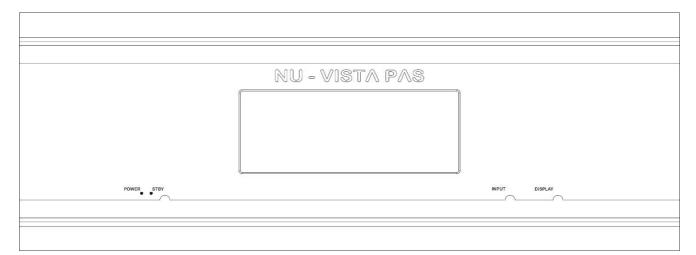


Installation Guide

NU-VISTA





Instructions for use

Thank you for purchasing the Musical Fidelity Nu-Vista PAS.

Based on our excellent Nu-Vista 800 circuit we decided to go all out "fully balanced" on the Nu-Vista range.

The Nu-Vista PAS features the tried and tested Nu-Vista stage featuring 6S51N nuvistors in a discrete class A amplifier buffer. This is followed by a balanced configuration circuit and balanced input high power, low distortion output amplifier stage. The power stage has 5 pairs of high power thermally compensated output devices for reliable and stable operation. Based on Titan 1000W stage, it has separate capacitors for bulk supply, and one each for output devices considerably reducing output impedance and improving dynamics. Chokes are added for further improved supply ripple and pulse current spike reduction. Bias is set for over 5W of initial class A operation thereafter the stage slides into class B operation at a point where the now much lower discontinuity is easier dealt with than "standard" crossover distortion.

The Nu-Vista PAS comes with its own dedicated external power supply, the Nu-Vista PAS PSU. To achieve better noise performance, we removed the AC mains power supply from the main unit and built it into another matching box. In this box we took advantage the extra space to set up inbuilt mains and output filtering. This quietens up the supplies and results in almost no mains-borne artefacts getting into the sensitive audio circuitry.

Used properly and carefully, it should give many years of outstanding musical reproduction.

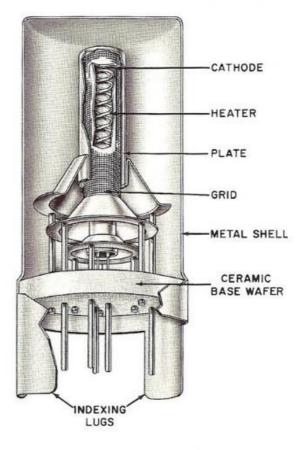
Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

The new Nu-Vista PAS and its PSU were a continued labour of love for Musical Fidelity. We are passionate about what we do and passionate about Nuvistor tubes as we have always been. We hope that you derive as much pleasure listening to the Nu-Vista PAS as we had creating it.

If there are any questions about the audio system, please consult the dealer, who is there to help and advise.

NU - VISTΛ PΛS

CUTAWAY VIEWS Showing Cylindrical Electrodes and Tripod-Like Supports



Typical Single-Ended Nuvistor Triode

* UK English "valve" mentioned hereafter, refers to the 'electron valve' kind, also known as electron "tube" in other parts of the world.

NU - VISTA PAS

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SAFETY INFORMATION

IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 16 amp plug. If, for any reason, it is necessary to remove the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children.

It must not be plugged into a mains outlet.

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellow......Earth Blue.....Neutral Brown.....Live

WARNING – This appliance MUST be earthed

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in the plug, proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol:
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- If connecting to a BS1363 plug, a 13 amp fuse must be used.

WARNING:

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

GENERAL ADVICE

Installation, Precautions & User Information

This new Nu-Vista PAS is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

- Heed all warnings shown on the back of the product.
- Only connect the Nu-Vista PAS to a mains outlet having the same voltage as marked at the back of the unit.
- Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.
- Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.
- Do not use near water, or place water-filled containers on the Nu-Vista PAS & PAS PSU, for example, a
 flower vase or potted plants. If water does spill inside, immediately pull out the mains plug from the
 wall socket and inform your dealer, who should then check the unit before further use. Entry of
 liquid into the Nu-Vista PAS and PAS PSU is dangerous, and may cause electric shock or fire
 hazard.
- Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.
- Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent.
 * Note: Unauthorised opening of the equipment will invalidate any warranty claim.
- Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents they may harm the surface finish.

The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of the audio system during electrical storms, remove the mains plugs.

If after-sales service is required, to help the dealer identify the Nu-Vista PAS & PAS PSU please quote the serial number located on the rear panel of the unit.

INSTALLATION

Introduction

Congratulations on the purchase of the new Nu-Vista PAS stereo power amplifier. Great attention has been paid to internal layout, isolating each circuit section to prevent possible interaction. The unit features a finely tuned and tweaked Nu-Vista valve design, for smooth sound coupled with low noise and virtually no distortion. The power amplifier consists of two top quality power amplifiers for the absolute best in separation and imaging. Generously rated, they are enough to drive even the most demanding loudspeakers with ease. Low distortion and very quiet they will deliver all music types exactly as the artist originally intended.

The resultant performance achieved by this unit is among the best in the world. It has excellent signal to noise ratio, low distortion, wide bandwidth and dynamic range, with extraordinary resolution and fine detail.

Cleaning

Before cleaning the unit, switch off power at the mains switch and remove the mains plug from the wall socket. Clean the cabinets using a moist cloth. Using solvents, white spirit or thinners is not advised, as they could damage the surface finish.

Setting up

Position the Nu-Vista PAS and its PSU on a stable, horizontal surface where there is no risk of it being knocked. Make sure ALL units involved are switched off and unplugged from mains supply before making or removing any connections. We recommend to place the Nu-Vista PAS PSU next to the PAS unit itself, with as much space between them, so that all power cables can be connected comfortably and there is no extra strain on the cables.

Important note:

During normal operation, the unit dissipates an appreciable quantity of power at all times, and it is important that it is well ventilated. The top and bottom are perforated to allow the smooth flow of heat through the unit. However, the unit must not be enclosed in a cabinet or placed where the ventilation holes are impeded as this could result in excessive heat build-up.

The Nu-Vista PAS must be protected from humidity – if the unit is moved from a cold place to a warm room, leave the unit for an hour or so to allow sufficient time for the moisture to evaporate.

Audio Connections

Inputs: The Nu-Vista PAS has single ended (RCA) line level and balanced (XLR) line level inputs. Choose the desired input to be used:

Unbalanced RCA Line Level Inputs:

Connect all RCA single-ended sources to relevant analogue inputs (see page 8 for more information). Use good quality fully connected (signal and ground) coaxial phono cables for all RCA signal connections. Take care with positioning all input leads, try to ensure that they are well shielded and kept as far away from mains and speaker leads as possible.

Balanced XLR Line Level Inputs:

Connect source balanced outputs to the Nu-Vista PAS balanced inputs using good quality XLR balanced leads. Recommended lead wiring is shown on P.8. Note some products simply connect "cold" input pin 3 to ground. This does no harm to unit, but may result in an audible reduction in signal level from this input and a slightly worse signal to noise ratio.

Note: in both input cases it is assumed that the driving preamplifier has a VOLUME CONTROL to allow setting of listening level. This is important as the Nu-Vista PAS has no control of its own.

Outputs: The Nu-Vista PAS has a single ended (RCA) line level and balanced (XLR) line level output. The output sockets allow loop through of the input signal, for example to pass on to a recorder, monitor, additional amplifier or active subwoofer.

Speaker Outputs: Connect loudspeakers to the terminals on the back panel marked as **LEFT** and **RIGHT SPEAKER** outputs. See "WIRING" P.11 for more details.

Mains Power Input on Nu-Vista PAS PSU

Check the Nu-Vista PAS PSU back panel mains switch is set to "OFF". Connect the supplied mains lead to the 16A IEC socket on the back panel. Connect the other end to a mains power socket. Be sure to leave the mains switch in the "OFF" position.

CONTROL, Nuvistor PRE and PA Interconnects from Nu-Vista PAS PSU to Nu-Vista PAS amplifier unit

Connect the 4-pin XLR cable between the CONTROL output on the Nu-Vista PAS PSU and the CONTROL input on the Nu-Vista PAS amplifier.

Connect both 5-pin XLR cables between the Nuvistor PRE outputs on the Nu-Vista PAS PSU and the Nuvistor PRE inputs on the Nu-Vista PAS amplifier. This is powering the Nuvistor stages.

Connect both "Neutrik" cables between the PA outputs on the Nu-Vista PAS PSU and the PA inputs on the Nu-Vista PAS amplifier. This is powering the power amplifier stages.

Important notes:

- Only switch the Nu-Vista PAS PSU on once ALL connections are made.
- Only connect or disconnect power cables when the ON/OFF switch on the Nu-Vista PAS PSU is set to OFF!
- If the Nuvistor PRE power cables are wrongly or not connected, the Nu-Vista PAS display will show "Output DC present" and mute the unit. Turn the Nu-Vista PAS and then the PSU off and check the cables again.

Trigger Input and Output

Triggering input and outputs are available to allow the amplifier to be turned on automatically by other equipment or turn on other equipment automatically when the Nu-Vista PAS is turned on. This is a 2-way 3.5mm jack on the back of the unit labelled "TRIGGER". It requires 5 to 12V (either polarity) to switch the amplifier on.

CAUTION!

Most high quality speakers will comfortably cope with large power *transients*. By their nature, these are very quick and will present no thermal problems for a good commercial quality loudspeaker.

However please note that most loudspeakers are *not* designed for very high *sustained* listening levels. The Nu-Vista PAS is a very powerful amplifier and will faithfully deliver what is asked of it. If listening levels are set significantly higher than normal, it is possible that the loudspeakers could get into thermal problems and be damaged. Musical Fidelity will not be responsible for any loss or damage to loudspeakers.

Please take care with listening levels, which can damage hearing, and consider the noise suffered by others, such as neighbours.

Additional note-

If bi-amping, please ensure that all speaker shorting links linking treble and bass units are removed. Failure to do so may result in damage to connected amplifier(s). See loudspeaker instructions for more information.

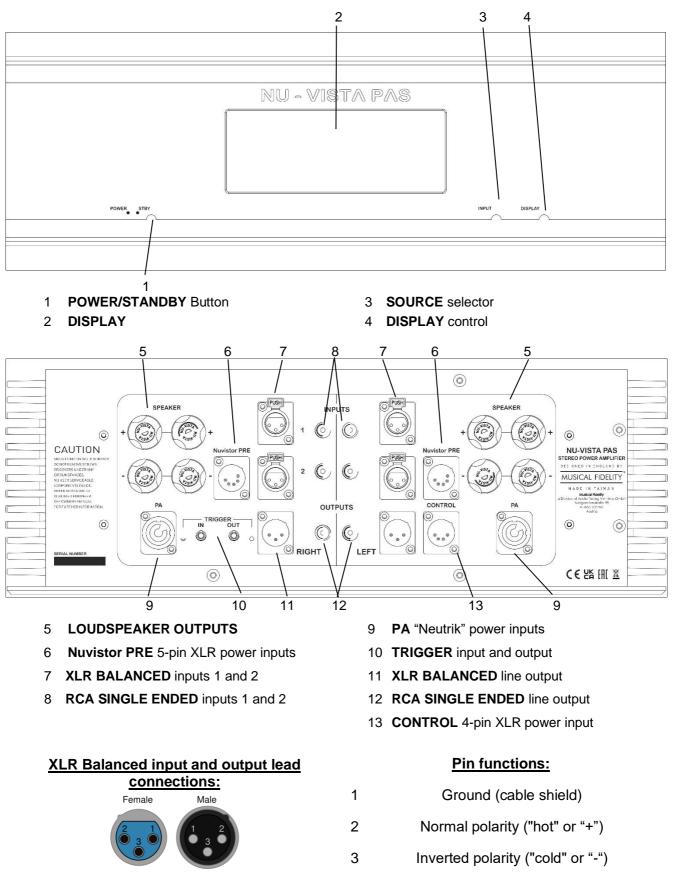
Mounting optional Spike Feet

The Nu-Vista PAS and PAS PSU can optionally be used with spike feet. We recommend to ask a second person to help you lift the amplifier and PSU units for mounting the feet or felt pads.

If you want to use the standard mounted feet, you can attach the big felt pads to those feet (remove the small rubber feet first if necessary).

To mount the spike feet, screw the threaded rods into the spike feet so that the allen key side is inside the foot (this way, when you want to remove the foot from the amplifier again, you can unscrew the foot and then unscrew the threaded rod from the amplifier with an allen key, should it be too tight to unscrew by hand). Then screw the feet into the amplifier (remove the small rubber feet first if necessary). Attach the small felt pads to the bottom of the spike feet cups and place these cups under the spike feet.

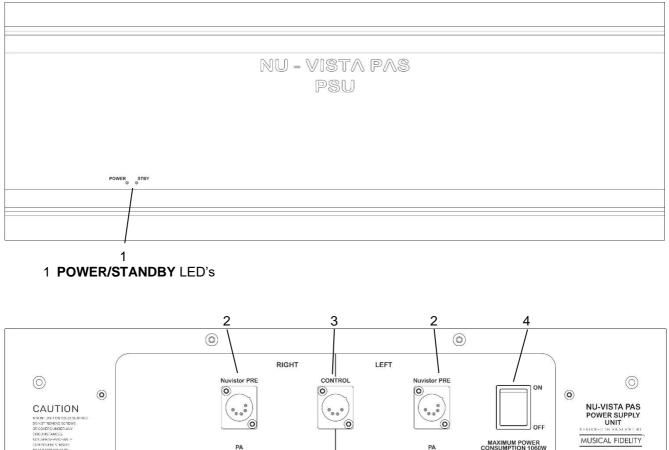
FACILITIES & CONNECTIONS

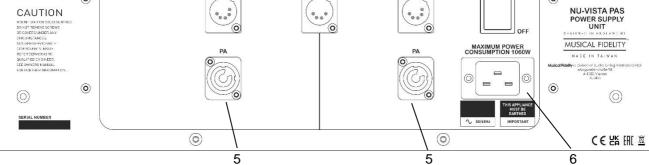


(for reference, no XLR signal leads supplied)

NU - VISTΛ PΛS

FACILITIES & CONNECTIONS





- 2 Nuvistor PRE 5-pin XLR power outputs
- 3 CONTROL 4-pin XLR power output
- 4 ON/OFF switch
- 5 **PA** "Neutrik" power outputs
- 6 IEC 16A mains socket

ΝΟ - ΥΙSTΛ ΡΛS

Starting

Once all connections are made, switch on the Nu-Vista PAS PSU unit, using the POWER switch on the back panel. The Standby LEDs on both the Nu-Vista PAS and PSU will light up. The Nu-Vista PAS amplifier unit may now be switched fully on using the POWER/STANDBY button on the front of the amplifier. The display will now light up and the POWER LEDs on both units will light up. The LEDs illuminating the Nuvistor valves will light up RED. This means the speaker outputs are muted, and will remain in this state for about 12 seconds, so no sound will be heard from the speakers. Once the delay is up, these LEDs go ORANGE, indicating the unit is ready for use, and any source material selected and playing will be heard through the speakers. For the first 15 mins or so, the Nu-Vista valves are still warming up, and their LEDs stay ORANGE. After approx. 20 mins the valves will have reached full thermal equilibrium and are at their best performance, which is indicated by their LEDs turning BLUE.

Switching Inputs

Switch through the inputs by pressing the **INPUT** button.

Display Controls

Access the **display controls** by pressing the **DISPLAY** button once and then: Change the **theme** between black/white, VU meters on/off by pressing the **DISPLAY** button. Change the **brightness** by pressing the **POWER** (brightness down) and **INPUT** (brightness up) buttons. **Display controls** will automatically exit after not pressing any buttons for a few seconds.

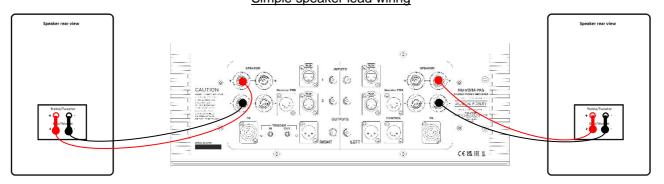
Pressing and holding the **DISPLAY** button for a few seconds will **turn off** the Nuvistor LEDs. This only works after the valves have fully warmed up and their LEDs changed from orange to **BLUE**. If the valve **LEDs are turned on**, you can recognize this by a thin blue line that is shown at the top of the display screen.

If the valve LEDs are turned off, this thin blue line is not shown.

POWER OFF CAUTION:

The correct power off procedure should be followed in order to prevent unnecessary power surges on the mains line and to protect the Nu-Vistas. The **Nu-Vista PAS** amplifier itself should be switched OFF first by the **POWER/STANDBY** button on its own front panel. Only then turn off the **Nu-Vista PAS PSU** on its back panel. For day-to-day operation both the **Nu-Vista PAS and PAS PSU** can simply be switched to ON or into STANDBY using the **POWER/STANDBY** button on the Nu-Vista PAS front panel.

Simple speaker lead wiring

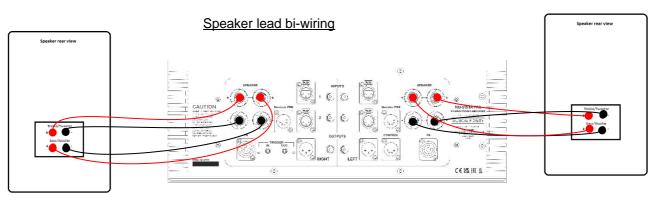


Bass/treble terminal links in

(source and mains leads omitted for clarity)

Bass/treble terminal links in

WIRING

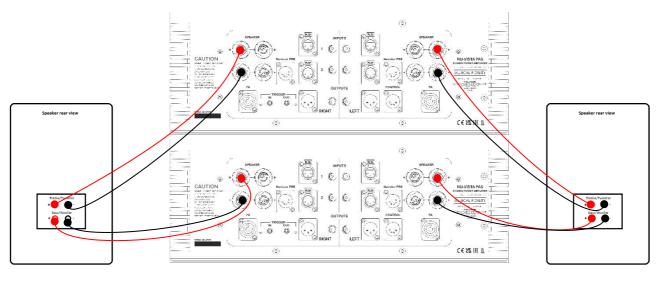


Bass/treble terminal links removed

(source and mains leads omitted for clarity)

Bass/treble terminal links removed

Speaker bi-amping (requires additional power amplifier)



Bass/treble terminal links removed

(source and mains leads omitted for clarity)

Bass/treble terminal links removed

Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power when POWER button is pressed.	Mains power plug is not fully inserted into rear socket. Power cables between amp and PSU not correctly connected.	Plug in securely. Connect PA, Control and Nuvistor PRE power cables.
No sound	Unit is starting up, valves are still heating up. Wrong connections between input sources and the unit Speakers not connected, or incorrectly wired	Wait until unit is started up correctly, see page 11. Check audio input lead connections. Check speaker cables.
Sound cut	Loose connection Output overload or short circuit	Check speaker and input connections. Switch unit off. Check speaker connections for shorting strands or wires. When all has been double-checked reduce volume and switch unit back on. N.B. Take great care when bi-wiring or bi- amping that speaker bass and treble linking straps are removed; see speaker manual for more information.
Sound is not precise, lacking in bass and stereo image.	Speakers are connected out of phase, i.e., connections to one speaker (+ and –) are reversed.	Ensure speakers are connected with same polarity at amplifier and speaker ends.
Hum.	Audio connector plug not fully pushed in Cable Fault Unsuitable cable (e.g. cable grounds not connected)	Insert plug securely. Check cable is connected at both ends. N.B. Some esoteric cables have internal wiring intentionally disconnected/modified. For best results on all inputs analogue AND digital please use good quality screened coax; signa and screens both separately connected at both ends.
No audio output, or too low level output.	Incorrect or missing connections	Check connections and make sure they are secure.
LEDs are not lighting up.	LEDs can be turned off, in case they are too bright for dark rooms. Power switch on Nu-Vista PSU is OFF	See page 11 for display controls. See page 11 for starting up.

If none of these actions affect a cure, please contact the dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the Nu-Vista PAS and Nu-Vista PAS PSU, as this will invalidate the guarantee.

NU - VISTA PAS

SPECIFICATIONS

Output power Output voltage Output current Damping factor Output devices Gain	>300W per channel into 8 Ohms 49 Volts RMS, 20Hz to 20 kHz; onset of clipping 130 Amps peak to peak 200 5 pairs per channel 16x (23.5 dB)
THD+N Signal / noise ratio Channel separation Input impedance Input sensitivity for full output Frequency response	< 0.003 % typical, 20Hz to 20 kHz > 108dB 'A'-weighted >96dB 100 k Ohms 3 Volts RMS + 0, –1dB, 5Hz to 50 kHz
Connections Line level inputs	2 pairs line level single ended RCA connectors 2 pairs line level balanced XLR connectors
Line level outputs	1 pair line level single ended RCA connectors 1 pair line level balanced XLR connectors
Speaker outputs	2 pairs 4mm banana plug/binding posts per side
Trigger input and output	3.5mm mono jack socket
Trigger level	±5V to ±12V
Power requirement Mains voltages	115/230VAC 50/60Hz (factory pre-set) 100VAC 50/60Hz (alternative)
Consumption	<0.5W in standby mode 130W on and idle 1060W maximum
Weight Nu-Vista PAS unit only, unboxed Nu-Vista PAS in shipping carton Nu-Vista PAS PSU unit only, unboxed Nu-Vista PAS PSU in shipping carton	27 kg 35 kg 40 kg 50 kg

Maximum Dimensions

Nu-Vista PAS (WxHxD) Nu-Vista PAS PSU (WxHxD)

Standard accessories

1x IEC type mains lead16-Amp type2x PA power cable (1 m length)"Neutrik" type2x Nuvistor PRE power cable (1m length) 5-pin XLR1x Control power cable (1m length)4-pin XLR8x Spike Foot4-pin XLR8x Spike Foot Cup8x Spike Foot Cup8x Felt pad for Spike Foot Cup8x Felt pad for Standard Foot

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.

483 x 187,5 x 475 (494 with connectors) mm

483 x 187,5 x 475 (478 with connectors) mm



NU - VISTA PAS

MANUAL HISTORY **DISPOSAL INFORMATION**

RELEASE

DATE

CHANGES

Nu-Vista PAS & PAS PSU

25th November 2022

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1<sup>st</sup> issue
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DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact local government office or retailer for available collection facilities.



DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Rohs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.



DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclarse como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otra basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.



RIFIUTI

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio govenativo locale od il rivenditore del prodotto.



FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

HÄVITTÄMINEN

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen lövtämiseksi.



AFSKAFNING

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.



ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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MUSICAL FIDELITY

Musical Fidelity

a Division of Audio Tuning Vertriebs GmbH Margaretenstraße 98, A-1050, Vienna, Austria

www.musicalfidelity.com

Specifications and details are correct as we go to press, but in the interests of product improvement they may be subject to change during manufacture.