

# SOUNDWARRIOR

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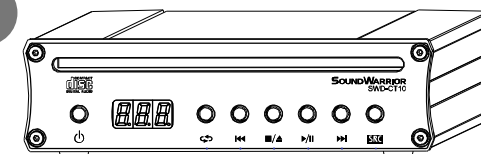
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# SOUNDWARRIOR

CD Transport with Sample Rate Converter

## SWD-CT10

# User Guide



Sound Warrior's CD Transport with Sample Rate Converter

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Thank you for purchasing SWD-CT10US, "CD Transport with Sample Rate Converter". **READ AND FOLLOW ALL SAFETY INSTRUCTIONS BEFORE USING THE PRODUCT. KEEP THE USER GUIDE WITH A WARRANTY CARD FOR FUTURE REFERENCE.**

### IMPORTANT:



- DO NOT INSERT DVD, CD WITH A STICKER/TAPE ATTACHED, AND NON-STANDARD CD SUCH AS 3-INCH CD, DUALDISC, BUSINESS CARD CD OR THE LIKE INTO THE DISK SLOT.
- USE ONLY CD THAT THE LABEL ON THE RIGHT IS ON.
- CD-R/CD-RW SHOULD BE FINALIZED WITH CD-DA FORMAT.

COMPACT  
disc  
DIGITAL AUDIO




## 1 IMPORTANT SAFEGUARDS

### 1-1 Safety Graphic Symbols







The following symbols are used to define the degree of danger when abused and misused the product.

	<b>WARNING</b>	.....	Negligence of the instructions may lead to mishandling that may cause death or serious injury.
	<b>CAUTION</b>	.....	Negligence of the instructions may lead to mishandling that may cause a minor injury, property or financial damage.

The following symbols are used to indicate the actions that should be followed.

	.....	This symbol indicates actions that call users' attention.
	.....	This symbol indicates prohibited actions that must not be performed.
	.....	This symbol indicates compulsory actions that must be performed.

### 1-2 WARNING

1-2-1		In the following cases, immediately turn off the power switch and disconnect the AC adapter from the power outlet. Then contact us for repair.		
		<ul style="list-style-type: none"> <li>● Smoke, strange odor or strange sound.</li> <li>● Damaged elements or cables.</li> <li>● Penetration of liquids or foreign objects, or the like.</li> </ul>		
		1-2-2		Do not prevent the product from releasing the heat by covering with a cloth, etc. Do not place the product in a stuffy room, narrow room or the like. This could result in fire.
				1-2-3
			If liquids or foreign objects should enter the product, immediately disconnect the AC adapter from the power outlet and contact us for repair.	
		1-2-4		Never disassemble and modify. Modification and/or disassembly of the product or accessories could result in fire or electrical shock. Contact us for repair.
1-2-5		Do not use except the supplied AC adapter.		
		Do not use over the rated voltage.		
1-2-6		Do not place anything on the product or cover it with a cloth, etc. Do not place anything on the cords or damage it. This could result in fire or electrical shock.		

## 8 WARRANTY INFORMATION

We offer a 1 year limited warranty for repair from the original purchase date. We will check if the failure is covered by the warranty with the information below. Prepare it and the warranty card, and contact us via [userinfo@shiroshita.com](mailto:userinfo@shiroshita.com).

- Name ●Email Address ●Postal Address ●Name of the Product(SWD-CT10US) ●Serial Number
- Situation and details when the failure occurred.

We also provide a repair estimate for out-of-warranty repair. Contact us via [userinfo@shiroshita.com](mailto:userinfo@shiroshita.com).

## 9 TECHNICAL SPECIFICATIONS

### General

※Design and specifications are subject to change without notice.

Power Supply	AC 100 - 240V 50/60Hz (AC adapter), DC12V (Main Unit)
Power Consumption	10W
Operating Temperature	0 - 40°C
External Dimensions	W145.4 × H40 × D165 mm (Protruding part not included)
Weight	Approx. 0.9kg

### Digital Output

Connector	TOS-Link Connector, RCA pin jack
Signal Standard	S/PDIF Linier PCM
Sampling Rate	44.1k / 48k / 88.2k / 96k / 176.4k / 192kHz
Quantization Bit Rate	16bit

### Word Clock Input

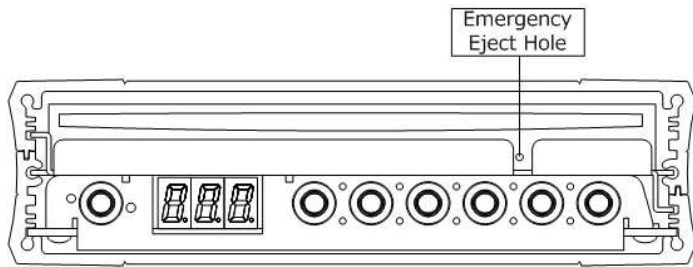
Connector	75Ω BNC jack
Clock Frequency	44.1k/48k/88.2k/96k/176.4k/192kHz
Input Level	5Vp-p (Internally terminated at 75Ω)


### Accessories


AC adapter ×1, Vertical text sheet ×1, Hex key ×1, Protective cushion ×4, User Guide ×1, Warranty Card ×1

**#5: Cannot Eject a Disk.**


Solution	
1 Use the "Emergency Eject Hole"	1-1 Turn off the SWD-CT10US and dismount the front panel.
	1-2 Insert and slightly push a stick with a diameter of about 1mm into the emergency eject hole. If it does not work, try it several times.  When it makes a sound, Turn on the power and the disk will be ejected.




**1-2-7**  Clean the power plug periodically with a soft and dry cloth. Accumulated dust could result in fire.


**1-2-8**  Do not touch the product, the connected devices, the connecting cords, the AC adapter, etc. during a lightning storm. This could result in electrical shock.



**1-3**  **CAUTION**


**1-3-1**  Do not place the product on an unstable surface. This could result in falling and cause an injury. Place the product away from walls and other devices to release heat sufficiently.


**1-3-2**  Do not place the product in the following places. This could result in fire or electrical shock.

- Highly humid or dusty places.
- Places with smoke or oily smoke. (A kitchen, a humidifier or the like)


**1-3-3**  Place the product vertically or horizontally on a stable surface.

**1-3-4**   Do not touch the AC adapter with a wet hand. This could result in electrical shock. Do not pull the cord when disconnected. Hold the plug and disconnect. Disconnect the AC adapter from the power outlet when not used for a long time.

**1-3-5**  Disconnect the AC adapter from the power outlet when cleaning. Use a dry cloth to clean the product. Do not use thinners, alcohol or the like.

**1-3-6**  Do not use a lens cleaner to the SWD-CT10US. Do not put foreign objects into the disk slot. This could result in malfunction.

**1-4**  **CAUTION for CD**

**1-4-1**  Use a compact disc (CD) with the logo on the left. CD-R/CD-RW is needed to be closed/finalized with CD-DA format.

**1-4-2** CD-R/CD-RW may not be loaded due to deterioration.

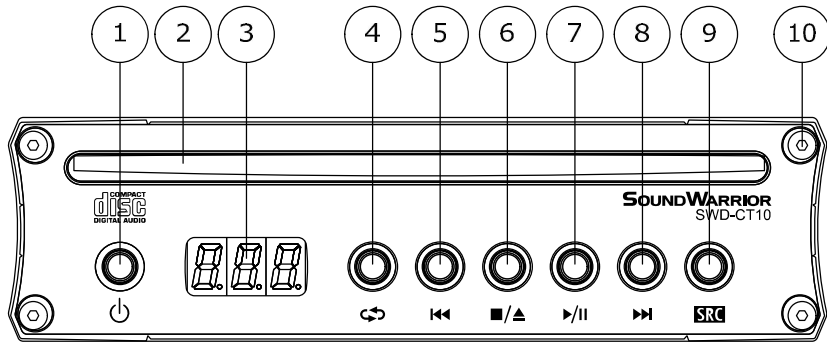
**1-4-3** CD may not be played back depending on characteristic of a disk or the way of recording. A copy controlled CD (CCCD) may not be played back.

**1-4-4** Do not insert DVD, CD with a sticker/tape, etc. is attached, non-standard CD such as 3-inch CD, DualDisc, business card CD, etc. This could result in malfunction, or a CD could get clogged in the disk slot.

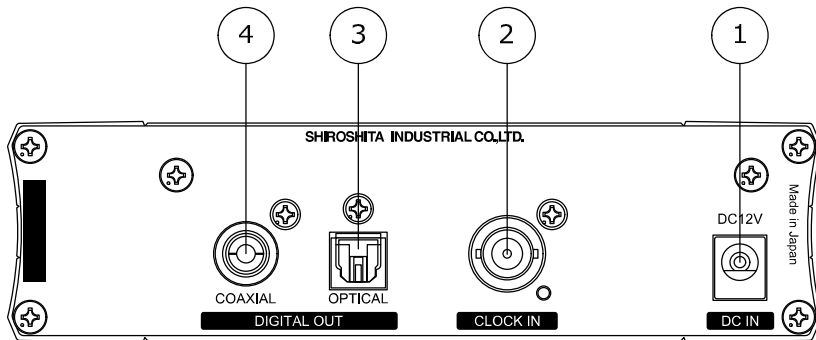
**1-4-5** Insert a CD after wiping it with a lens cleaner or a soft cloth when the CD is not clean. Do not use a spray for a vinyl record, antistatic agents, volatile solvents such as benzenes, thinners, etc.

## 2 PART NAMES AND FUNCTIONS

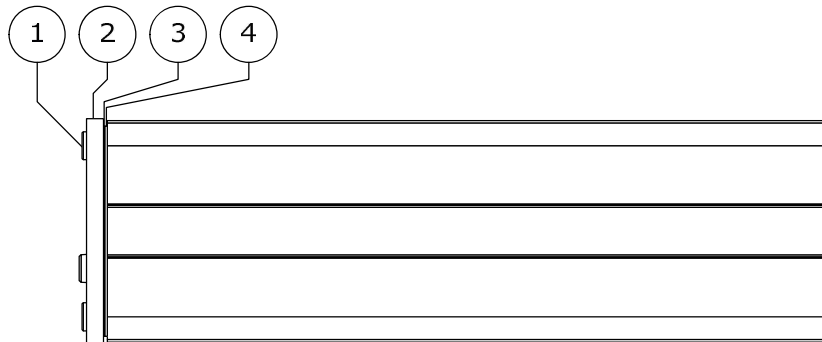
Front Panel



Rear Panel



Side View



## 7 TROUBLESHOOTING


### #1: Does not Turn on

Possible Factor	Solution
1 The AC adaptor is not connected properly.	1 Connect the AC adaptor properly.

### #2: Power Indicator Blinks Quickly

Possible Factor	Solution
1 Failure of word clock, CD drive, etc.	1 Disconnect the external word clock, and turn off and on the product. It is still not solved, ask us for repairs.

### #3: Does not Complete Loading a Disk.

Possible Factor	Solution
1 A disk is inserted upside down.	1 Insert the disk label side up.
2 A CD not for music is inserted.	2 Use a CD with the logo on the right. 
3 Damages and/or dirt on a disk.	3 Clean the dirt on the disk. Use another disk when the disk is damaged.
4 Quality of recording and/or deterioration of CD-R/CD-RW.	4 Due to quality of recording and/or deterioration of a disk, it may not load properly and/or play back properly. Use a reliable disk or recorder.  The SWD-CT10US is equipped with a slot loading drive. If a disk is deteriorated, it may not play back well with a slot loading drive compare to a tray loading drive.

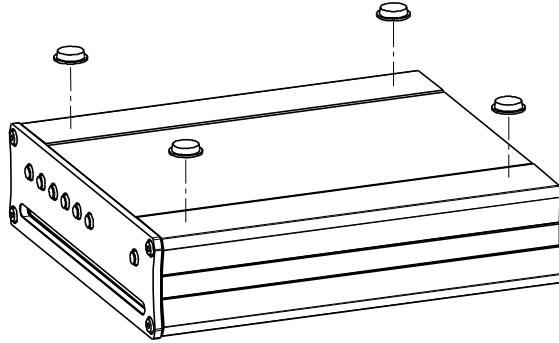
### #4: No Sound

Possible Factor	Solution
1 Settings and/or connection of connected devices are inappropriate.	1 Check the settings and/or connection of a connected D/A converter, etc.
2 Cables are not connected properly.	2 Check connection of a coaxial/optical cable. Also check if they are not damaged or broken.
3 Damages and/or dirt on a disk.	3 Clean the dirt on the disk. Use another disk when the disk is damaged.
4 Word clock is inappropriate.	4 Check if frequency of word clock is appropriate when a clock generator is connected. When clocked with a D/A converter, same clock should be input to all of the devices.

## 6 CUSTOMIZATION

### 6-1 Attaching Protective Cushions

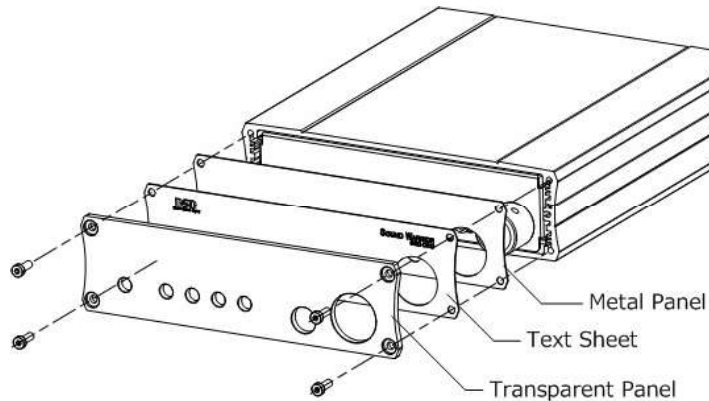
Attach the supplied protective cushions on the bottom surface of the SWD-CT10US if need be.



### 6-2 Changing Design of Front Panel

Enjoy customizing the front panel by changing the sheet vertically/horizontally or inserting a self-build sheet between the text sheet and the metal panel. The fixation screws can be unbraced by the supplied hex wrench.

- ※ When changing the sheet, take care to prevent foreign objects from entering into the SWD-CT10US.
- ※ Remove protective seals both sides of the supplied vertical text sheet before using the sheet.



### 2-1 Front Panel Functions

①		Power Switch Power Indicator	Used to turn on/off the power. This lights up while the power is on.
②		Disk Slot	Used to insert a CD.
③		Display	Used to show a variety of information.
④		MODE switch Mode Indicator	Used to switch Repeat /Random Playback mode. This lights up while Repeat/Random Playback mode is selected.
⑤		REW Switch REW Indicator	Used to skip to a previous track. Press and hold to rewind a track. This blinks while holding down the switch.
⑥		STOP/EJECT Switch STOP/EJECT Indicator	Used to stop a track during playback. Used to eject a disk when a track is stopped. This lights up while a track is stopped.
⑦		PLAY/PAUSE Switch PLAY/PAUSE Indicator	Used to play back a track when a track is stopped/paused. Used to pause a track during playback. This lights up during playback. This blinks when a track is paused.
⑧		FWD Switch FWD Indicator	Used to skip to a next track. Press and hold the switch to fast-forward a track. This blinks while holding down the switch.
⑨		SRC Switch SRC Indicator	Used to change sampling rate. This lights up when word clock is synchronized. This blinks when word clock is inappropriate.

### 2-2 Rear Panel Functions

①	DC IN	DC12V	Power Input	Used to input the power source.
②	CLOCK IN	WORD CLOCK	Word Clock Input	Used to input word clock signals.
③	DIGITAL OUT	OPTICAL	Optical Output	Used to output optical signals.
④	"	COAXIAL	Coaxial output	Used to output coaxial signals.

### 2-3 Side View Functions

①	Fixation Screws	These fix the front panel. Use the supplied hex key to detach the panel.
②	Transparent Panel	
③	Text Sheet	Used for either vertical/horizontal setup. The horizontal sheet is set as default.
④	Metal Panel	

### 3 CONNECTIONS

Please note that audio cables are not supplied.

#### 3-1 DIGITAL OUT: Connecting Coaxial Output

Used to output a digital audio signal (S/PDIF).  
Connect a coaxial input of a D/A converter and the SWD-CT10US with a coaxial cable.

#### 3-2 DIGITAL OUT: Connecting Optical Output

Used to output a digital audio signal (S/PDIF).  
Connect an optical input of a D/A converter and the SWD-CT10US with an optical cable (Square TOS-Link).

#### 3-3 CLOCK IN: Connecting Word Clock Input

Used to input an external word clock.  
Connect a word clock output of a clock generator and the SWD-CT10US with BNC cable (75Ω). Please see "" for a usable external clock.

#### 3-4 DC IN: Connecting Power Source

Used to input power supply.  
Connect the supplied AC adapter and the SWD-CT10US.

### 5 CONNECTING EXTERNAL CLOCK

#### 5-1 Connecting External Clock

Enjoy hi-fi audio by inputting a word clock from a clock generator.

##### 5-1-1 Inputting clock signals

Input a word clock from a clock generator to the CLOCK IN. The SRC indicator lights up when appropriate clock signals are detected.

It outputs digital audio signals which synchronized to word clock while word clock is input. The sampling rate becomes equivalent to that of input word clock.

When clock signals are inappropriate, the SRC indicator blinks quickly and it stops inputting digital audio signals.

##### 5-1-2 Displaying Word Clock

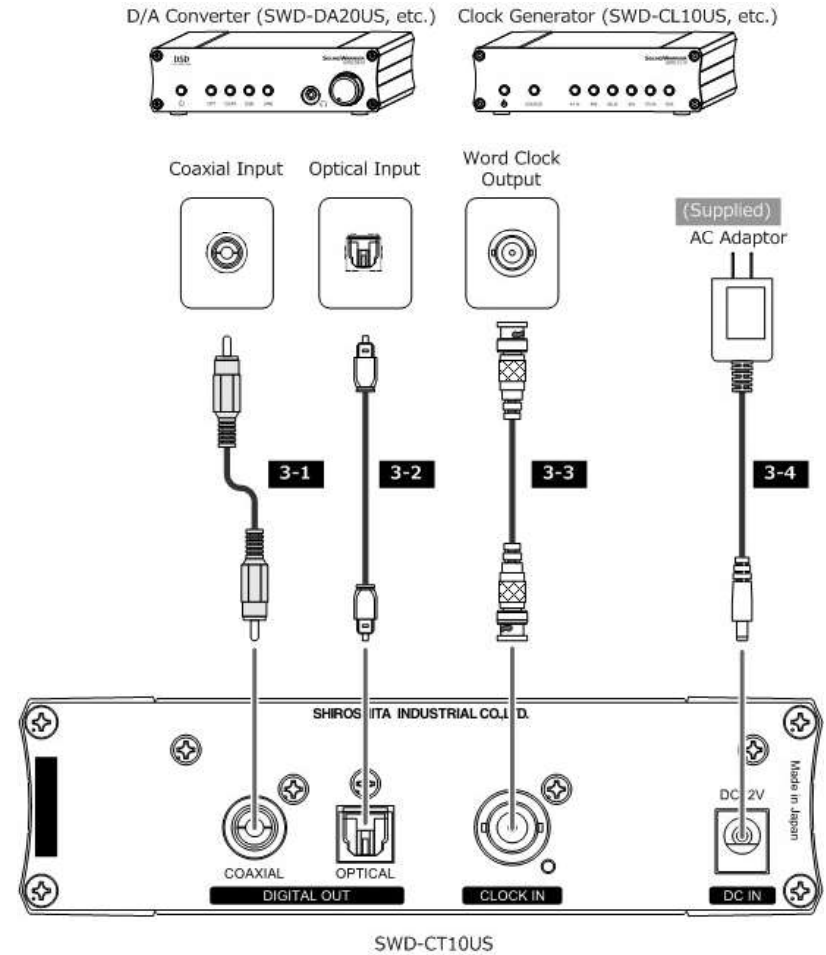
It displays frequency of input word clock when the SRC Switch is pressed.

Display	44.1	(44.1)	Word Clock Input & Output Sampling rate: 44.1kHz
	48	(48)	Word Clock Input & Output Sampling rate: 48kHz
	88.2	(88.2)	Word Clock Input & Output Sampling rate: 88.2kHz
	96	(96)	Word Clock Input & Output Sampling rate: 96kHz
	176	(176.)	Word Clock Input & Output Sampling rate: 176.4kHz
	192	(192)	Word Clock Input & Output Sampling rate: 192kHz
	oth	(oth)	Word Clock Input: Inappropriate, Output: Halt

## 4-7 Up-sampling

By pressing the SRC switch **SRC**, it indicates a current sampling rate for about two seconds. When pressed again, it switches sampling rate.


Display	6hr	(thr.)	Through Output: No Up-sampling performed.
	44.1	(44.1)	Sampling rate: 44.1kHz
	48	(48)	Sampling rate: 48kHz
	88.2	(88.2)	Sampling rate: 88.2kHz
	96	(96)	Sampling rate: 96kHz
	176	(176.)	Sampling rate: 176.4kHz
	192	(192)	Sampling rate: 192kHz



## 4 HOW TO USE

### 4-1 Turning on / Inserting a CD

#### 1. Turning on the SWD-CT10US

Press the Power Switch  to turn on the SWD-CT10US. The current state of playback mode and sampling rate is shown on the Display in turn.


#### 2. Inserting a CD

After the Display turns off, insert a CD with a label up into the disk slot. Push the CD lightly until it is automatically drawn into the disk slot.

※ Do not forcibly insert a CD when the SWD-CT10US is off.


The SWD-CT10US is equipped with a slot loading drive. Please note that a slot loading drive may have trouble loading a deteriorated CD-R compare to a tray loading drive. Also, operating sound tends to be bigger.

After inserting a CD, it starts loading. Wait until it finishes loading.

Display  (---) Indicates that it is loading a disk.

### 4-2 Playback / Stop



#### ● Automatic Playback


After loading a CD, a total number of tracks are displayed on the Display. Then the PLAY/PAUSE Indicator  lights up, and it starts playback automatically.

※ When failed loading, a disk will be ejected automatically.



※ When the SWD-CT10US is turned on with a disk remains inserted, it does not start playback automatically.



#### ● Manual Playback

By pressing the PLAY/PAUSE Switch  , the PLAY/PAUSE Indicator  lights up, and it starts playback.



Display  (t.01) Indicates a track number.

#### ● Stop


By pressing the STOP / EJECT Switch  during playback, the STOP / EJECT indicator  lights up, and it stops playback. The Display indicates playback was stopped and then the total number of tracks.






Display  (t.--) Indicates that playback was stopped.  
 ( 12) Indicates the total number of tracks.

### 4-3 Ejecting a Disk


By pressing the STOP/EJECT Switch  during it stopped, the STOP/EJECT indicator  turns off and it ejects a disk.


### 4-4 Repeat Playback / Random Playback

By pressing the MODE switch  , it indicates a current playback mode for about two seconds. It switches playback mode by pressing the MODE switch in turn.


Display		(oFF)	<b>OFF:</b> Plays back from the track 1 and stops after the last track.
		(rP.d)	<b>Repeat Disk:</b> Plays back all tracks in order and repeat them.
		(rP.t)	<b>Repeat Track:</b> Repeats one track.
		(rd.1)	<b>Random One Time Playback:</b> Plays back a disk once randomly and stops after playing back all tracks.
		(rd.r)	<b>Random Repeat:</b> Repeats playing back randomly.

### 4-5 Skipping Track

By pressing the REW Switch  , it goes back to the beginning of the current track. When pressed again, it goes back to the beginning of the previous track.

By pressing the FWD Switch  , it goes forward to the beginning of the next track. (State of Playback / Stop / Pause remains the same.)

### 4-6 Search Playback

By holding down the REW Switch  during a track is played back/paused, it rewinds a track.

By holding down the FWD Switch  , it fast-forwards a track. (State of Playback/Pause remains the same.)