



VERMEER AUDIO

TWO

**Universal Control Center**

**User's Guide**

---

# Contents

---

---

<b>Introduction</b> .....	<b>3</b>
<b>Instructions concerning security and environment</b> .....	<b>4</b>
<b>Accessories</b> .....	<b>5</b>
<b>Front panel</b> .....	<b>6</b>
<b>Rear panel</b> .....	<b>7</b>
DIGITAL INPUTS .....	7
DIGITAL OUTPUT.....	7
LAN / NETWORK CONNECTOR.....	7
UPGRADE TERMINAL.....	7
ANALOG INPUTS .....	8
ANALOG OUTPUTS.....	8
POWER SUPPLY .....	8
<b>Remote control</b> .....	<b>9</b>
<b>Connections</b> .....	<b>10</b>
INPUTS .....	11
OUTPUTS .....	13
<b>Before using the player</b> .....	<b>14</b>
BURN IN .....	14
TUBE LIFETIME.....	14
REPLACING THE TUBES .....	14
WARRANTY.....	14
<b>Basic Operations</b> .....	<b>15</b>
POWERING UP .....	15
<b>Upgrades</b> .....	<b>15</b>
UPGRADING USB TERMINAL.....	15
<b>Setup menu</b> .....	<b>16</b>
NAVIGATION .....	16
BALANCE .....	16
OUTPUT LEVEL.....	16
PHASE.....	17
DIGITAL OUTPUT.....	17
EXTERNAL PROCESSOR.....	17
<b>Specifications</b> .....	<b>18</b>
TWO UCC LAN / NETWORK VERSION .....	18
<b>Warranty</b> .....	<b>20</b>

# TWO

**At Vermeer Audio we thank you for purchasing our TWO Universal Control Center.**

Passion for music is the only reason why Vermeer Audio exists.

Our team has been developing and manufacturing some of the best audiophile CD players and DAC's in the world, without compromise. Our philosophy is to reproduce the most natural and realistic sound, bringing the emotion out of the music.

To do so, Vermeer Audio has developed a unique concept of Hybrid circuitry featuring the most accurate digital treatment using an exclusive 32 bits/ 384 Khz re-sampling technology and subminiature tube output stage.

This exclusive process represents the missing links between the analogue and digital worlds. The advantages are obvious once experienced.

TWO Music Center is our own 'interpretation' of the ultimate source, using not only the latest technology available in the digital domain, but also the synthesis of all our technical know-how accumulated over 18 years of experience, testing and listening.

We wish you unforgettable moments of listening pleasure.

## **Instructions concerning security and environment**

- Place the T<sub>W</sub>O on a flat, hard and stable surface.
- Never close the rear and beneath openings and allow a minimum 2 to 3cm (1 to 2 inches) free space for adequate ventilation.
- Always keep the unit dry to avoid risk of electric shock.
- Do not expose your Universal Control Center to extreme of temperature or humidity.
- To prevent fire, shock hazard or damages to components, this unit should only be opened by qualified Vermeer Audio registered service personnel.

### **Removing the external case and damaging the warranty seal will result in cancellation of the warranty**

- Clean the chassis and faceplate with soft cloth lightly moistened. Never use abrasive cloth or solvent, especially the blue window of the front panel.
- Keep the original packing box and material in case you need to move your player.
- This Vermeer Audio product is subject to Directive 2002 / 96 / EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and should not be disposed of as unsorted municipal waste. Please utilize your local WEEE collection facilities in the disposition of this product and otherwise observe all applicable requirements. This will help protect health and environment.

## **Accessories**

---

---

Check that the following items are included when opening the box:

- Aluminum and Glass Remote control
- 2 x CR2032 Lithium 3V batteries for the remote control
- Power cord
- USB Key including user manual and drivers for Windows computers.

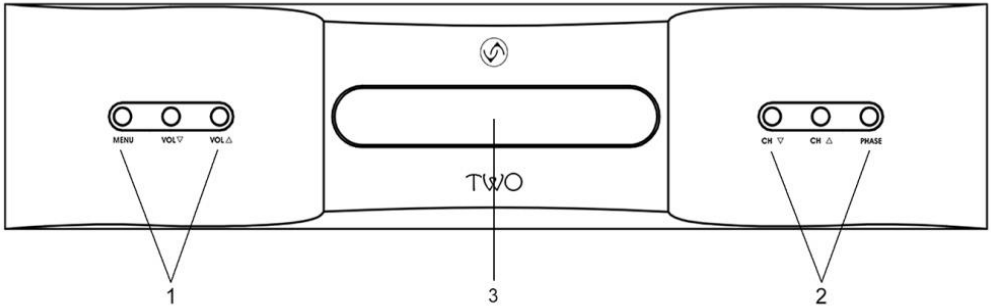
### **Important information about USB contents:**

You must download the contents of the USB on your computer or on a Hard Disk Drive, and then keep the key for future upgrades of your T<sub>W</sub>O.

# Front panel

---

---



## ZONE 1:

- **Menu:** Enter / Exit setup Menu
- **Vol ▼:** reduce sound level (Function in setup Menu)
- **Vol ▲:** increase sound level (Function in setup Menu)

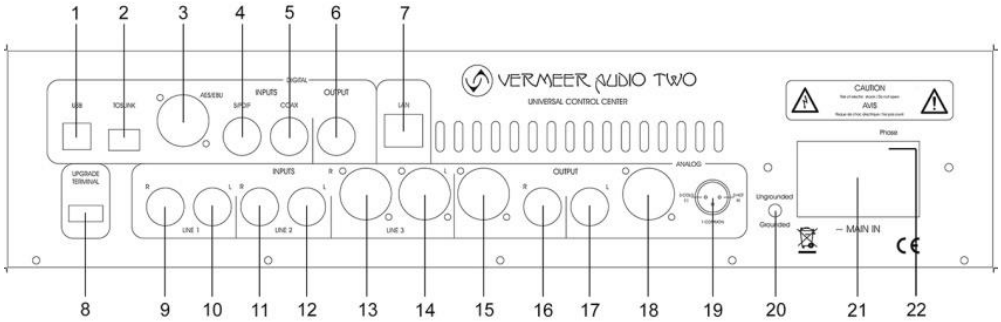
## ZONE 2:

- **Ch ▼:** select previous digital or analog input (Function in setup Menu)
- **Ch ▲:** select next digital or analog input (Function in setup Menu)
- **Phase:** select in Phase or inverted Phase

## ZONE 3:

- **Blue Display** with infra-red sensor located on the Left of the window

# Rear panel



## DIGITAL INPUTS

- 1: USB for digital files Up to 192 Khz and DSD 64
- 2: Toslink Optical
- 3: AES/EBU
- 4: S/PDIF BNC
- 5: S/PDIF COAX RCA

## DIGITAL OUTPUT

- 6: BNC Digital output

## LAN / NETWORK CONNECTOR

- 7: RJ 45 socket (only on TWO Network version)

## UPGRADE TERMINAL

- 8: USB 2 for software updating (NB: do not connect to a computer or a media server)

## ANALOG INPUTS

- 9/10: Line 1 Cinch/Rca R/L input
- 11/12: Line 2 Cinch/Rca R/L input
- 13/14: Line 3 Balanced XLR R/L input

## **Rear panel (contd.)**

---

---

### **ANALOG OUTPUTS**

15/18: Balanced XLR R/L Output

16/17: Cinch/Rca R/L Output

***Beware: never connect XLR/Cinch output at the same time.***

19: Information about XLR sockets wiring

### **POWER SUPPLY**

20: Ground Switch: allows connecting ground to earth (grounded) or to float.

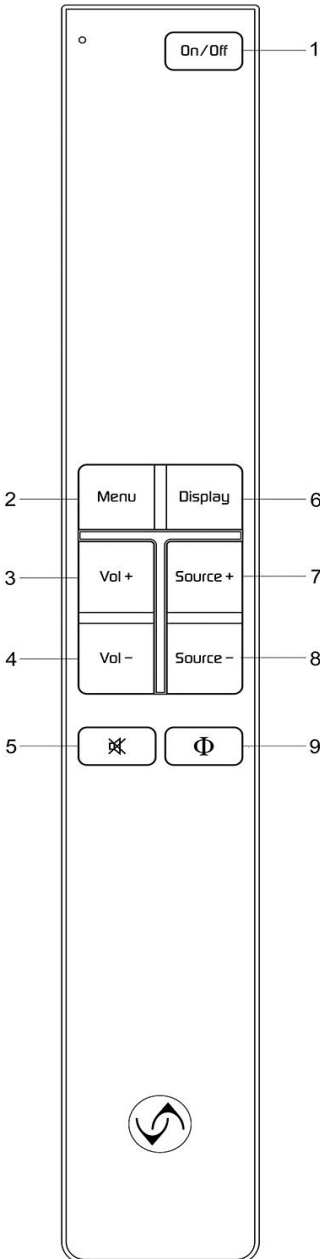
21: Power supply connector and main power switch.

22: Phase indicator / indication of the phase pin on the power supply connector.



# Remote Control

---



- 1: On / Stand by  
Confirmation for personal setup**
- 2: Enter / Exit Setup Menu**
- 3: Volume adjustment  
Navigation in setup Menu**
- 4: Volume adjustment  
Navigation in setup Menu**
- 5: Mute on / off**
- 6: Dimmer to select brightness of display between 100% to full black**
- 7: Select next digital or analog input  
Navigation in setup Menu**
- 8: Select previous digital or analog input  
Navigation in setup Menu**
- 9: Select normal (0) or inverted (180) digital absolute phase**

## Connections

---

---

### **IMPORTANT:**

***Ensure all units are switched off when connecting them to the Universal Control Center.***

Connecting with power "ON" could lead to irreversible damages which would not be covered by warranty. Check that the main switch at the back of the T<sub>W</sub>O is set to 0.

Plug the power cord in the connector **21**.

The PIN below the "PHASE" indication (**22**) indicates the phase of the power supply

### **IMPORTANT:**

***To avoid any damage to the T<sub>W</sub>O, it is strongly required to turn it on before any other device in your system (amplifier or preamplifier) and to turn it off last.***

## Connections (contd.)

---

---

### INPUTS

TWO Universal Control Center is equipped with various types of inputs to allow you to use any kind of digital sources (DVD player, CD player, computer, music server, etc.) and analog audio source (phono stage, preamp, tuner). There are 5 digital inputs (USB, Toslink, AES/EBU, S/PDIF, Coax) and 3 analog (2 x RCA, XLR).

#### ➤ **Digital inputs 1 to 5**

5 digital inputs: USB, TOSLINK, AES/EBU, S/PDIF and COAX

**The USB input has been specially designed by Vermeer Audio. This is an Asynchronous mode USB, that allows you to read all digital files (up to 24 Bits / 192 kHz) in native format without any jitter alteration or sample rate's downgrade.**

**DSD 64 files can be read by USB input, but also by AES/EBU and SPDIF.**

#### **IMPORTANT:**

***For natives files up to 32 bits / 384 Khz and DSD Up to 11.28 Mhz use the LAN input (LAN Version)***

#### ➤ **Analog inputs 9 to 14**

3 analog inputs allow you to connect your favourite phono preamp, or analog tuner, to TWO Universal Control Center.

You can enjoy and so to take advantage completely of the unique tube output stage as well as the volume control.

## **Connections (contd.)**

---

---

### **IMPORTANT:**

- *Always REDUCE the volume control when switching between Digital and Analog inputs*
- *Do not connect your LP pickup cartridge to the analog input WITHOUT a Phono/Riaa stage*
- *Take care of the level differences between different sources*

## Connections (contd.)

---

---

### OUTPUTS

#### ➤ **Balanced output 15 / 18**

The balanced outputs should give you the best sound quality. Connect to your preamp / power amp (CD/line input) with XLR connectors.

Make sure that the left output is connected to the left input and the right output to the right input and control the wiring of the XLR connector as indicated on the picture **19** on the rear plate.

#### ➤ **Unbalanced output 16/17**

If your preamp / power amp does not have balanced inputs, use the Unbalanced Outputs instead. Use a RCA type cable to connect your player to the preamp / amp (CD/line input).

Make sure that the left output is connected to the left input and the right output to the right input.

**Never connect the T&O output to a PHONO input!**

#### ➤ **Digital output 6**

The T&O Universal Control Center has a digital output that will allow you to use the digital signal coming through one of the digital inputs.

Use a BNC cable and connect it to the digital input of your device.

Then select on the "Setup Menu" the digital source.

## Before using the player

---

---

### BURN IN

The T<sub>W</sub>O requires about 50 hours of burn-in time before it reaches its best performance. Once burnt in, **it will require 30 min. to an hour** to reach its best performance after switching the unit on.

**We advise you turn the unit OFF if you don't plan to use your player for more than 24 hours.**

You can place your unit in STAND BY mode to keep the whole signal path warm for frequent listening section during the day.

***IMPORTANT: For energy saving reasons and to improve longevity of your Control Center, we recommend turning it OFF if you don't plan on using it for several hours. If this is not the case, you can use the standby mode.***

### TUBE LIFETIME

The tube lifetime is given for more than 10.000 hours. According to our own experience with the use of these tubes, you can expect a minimum of 4 to 5 years lifetime.

### REPLACING THE TUBES

Servicing should **only** be performed by qualified technicians appointed by Vermeer Audio.

Please contact your local dealer for handling.

### WARRANTY

Warranty will be cancelled if the player is opened without any formal authorization by Vermeer Audio.

See the Warranty information at the end of the notice.

## **Basic operations**

---

---

### **POWERING UP**

Once all connections are done, switch the main power located on the back panel on “I” or press “on” your remote control to turn the unit on, if the unit was on standby mode.

## **Upgrades**

---

---

### **UPGRADING USB TERMINAL**

To upgrade your TWO Universal Control Center use the Vermeer Audio USB.

Further information shall be available on our Web Site.

## Setup menu

---

---

The setup menu will let you select various parameters that you can adapt to your needs.

### **IMPORTANT NOTICE:**

***Your setup will be automatically saved when you press the “On/Off” (Stand By) button on the remote once you are done listening.***

### **NAVIGATION**

1. Press “Menu” on your remote control to access the main setup menu;
2. Select a function with the “Vol +” and “Vol -” keys;
3. Press “Display” to enter the sub menu;
4. Select your setting with the “Source +” and “Source -” keys;
5. Press “Display” to confirm your selection;
6. Press “Menu” to exit to the main menu.

Once in the menu, the functions will be displayed in the following order: Balance → Output Level → Phase → Digital Output → External Processor.

### **BALANCE**

Setup of left-right balance;

The balance operation is NOT available when the output level is on the fixed position. (2/3/4 Volts).

### **OUTPUT LEVEL**

Output level selection: 2v▶3v▶4v Fixed, or ▶ Variable

TWO Universal Control Center is equipped with tube output stage together with a volume and balance



control, allowing you to plug it directly to your power amplifier. The volume is controlled in the analog domain by a very high quality attenuation ladder. There is no loss of information or any compression.

However, if you wish to deactivate this function to use a pre amplifier, you can select a fixed output stage of 2, 3 or 4 Volts. Please consult the user's manual of your preamplifier to harmonize the output level of the T&O Control Center with the input level of the preamplifier.

### **PHASE**

This will let you choose between a normal absolute phase, and a digital inverted phase. This change will be done in the digital domain.

### **DIGITAL OUTPUT**

This function let you select the digital source that will be available through the BNC digital output.

For instance, if you want to use the Toslink, select TOS. Selection will appear in the following order: USB>TOS>AES>BNC>RCA

### **EXTERNAL PROCESSOR**

Input selection for an external processor: None>RCA>BNC>AES> TOS>USB

This function allows you to connect an external processor (Room Corrector, or DSP for instance).

To do so, connect the external processor on the digital output of the T&O Universal Control Center and then re-enter the signal through one of the digital inputs of the T&O. Then, select the appropriate input.

## Specifications

---

---

Digital to analog converter, analog and digital inputs, digital output, variable and fixed analog outputs:

- 32/384 Vermeer Audio Re sampling module
- Output tube with volume control
- Asynchronous USB inputs
- Analog and digital inputs
- DSD 64 by USB input (DoP) and S/PDIF, AES/EBU inputs
- Analog outputs: Single-ended RCA-Balanced XLR
- Digital output: BNC
- Analog inputs: Single-ended RCA-Balanced XLR
- Digital inputs: USB-TOSLINK-AES/EBU-S/PDIF-COAX
- Frequency range: 3Hz-48kHz(-1dB) with DSD or 24/96 kHz input
- Output voltage: 2, 3 or 4V RMS in fixed output mode. Up to 7V RMS in variable output mode
- Output impedance: 100 Ohms
- Signal to noise ratio: 129 dB
- Total harmonic distortion: < 0,1%

### **TWO UCC LAN / NETWORK VERSION**

- LAN/RJ45 Connector for Network Streaming with bit perfect, jitter free transmission.
- PCM Data supported up to 32/384 kHz and DSD up to 11.28 Mhz
- Tablet/Smartphone user interface by LAN

## **Specifications (contd.)**

---

---

- Power supply: 100-240 VAC, 50/60 Hz
- Weight: App. 16 kg
- Size (WxDxH): 44,5 x 44,5 x 12,5 cm
- Packaged Size : 75 X 62 X 26.5 cm
- Total Weight: 18 kg

# Warranty

---

---

## VERMEER AUDIO LIMITED WARRANTY

VERMEER AUDIO SAS guarantees its new products against any defects in workmanship and material according to certain detailed conditions below:

### TERMS AND CONDITIONS OF THE WARRANTY

VERMEER AUDIO warranty covers defects in workmanship and material for a period of 36 months from the date of purchase from one of our authorized resellers or directly from the Vermeer Audio company itself.

This warranty is limited to 90 days for the tubes.

The software and in general all malfunctions related to the existing software useful for integrating a private or public computer network is not subject to any guarantee.

The validation of this warranty will be effective only after the customer registers its unit at the following address email: [info@vermeeraudio.com](mailto:info@vermeeraudio.com). Vermeer Audio will confirm the warranty after getting all the following information: Name and address, Email of the customer, serial number of the unit, date of purchase, Name, address of the retailer. All those information will necessarily have to be communicated to validate the warranty.

This registration must be made within thirty (30) days from the date of the purchase.

In case of purchase a Vermeer Audio Unit with an unauthorized reseller by Vermeer Audio Company, no warranty can be granted.

## **Warranty (contd.)**

---

---

The warranty applies to the first buyer and is not transferable.

During this warranty period, Vermeer Audio will assure at its entire discretion the repair or the replacement of the defective device including parts and labor necessary for the repair work.

### **WARRANTY LIMITATIONS**

VERMEER AUDIO does not guarantee the events and the following situations:

- Any device of which the warranty seal would have been damaged and in a general way any device having been opened by another person than a reseller authorized by Vermeer Audio;
- Any device which would not be held with its invoice of origin in the name of the buyer;
- Natural wear and in a general way the deterioration of the device cabinet by external elements;
- For damage arising from inappropriate use, i.e. a professional use or within an environment open to the public;
- Any device that would have been modified even by an authorized Vermeer Audio agent;
- Any device for which the serial number, or circuits boards' serial numbers inside the device, would have been damaged, modified or would not correspond to a registered serial number by Vermeer Audio;

## **Warranty (contd.)**

---

---

- Any device that would have been installed with non-compliant electrical installation including the no earthing or that would have been connected to other devices upstream or downstream with no earthing;
- Any device that would be returned without its original packaging;
- Our warranty does not apply to the transport fees or transport packing that shall be borne by the owner of the device;

### **SERIAL NUMBER AND WARRANTY SEAL**

Vermeer Audio devices are protected by a warranty seal which is self-destroying at the first opening of the cabinet. The warranty will automatically become void if the warranty seal is damaged.

To avoid any counterfeiting, the serial numbers correspond to a random series. None of our serial numbers will allow for the type of device or the date of manufacture to be determined.

### **GENERAL USE OF DEVICES AND IMPLEMENTATION OF WARRANTY**

- Electric power supply voltage between 100 and 240 volts, 50 or 60 Hz
- The ambient temperature of use has to be between 46°F (8°C) and 104°F (40°C)
- The user will have to avoid any direct exposure to sunlight, avoid to place the device beside a heater or in any case a source of heat as well as any wet

## **Warranty (contd.)**

---

---

or salt environment (boat) either a smoke-filled room or badly-ventilated.

- In case of breakdown of your device, you necessarily have to get in touch with your Vermeer Audio retailer for a diagnosis and for assistance in handling the warranty.

### **CLAIMS AND LITIGATION**

Any claim or dispute will fall within the jurisdiction of the commercial court of Lyon, France.

VERMEER AUDIO SAS  
RCS Lyon 807 985 528

***Names and logo from Vermeer Audio and Audio Aero are the property of Vermeer Audio SAS***