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TEAC

WX-7000

WIDE BAND DATA RECORDER
Quick start guide

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1. Introduction

Thank you for purchasing the WX-7000 WIDE BAND DATA RECORDER ("WX-7000"). Please read this document in its entirety before using the product to get the best performance and ensure safe and proper operation.

1-1. Disclaimers

Information is given about products in this manual only for the purpose of example and does not indicate any guarantees against infringements of third-party intellectual property rights and other rights related to them. TEAC Corporation will bear no responsibility for infringements on third-party intellectual property rights or their occurrence because of the use of these products.

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2. IMPORTANT SAFETY INSTRUCTIONS

Declaration of Conformity
Model number: WX-7000
Trade name: TEAC
Responsible party: TEAC AMERICA, INC.
Address: 10410 Pioneer Blvd. Unit #1, Santa Fe Springs, California 90670, U.S.A.
Telephone number: +1-323-726-0303
This device complies with Part.15 of FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference
2) This device must accept any interference received, including interference that may cause undesired operation.

Information
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada
Innovation, Science and Economic Development Canada's Compliance Statement:
This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Model for Europe

This product complies with the European Directives request, and the other Commission Regulations.

Model for UK
This product complies with the applicable UK regulations.

Disposal of electrical and electronic equipment
(a) All electrical/electronic equipment should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.
(b) By disposing of electrical/electronic equipment correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.
(c) Improper disposal of waste electrical/electronic equipment can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.
(d) The Waste Electrical and Electronic Equipment (WEEE) symbols, which show wheeled bins that have been crossed out, indicate that electrical/electronic equipment must be collected and disposed of separately from household waste.
(e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical/electronic equipment and waste batteries/accumulators, please contact your city office, waste disposal service or the shop where you purchased the equipment.

WARNING
This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

ATENCIÓN
Este es un producto de clase A. En un entorno no profesional, este aparato puede producir interferencias de radio, en cuyo caso el usuario será el responsable de tomar las medidas necesarias para solucionarlo.

AVERTISSEMENT
Il s'agit d'un produit de Classe A. Dans un environnement domestique, cet appareil peut provoquer des interférences radio, dans ce cas l'utilisateur peut être amené à prendre des mesures appropriées.

Warnung
Dies ist eine Einrichtung, welche die Funk-Entstörung nach Klasse A besitzt. Diese Einrichtung kann im Wohnbereich Funkstörungen versursachen; in diesem Fall kann vom Betrieber verlang werden, angemessene Maßnahmen durchzuführen und dafür aufzukommen.

DISCLAIMER
TEAC disclaims all warranty, either expressed or implied, with respect to this product and the accompanying written materials. In no event shall TEAC be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information or other loss) arising out of the use of or inability to use this product.

3. Connections

3-1. Powering the unit

One included AC adaptor can supply power to both the WX-7000 recording unit and two AU-WXEPIO expansion units.
AU-WXEPIO expansion units that are not connected to an AC adaptor receive power by connection cables.
Connect AC adaptors and connection cables as shown in the following illustrations.

CAUTION

- Do not supply power to AC adaptors or DC INs until after securely connecting all connection cables between units.
- Before connecting or disconnecting connection cables, turn off the power to the AC adaptors and DC INs.
- Connect the EXPANSION OUT connector of the unit above with the EXPANSION IN connector of the unit below it using a connection cable.
- Place the AC adaptor units away from the AU-WXEPIO expansion units.
- When using within Japan, use the included AC cord that has a PSE mark on the plug.
- When using in the North American region, use the included AC cord that has a CSA mark on the plug.

3-1-1. WX-7016

Connect the included AC adaptor to the DC IN on the WX-7000.

3-1-2. WX-7032

Connect the included AC adaptor to the DC IN on the WX-7000.

3-1-3. WX-7064

Connect one included AC adaptor to the DC IN on the WX-7000 and the second included AC adaptor to the DC IN on the third AU-WXEPIO unit from the top.

3-1-4. WX-7096

Connect one included AC adapter to the DC IN on the WX-7000, the second included AC adapter to the DC IN on the 3rd AU-WXEPIO unit from the top and the third adaptor to the 5th unit.

3-1-5. WX-7128

Connect one included AC adaptor to the DC IN on the WX-7000, the second adaptor to the DC IN on the 3rd AU-WXEPIO unit from the top, the third adaptor to the 5th unit and the fourth adaptor to the 7th unit.

3-2. Connecting with computers and oscilloscopes

Hub/router　　Computer　　Oscilloscope, etc.

- This unit's LAN connection supports 1000BASE-T Ethernet.
  Use a compatible hub or router and computer.
- This unit's LAN connection is compatible with Auto MDI/MDI-X.
  You can use a straight cable even when connecting with a computer directly. Use a category 7 LAN cable.

3-3. Connecting sensors

4. Names and Functions of Parts

4-1. Front panels

WX-7000 recording unit

● Drive cover open

AU-WXEPIO expansion unit

A RDX indicator

This shows the RDX status as follows.

Indicator	Meaning	Explanation
Unlit	Inactive	The cartridge is not loaded properly or the docking station power is not on.
Lit green	Ready	The cartridge is ready for use.
Blinking green	In use	The cartridge is being accessed (including reading, writing and searching).
Lit yellow	Malfunction-ing	A cartridge malfunction in the RDX docking station has been detected.

B Drive cover

This is the drive unit cover.
The SD card slot and RDX docking station are beneath the cover.
Always keep the drive cover closed when not loading or unloading an SDHC card or RDX cartridge. Moreover, keep it closed when data is being recorded or played back.

C Display

This 3.5-inch TFT color display has a 320x240 resolution and shows various information.

NOTE

The display is produced with extremely high-precision manufacturing technologies. At least 99.99% of the pixels operate as specified. On rare occasions, a pixel might misfire or appear as a red or black dot, but this is not a malfunction.

D Operation controls

CANCEL button

MENU button

HOME button

SHIFT button

VALUE knob/button
When a cursor is visible, turn this to move it. Press to input a parameter and turn it to increase or decrease the parameter value.
Press to use it as an ENTER button.

Up (▲) button
Down (▼) button
Left (◀) button
Right (▶) button
Use these to move the cursor.
When inputting parameters, you can also use these to increase or decrease values.

E STANDBY/ON (⏻/I) switch

Press to turn the power on or put the unit into standby.
Press the switch up to turn the power on. Press it down to put the unit into standby.

F Transport buttons

Stop (■ STOP) button
Press to stop recording and playback.

Record (● REC) button
Press when the unit is idle to make it record ready.

Play (► FWD) button
Press when the unit is idle or playback ready to start playback.
Press when the unit is record ready to start recording.

Pause (❚❚ PAUSE) button
Press when the unit is idle or playing back to make it playback ready.
Press when recording to make it record ready.

Search (◄◄ REW/ ►► F FWD) buttons
Use to search playback files.

G Function (F1, F2, F3, F4) buttons

H VOLUME (SPEAKER) knob

Use to adjust the playback volume of voice memos.

I EARPHONE jack

Connect the included earphone here.

- When an earphone is connected, sound will not be output from the speaker built into the side of the unit.

J MEMO IN (mic input) jack

Connect the included mic here to record voice memos.
When audio input is detected, the LED lights green.

K MONITOR OUT connector

This can be used to output a monitor signal, which can be the input signal of any channel or the voice memos.

L SDHC card slot

Insert SDHC cards here.

M RDX cartridge emergency ejection hole

Use if you cannot eject the RDX cartridge with the EJECT button.

N RDX cartridge dock

Load RDX cartridges here.

O RDX cartridge EJECT button and indicator

Use to eject RDX cartridges.
The indicator shows the status as follows.

Indicator	Meaning	Explanation
Unlit	No power	No power is being supplied to the RDX docking station.
Lit green	Ready	Power is being supplied to the RDX docking station and it is functioning properly.
Blinking green	Ejecting	The cartridge is being ejected from the docking station.
Lit yellow	Malfunction-ing	A malfunction has been detected in the RDX docking station.
Blinking yellow	Ready	The RDX media was being accessed when you pressed the EJECT button. After blinking yellow for a few seconds, it will light green.

P LEVEL LEDs

Each LED lights green when its input level exceeds 10% of its input range and lights red when it exceeds 115%. When using an ICP sensor, the LED lights yellow when there is no ICP current.

Q Input connectors

Use these to input measurement signals.

4-2. Side panels

R joint bars

The WX-7000 and AU-WXEPIO units are physically connected by four joint bars. The lengths of the joint bars differ for the WX-7016, WX-7032, WX-7064, WX-7096 and WX-7128 models.

S Built-in speaker

This outputs voice memos.

- When an earphone is connected to the earphone jack, no sound is output from this built-in speaker.

4-3. Rear panels

WX-7000 recording unit

AU-WXEPIO expansion unit

A OPTION-1 slot

This slot is for an option card with a height of 20.5 mm.

B OPTION-2 slot

This slot is for an option card with a height of 16.5 mm.

C LAN (1000BASE-T) connector

This is for an ethernet connection. Use to connect the system with a computer. The LED blinks when transmitting data.

- Use a category 7 LAN cable.

D EXPANSION OUT connector

Connect this to the EXPANSION IN connector of the AU-WXEPIO below it using a connection cable.

E DIGITAL CONTROL input connector

Use to control recording and playback with contact signals and to connect a remote control unit (option).

F SYNC IN connector

Use for synchronized recording input. Do not connect anything when not conducting synchronized recording.

G AQ-VU synchronized recording connector

Use to control starting and stopping of AQ-VU recording, as well as to synchronize the time.

H SYNC OUT connector

Use for synchronized recording output. Do not connect anything when not conducting synchronized recording.

I EXT TRIGGER IN connector

Use to input external trigger contact signals to start and stop recording.

J Cooling fans

These are exhaust fans to cool the unit. Do not block their outputs.

K FG (frame grounding) connector

Connect a grounding wire here.

L DC IN power connector

Input a voltage between 11 V and 30 V.

M UPS SIGNAL IN (contact input) connector

Connect the desired contact output of an uninteruptible power supply here. Confirm the specifications of the connector beforehand.
Do not connect anything if you are not using this feature.

N EXPANSION OUT connector

Connect this to the EXPANSION IN connector of the AU-WXEPIO below it using a connection cable.

O EXPANSION IN connector

Connect this to the EXPANSION OUT connector of the WX-7000 or AU-WXEPIO unit above it using a connection cable.

P FG (frame grounding) connector

Connect a grounding wire here.

Q OUT connectors

Use to output measurement and playback signals.

R Cooling fan

This is an exhaust fan to cool the unit. Do not block its output.

S DC IN power connector

Input a voltage between 11 V and 30 V. Not every expansion unit requires direct power input. (See pages 4-5.)

5. Basic operation

5-1. Turning the power on

Check the connections between the recording unit (WX-7000) and the expansion units (AU-WXEPIO), as well as the AC adaptor connections and turn the STANDBY/ON switch to ON.
When the Home Screen appears on the display the system is ready for use.

5-2. Stopping power to the system

Before turning the power off for the recording unit (WX-7000), eject the RDX cartridge and SDHC card. If the power is turned off while data is being written, data recorded on that medium might become unreadable.
Stop powering the system before moving it.

5-3. Status changes

5-3-1. Explanation of status change diagram entry

Entries appear on the status change diagram in the following manner.

5-3-2. Status change diagram

The status of the system can be changed in the following manner.

6. Recording

6-1. Order of procedures

Set the recording conditions
↓
Set the recording destination
↓
Set the triggers
↓
Make other settings
↓
Start recording
↓
Start measurement
↓
Stop measurement
↓
Stop recording

6-2. Setting recording conditions

Make settings for the sampling frequency, analog–digital conversion bit depth, number of recording channels, voice memo activation, input and output.

- Calibration is conducted automatically when this system's power is turned on.
- In order to record measurements with greater precision, however, we recommend manually calibrating the system after letting it warm-up for at least 10 minutes before beginning recording.
  SYSTEM menu → Calibration

6-3. Setting the recording destination

Set the media, directory and file name for recording.
FILE menu → RECORDING FILE
→ DEVICE
→ DIRECTORY
→ FILE
→ COMMENT

- If the recording destination media does not have open space, format it.
  FILE menu → Format

6-4. Setting triggers

In addition to manually starting and stopping recording, you can also set the system to start and stop recording using triggers and intervals.

- After recording with the fan stopped, wait at least 10 minutes before recording with the fan stopped again. Use a sufficient interval time when conducting interval recording or other repeated recording in particular.

6-4-1. Trigger recording

Example of one trigger recording repetition

Recording starting conditions
- level trigger
- external trigger
- timeout trigger

Recording stopping conditions
- level trigger
- external trigger
- Recording time

For trigger recording, you can set a combination of a starting trigger (level, external or timeout) and a stopping trigger (level, external or recording time).

Recording starting conditions

Level trigger
Use a level change for the set channel as a trigger.

External trigger
When the input through the EXT TRIGGER IN connector becomes the L level (0.4 V or less), recording starts. If the L level has already been reached, when the system becomes record ready, recording starts immediately.

Timeout
If the conditions set to start recording are not met within a specified time, recording will be forced to start automatically.

Pre trigger
By default, the system saves data from the time between when a recording starting condition occurs and when a recording stopping condition occurs.
When a pre-trigger interval is set, data is recorded before a recording starting condition occurs, but only after the system is made record ready.

- You cannot record voice memos during this time.

Recording stopping conditions

Level trigger

Use a level change for the set channel as a trigger.

External trigger

When the input through the EXT TRIGGER IN connector becomes the H level (open or 2 V or more), recording stops.

Rec Time

Recording continues only for the set amount of time.

Post trigger

Even after one of the above recording stopping conditions is met, recording will continue for the set amount of time.

- When recording is stopped manually, however, the system will not record after the stop trigger.

6-4-2. Interval recording

Example of one interval recording repetition

With interval recording, when the number of repetitions is set to 1, recording will start at the set time and stop after the set recording time has elapsed.

Example of three interval recording repetitions

When the number of repetitions is set to 2 or more, recording will start at the set time and stop after the set recording time has elapsed. Then, the system will become record ready and start recording again after the set interval. After this process has repeated to record the set number of repetitions, recording will stop.

If the number of repetitions is set to 0, interval recording will repeat until the recording media is full, or recording is stopped manually.

Start time

Recording starts at the set time.

Recording time

Recording continues for the set amount of time.

Interval time

If the number of repetitions is set to 2 or more recordings, this is the amount of time that the system stays in a record ready state from the time one recording ends until the next recording starts.

Repetitions

Sets the number of repetitions. When set to 0, interval recording will repeat until the recording media is full or recording is stopped manually.

The maximum number of repetitions that can be set is 65534.

- When set to 0, if recording is repeated until the recording media becomes full, the recorded data for the last recording might not be as long as the Rec Time setting.

6-5. Starting recording

Press the REC button to make the unit ready to record.

If a starting trigger has been set, recording will start when a trigger condition is met.

If no starting trigger has been set, press the FWD button to start recording.

7. Playback

7-1. Order of procedures

Set the playback conditions
↓
Select the playback file
↓
Start playback

- If you want to search for a playback position, first press the PAUSE button to make the system playback ready and then search.

7-2. Setting playback conditions

Make output unit settings.
SYSTEM menu → OUTPUT SETTING

7-3. Selecting the playback file

Select the media and file.
FILE menu → FILE OPEN

7-4. Searching with the counter

When ready for playback, select the counter (COUNT), and use the VALUE knob to search for the desired counter position. Then, press the VALUE knob to start playback from that counter position.

7-5. Searching by event

When ready for playback, select the event number (EVENT), and use the VALUE knob to search by event number. Then, press the VALUE knob to start playback from the position of that event number.

7-6. Searching by ID

When ready for playback, select the ID number, and use the VALUE knob to search for the desired ID number. Then, press the VALUE knob to start playback from the position of that ID number.

7-7. Searching by time

When ready for playback, select the date and time (TIME), and search for the desired date and time. Then, press the VALUE knob to start playback from the position of that date and time.

- After selecting the date and time (TIME), press the VALUE knob to make the date and time display larger.

8-1. Menu screen item list

HOME
- Sampling series (SERIES)
- Sampling frequency (SAMPLE)
- Analog-digital conversion bit depth (AD)
- Number of recording channels (REC CH)
- Fan activation (FAN)
- Voice memo activation (MEMO)
- Monitoring output channel
- Searching by ID (ID) (during playback)
- Searching by event (EVENT) (during playback)
- Searching with the counter (COUNT) (during playback)
- Searching by time (TIME) (during playback)
- Trigger settings (TRG)
- Device selection
- Recording directory name (DIR)
- Recording file name (FILE)

MENU
- SYSTEM
- FILE
- TRG
- MISC

- SYSTEM
  - Sampling series (SAMPLING SERIES)
  - Sampling frequency (SAMPLING FREQ.)
  - Number of active channels (ACTIVE CHANNEL)
  - Analog-digital conversion bit depth (AD BIT)
  - Voice memo activation (VOICE MEMO)
  - Monitoring output channel (MONITOR CHANNEL)
  - Monitoring output range (MONITOR RANGE)
  - Input settings (INPUT SETTING)
    - 1
      - Input range (INPUT RANGE)
      - Coupling (COUPLING)
      - ICP current (SENSOR CURRENT)
      - Weighting network (MIC SET)
      - High-pass filter (HPF)
      - Channel name (CHANNEL NAME)
      - Unit (UNIT)
      - Coefficient (COEFFICIENT)
      - Offset (OFFSET)
    - 2
    - :
    - 16
    - ICP voltage (Sens Volt)
  - Output settings (OUTPUT SETTING)
    - 1
      - Output range
    - 2
    - :
    - 16
    - Output unit setting (OutUnit Set)
  - TEDS setting (TEDS)
    - TEDS loading screen
  - Calibration (CALIBRATION)
    - Manual calibration (MANUAL CAL)
    - Test signal output(TEST SIGNAL OUT)
  - AQ-VU SETTING
    - AQ-VU SYNCRO
    - ADJUST TIME
  - IRIG/GPS SETTING

- FILE
  - Recording file (RECORDING FILE)
    - Media selection (DEVICE)
    - Directory name (DIRECTORY)
    - File name (FILE)
    - Comment (COMMENT)
  - Playback file (FILE OPEN)
    - Media selection
    - Directory name
    - File name
    - File information
    - Playback mode
  - Delete files (FILE DELETE)
  - Format the media (FORMAT)

- TRG
  - Trigger mode (MODE)
    - No triggers (NONE)
    - Trigger recording (TRIGGER)
      - Starting trigger (START CONDITION)
        - Level trigger (LEVEL)
        - External trigger (EXTERNAL)
        - Time-out trigger (TIMEOUT)
      - Pre-trigger setting (PRE TRG)
      - Stopping trigger (STOP CONDITION)
        - Level trigger (LEVEL)
        - External trigger (EXTERNAL)
        - Recording time (REC TIME)
      - Post-trigger setting (POST TRG)
      - Repetitions (REPEAT COUNT)
    - Interval recording (INTERVAL)
      - Starting time (START TIME)
      - Recording time (REC TIME)
      - Interval time (INTERVAL)
      - Repetitions (REPEAT COUNT)

- MISC
  - Set data shown on Home Screen (DISPLAY DATA)
  - Set number of channels shown with bar meters (DISPLAY CH)
  - Setting saving, loading and initialization (PARAMETER)
  - Speaker output setting (SPEAKER)
  - Fan activation (FAN)
  - Sampling notation setting (NOTATION)
  - Language setting (LANGUAGE)
  - Network settings (NETWORK)
  - Date and time settings (TIMESET)
  - Display adjustment (LCD)
  - Beep settings (BEEP)
    - Button operation sound (BUTTON BEEP)
    - Warning sound (WARNING BEEP)
  - Show version information (VERSION)

9. Troubleshooting

If any of these problems should occur, please check the following before requesting service.

Problem	Possible causes and responses
Power will not turn on	Is the power adaptor connected?
	Is the DC power supply voltage too low?
Number of recording channels is less than expected	Are all the power adaptors connected correctly?
	Are all the connection cables connected correctly?
RDX cartridge not recognized	If the media is not recognized immediately after the removal and insertion of an RDX cartridge, turn the WX-7000's power off and then on again.
"Inserted media is not supported." message appears	Is compatible media loaded in the WX-7000?
	Has the media been formatted by the WX-7000? If not, use the WX-7000 to format it.
	When formatting media for the first time, format it using the WX unit.
	Are you using media that has been confirmed to work with the WX-7000?
Cannot select the sampling frequency	Is it set to more channels than the supported by the recording media?
Main unit buttons do not function	Is the panel locked? If so, unlock it.
	Buttons are disabled during WX-Navi operation. If transmission with WX-Navi should be interrupted, for example, the use of buttons will become possible again after at least 3 minutes have passed.
WX Navi does not recognize the WX-7000	Are the LAN cables connected correctly?
	Are the IP address and subnet mask settings, for example, set correctly?
	Is it being blocked by the computer's firewall?
	Turn the WX-7000 power supply on and off again and then restart WX Navi.

If you are still unable to fix the problems after checking the above, please contact our service department.

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