 days, 13:19	1 day, 20:22	22:38	11:26	7:39	5:44
1.50	0.63	11 days, 13:19	6 days, 14:28	3 days, 13:19	1 day, 20:22	1 day, 6:36	22:38	6 days, 14:28	3 days, 13:19	1 day, 20:22	22:38	15:18	11:26

	Number of input/output		ut 10	UII						
Channels				32ch, 64ch, 96ch, 128ch: by adding 16-channel Expansion units						
	Number of	channels	that can be	recorded	simultaneo	usly				
		Fs	(kHz)		RDX record	ling 6MB/s	SDHC recor	ding 1.5MB/s		
	Series 1	Series 2	Series 3	Series 4	16bit	24bit	16bit	24bit		
	192.00	200.00	204.80	131.07	16ch	8ch	-	-		
	96.00	100.00	102.40	65.54	32ch	16ch	8ch	-		
	48.00	50.00	51.20	32.77	64ch	32ch	16ch	8ch		
	24.00	20.00	25.60	16.38	128ch	64ch	32ch	16ch		
	12.00	10.00	12.80	8.19	128ch	128ch	64ch	32ch		
	6.00	5.00	5.12	4.10	128ch	128ch	128ch	64ch		
	3.00	2.00	2.56	2.05	128ch	128ch	128ch	128ch		
	1.50	1.00	1.28	1.02	128ch	128ch	128ch	128ch		

	40.00	50.00	01.4	20	32.11	04011	32011	TOCII	OCII		
	24.00	20.00	25.6	30	16.38	128ch	64ch	32ch	16ch		
	12.00	10.00	12.8	30	8.19	128ch	128ch	64ch	32ch		
	6.00	5.00	5.1	12	4.10	128ch	128ch	128ch	64ch		
	3.00	2.00	2.5	56	2.05	128ch	128ch	128ch	128ch		
	1.50	1.00	1.2	28	1.02	128ch	128ch	128ch	128ch		
ĺ	Input			DC	, AC, IEPE	(TEDS Su	ipported)				
	Input Rang	je		±0.	1, 0.2, 0.5	1, 2, 5, 10	, 20V				
	Output Ra	nge		±11	to 5V (sele	ctable in 0	.1 V steps)				
	Range Acc	curacy		Les	s than ±2	%					
	Linearity			±0.	1% or less						
	Resolution			Sel	ectable 16	-bit/24-bit					
	Analog-digita	l conversion i	method	ΔΣ method with 24-bit, 128x oversampling							
	High pass	filter		3rd-order Butterworth analog filter 10Hz/ 20Hz (within ±0.5dB)							
	Channel P	hase Differ	rence	Band(20kHz or less): 2° or less (in same expansion unit)							
	(20 V inpu	t range)		: 3° or less (in different expansion unit)							
				Band(80kHz or less): 3° or less							
	Dynamic F	Range		97 dB @ 24 bit mode							
	(1V input range	e in 20kHz ban	d or less)	89 dB @ 16 bit mode							
	Genera	il									
-	Front Pane			3.5" TFT LCD with Bar Meters							
Recording Media			SDHC flash-memory card(Class 10 recommended)								
				RDX cartridge types (HDD)							
Recording capacity			SDHC : 4 GB – 32 GB								
				RDX(HDD): 500 GB – 1 TB							
IRIG/GPS (Optional)					IRIG-B/GPS(NMEA)						
Operating temperature/humidity				0 to 40 °C/10-80% (no condensation)							
Storage temperature/humidity					-20 ~ 60℃ / 5 ~ 90%						
Operating air pressure range)-1060 hP	a					
	Operating t	p									

	Interface	LAN 1000E	BASE-T connector x1					
AQ-VU		DIGITAL CONTROL External control connector x1						
EXT TRIGGER IN Ext trigger signal input connector x1		for ER-WXRC remote controller						
EXPANSION OUT		AQ-VU AQ-VU synchror	nization connector x1					
EXPANSION OUT		EXT TRIGGER IN Ext trigger sig	nal input connector x1					
SYNC OUT Synchronized recording connector x1 UPS SIGNAL IN Contact signal input connector x1 FG frame grounding connector x1 FG frame grounding connector x1 for awailable (Max 128ch x 2 =256ch)								
SYNC OUT Synchronized recording connector x1 UPS SIGNAL IN Contact signal input connector x1 FG frame grounding connector x1 FG frame grounding connector x1 for awailable (Max 128ch x 2 =256ch)		SYNC IN synchronized re	cordina connector x1					
UPS SIGNAL IN contact signal input connector x1 FG frame grounding connector x1 FG frame grounding connector x1 2 units synchronized operation available (Max 128ch x 2 =256ch) Data File Format TAFFmat (TEAC Data Acquisition File Format) Safety Standard CE								
Synchronization								
Synchronization 2 units synchronized operation available (Max 128ch x 2 =256ch)								
Data File Format Safety Standard CE	Synchronization	•						
Safety Standard CE								
Vibration resistance MIL-STD-810E Figure514.4-1.2.3 (not including RDX HDD)		` '	no i ormat)					
Dimensions WX-7000			at including RDX HDD)					
AU-WXEPIO : W340 x H 40 x D220 (mm) 3.1Kg WX-7016 : W340 x H123 x D220 (mm) 7.4Kg WX-7032 : W340 x H164 x D220 (mm) 10.4Kg WX-7064 : W340 x H246 x D220 (mm) 17.1kg WX-7096 : W360 x H396 x D370 (mm) 36.4Kg WX-7128 : W360 x H478 x D370 (mm) 33.9kg WX-7128 : W360 x H478 x D370 (mm) 33.9kg WX-7128 : W360 x H478 x D370 (mm) 33.9kg WX-7128 : W360 x H478 x D370 (mm) 33.9kg WX-7128 : W360 x H478 x D370 (mm) 33.9kg WX-7128 : W360 x H478 x D370 (mm) 34.9kg WX-7128 : W360 x H478 x D370 (mm) 34.9kg WX-7128 : W360 x H478 x D370 (mm) 34.9kg WX-7128 : W360 x H478 x D370 (mm) 34.9kg WX-7128 : W360 x H478 x D370 (mm) 34.9kg WX-7128 : W370 (massured input voltage: 100-240 v WX-7064: 166W, WX-7096: 242W, WX-7128: 317W WX-7096: 242W, WX-7096: 242W, WX-7128: 317W WX-7096: 242W, WX-7032: 90W, WX-7096: 242W, WX-709								
WX-7016			· ,					
WX-7032	(VV X II X B) / Weight							
WX-7064								
WX-7096								
WX-7128 : W360 x H478 x D370 (mm) 33.9Kg								
Power supply 11 – 30 V DC (powered from included AC adaptor) AC adaptors rated input voltage: 100–240 V Power consumption WX-7016: 53W, WX-7032: 90W, WX-7064: 166W, WX-7096: 242W, WX-7128: 317W Included accessories WX Navi (measured data waveform display software) X1 for voice memos Earphone X1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) X1 Quick Start Guide Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card								
AC adaptors rated input voltage: 100–240 V Power consumption WX-7016: 53W, WX-7032: 90W, WX-7064: 166W, WX-7096: 242W, WX-7128: 317W Included accessories WX Navi (measured data waveform display software) x1 for voice memos Earphone x1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	Power supply		, ,					
Power consumption WX-7016: 53W, WX-7032: 90W, WX-7064: 166W, WX-7096: 242W, WX-7128: 317W Included accessories WX Navi (measured data waveform display software) x1 Microphone x1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	1 Ower suppry							
WX-7064: 166W, WX-7096: 242W, WX-7128: 317W Included accessories WX Navi (measured data waveform display software) x1 Microphone x1 for voice memos Earphone x1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	Power consumption							
Included accessories WX Navi (measured data waveform display software) Microphone Earphone CD-ROM (Contents: Owner' s Manual, WX Navi software, WX Navi Operation Manual) Quick Start Guide Expansion connection cables AC adaptors AU-WXEPIO ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	1 ower consumption	,	,					
Microphone x1 for voice memos Earphone x1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	Included accessories	, , , , , , , , , , , , , , , , , , , ,	,					
Earphone x1 for voice memos CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	iliciuded accessories							
CD-ROM (Contents: Owner's Manual, WX Navi software, WX Navi Operation Manual) x1 Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card		•						
WX Navi Operation Manual x1								
Quick Start Guide x1 printed Expansion connection cables AC adaptors Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card								
Expansion connection cables AC adaptors Options AU-WXEPIO ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card								
Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card		Дани стан стан стан стан стан стан стан стан						
Options AU-WXEPIO Expansion unit ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card								
ER-WXRC Dedicated simple remote control AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	0-4		Francisco contra					
AR-WXIRGPS IRIG-B timecode signal I/O card GPS data input card	Options							
GPS data input card								
·		AR-WXIRGPS IRIG-B ti						
Expansion cable TZ-WXSY1(1M)								
		Expansion cable	IZ-WXSY1(1M)					

Other company names and product names in this document are the trademarks or registered trademarks of their respective owners. Features and specifications are subject to change without notice. Precaution: To ensure safe handling and operation, read the Instruction Manual before use.

Information Products Division

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

FAX: +81-42-356-9185 URL: https://datarecorder.jp/en/

Copyright© 2020 TEAC CORPORATION. All rights reserved.

PRINTED IN JAPAN 2002 0.2KKS • ISD-063D-e-A4



Portable Wide-Band Data Recorder

WX-7000 Series

https://datarecorder.jp/en

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.



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.









32ch model wx-7032 64ch model wx-7064 96ch model wx-7096 128ch model wx-7128

High-speed, Multi-channel and Long recording time in comparison to AIT tape data recorders.

WX-7000 series from TEAC provide reliable data recording with protection from catastrophic data loss

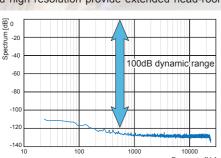


128ch model WX-7128

Wide Dynamic Range and High Resolution

Wide dynamic range and high resolution provide extended head-room

input range to record transientphenomenon. 24 bit analog to digital conversion provides high-resolution measurement, avoiding low level data buried in noise.



Extended Recording Time

With the use of 500GB RDX media, WX-7000 records 36 times longer than AIT data recorder. There is no need to change media frequently to record long term test data.

TEDS (Transducer Electronic Data Sheet) support

TEDS function recognizes sensitivity information from transducers electronically, reducing set-up time and eliminating cabling errors.

Reliable Recording Media

WX-7000 unit and recording media (RDX , SDHC) are rugged and reliable.

SDHC card has no moving part and is shockproof media.

RDX is a disk-based (HDD) storage system with removable cartridges which offers rugged, reliable and convenient data storage.

RDX cartridge is shockproof which against 1m (39.4")drop to tile over concrete floor.



User-friendly, Intuitive Operation

3.5 inch LCD is provided on front panel, for user-friendly operation. Recorder settings are shown on the display.

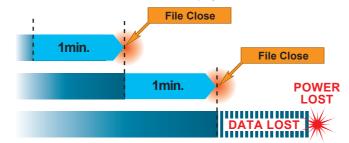
It's easy to monitor and change main parameters on home screen, with

easy to access additional set-up



Fail-safe Recording

WX-7000 closes the data file after every one minute while recording. Even if an unexpected or mistaken power outage happens during recording, all recorded data from one minute before power loss is saved and is available for review and replay.



WX Navi Control and Viewing Software for WX-7000

The VR-24 is a Video NV recorder which can record 2ch HD Video and Analog signals along with CAN, GPS and Pulse data in perfect sync.

WX-7000 series are able to synchronize with VR-24. Having a way to watch synchronize video and analog signals would greatly help you analyze the phenomena you recorded.

*When synchronizing WX-7000 and VR-24, VR-24 is assigned to the slave unit.



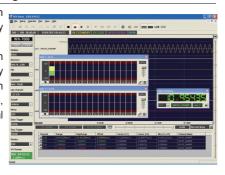
Video NV recorder VR-24

Software Support (Commercial product)

WX Navi Control and Viewing Software for WX-7000

3.5 inch LCD is provided on front panel, for user-friendly operation.

Recorder settings are shown on the display. It's easy to monitor and change main parameters on home screen, with easy to access additional set-up menu pages.



Control API

Control API is provided as a Windows DLL(Dynamic-Link Library) which can be linked from a upper program. Control, Settings, Real-time Transferring Data,

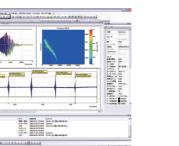
Downloading Recorded Data File are available using this Control API. Data analysis software developer, system integrator can use this Control API in order to add these functions to their existing system.

TAFFmat (TEAC data Acquisition File Format) Data File

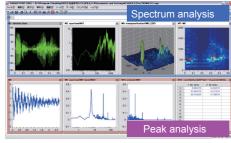
TAFFmat is widely supported by major data analysis software. Recorded data file by WX-7000 can be analyzed using data analysis software which is currently used.

Category	Software	Note
General	DADISP	
	FlexPro	
	DIAdem	
	FAMOS	
	Matlab	Script file can be provided
NVH	LMS Test.Lab	
	B&K PULSE	16 bit only
Turbine Test	APEX Turbine	·

General analysis software (Commercial product)



FlexPro9
Developed by Weisang GmbH



DADISP 6.5Developed by DSP Development Corporation



Developed by APEX Turbine