



The BRAVURA Electrostatic Headphone System

USER MANUAL

July 2021 | Version 1.0



BRAVURA



BRAVURA BLACK EDITION

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REVISION HISTORY

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TRANSLATED WARNING AND CAUTION MESSAGES

The following caution statements, warning conventions, and warning messages apply to the Sonoma Model One (M1) Amp and BRAVURA Headphone.



Warning Symbol



Hazard Symbol



Caution Symbol

BEFORE OPERATION PLEASE READ THESE INSTRUCTIONS



Warning! Read and follow all warning notices and instructions marked on the product or included in the documentation.

Avertissement! Lisez et conformez-vous à tous les avis et instructions d'avertissement indiqués sur le produit ou dans la documentation.

Warnung! Lesen und befolgen Sie die Warnhinweise und Anweisungen, die auf dem Produkt angebracht oder in der Dokumentation enthalten sind.

¡Advertencia! Lea y siga todas las instrucciones y advertencias marcadas en el producto o incluidas en la documentación.

Aviso! Leia e siga todos os avisos e instruções assinalados no produto ou incluídos na documentação.

Avviso! Leggere e seguire tutti gli avvisi e le istruzioni presenti sul prodotto o inclusi nella documentazione.



Warning! Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Avertissement! Ne bloquez aucune ouverture de ventilation. Suivez les instructions du fabricant lors de l'installation.

Warnung! Die Lüftungsöffnungen dürfen nicht blockiert werden. Nur gemäß den Anweisungen des Herstellers installieren.

¡Advertencia! No bloquee ninguna de las aberturas de la ventilación. Instale de acuerdo con las instrucciones del fabricante.

Aviso! Não obstrua nenhuma das aberturas de ventilação. Instale de acordo com as instruções do fabricante.

Avviso! Non ostruire le aperture di ventilazione. Installare in conformità con le istruzioni del fornitore.



Warning! Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Avertissement! N'installez pas l'appareil près d'une source de chaleur telle que des radiateurs, des bouches d'air de chauffage, des fourneaux ou d'autres appareils (amplificateurs compris) qui produisent de la chaleur.

Warnung! Nicht in der Nähe von Wärmequellen wie Heizkörpern, Heizregistern, Öfen oder anderen Wärme erzeugenden Geräten (einschließlich Verstärkern) aufstellen.

¡Advertencia! No instale cerca de fuentes de calor tales como radiadores, registros de calor, estufas u otros aparatos (incluidos amplificadores) que generan calor.

Aviso! Não instale perto de nenhuma fonte de calor tal como radiadores, saídas de calor, fogões ou outros aparelhos (incluindo amplificadores) que produzam calor.

Avviso! Non installare vicino a fonti di calore come termosifoni, diffusori di aria calda, stufe o altri apparecchi (amplificatori compresi) che emettono calore.



Warning! Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Avertissement! La sécurité de la prise polarisée ou de la prise de type mise à la terre ne doit en aucun cas être empêchée de fonctionner. Une prise polarisée a deux broches, l'une étant plus large que l'autre. Une prise de type mise à la terre a deux broches et une troisième broche pour la mise à la terre. La broche large ou la troisième broche sont fournies pour votre sécurité. Si la prise fournie ne s'insère pas dans votre prise femelle, consultez un électricien pour le remplacement de la prise femelle obsolète.

Warnung! Der Sicherheitszweck des gepolten bzw. Schukosteckers ist zu berücksichtigen. Ein gepolter Stecker verfügt über zwei Pole, von denen einer breiter als der andere ist. Ein Schukostecker verfügt neben den zwei Polen noch über einen dritten Pol zur Erdung. Der breite Pol bzw. der Erdungspol dienen der Sicherheit. Wenn der zur Verfügung gestellte Steckernicht in Ihren Anschluss passt, konsultieren Sie einen Elektriker, um den veralteten Anschluss zu ersetzen.

¡Advertencia! No eche por tierra la finalidad del tipo de enchufe polarizado con conexión a tierra. Un enchufe polarizado tiene dos espigas, una más ancha que la otra. Un enchufe con conexión a tierra tiene dos espigas iguales y una tercera espiga que sirve para la conexión a tierra. La espiga ancha, o la tercera espiga, sirven para su seguridad. Si el enchufe suministrado no encaja en el tomacorriente, consulte con un electricista para reemplazar el tomacorriente obsoleto.

Aviso! Não anule a finalidade da segurança da ficha polarizada ou do tipo ligação terra. Uma ficha polarizada tem duas lâminas sendo uma mais larga do que a outra. Uma ficha do tipo de ligação à terra tem duas lâminas e um terceiro terminal de ligação à terra. A lâmina larga ou o terceiro terminal são fornecidos para sua segurança. Se a ficha fornecida não couber na sua tomada, consulte um electricista para a substituição da tomada obsoleta.

Avviso! Non compromettere la sicurezza della spina polarizzata o con messa a terra. Una spinapolarizzata ha due spinotti, di cui uno più largo. Una spina con messa a terra ha due spinotti e un terzo polo per la messa a terra. Lo spinotto largo o il terzo polo sono forniti per motivi di sicurezza. Se la spina fornita non si inserisce nella presa di corrente, contattare un elettricista per la sostituzione della presa obsoleta.



Warning! Since the Mains plug is used as the disconnection for the device, it must remain readily accessible and operable.

Avertissement! Puisque la prise principale est utilisée pour débrancher l'appareil, elle doit rester aisément accessible et fonctionnelle.

Warnung! Da der Netzstecker als Trennvorrichtung dient, muss er stets zugänglich und funktionsfähig sein.

¡Advertencia! Puesto que el enchufe de la red eléctrica se utiliza como dispositivo de desconexión, debe seguir siendo fácilmente accesible y operable.

Aviso! Dado que a ficha principal é utilizada como a desconexão para o dispositivo, esta deve manter-se prontamente acessível e funcional.

Avviso! Poiché il cavo di alimentazione viene usato come dispositivo di sconnessione, deve rimanere prontamente accessibile e operabile.



Warning! Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the device.

Avertissement! Protégez le cordon d'alimentation pour que l'on ne marche pas dessus ou qu'on le pince, en particulier au niveau des prises mâles, des réceptacles de convenance, et à l'endroit où il sort de l'appareil.

Warnung! Vermeiden Sie, dass auf das Netzkabel getreten oder das Kabel geknickt wird, insbesondere an den Steckern, den Steckdosen und am Kabelausgang am Gerät.

¡Advertencia! Proteja el cable de energía para que no se le pise ni apriete, en especial cerca de enchufe, los receptáculos de conveniencia y el punto del que salen del equipo.

Aviso! Proteja o cabo de alimentação de ser pisado ou de ser comprimido particularmente nas fichas, em tomadas de parede de conveniência e no ponto de onde sai do dispositivo.

Avviso! Proteggere il cavo di alimentazione in modo che nessuno ci cammini sopra e che non venga schiacciato soprattutto in corrispondenza delle spine e del punto in cui esce dal dispositivo.



Warning! Unplug this device during lightning storms or when unused for long periods of time.

Avertissement! Débranchez cet appareil pendant les orages avec éclairs ou s'il est inutilisé pendant de longues périodes.

Warnung! Das Gerät ist bei Gewitterstürmen oder wenn es über lange Zeiträume ungenutzt bleibt vom Netz zu trennen.

¡Advertencia! Desenchufe este dispositivo durante tormentas eléctricas o cuando no se lo utilice por largos periodos del tiempo.

Aviso! Desconecte este dispositivo da tomada durante trovoadas ou quando não é utilizado durante longos períodos de tempo.

Avviso! Utilizzare soltanto i collegamenti e gli accessori specificati e/o venduti dal produttore, quali il treppiedi e l'esoscheletro.



Warning! Do not open the chassis. There are no user-serviceable parts inside. Opening the chassis will void the warranty unless performed by a Warwick Acoustics service center or licensed facility.

Avertissement! Ne pas ouvrir le châssis. Aucun élément à l'intérieur du châssis ne peut être réparé par l'utilisateur. La garantie sera annulée si le châssis est ouvert par toute autre personne qu'un technicien d'un centre de service ou d'un établissement agréé Warwick Acoustics.

Warnung! Öffnen Sie das Gehäuse nicht. Keine der Geräteteile können vom Benutzer gewartet werden. Durch das Öffnen des Gehäuses wird die Garantie hinfällig, es sei denn, solche Wartungsarbeiten werden in einem Warwick - Acoustics-Service-Center oder einem lizenzierten Betrieb vorgenommen.

¡Advertencia! No abra el chasis. El interior no contiene piezas reparables por el usuario. El abrir el chasis anulará la garantía a menos que se lo haga en un centro de servicio Warwick Acoustics o en un local autorizado.

Advertência! Não abra o chassi. Não há internamente nenhuma peça que permita manutenção pelo usuário. Abrir o chassi anula a garantia, a menos que a abertura seja realizada por uma central de serviços da Warwick Acoustics ou por um local autorizado.

Avvertenza! Non aprire lo chassis. All'interno non ci sono parti riparabili dall'utente. L'apertura dello chassis invaliderà la garanzia se non viene effettuata da un centro ufficiale o autorizzato Warwick Acoustics.



Warning! Disconnect the external AC power supply line cord(s) from the mains power before removing the unit.

Avertissement! Retirez le ou les cordons d'alimentation en CA de la source d'alimentation principale lorsque vous déplacez l'appareil.

Warnung! Trennen Sie die Wechselstrom-Versorgungskabel vom Netzstrom, bevor Sie das Gerät verschieben.

¡Advertencia! Cuando mueva la unidad desenchufe de la red eléctrica el/los cable(s) de la fuente de alimentación CA tipo brick.

Advertência! Remova os cabos CA de alimentação brick da rede elétrica ao mover a unidade.

Avvertenza! Scollegare il cavo dell'alimentatore quando si sposta l'unità.



Warning! Only use attachments and accessories specified and/or sold by the manufacturer.

Avertissement! Utilisez seulement les attaches et accessoires spécifiés et/ou vendus par le fabricant.

Warnung! Verwenden Sie nur Zusatzgeräte und Zubehör angegeben und/oder verkauft wurde durch den Hersteller.

¡Advertencia! Utilice solamente los accesorios y conexiones especificados y/o vendidos por el fabricante.

Aviso! Utilize apenas equipamentos/acessórios especificados e/ou vendidos pelo fabricante.

Avviso! Utilizzare soltanto i collegamenti e gli accessori specificati e/o venduti dal produttore.



Warning! The Warwick Acoustics M1 has no user-serviceable parts. To remove power from the unit, remove the power connector to ensure disconnection. Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been dropped.

Avertissement! Aucun des composants du Warwick Acoustics M1 ne peut être remplacé par l'utilisateur. Pour mettre l'unité hors tension, déconnectez-la en débranchant le connecteur électrique. Confiez l'entretien à du personnel de maintenance qualifié. Il faut effectuer une révision lorsque l'appareil a été endommagé de quelque façon que ce soit, par exemple lorsque le câble d'alimentation ou le connecteur est endommagé, lorsque du liquide a été renversé ou que des objets sont tombés sur l'appareil, lorsque ce dernier a été exposé à la pluie ou à l'humidité, lorsqu'il ne fonctionne pas normalement ou lorsqu'il a subi une chute.

Achtung! Der Warwick Acoustics M1 besitzt keine vom Anwender zu wartenden Teile. Um die Einheit stromlos zu schalten, den Stromanschluss abziehen, um Abschaltung sicherzustellen. Wartung darf nur von qualifiziertem Wartungspersonal vorgenommen werden. Wartung ist erforderlich, falls das Gerät auf irgendeine Weise beschädigt worden ist, z.B. wenn das Netzkabel oder der Stecker beschädigt wurde, Flüssigkeit in das Gerät verschüttet wurde oder Gegenstände in das Gerät gefallen sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, es nicht auf normale Weise funktioniert oder fallengelassen wurde.

Avvertenza! Il Warwick Acoustics M1 non contiene parti su cui l'utente possa intervenire. Per spegnere il dispositivo, rimuovere il connettore di alimentazione. Per qualsiasi intervento rivolgersi a personale di manutenzione qualificato. È necessario intervenire sul dispositivo se questo è stato danneggiato in un modo qualsiasi, ad esempio la spina o il cavo di alimentazione ha subito danni, è stato versato liquido o sono caduti oggetti sul dispositivo oppure se il dispositivo è stato esposto alla pioggia o a umidità, non funziona normalmente o è caduto.

Aviso! O Warwick Acoustics M1 não tem partes de manutenção pelo utilizador. Para retirar a energia da unidade, retire o conector de energia, para assegurar a desconexão. Indique toda a manutenção para pessoal de manutenção qualificado. A manutenção é necessária quando o dispositivo tiver sido danificado sob qualquer forma, como, por exemplo, se o cabo eléctrico ou de alimentação foi danificado, líquido foi derramado ou objectos caíram sobre o dispositivo, o dispositivo foi exposto a chuva ou humidade, não funciona normalmente ou se tiver caído.

¡Advertencia! Warwick Acoustics M1 no tiene piezas que el usuario pueda reparar. Para eliminar la potencia de la unidad, retire el conector de alimentación de para asegurar la desconexión. Diríjase a un personal calificado de servicio para toda reparación. Se requiere servicio cuando el aparato ha sido dañado de cualquier forma, por ejemplo el cable de alimentación o el enchufe está dañado, se ha derramado líquido u objetos han caído en el dispositivo, el dispositivo ha sido expuesto a la lluvia o humedad, no funciona normalmente o se ha caído.

REGULATORY COMPLIANCE STATEMENTS

FEDERAL COMMUNICATIONS COMMISSION (FCC) COMPLIANCE NOTICES

Class B Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15, Subpart B of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN ICES STATEMENTS:

Canadian Department of Communications Radio Interference Regulations. This digital apparatus does not exceed the Class B limits for radio-noise emissions from a digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications. This Class B digital apparatus complies with Canadian ICES-003.

Règlement sur le brouillage radioélectrique du ministère des Communications. Cet appareil numérique respecte les limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada. Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

EUROPEAN UNION AND EUROPEAN FAIR TRADE ASSOCIATION (EFTA) REGULATORY COMPLIANCE:

This equipment may be operated in the countries that comprise the member countries of the European Union and the European Fair Trade Association. These countries, listed below, are referred to as The European Community throughout this document:

AUSTRIA, BELGIUM, BULGARIA, CYPRUS, CZECH REPUBLIC, DENMARK, ESTONIA, FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, IRELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, MALTA, NETHERLANDS, POLAND, PORTUGAL, ROMANIA, SLOVAKIA, SLOVENIA, SPAIN, SWEDEN, UNITED KINGDOM, ICELAND, LICHTEINSTEIN, NORWAY, SWITZERLAND.

Declaration of Conformity



The EU Declaration of Conformity can be downloaded from our website at:
<https://warwickacoustics.com/headphones/support/manuals/>



The UKCA Declaration of Conformity can be downloaded from our website at:
<https://warwickacoustics.com/headphones/support/manuals/>

Warning!

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

Achtung!

Dieses ist ein Gerät der Funkstörgrenzwertklasse B. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten, in welchen Fällen der Benutzer für entsprechende Gegenmaßnahmen verantwortlich ist.

Attention!

Ceci est un produit de Classe B. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



This symbol on the product or its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste for recycling, please contact your local authority, or where you purchased your product.

Please visit the following URL for a complete copy of the declaration of conformity and user manual:
<https://warwickacoustics.com/headphones/support/>

JAPAN COMPLIANCE STATEMENT

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

This is a Class B product based on the standard of the VCCI Council (VCCI V-3/2015.04). If this equipment is used near a radio or television receiver in a domestic environment, it may cause radiointerference and the user may be required to take corrective actions. Install and use the equipment according to the instruction manual.

KOREA COMPLIANCE STATEMENT

B급 기기 (가정용 방송통신기자재)	이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.
Class B (Broadcasting Communication Equipment for Home Use)	As an electromagnetic wave equipment for home use (Class B), this equipment is intended to use mainly for home use and may be used in all areas.

TAIWAN COMPLIANCE STATEMENT

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

This is a Class B product based on the standard of the Bureau of Standards, Metrology and Inspection (BSMI) CNS 13438, Class B. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CHAPTER 1 INTRODUCTION

THANK YOU

Dear Customer,

Congratulations on the purchase of your BRAVURA Headphone System! We urge you to take time to study this user manual because with proper operation and maintenance of your BRAVURA system will provide you with many years of unparalleled listening pleasure. Built around the revolutionary High-Precision Electrostatic Laminate (HPEL) transducer, the BRAVURA has been designed from the ground up to be optimized for playing today's hi-res music formats. These features are key to delivering its extraordinary sonic quality and comfort:

1. Revolutionary lightweight High-Precision Electrostatic Laminate (HPEL) transducer
2. Injection moulded magnesium ear cups for strength, lightness, and improved acoustics
3. Handmade 'Cabretta' sheepskin ear cushions
4. Custom low-capacitance headphone cable
5. Discrete FET Class-A energizing amplifier
6. 32-bit/384 kHz ESS SABRE Reference DACs
7. 32-bit/384 kHz AKM Premium ADCs
8. Custom 64-bit fixed-point double-precision Digital Signal Processing
9. Ultra-low phase-noise master oscillator (± 80 femtoseconds of jitter at 100 MHz)
10. Superior USB cable
11. Precision-machined aluminium case
12. Custom, fixed-frequency universal power supply unit

In developing the BRAVURA system, our paramount goal was to stay true to the precedent for uncompromised audio quality. We value your thoughts so please let us know if you think we have achieved our goal.

www.warwickacoustics.com/headphones/support/

Thank you!

The Team at Warwick Acoustics

LIABILITY WAIVER

The BRAVURA Headphone System has been designed for home use only. Warwick Acoustics Ltd. will not accept liability for any damage or injury arising from improper use / misuse of this product.

CHAPTER 2 INSTALLATION

SYSTEM CONTENTS

The BRAVURA system comprises two parts, a headphone and an associated energizing amplifier/digital-to-analog converter (DAC). These are packed separately.

The headphone box contains the following items:

- 1x BRAVURA headphone
- 1x headphone cable
- 1x Quick Start Guide (headphone)

The amplifier/DAC box contains the following items:

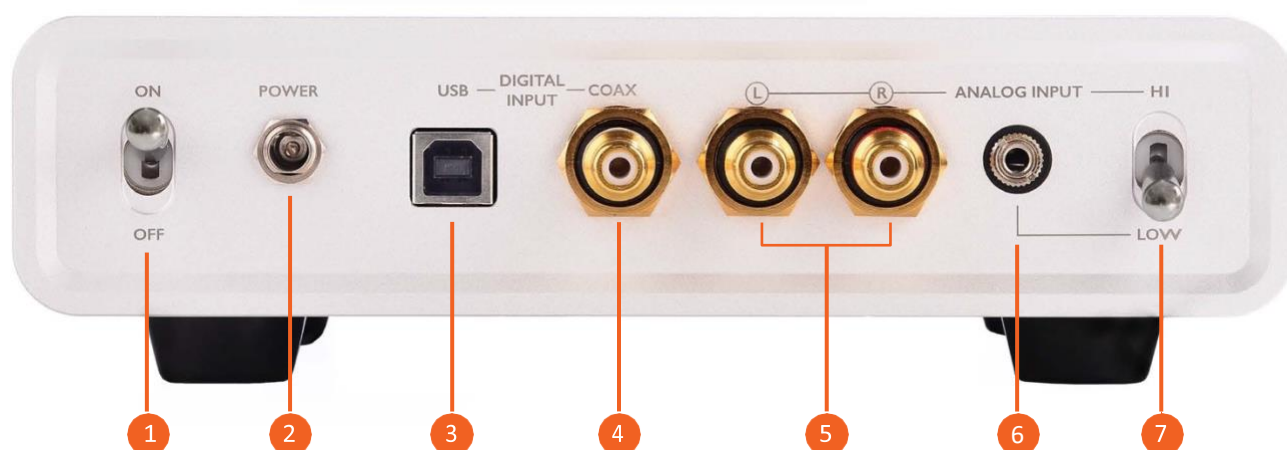
- 1x M1 energizing amplifier/DAC unit
- 1x universal power supply unit
- 1x IEC power cord (region-specific)
- 1x USB cable
- 1x Quick Start Guide (amplifier)

FRONT PANEL CONTROLS



- | | |
|--------------------------------------|----------------------------|
| 1 Analog/digital input selector | 5 Max. volume level |
| 2 Analog/digital input indicatorMin. | 6 Power / Status indicator |
| 3 Volume level | 7 Headphone connector |
| 4 Volume control | |

REAR PANEL CONNECTIONS/CONTROLS



- | | | | |
|---|----------------------|---|---------------------------|
| 1 | On/off switch | 5 | RCA Analog inputs |
| 2 | Power | 6 | 3.5mm Stereo Analog input |
| 3 | USB (Type B) input | 7 | Analog input selector |
| 4 | Coaxial S/PDIF input | | |

HEADBAND ADJUSTMENT

To get the best from your BRAVURA headphones, it is important to ensure that they are correctly adjusted to fit your head, and that they are properly positioned on your head.



The headband can be adjusted by means of an inner band that can be lengthened/shortened as needed. To adjust the band, hold the headband with one hand, and carefully pull or push the ear-cup with the other. When new, the inner band may be a little stiff.



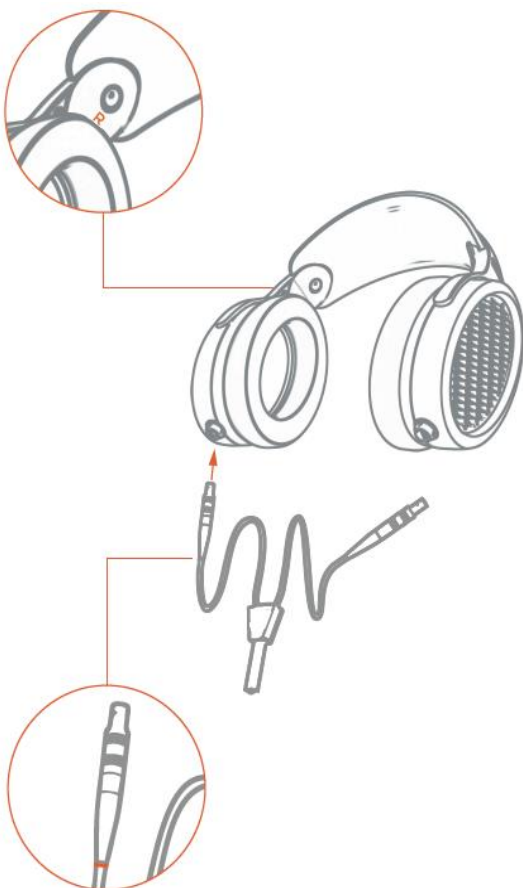
Ensure that the same length of inner band is visible on both sides of the headphone, so that they sit level on your head. There should be no gap between the top of your head and the underside of the headband.

POSITIONING THE HEADPHONES



The headphones should be positioned on your head such that the headband is vertical. When you have the correct adjustment and orientation, you will have a good seal of the ear-cup pad around your ear which is essential for correct bass response. You can check whether you have a good seal by carefully pushing on the ear-cup. This should result in a crackling sound as the trapped air in the ear-cup moves the electrostatic transducer, causing it to work like a microphone.

CONNECTING THE HEADPHONE CABLE

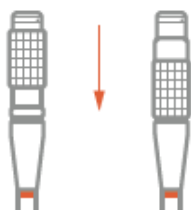


As soon as you have properly adjusted the headband, it will be time to connect the headphone cable to the headphones.

The headphone cable connects to the headphone via high precision, self-latching connectors. The cable is colour coded, and a small red band at the end of the strain-relief indicates the right-hand channel. Locate the ear-cup with the letter R indicated above it, and insert the cable with the red band until it latches.

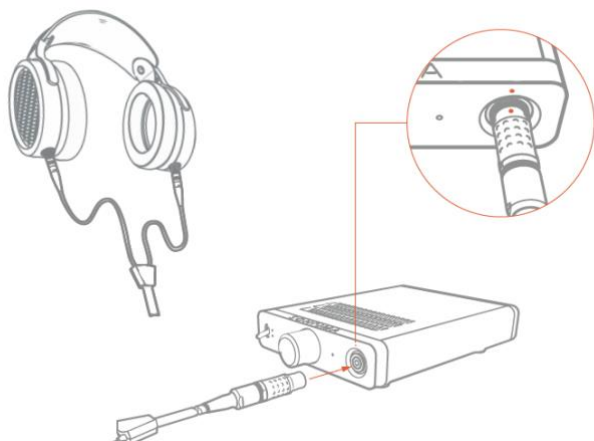
When the right-hand cable has been attached, connect the other cable to the left-hand ear-cup in the same way.

DETACHING THE HEADPHONE CABLE



Should you need to detach the cable for any reason, grasp the barrel of the cable and carefully pull backwards until the cable disconnects. You can then release the barrel and it will return to its usual position.

CONNECTING THE HEADPHONES TO THE AMPLIFIER



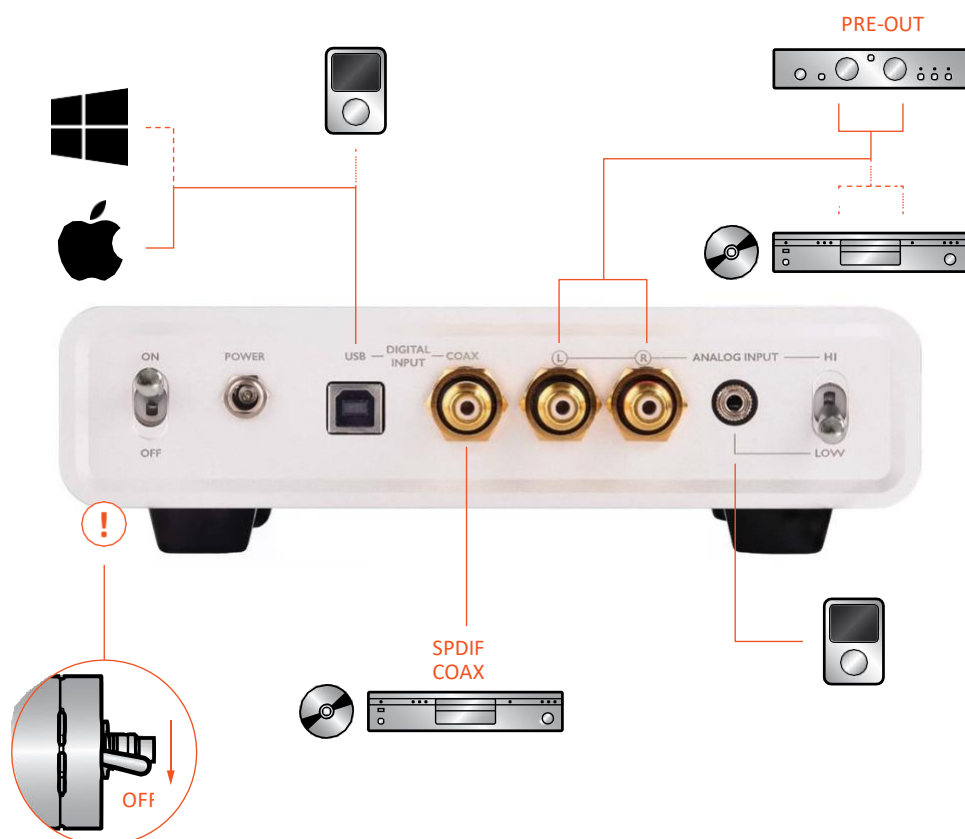
With the cable connected to both ear-cups, connect the headphone to the amplifier/DAC unit by inserting the cable into the headphone connector. Be sure to align the red dots on the connector and chassis. Push the cable into the connector until it latches.

If you need to detach the cable, grasp the barrel of the connector and carefully pull backwards until the cable disconnects, as shown above. Please ensure that the amplifier is switched OFF before connecting/disconnecting the headphone cable.

AMPLIFIER

CONNECTING ANALOG AND DIGITAL SOURCES TO THE

NOTE: Before beginning this section, please ensure that the power supply unit is NOT attached, and that the amplifier/DAC unit's power switch is in the OFF position!



Connect the stereo analog output of a portable audio device, for example, to the 3.5 mm stereo inputjack. Simply insert the jack until it latches. To remove, carefully pull on the connector (not the cable!).

Connect the stereo (L and R) analog outputs of a disc player or the Pre-Outs of an amplifier using two cables fitted with RCA connectors. Push the jacks until they make a firm connection. To remove, simply pull on the connectors (not the cables!).

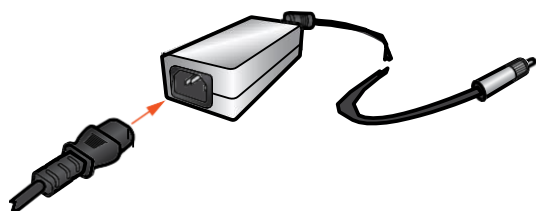
Connect the coaxial digital (S/PDIF) stereo output of a digital audio disc player (CD/DVD/SACD/BD) to the coaxial S/PDIF digital input. Use a digital interlink fitted with RCA connectors. Push the jack until it makes a firm connection. To remove, simply pull on the connector (not the cable!).

Connect a digital audio player or computer to the USB digital input using the supplied USB cable, or any similar high-quality USB cable up to 2 meters in length. Avoid using longer USB cables or USB hubs. NOTE: Windows PC users please refer to the section [XMOS Driver Installation for Windows Users](#) before attempting to use a PC with this product!

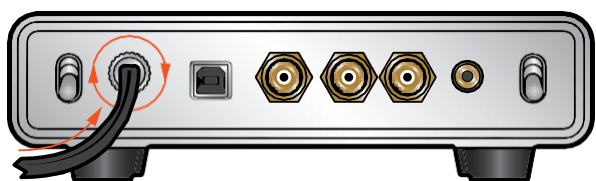
ASSEMBLING AND CONNECTING THE POWER SUPPLY UNIT



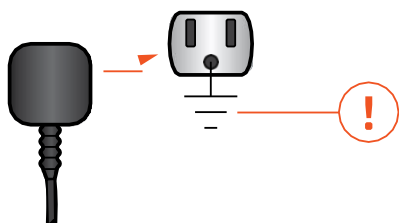
When all audio sources and the headphones have been connected to the amplifier/DAC unit, it will be time to connect the power supply unit, however, before beginning, please ensure that the volume control is turned to its lowest position as shown.



Firmly insert the supplied IEC mains cable into the power supply unit.



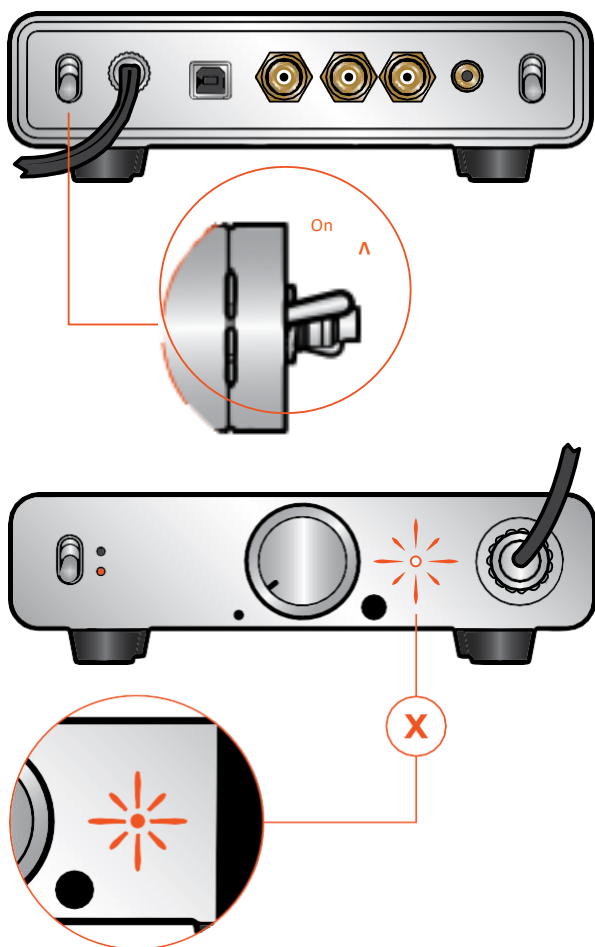
Carefully insert the cable from the power supply unit into the power connector on the back of the amplifier/DAC unit. Then lock the connector in place by turning the threaded connector clockwise. To remove, first unscrew the connector (by turning it counter-clockwise) and then carefully pull on it (not the cable!).



When the power supply unit has been assembled and connected to the amplifier/DAC, insert the mains plug into a GROUNDED mains socket!

PLEASE NOTE: your product has been supplied with the correct mains cable for your geographic location, and may differ in pin configuration from the model illustrated!

POWERING THE UNIT ON



When all connections have been securely made, power the amplifier/DAC unit ON by flipping the rear panel power switch to the up position. To power OFF simply depress the switch to the down position.

Provided all connections have been properly made, the front panel status indicator should glow WHITE. Your BRAVURA system is then ready to use.

If the amplifier/DAC detects a fault condition, the status indicator will glow RED. In this case, first power the unit OFF and re-check all the connections. If the problem persists, please refer to the [Troubleshooting](#) section.

CHAPTER 3 OPERATION

ANALOG/DIGITAL SOURCE SELECTION



Choose between analog or digital input sources by means of the front panel switch. Push the switch to the down position to select an analog source, move it to the up position to select a digital source. The orange input indicator lamp will confirm your choice.

You can freely switch between the two modes while music is playing. Which source you will hear will depend on further configuration options as described below.

ANALOG INPUT SELECTION



Choose between the 3.5 mm stereo analog input (LOW) and the RCA Left/Right stereo analog inputs (HI) by means of the rear panel switch. Push the switch to the down position to select the 3.5 mm analog source, move it to the up position to select the RCA analog source.

The gain of each input is optimized for different source devices. The 3.5 mm (LOW) input should be driven by source devices with up to 850 mV (rms) maximum output. The RCA (HI) inputs should be driven by source devices with up to 2.1 V (rms) maximum output. Higher maximum output source devices can be used for these inputs, but levels will need to be reduced to avoid over-driving the analog inputs.

DIGITAL INPUT SELECTION

The M1 amplifier/DAC unit has been configured to monitor the presence of a valid S/PDIF signal. When detected, the unit switches the digital input to S/PDIF mode. The USB connection is then effectively disconnected, and you will not be able to hear music via this connection while the S/PDIF signal is present. If you use both USB and S/PDIF connections, you can control the digital input selection via the following methods:

1. Turn the S/PDIF digital output OFF on your disc player or computer.
2. Turn the power OFF on the S/PDIF source.

VOLUME CONTROL



Use the front panel level control to increase/decrease volume. Turn the control clockwise to increase level, and counter-clockwise to decrease it. As a precaution, we recommend always powering ON/OFF with the volume control at its minimum position!

CHAPTER 4

COMPUTER-BASED AUDIO SET-UP

The highest audio quality will be achieved by means of the USB digital connection as it is the only connection which supports the highest resolution digital audio formats, namely:

- PCM up to 32-bit/384 kHz
- DSD64 and DSD128

As there are an enormous number of combinations of computer hardware and playback software, we can only give some general recommendations here on how to configure your hardware/software for use with the M1 system.

XMOS DRIVER INSTALLATION FOR WINDOWS USERS

In order to ensure bit-perfect transmission of digital audio signals via USB from a personal computer(PC) running the Windows Operating System, it is essential to first install a special driver package. Use a web browser to go to the following URL address:

www.warwickacoustics.com/headphones/support

There locate the support features (manuals, downloads, etc.) for the M1, and click on the link for XMOS USB Driver. This will link to a file of the following type:

Sonoma_M1_XMOS_xxxx.exe

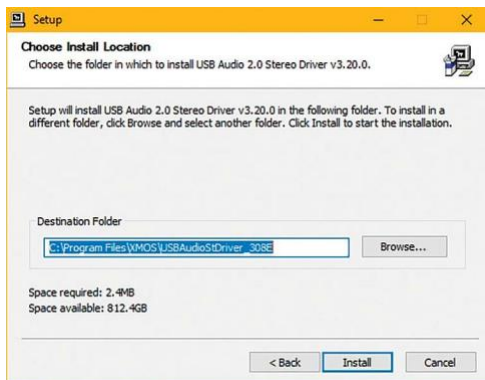
where xxxx refers to the specific version of the file. The latest version will always be available from the Warwick Acoustics website.

Depending on the browser used, and your browser settings, you may be asked whether you want to save this file to your PC, or run the file within the browser. If given the option, run the file, and follow the instructions below, otherwise, save the file to your PC, and then locate the folder where you saved it, and run the executable file from there. Depending on your PC settings, you may need to provide Administrator privileges to install software.

When the **Sonoma_M1_XMOS_xxxx.exe** executable has been launched, you may first be asked whether you want to allow this program to make changes to your PC, if so, click Yes, and the following screen will then appear:



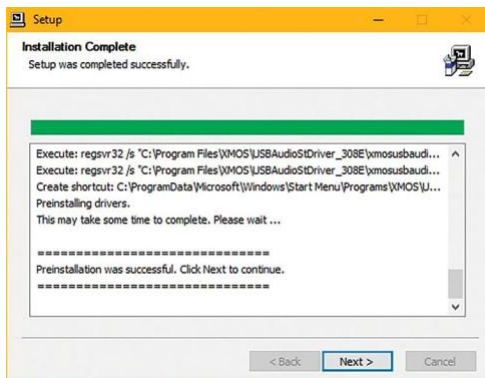
Click the Next button, and you will be asked where you want to install the program.



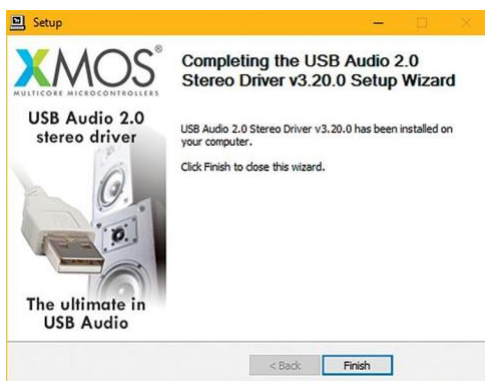
Unless you are an expert computer user, we strongly suggest that you install the program in the suggested folder.

To do this, simply click the Install button.

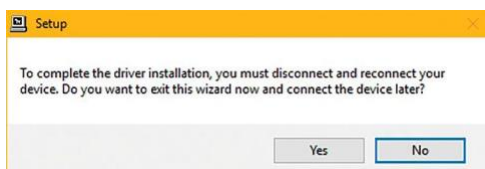
If you want to install to a different location, first use the Browse... button to locate the appropriate folder location.



Installation may take a few moments, when complete, click the Next button.



When the driver has been successfully installed, you will obtain a confirmation message. Click Finish to complete the installation process.



You may also see a further completion message. If so, click Yes, and then power cycle (turn off and then on again) your PC and the M1 system.

CHECKING THE FIRMWARE VERSION (WINDOWS USERS)

The XMOS Driver installer creates a Start Menu entry that enables easy access to a Control Panel feature which allows both the status of the PC-to-M1 connection and M1 firmware version to be queried. With your PC and M1 both powered ON, click the Start button in Windows, and locate the Sonoma entry in the list of Apps/Programs, and then select Sonoma M1 USB Audio 2.0 ST Control Panel to launch the utility.

Alternatively, use File Explorer to navigate to the relevant following folder, depending on whether you have a Windows 10 or Windows 7/8 and a 32- or 64-bit operating system.

C:\Program Files\XMOS\USBAudioStDriver_308E\W10_x86 C:\Program

Files\XMOS\USBAudioStDriver_308E\W10_x64 C:\Program

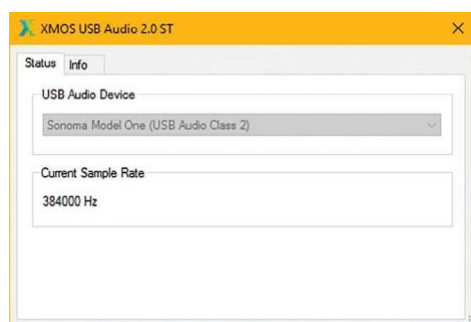
Files\XMOS\USBAudioStDriver_308E\W7W8_x86 C:\Program

Files\XMOS\USBAudioStDriver_308E\W7W8_x64 In the appropriate

folder locate and run the following file:

xmosusbaudiost308E_cpl.exe

This launches the Control Panel utility, and you should see the following information displayed:



The Status tab indicates that (a) the PC is correctly 'seeing' the Sonoma M1 system, and (b) that it is capable of communicating at its highest operating PCM sample rate (384 kHz).



The Info tab indicates the current version of the firmware loaded onto the device (in this case v. 1.0.8). Compare the displayed version number to the latest firmware version available at www.warwickacoustics.com/headphones/support.

If the version number is different, please see the section [Updating the Firmware Version \(Windows Users\)](#) for instructions on how to update.

UPDATING THE FIRMWARE VERSION (WINDOWS USERS)

Should you need to update the M1's firmware version, begin by saving the .bin firmware file located at www.warwickacoustics.com/headphones/support to a location on your PC which you can easily locate, e.g., the Desktop. Then click the Start button in Windows and locate the Sonoma entry in the list of Apps/Programs, and then select Sonoma Firmware Updater to launch the utility.

Alternatively, use File Explorer to navigate to the relevant following folder, depending on whether you have a Windows 10 or Windows 7/8 and a 32- or 64-bit operating system:

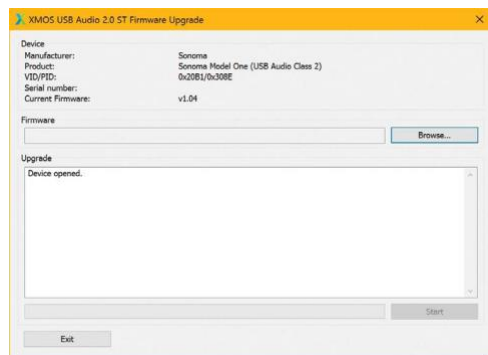
C:\Program Files\XMOS\USBAudioStDriver_308E\W10_x86

C:\Program Files\XMOS\USBAudioStDriver_308E\W10_x64 C:\Program
Files\XMOS\USBAudioStDriver_308E\W7W8_x86C:\Program
Files\XMOS\USBAudioStDriver_308E\W7W8_x64In the appropriate folder

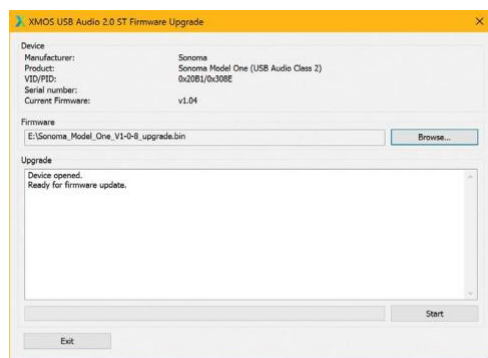
locate and run the following file:

xmosusbadiost308E_dfuapp.exe

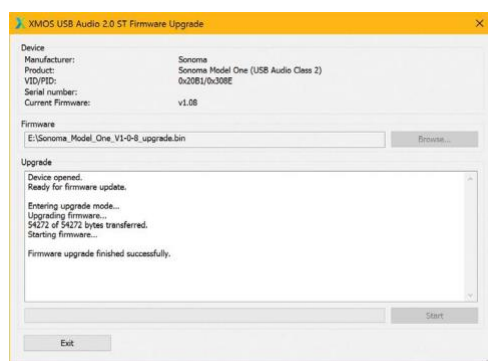
This will launch the firmware update utility and display the following.



In this example, the installed firmware version is v. 1.0.4. Use the Browse... feature to locate the .bin file saved on your PC.



When you have located and selected the .bin file you saved, it will appear in the Firmware window as shown. In this example, the new Firmware is v. 1.0.8. To begin the update process, click the Start button.



Updating takes only moments, and you will see the bytes transferred field increase as the process runs. When the process has ended, you can confirm that the version number is up to date by looking at the Current Firmware value displayed. As soon as you have confirmed that the update process has successfully completed, click on Exit to close the updater utility.

CHECKING AND UPDATING THE FIRMWARE VERSION (MACINTOSH USERS)

NOTE: the following applies to Macintosh OSX 10.8 and later!

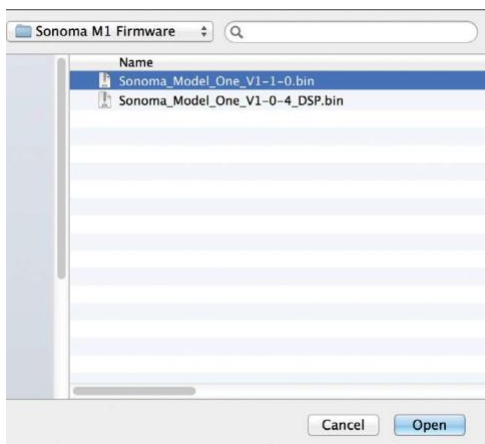
Download the Sonoma M1 Updater Application (Sonoma M1 Updater.app) from the Warwick Acoustics downloads page in the support section at www.warwickacoustics.com/headphones/support. With the Sonoma Model One USB port plugged into your MAC and the Sonoma Model One turned ON, launch the application.



Press the SEARCH button to instruct the application to locate the Sonoma Model One that is plugged into the USB port.



Upon finding the unit, the application will show the current firmware version at the top of the dialog.



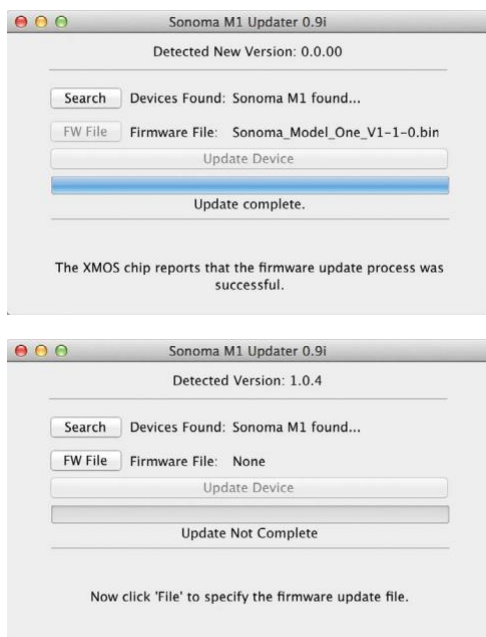
To update this version to a newer (or older) firmware version, press the FW FILE button then locate and select the replacement firmware file. It will have a .bin suffix. For example: Sonoma_Model_One_V1-1-0.bin.



The correct firmware file will be shown in the dialog window.



Confirm that you have selected the correct file and press the UPDATE DEVICE button. During the update, you will see the progress bar advance, and messages will appear at the bottom of the dialog window.



Do not remove the USB cable or close the application during the update. To be safe, please make sure that your computer is plugged into mains power. When you see the **UPDATE COMPLETE** message under the blue bar, you can close the application. NOTE: You must turn off the amplifier and turn it on again to activate the new firmware!

If you want to interrogate the unit to confirm that the new version is installed, you can run the Sonoma M1 Updater application again.

CONFIGURING YOUR PLAYBACK SOFTWARE

The final step in the configuration process is to make each of the applications which you want to play through the M1 system use the appropriate USB driver. We can only give general suggestions here, as every software package has different menus, configuration options, etc. In principle, you want to select one of the two following driver options within your software application:

1. XMOS USB Audio 2.0 ST 308E (ASIO)
2. XMOS USB Audio (WASAPI)

Both options work equally well, but we are unable to predict whether one will work better in your specific situation. There is a known functional difference when it comes to the playback of DSD files however, which we will explain below.

As the M1 supports PCM rates up to 32-bit/384 kHz and both DSD64 and DSD128, be sure to configure your playback software to pass all sample rates up to these limits. NOTE: if you use the Control Panel to look at the sample rate when transmitting DSD, it will appear as 176.4 kHz for DSD64 and 352.8 kHz for DSD128 due to the need to use the DoP format for transmission.

If you plan to play DSD source files through your M1, you will need to ensure that your playback software is configured for:

1. DSD bitstreaming ON
2. DSD bitstream in DoP format

The M1 can ONLY decode DSD signals which are transmitted using the DoP protocol—it cannot decode raw DSD bitstreams. This is where the functionality of the ASIO and WASAPI driver options differ: ASIO supports the transmission of DoP and raw DSD bitstreams, whereas WASAPI supports only DoP. NOTE: DoP is NOT a conversion from DSD to PCM; it is merely the packaging of DSD data in a PCM 'container' for transmission using PCM protocols. The M1 unpacks the raw DSD data from the DoP frames, and there is no change in audio quality.

CHAPTER 5

CARE AND MAINTENANCE

POWER DOWN

Due to the fact that the M1 amplifier/DAC generates high-voltages and also runs warm in use (this is perfectly normal for a Class-A amplifier), it should be powered down when not in use for extended periods or left unattended.

CLEANING

The amplifier/DAC unit should be cleaned with a soft, dry cloth. Never use anything abrasive as this may damage the metal finish. Do NOT use liquid/aerosol cleaners.

The headphones should be cleaned with a soft, dry, micro-fibre cloth. This is also the case for the leather parts. Do NOT use any liquid/aerosol cleaners as they may damage the leather and cause failure of the pads.

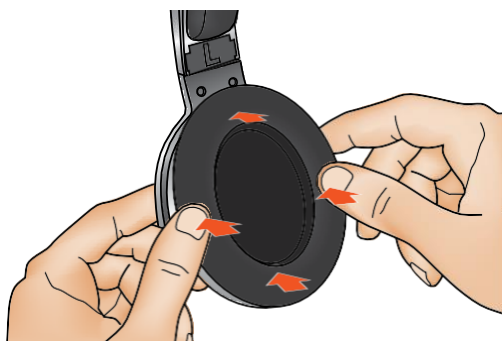
Failure to follow these instructions will invalidate your warranty.

REPLACING THE EAR PADS



Ear pads may need replacement after years of extended use or if inadvertently damaged. Replacement pads are available from your dealer or the Warwick Acoustics website.

To remove the old pads, carefully insert a finger into the earcup so that it is behind the ear pad as much as possible. Take care not to damage the webbing or electrostatic panel! Then, with your thumb, firmly grasp the ear pad, and pull it away from the ear cup.



Place the new pad on the ear cup with the seam in the leather at the BOTTOM of the ear cup. Then, carefully, press firmly all around the pad to attach it. Check that the ear pad is firmly seated and tight to the ear cup all around its perimeter. This is essential to ensure an air-tight seal and correct bass response.

CHAPTER 6

TROUBLESHOOTING

If you are encountering problems with using your BRAVURA system, it could be the result of something simple. Please consult the following checklist first and perform only the specific remedy for a particular symptom. If the remedy does not resolve your problem, please contact our CustomerService team (see Page 20) to assist you further. There are no user-serviceable parts inside, and any attempt at repair will invalidate the warranty.

SYMPTOM	REMEDY
Red light on amplifier/DAC	Headphone cable is not connected properly either to the amplifier/DAC unit or to each ear cup. Please check for a good connection.
No sound via analog connection	First check whether the analog/digital source selector is in the analog position. If it is, then check that the Hi/Low rear panel selector switch is in the appropriate position. If it is, then check your source component to ensure it is operating correctly (is the volume set to mute on a portable audio player, for example?).
No sound via S/PDIF digital input	First check whether the analog/digital source selector is in the digital position. If it is, then check whether the S/ PDIF digital output of your source has NOT been turned off via a menu function. If not, try a different S/PDIF cable to eliminate breakages/connection issues.
No sound via USB input	First check whether the analog/digital source selector is in the digital position. If it is, then check whether a S/PDIF signal is also present—if it is, either power off the S/PDIF source or use a menu function to disable the S/PDIF digital output. If a S/PDIF signal is NOT present, check whether the XMOS USB driver has been selected on your computer and in your playback software. Check also whether the output has been muted within your playback software!
Stuttering/glitching in USB playback	Is the USB connection made via a USB hub? We have found that some inexpensive or poor quality hubs can introduce playback issues. Try connecting the M1 directly to your computer. Very long USB cables (> 2 meter) and some poor quality USB cables can also compromise USB connectivity, and should be avoided. If no hub is used, check the activity level/number of open programs on your computer, it could be that something else needs computer resources which interrupts playback.

SYMPTOM	REMEDY
Fit is poor/bass response is weak	Check the headband for any deformation by fully retracting (shortening) the metal inner bands. If the junctions at each end of the headband are tight without any large uneven gaps and the arc of the headband is smooth and continuous to each ear cup the inner bands are correct. If this is not the case, carefully push the ear cup assemblies inward until the gaps are minimized and even, and the headband arc becomes continuous and properly oriented.
Distortion is present on some source material	Check the volume control setting. It is possible to overdrive the electrostatic panels with excessively bass-heavy source material at high volume settings. When listening to these types of source material it may be necessary to reduce the volume setting slightly.
Output level too low when using analog inputs	Check that the correct input is selected for the type of source device being used. The 3.5 mm (LOW) input should be driven only by lower level source devices with up to 850 mV (rms) maximum output. The RCA (HI) inputs should be driven by higher level source devices with up to 2.1 V (rms) maximum output. If a low level source is connected to the RCA (HI) level inputs using an adapter, there may not be enough gain available. Low level source devices should always be connected to the 3.5 mm (LOW) input for best sound quality.
Output is distorted when using the analog inputs	Check that the correct input is selected for the type of source device being used. The 3.5 mm (LOW) input should be driven only by lower level source devices with up to 850 mV (rms) maximum output. The RCA (HI) inputs should be driven by higher level source devices with up to 2.1 V (rms) maximum output. Higher maximum output source devices can be used for these inputs, but levels will need to be reduced to avoid over-driving the analog inputs. If distortion is heard when driving the correct input, try reducing the output level from the source device until the distortion (or clipping) subsides. This should be checked on the most dynamic, high level material one expects to play from the source device.

CHAPTER 7 CUSTOMER SERVICE

If the product fails to work for any reason, or you want to purchase replacement parts, please contact our Customer Service team via one of the following methods. Please provide as much detail as you can about the problem and your specific configuration. Be sure to leave your name and contact details too!

E-mail: support@warwickacoustics.com

Online: www.warwickacoustics.com/headphones/support/

GLOSSARY

AC	Alternating Current
ADC	Analog-to-Digital Converter
ASIO	Audio Stream Input/Output
BD	Blu-Ray Disc
CD	Compact Disc
CEN	Comité Européen de Normalisation/European Committee for Standardization
CNC	Computer Numerical Control
D	Depth
DAC	Digital-to-Analog Converter
DC	Direct Current
DoP	DSD Over PCM
DSD	Direct Stream Digital
DSP	Digital Signal Processing/Digital Signal Processor
DVD	Digital Versatile Disc
EN	European Norm/European Standard as developed by CEN
FET	Field-Effect Transistor
H	Height
HPEL	High-Precision Electrostatic Laminate
Hz	Hertz (aka cycles/second)
IEC	International Electro-technical Commission
in	Inch
kg	Kilogram
kHz	Kilohertz
lb	Pound (weight)
M1	Model One
MHz	Megahertz
mm	Millimeter
mV	Millivolt
OFHC	Oxygen-free High-purity Copper
oz	Ounce
PC	Personal Computer
PCM	Pulse Code Modulation
PE	Polyethylene
RCA	Radio Corporation of America
RMA	Return Merchandise Authorization

rms	Root Mean Square
SACD	Super Audio Compact Disc
SMPS	Switched-mode Power Supply
S/PDIF	Sony/Philips Digital Interface Format
USB	Universal Serial Bus
V	Volt
VA	Volt-Ampere
W	Width
WASAPI	Windows Audio Session Application Programming Interface

SPECIFICATIONS

HEADPHONE SPECIFICATIONS:

Configuration	Open-back; circumaural type
Transducer	HPEL, single-ended electrostatic
Effective Diaphragm Area	3570 mm ²
Frequency Response	10 Hz – 90 kHz
Output Level	Compliant with EN 60065/A12:2011 (EN50332) when driven by M1 amplifier (for all inputs)
Ear Cushions	“Cabretta” top-grain, sheepskin leather
Input	Polarized, 4-pin, self-latching Lemo connectors for left and right channels
Drive Cable	Ultra-low capacitance, silver-plated OFHC copper, with foamed PE insulation and Kevlar reinforcement; 2 meter length
Weight	400 grams (14.1 oz), without cable

AMPLIFIER SPECIFICATIONS:

USB Input	USB 2.0, type B; accepts digital audio formats up to 32-bit/384 kHz PCM and DSD (DSD64/DSD128) via DoP
Digital Coaxial Input	S/PDIF; accepts digital audio formats up to 24-bit/192 kHz PCM
Analog Input (High Level)	Dual RCA; 2.1 V (rms)
Analog Input (Low Level)	3.5 mm; 850 mV (rms)
DAC	Dual mono, 32-bit/384 kHz DACs with balanced outputs
ADC	32-bit/384 kHz multi-channel ADC with balanced input buffers
Digital Signal Processing (DSP)	64-bit (double-precision) fixed-point processing
Amplifier/Energizer	Discrete FET, single-ended, high bias Class-A output
Distortion + Noise	< 0.05%
Bandwidth	> 65 kHz
Enclosure	CNC-machined 6063 aluminum
Power Supply	External: 24 Volt DC, 60 VA, fixed frequency, class B-compliant SMPS Internal: fully isolated, ultra-low-noise linear regulation
AC Mains	World voltage compatible (90-264 Volt AC, 50-60 Hz); IEC-60320C14, earth grounded power cable; 1.5 meter length
Dimensions	H x W x D: 57 mm (2.24 in) x 190 mm (7.48 in) x 290 mm (11.42 in)
Weight	2.45 kg (5.40 lbs)

WARRANTY

LIMITED WARRANTY

Warwick Acoustics Limited is a company registered in England and Wales under company registration number 04451674 having its registered office at MIRA Technology Park, Unit 3, NW07, Watling Street, Nuneaton, CV10 0TU ("Warwick Acoustics"). Warwick Acoustics extends the following warranty periods for the individual parts of a BRAVURA system.

The periods indicated begin on the date of purchase as specified on the original sales invoice and this limited warranty is in addition to any statutory rights available to you under law.

Details of your statutory rights can be found in our online terms and conditions of sale; (<https://warwickacoustics.com/headphones/terms-and-conditions/>)

HPEL Transducers/Headphones*/Energizer-DAC	2 Years
--	---------

Ear Pads/Headband Pad/Cables	1 Year
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* 2 year warranty excludes ear pads and cables

WHAT IS COVERED:

Warwick Acoustics warrants that its products will be free of all defects related to manufacturing, parts, materials, and/or workmanship under normal and accepted use. The conditions under which this warranty ceases to be applicable are detailed in the next section.

WHAT IS NOT COVERED:

This warranty does not cover fair wear and tear, defects resulting from improper or unreasonable use or maintenance; cosmetic damage including, but not limited to, scratches, dents and broken parts caused by the owner; failure to follow all operating instructions; accident; excess moisture; excess temperature; power surges; connections to improper voltage supply or any non-Sonoma energizer; unauthorized alteration or modification of original condition; 'Acts of God'; products purchased from unauthorized dealers; or defects incurred during transportation for which claims must be presented to the carrier. This includes any superficial damage to the boxes and packaging incurred during shipment.

WHAT WE WILL DO:

Warwick Acoustics will, at its sole discretion, replace (using new or refurbished parts/products) or repair Sonoma products that are within the stated warranty periods from the date of original purchase.

WARRANTY REPLACEMENTS:

Warwick Acoustics strives to improve the performance of its products, and, therefore, reserves the right to make changes to designs/specifications/materials at any time without notification. Warwick Acoustics may, at its discretion, choose to replace the BRAVURA product completely with a new or remanufactured product.

WARRANTY TRANSFER:

The terms of this warranty can be transferred to a subsequent owner provided the new owner is able to provide proof of original purchase, or the original purchaser has registered the product with Warwick Acoustics.

WARRANTY PERIOD FOR REPAIRS/REPLACEMENTS:

All warranty repairs/replacements are guaranteed for 90 days or until the original warranty end date, whichever is longer.

SHIPPING TO WARWICK ACOUSTICS:

Following submission of a [Warranty Claim](#), a customer will be issued a Return Merchandise Authorization (RMA) and a return shipping label. Warwick Acoustics will pay for ground shipping to its local service centre for all warranty returns. Customers should include the RMA with their returned product(s), and indicate the RMA number on the shipping box.

SHIPPING FROM WARWICK ACOUSTICS:

Warwick Acoustics will pay for ground shipping to return all products repaired/replaced under warranty. Customers will receive tracking confirmation from Warwick Acoustics, and signature authorization will be required to receive your shipment.