

MICHI



P430

Stereo Control Amplifier

Préamplificateur Stéréo

Stereo-Vorverstärker

Preamplificador Estereofónico

Stereo-regelverstärker

Preamplificatore Stereo

Stereokontrollförstärkare

Предварительный стерео усилитель

Owner's Manual

Manuel de l'utilisateur

Bedienungsanleitung

Manual de Instrucciones

Gebruikershandleiding

Manuale di istruzioni

Instruktionsbok

Инструкция пользователя

Important Safety Instructions

Notice

The RS232 connection should be handled by authorized personnel only.

WARNING: There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to moisture or water. Do not expose the unit to dripping or splashing. Do not place objects filled with liquids, such as vases, on the unit. Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with a dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 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.

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

Only use attachments/accessories specified by the manufacturer.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus 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 apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

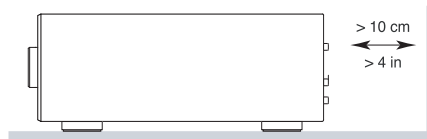
The apparatus should be used only in a non-tropical climate.

The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Touching uninsulated terminals or wiring may result in an unpleasant sensation.

You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the back of the unit.



WARNING: The rear panel power cord connector is the mains power disconnect device. The device must be located in an open area that allows access to the cord connector.

The unit must be connected only to a power supply of the type and voltage specified on the rear panel. (USA: 120 V / 60 Hz, EC: 230 V / 50 Hz)

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable. Do not use extension cords.

In order to completely disconnect the unit from the supply mains, remove the main plug from the unit and the AC power outlet. This is the only way to completely remove mains power from the unit.

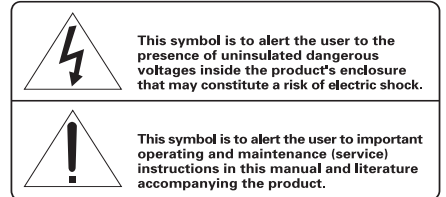
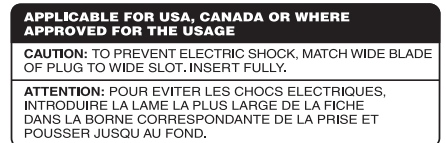
The batteries in the remote control should not be exposed to excessive temperatures such as sunshine, fire or other heat sources. Batteries should be recycled or disposed in accordance with local regulations.

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.

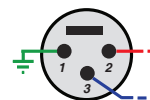
This product shall be connected to a MAINS socket outlet with a protective earthing connection.

The MAINS plug or an appliance coupler is used as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Do not touch the unit during normal operation. Before moving the unit, switch it off. Use the remote control for additional function selection and settings.



Michi products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheeled bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.



Pin Assignments

Balanced Audio (3 pole XLR):
Pin 1: Ground / Screen
Pin 2: Hot (+, in phase)
Pin 3: Cold (-, out of phase)



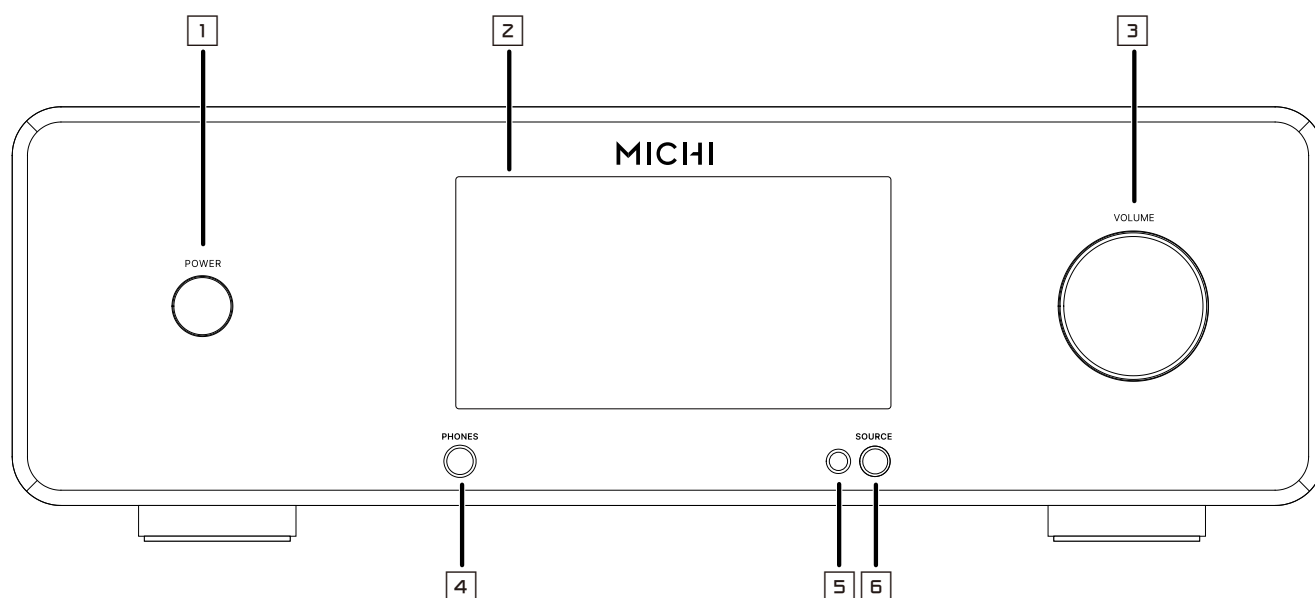
AC symbol, Alternating current



Direct current



Figure 1-1: Controls and Connections
Commandes et branchements
Bedienelemente und Anschlüsse
Controles y Conexiones
De bedieningsorganen en de aansluitingen
Controlli e collegamenti
Kontroller och anslutningar
Органы управления и разъемы



1: Power Button and Indicator
 Activate the unit or put it into standby mode.

2: Display

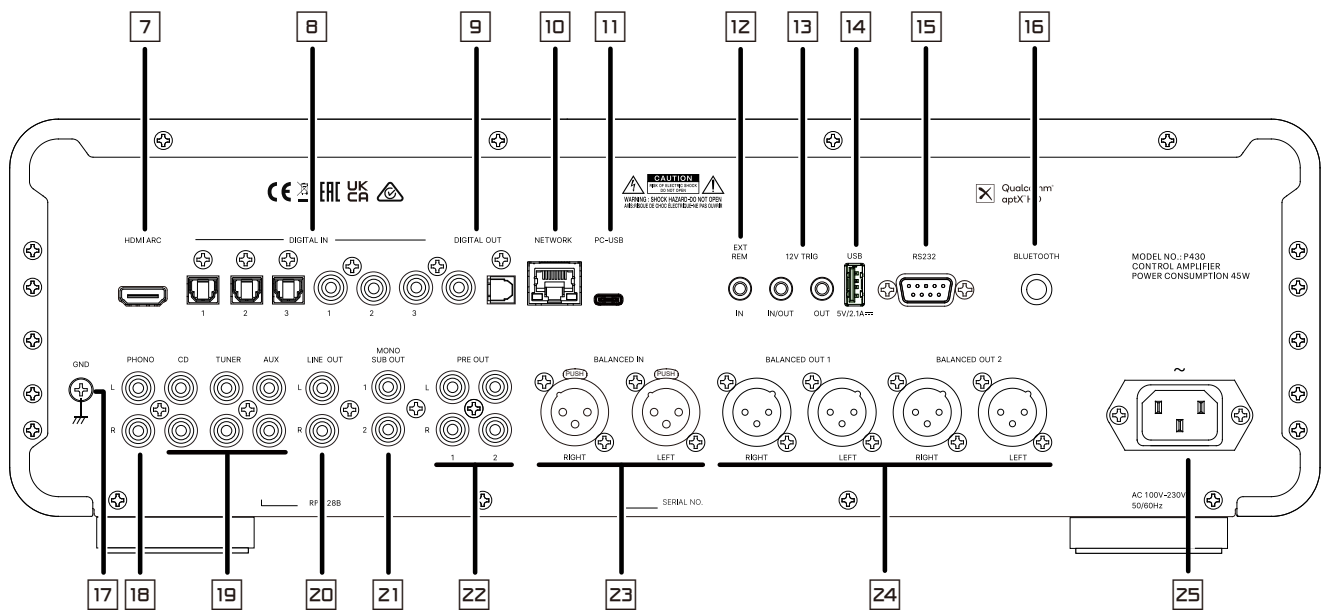
3: Volume Knob
 Adjust the volume output level.

4: Headphone Output
 Connect headphones for private listening.

5: Remote sensor
 Receives IR commands from the remote control.

6: Source Button
 Used to select the desired listening source.

Figure 1-2: Controls and Connections
Commandes et branchements
Bedienelemente und Anschlüsse
Controles y Conexiones
De bedieningsorganen en de aansluitingen
Controlli e collegamenti
Kontroller och anslutningar
Органы управления и разъемы



7: HDMI ARC

Connect an HDMI ARC compatible cable from this socket to the HDMI ARC port on your TV to receive 2-channel audio on the unit.

8: Digital Input

Connect to coaxial or optical PCM outputs of your source component.

9: Digital Output

Connect to an outboard D/A converter or other digital processor.

10: Network Port

11: PC-USB Input

Receive command codes from industry-standard infrared receivers via hard-wired connections.

13: 12V Trigger Connections

Send or receive a 12V trigger signal.

14: Rear USB Port

Used for software updates.

15: RS232

Used for integration with automation systems.

16: Bluetooth Antenna

Used for wireless streaming via Bluetooth

17: Ground Connector

Connect with a "ground" wire from the turntable.

18: Phono Input

Connect to a turntable.

19: CD Input/ Tuner Input/ Aux Input

Analog "line level" inputs

20: Line Output

Connect to a separate processor device.

21: Mono Sub Output

Connect to a subwoofer.

22: Preamplifier Output

Connect to an external power amplifier.

23: Balanced Input

24: Balanced Outputs

25: AC Power Input

Figure 2 : Remote Control RR-MH31
Télécommande infrarouge RR-MH31
Fernbedienung RR-MH31
Mando a Distancia RR-MH31

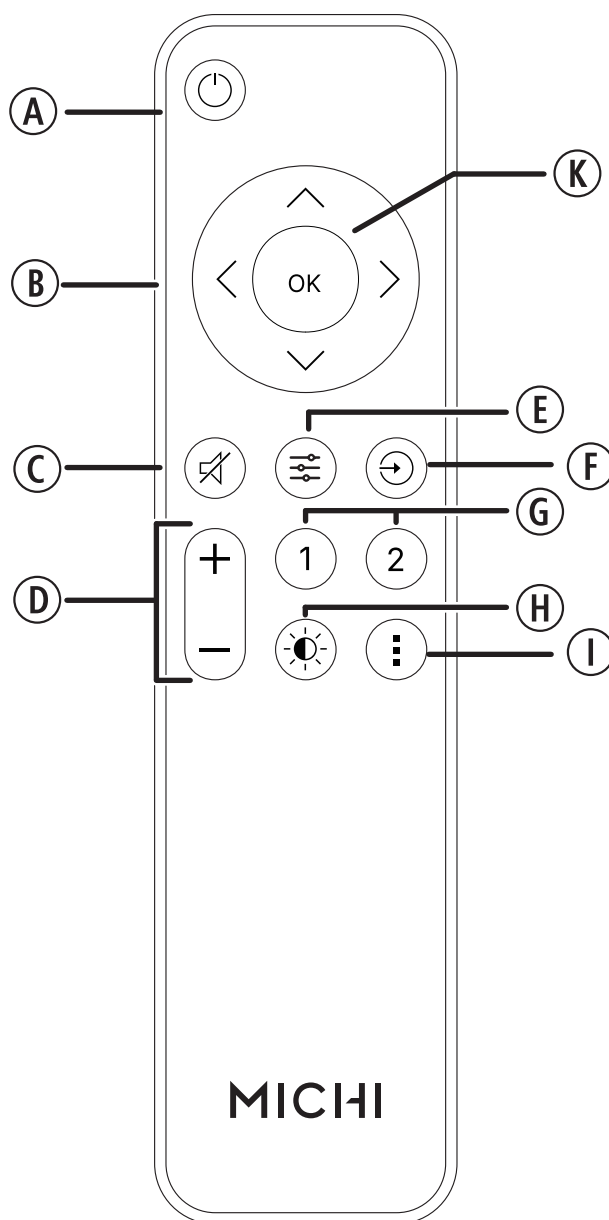
Afstandsbediening RR-MH31
Telecomando RR-MH31
Fjärrkontroll RR-MH31
Пульт ДУ RR-MH31

Ⓐ: Power Button
 Activate the unit or put it into standby mode.

Ⓑ: Navigation Buttons
 Access the various menus and operate the unit settings.

Ⓒ: Mute button
 Mute the audio.

Ⓓ: Volume Buttons
 Adjust the volume output level.



Ⓚ: OK Button
 Confirm the selected setting.

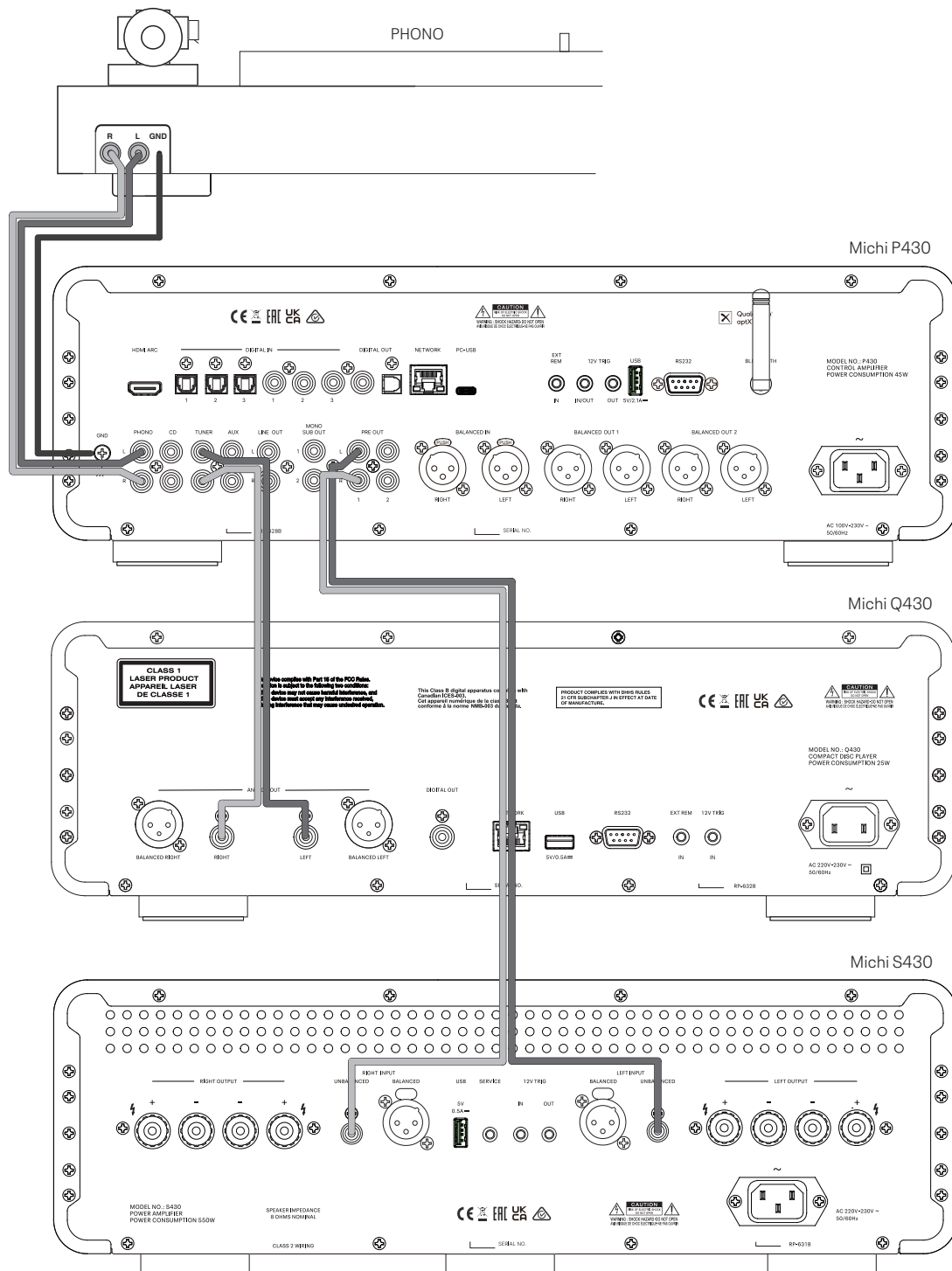
Ⓔ: Audio Button
 Temporary adjustments to the Balance, Bass and Treble settings.

Ⓖ: Source Button
 Select the input signal source.

Ⓗ: Preset Buttons
 Source input preset and recall buttons.

Ⓗ: Dim Button
 Dim the front display.

Ⓘ: Setup Button
 Open the setup menu on the front display.

Figure 3 : Analog Input and Output Connections**Branchements des entrées et sorties analogiques****Anschlussdiagramm (analoge Eingangsanschlüsse, Ausgangsanschlüsse)****Conexiones de Entrada Analógicas y de Salida****Analoge ingangen en uitgangen****Collegamenti ingressi ed uscite analogici****Anslutningar för analoga in-och utgångar****Аналоговые входы и выходы**

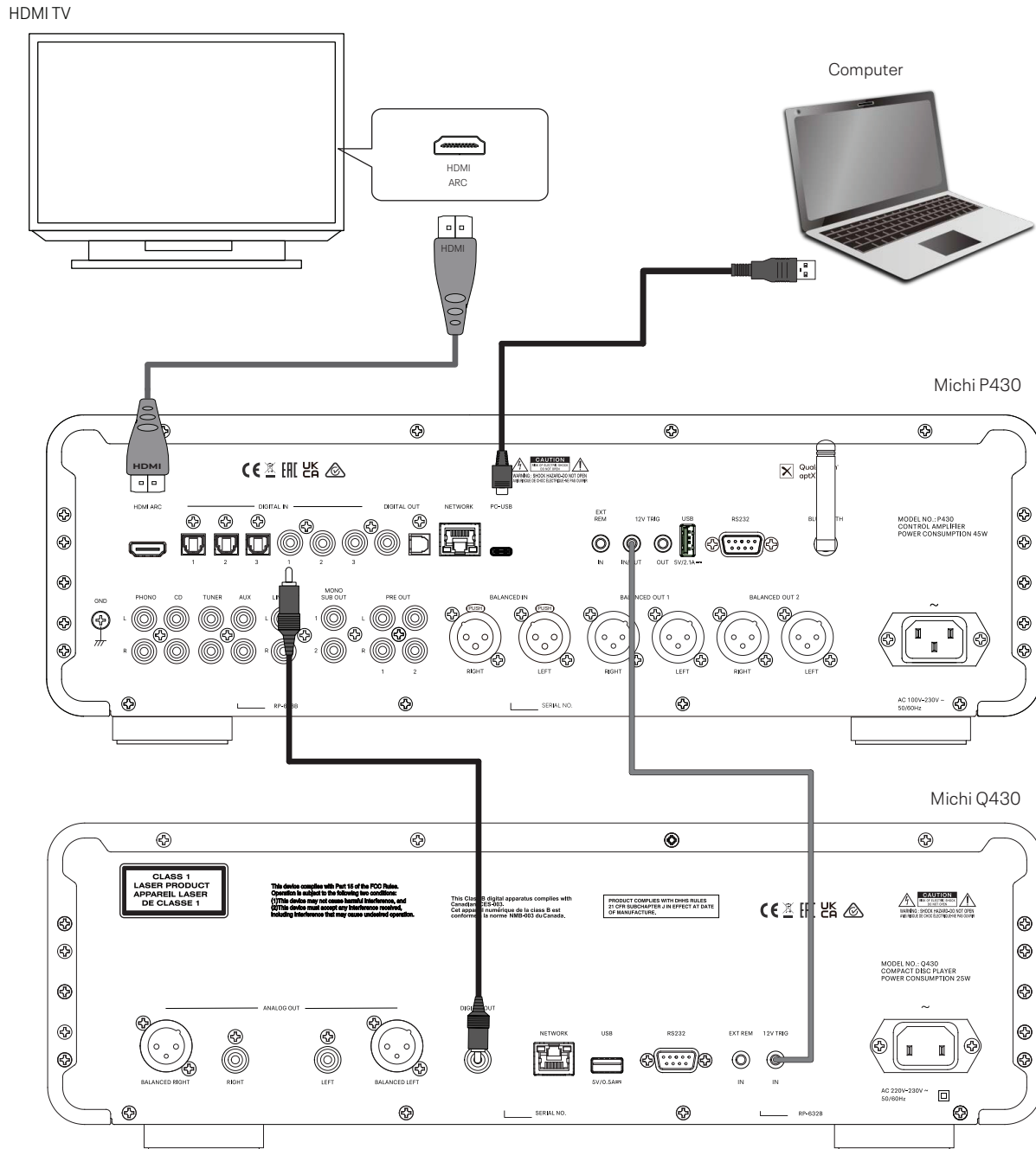
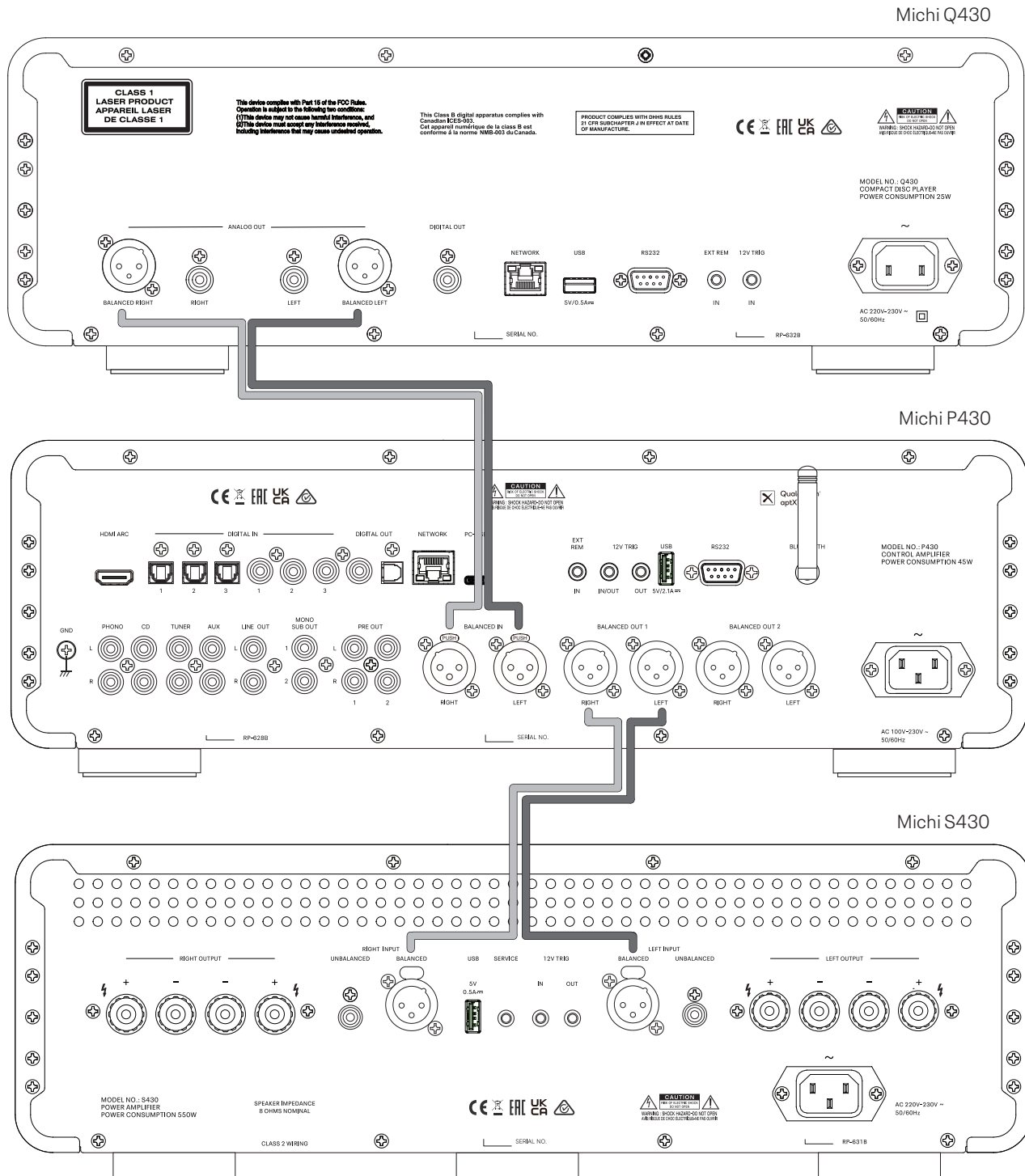


Figure 5 : Balanced (XLR) Inputs and Outputs Connections
Branchements des entrées et sorties symétriques (XLR)
Symmetrische Ein- und Ausgangsanschlüsse (XLR)
Entradas y Salidas Balanceadas (XLR)
Gebalanceerde ingangen (XLR) en uitgangen
Collegamenti ingressi ed uscite bilanciati (XLR)
Balanserade in- och utgångar (XLR)
Балансные (XLR) входы и выходы



Important Notes

When making connections, be sure to:

- ✓ Turn off **all** the components in the system **before** connecting **any** components, including loudspeakers.
- ✓ Turn off **all** components in the system **before** changing **any** of the connections to the system.

It is also recommended that you:

- ✓ Turn the volume control fully down **before** switching the unit **on or off**.

Remarques importantes

Pendant les branchements, assurez-vous que :

- ✓ **Tous** les maillons sont éteints **avant** leur branchement, **quels qu'ils soient**, y compris les enceintes acoustiques.
- ✓ Éteignez **tous** les maillons **avant** de modifier **quoi que ce soit** au niveau de leurs branchements, quels qu'ils soient.

Il est également recommandé de :

- ✓ Toujours baissez le niveau sonore via le contrôle de volume, **avant d'allumer ou d'éteindre** l'unité.

Wichtige Hinweise

Achten Sie beim Herstellen der Verbindungen auf Folgendes:

- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Geräte (einschließlich Lautsprecher) anschließen.
- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Anschlüsse im System verändern.

Ferner empfehlen wir, dass

- ✓ Sie die Lautstärke herunterdrehen, **bevor** Sie den Einheit **ein-** oder **abschalten**.

Notas Importantes

Cuando realice las conexiones, asegúrese de que:

- ✓ Desactiva **todos** los componentes del equipo, cajas acústicas incluidas, **antes** de conectar **cualquier nuevo componente** en el mismo.
- ✓ Desactiva **todos** los componentes del equipo **antes** de cambiar **cualquier conexión del mismo**.

También le recomendamos que:

- ✓ Reduzca el nivel de volumen de su unidad a cero **antes** de **activarlo o desactivarlo**.

Héél belangrijk

Bij het maken van de verbindingen:

- ✓ Zorg dat niet alleen de P430, maar de **gehele** installatie uitstaat, als nog niet **alle** verbindingen gemaakt zijn.
- ✓ Zorg dat niet alleen de P430, maar de **gehele** installatie ook uitstaat, **als** u verbindingen gaat **wijzigen**.

Wij raden u ook aan om

- ✓ De volumeregelaar van de eenheid geheel dicht te draaien (volkomen linksom) **wanneer** u uw eindversterker **aan- of uitzet**.

Note importanti

Quando effettuate i collegamenti assicuratevi di:

- ✓ Spegner **tutti** i componenti del sistema **prima** di collegare **qualsiasi** componente, inclusi i diffusori.
- ✓ Spegner **tutti** i componenti del sistema **prima** di modificare **qualsiasi** connessione nel sistema.

Vi raccomandiamo inoltre di:

- ✓ Portare il volume a zero **prima** di **accendere o spegnere** l'unità.

Viktigt

Tänk på följande när du gör anslutningar:

- ✓ Stäng av **alla** apparater i anläggningen **innan** du ansluter nya komponenter eller högtalare.
- ✓ Stäng av **alla** apparater i anläggningen **innan** du ändrar någon anslutning.

Du rekommenderas också:

- ✓ Vrida ner volymen på enheten helt och hållet **innan** enheten slås **på eller av**.

Важные замечания

Перед подсоединением:

- ✓ Выключите **все** компоненты, включая колонки.
- ✓ Выключите **все** компоненты в вашей системе, прежде чем что-то в ней **менять**.

Рекомендуется также:

- ✓ Вывести громкость единицы на **минимум**, перед тем как **включать или выключать** его.

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Getting Started

Thank you for purchasing the Michi P430 Stereo Control Amplifier. When used in a high-quality music audio system, your Michi product will provide years of musical enjoyment.

The unit is a full-featured, high-performance component. All aspects of the design have been optimized to retain the full dynamic range and subtle nuances of your music. The unit has a highly regulated power supply incorporating a Michi custom-designed toroidal power transformer and custom-made slit foil capacitors. This low impedance power supply has ample power reserves, which enables the unit to easily reproduce the most demanding audio signals. This design is more costly to manufacture, but it is intended to improve audio performance.

The printed circuit boards (PCB) are designed with Symmetrical Circuit Traces. This ensures that the precise timing of the music is maintained and faithfully recreated. The unit circuitry uses metal film resistors and polystyrene or polypropylene capacitors in important signal paths. All aspects of this design have been examined to ensure the most faithful music reproduction.

The main functions of the unit are easy to install and use. If you have experience with other stereo systems, you will find the unit easy to install and use. Simply connect the associated components and enjoy.

A Few Precautions

WARNING: To avoid potential damage to your system, turn off ALL the components in the system when connecting or disconnecting the loudspeakers or any associated components. Do not turn the system components back on until you are sure all the connections are correct and secure. Pay particular attention to the speaker wires. There must be no loose strands that could contact the other speaker wires, or the chassis of the unit.

Please read this manual carefully. It provides information on how to incorporate the unit into your system as well as information that will help you get optimum sound performance. Please contact your authorized Michi dealer for answers to any questions you might have.

Save the shipping carton and all enclosed packing material for future use. Shipping or moving the unit in anything other than the original packing material may result in severe damage to the unit.

If included in the box please complete the owner's registration card or register online at www.rotel.com/register. Also be sure to keep the original sales receipt. It is your best record of the date of purchase, which you will need in the event warranty service is ever required.

Placement

Like all audio components that handle low-level signals, the unit can be affected by its environment. Do not place the unit on top of other components. Also avoid routing audio signal cables near power cords. This will minimize the chance it will pick up hum or interference.

The unit generates heat as part of its normal operation. There should be 10 cm (4 inches) of clearance around the back of the chassis, and reasonable airflow through the installation location, to prevent the unit from overheating.

Remember the weight of the unit when you select an installation location. Make sure that the shelf or cabinet can support it. We recommend installing

the unit in furniture designed to house audio components. Such furniture is designed to reduce or suppress vibration which can adversely affect sound quality. Ask your authorized Michi dealer for advice about component furniture and proper installation of audio components.

The unit is supplied with a remote control. Place the unit where the infrared signal can reach the front-panel remote sensor.

Cables

Keep power cords, digital signal cables, and analog audio cables separated during installation. This will minimize the chance of the analog audio signal cables picking up noise or interference from the power cords or digital cables. Using only high-quality, shielded cables will also help to prevent noise or interference from degrading the sound quality of your system. If you have any questions, see your authorized Michi dealer for advice about the best cable to use with your system.

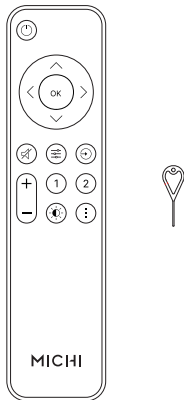
Remote Control RR-MH31

Some functions can be done with either the front panel controls, or the supplied remote control. When these operations are described, the square call out numbers refer to the main unit, while the encircled letters refer to the remote control.

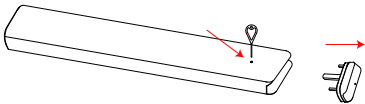
Remote Control Batteries

Two AAA size batteries must be installed before the remote control can be used. To install the batteries, follow the steps below:

1. Locate the battery compartment opener tool included with the unit.



2. Push the supplied tool into the hole on the back of the remote then the battery cover will pop out.



3. Install the batteries as shown in the illustration in the battery compartment (Figure 2). Please note there are negative and positive marks shown on the battery cover (Figure 1). Check carefully to ensure the polarity of the batteries match the markings on the cover.

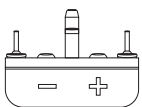


Figure 1

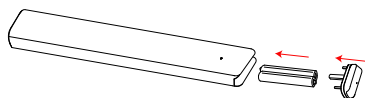


Figure 2

When the batteries are low, the remote control may not operate reliably. Installing fresh batteries should eliminate the problem.

NOTE: Use only the tool supplied with the unit to remove the battery cover to avoid damage to the remote.

AC Power and Control

AC Power Input 25

Your unit is configured at the factory for the proper AC line voltage in the country where you purchased it (either 120 volts AC or 230 volts AC with a line frequency of either 50 Hz or 60 Hz). The AC line configuration is noted on a decal on the back panel.

NOTE: Should you move your unit to another country, it is possible to reconfigure your unit for use on a different line voltage. Do not attempt to perform this conversion yourself. Opening the enclosure of the unit exposes you to dangerous voltages. Consult a qualified service person or the Michi factory service department for information.

NOTE: Some products are intended for sale in more than one country and as such are supplied with more than one AC cord. Use only the AC cord appropriate for your country or region.

Because of its relatively high power rating, the unit can draw considerable current. Therefore, it should be plugged directly into a polarized wall outlet using the supplied cable or other high-current compatible cable as recommended by your authorized Michi dealer. Do not use an extension cord. A heavy duty multi-tap power outlet strip may be used if it (and the wall outlet) is rated to handle the current demanded by the unit and all the other components connected to it.

If you are going to be away from home for an extended period of time such as a month-long vacation, it is a sensible precaution to unplug your unit (as well as other audio and video components) while you are away.

Power Switch and Power Indicator 1 A

Press the front panel Power Switch button 1 to turn the unit on. The Power ring is brightly illuminated when the unit is on. Press the Power Switch button again to turn the unit off.

When the power switch on the front panel is in the ON position, the remote control ON/OFF button A may be used to activate the unit. To power off the unit, **press and hold** the ON/OFF button A for approximately 2 seconds until the unit enters standby. In Standby mode the indicator light is dimly illuminated, but the display is turned off.

NOTE: If you are using a switched outlet to turn on and off your unit, you should leave the power switch in the "ON" position. When AC power is applied to the unit, it will turn on in active mode.

12V TRIGGER Connection 13

See Figure 4

Some audio components can be turned on automatically when they receive a 12 V signal. The two 12V Trigger Outputs of the unit provide the required signal. Connect compatible components to the unit with a conventional 3.5 mm mono mini plug cable. When the unit is in standby mode or turned off, the trigger signal is interrupted, so the connected components also automatically power off.

The 12V Trigger connection labeled as IN/OUT can be configured as either a trigger INPUT or OUTPUT. When the HT BYPASS mode is enabled in the Setup Menu the IN/OUT trigger is automatically configured as a 12V Trigger Input. When the HT BYPASS mode is enabled in the Setup Menu and the trigger input receives a HIGH signal the unit will automatically Power On and the HT Bypass Source Input (AUX or XLR) will be selected. The volume level will be set to a fixed level as configured in HT BYPASS LEVEL. This option is ideal when the unit is connected to a Home Theater Receiver or Surround Processor allowing the home theater Left and Right speakers to route directly through the unit.

NOTE: If HT BYPASS is set to DISABLED the IN/ OUT 12V Trigger will be configured as an OUTPUT.

Input Signal Connections

NOTE: To prevent loud noises that neither you nor your speakers will appreciate, make sure the system is turned off when you make any signal connections.

HDMI ARC Input ⁷

See Figure 4

The HDMI ARC (Audio Return Channel) input accepts 2-channel PCM audio up to 48 kHz, 24 bit from a TV. The unit cannot process multi-channel audio such as Dolby® Digital or DTS. Audio sent via ARC must be down-mixed to 2-channel stereo. To use the ARC input the HDMI cable must be connected to the TV's ARC HDMI connector and the relevant settings on the display device set-up correctly.

The HDMI CEC function includes HDMI-CEC power control and HDMI CEC volume control. HDMI-CEC power control allows the unit to be powered ON or OFF automatically when the TV power state changes. Vice versa, the TV will also follow the unit to be powered on or off via the remote control. HDMI-CEC volume control allows the unit's volume to be controlled by the TV remote. To use this function the current listening source on the unit must be set to HDMI ARC.

NOTE: Not all TVs support power control or volume control of the unit. The TV must also have CEC Power Control and CEC Volume Control set to be Enabled if these 2 options are available in the TV setup.

Digital Signal Inputs ⁸

See Figure 4

There are three sets of digital inputs labeled 1, 2 and 3 for COAXIAL and OPTICAL respectively. Connect the COAXIAL or OPTICAL PCM outputs of your source component into these sockets. The digital signals will be decoded and played by the unit. The unit is capable of decoding PCM signals up to 24 bit, 192kHz.

PC-USB Input ¹¹

See Figure 4

Connect this input to the USB socket of your computer or audio streamer.

The unit supports USB Audio Class 2.0 modes. To take advantage of USB Audio Class 2.0 audio playback supporting up to 384 kHz sampling rates you will need to install the Windows driver supplied on the USB Flash Drive included with the unit.

Many audio playback applications do not support 384 kHz sampling rate. Please confirm your audio player supports a 384 kHz audio and you have 384 kHz audio files to properly playback this sample rate. Also, you may need to

configure the audio driver in your PC to output 384 kHz or your computer may "downsample" to a lower audio sample rate. For more information please refer to your audio player or operating system information.

The unit has been certified as Roon Tested and compatible with Roon software via PC-USB.

roon
TESTED

Being Roon Tested means that Michi and Roon have collaborated to ensure you have the best experience using Roon software and the unit together, so you can just enjoy the music.

NOTE: USB Audio Class 2.0 requires installation of the Windows PC driver on the USB included with the unit.

NOTE: MAC computers do not require a driver to support PC-USB 1.0 or 2.0 audio.

NOTE: Upon successful installation of the driver, you may need to select the Michi audio driver from the audio/speaker setup of your computer.

NOTE: The unit supports both DSD and DOP audio playback in 1X and 2X formats. Consult your audio player to confirm proper operation for playback of these audio formats.

Bluetooth Connection ¹⁶

The Bluetooth Antenna ¹⁶ on the back panel enables wireless streaming via Bluetooth from mobile phones, tablets or computers. For best reception, position the antenna vertically. Pair by selecting Michi Bluetooth on your device. Connection is normally automatic, but if prompted for a password, please press "0000" on your device. The unit supports Bluetooth audio streaming, including AAC and aptX™ HD.

Phono Input ¹⁸ and Ground Connection (GND) ¹⁷

See Figure 3

Plug the cable from the turntable into the appropriate left and right phono inputs. The phono input is designed for Moving Magnet (MM) cartridges. If the turntable has a "ground" wire, connect it to the screw terminal to the left of the Phono inputs. It will help prevent hum and noise.

Line Level Inputs ¹⁹

See Figure 3

The CD, Tuner, and Aux inputs of the unit are analog "line level" inputs. These inputs are for connecting components such as CD players or other audio playback devices with an analog audio output.

The left and right channels are clearly labeled and should be connected to the corresponding channels of the source component. The Left connectors are white, the Right connectors are red. Use high-quality RCA cables for connecting input source components to the unit. Ask your authorized Michi dealer for advice about cables.

Balanced (XLR) Inputs ²³

See Figure 5

A pair of balanced XLR inputs accepts audio signals from a CD player, Blu-ray player or other source components with XLR outputs.

NOTE: You should choose only one method of analog connection from a source component to the unit. Do not connect both the RCA and XLR outputs of a source component to the unit at the same time.

Output Connections

Digital Output 9

If you are using an outboard D/A converter or other digital processor, you will need an unprocessed digital data stream from the amplifier. Using a standard 75 ohm coax/optical digital cable, connect the P430's digital output to the digital input connector on the outboard D/A converter.

Line Output 20

The line output connectors can be used to send the analog audio to a separate processor device. These outputs bypass the volume encoder and are full line level output. They should be connected to the analog inputs of the processor. As with other sources be sure to connect the Left and Right channels of each device to the proper channels on the associated components. Use high quality connecting cables to prevent loss of sound quality.

MONO SUB Output 21

There are two mono subwoofer output connectors for connection to one or two subwoofers. These mono outputs are summed with both the left and right audio signal. They are parallel outputs allowing 2 subwoofers to be connected to the unit.

Preamp Output 22

See Figure 3

The RCA-type output connectors are compatible with most power amplifiers. As always, select high-quality audio interconnect cables. Connect the P430's left and right PRE OUT connectors to the corresponding inputs on the power amplifier.

NOTE: There are two sets of RCA outputs on the P430. The second set of outputs may be used in custom system configurations to drive a second power amplifier or to supply a signal to a special signal processor.

NOTE: Changes to the settings of the Volume, Balance or Tone controls affect the signal from the Preamp Output.

Balanced (XLR) Output 24

See Figure 5

Two pairs of XLR balanced connectors supply an analog output signal from the unit to a power amplifier with XLR balanced input connectors.

NOTE: Do not connect both the RCA and XLR to the same amplifier at the same time.

Network Connection 10

The unit can be attached to a network using the rear panel NETWORK socket 10. The network configuration allows both static and DHCP IP addressing. See the Network section of this manual under Setting Menu for IP address configuration information.

The NETWORK connection allows software updates to be downloaded from the Internet. The NETWORK connection also allows IP control for integration with automation systems.

For additional information on the IP control, please contact your authorized Michi dealer.

EXT REM IN Jack 12

This 3.5mm mini-jack receives command codes from industry-standard infrared receivers via hard-wired connections. This feature could prove useful when the unit is installed in a cabinet and the front-panel sensor is blocked. Consult your authorized Michi dealer for information on these external repeaters and the proper wiring of a jack to fit the mini-jack receptacle.

Rear USB Port 14

The rear USB port is only used for software updates. For more information on updating the software version via USB, contact your authorized Michi dealer.

RS232 15

The unit can be controlled via RS232 for integration with automation systems. The RS232 input accepts a standard straight DB-9 Male-to-Female cable.

For additional information on the connections, software, and operating codes for RS232 control of the unit, contact your authorized Michi dealer.

Front Panel Overview

The following is a brief overview of the controls and features on the front panel of the unit.

Display 2

The front panel display shows the source selected, volume level and audio format when using a digital source. The display can be dimmed using the setup menu or the IR remote control. See the Display Configuration section of this manual for details.

Volume Control 3

Turn the knob clockwise to increase the volume, or counterclockwise to decrease the volume.

Headphone Output 4

The headphone output allows you to connect headphones for private listening. This output accepts a standard 3.5mm (1/8") mini stereo headphone connector.

NOTE: Because the sensitivity of speakers and headphones can vary widely, always reduce the volume level before connecting or disconnecting headphones.

IR Remote Sensor 5

This remote sensor window receives IR commands from the remote control. Please do not block this sensor.

Source Button 6

Press the source button on the front panel to toggle through the options and select the desired listening source. After 1 second of no action the listed source will be selected as the active source.

Press and hold the front panel source button for approximately 5 seconds to enter the Language menu. Rotate the Volume knob to select the desired language, then press source button to confirm the selection.

Setup Menu

The unit features a front display to help operate the system. A comprehensive menu system is available at any time by pressing the Setup ① button on the remote control. These menus guide you through the configuration and setup of the unit. The settings configured during the setup process are permanently saved as the default settings and do not need to be adjusted again for normal operation of the unit.

Overview of Buttons and Controls

This section provides a basic overview of the buttons and controls on the remote control. Detailed instructions on the use of these buttons are provided in the more complete operating instructions in the following sections.

Power Button ① (A): The Power button on the remote control activates or deactivates the unit.

Power On - To power on the unit, press and release the Power button (A) on the IR remote control.

Power Off/Standby - To put the unit into the standby mode, **press and hold** the remote control Power button (A) for 2 seconds.

Navigating (B) and **OK** (K) **Buttons:** Use the navigation buttons ^ / v / < / > and the OK button (K) on the remote control to access the various menus and operate the unit settings.

Mute Button ② (C): Press the ② button once to mute the audio. An indication appears on the front panel display. Press the button again to restore the previous volume level.

VOL +/- Buttons (D): The VOL +/- buttons (D) on the remote provide the master VOLUME control, adjusting the output level.

Audio Button ③ (E): The AUDIO button allows temporary adjustments to the Balance, Bass and Treble settings. To change these settings press the AUDIO button on the remote control and navigate to the desired setting using the ^ / v button and press the OK (K) button. Use the ^ / v button to change the value. Press the AUDIO button again to exit the menu or to exit the Audio menu.

NOTE: A properly setup Hi-fi system should not require changes to the Bass or Treble setting. Use these adjustments sparingly.

NOTE: These settings are temporary and not saved when the unit is powered off to Standby. For permanent changes, configure the audio settings in the setup menu.

Source Button ④ (F): The Source button on the remote control selects the input signal source. Press the Source button to enter the source menu then press the Source button to toggle through the listed source. After 1 second of no action the listed source will be selected as the active source.

NOTE: Only sources that are configured as ACTIVE in the setup menu will be displayed as options.

Preset Buttons ⑤ (G): The Preset buttons are used to memorize and recall a signal source input. To save a signal source, **press and hold** the preset button for 3 seconds. To recall a signal source simply press and release the desired button. Repeating a press and hold of an existing preset will replace the preset with the current source input.

Dim Button ⑥ (H): Dims the front display. Press and release the DIM button to dim the display to the preset brightness level. **Press and hold** the DIM button to reduce the display brightness to the lowest level for minimal distraction during listening.

NOTE: The DIM level change from the remote control is only temporary until powered off. To permanently change the brightness use the Display Brightness setting under the DISPLAY option in the setup menu.

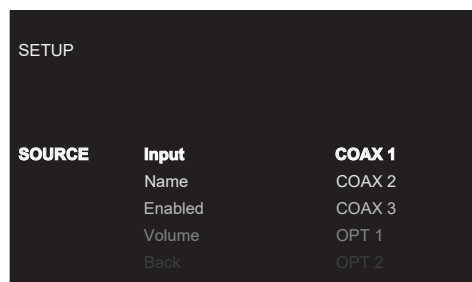
Setup Button ⑦ (I): The Setup button activates the setup on the front display. Press the setup button again to return to the previous menu, or exit the setup menu if you are already at the top level.

Main Menu



The SETUP menu provides access to screens for various configuration options. The Setup menu is reached by pressing the Setup ① button on the remote. To select the desired menu, move the highlight using the ^ / v (B) buttons and press the OK (K) button on the remote control. Press the Setup ① button to return to the previous menu or select "EXIT" to end setup and return to normal operation.

Source Configuration



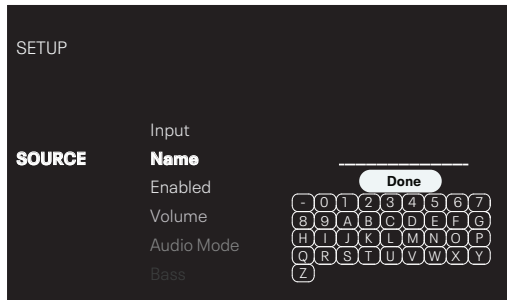
A key step in setting up the unit is to configure each source input using the Source Setup screens. Configuring the inputs allows you to set defaults for a number of settings including enable or disable the source and other options.

The Source menu in the Setup menu provides the following options, selected by placing the highlight on the desired line using the ^ / v (B) arrow buttons

and pressing the OK (K) button. This action displays the right side options allowing changes. Change the options using ^ / v (B) arrow buttons.

Input: Select an input from the list that you wish to configure. (COAX 1, COAX 2, COAX 3, OPT 1, OPT 2, OPT 3, PC-USB, BLUETOOTH, ARC, COMPACT DISC, PHONO, TUNER, AUX, XLR)

Name: The name of the source can be customized. For example AUX can be named "TV" for easier reference. The default NAME is the same as the Input. Place the highlight on this option and use the ^ / v (B) buttons on the remote control to select "Custom" then press the OK (K) button to enter the source name edit sub menu as below.



1. Press the ^ / v (B) arrow buttons on the remote control to change the first letter, scrolling through the list of available characters.
2. Press the OK (K) button on the remote control to confirm that letter and move to the next position.
3. Repeat steps 1 and 2 until all 10 characters have been completed. You can select the "Done" button to confirm if you have less than 10 characters to enter.

Enabled: Allows a source input to be enabled and appear in the list of source input options when using the source selection on the front panel or IR remote control. Unused sources should be disabled by selecting "No".

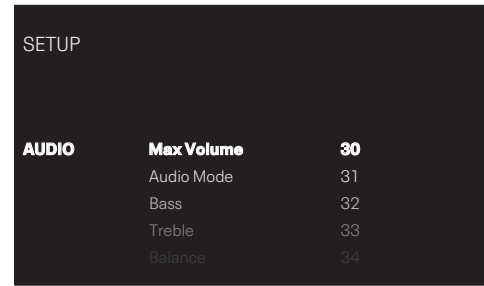
Options include: Yes (Default), No.

Volume: Configures a Fixed Volume level for a specified input. This volume level is immediately set when this source input is selected and cannot be changed using the front panel or IR remote. This is useful for input sources that include their own volume setting like Apps on phones or tablets.

Options include: Variable (Default), 30 - 96.

Press the Setup (I) on the remote control to exit the setup menu or select "Back" to return to the main menu.

Audio Configuration



The Audio menu in the Setup menu provides the following options, selected by placing the highlight on the desired line using the ^ / v (B) arrow buttons and pressing the OK (K) button. This action displays the right side options allowing changes. Change the options using the ^ / v (B) arrow buttons.

Max Volume: This sets the max volume level for the audio of the unit.

Options include: 30 - 96, 96 (Default).

Audio Mode: Configures audio mode to Direct Bypass or Tone Enabled.

Options include: Direct Bypass (Default), Tone Enabled.

Bass: Bass setting is enabled when Audio Mode is set to Tone Enabled.

Options include: +10 to -10 (Default 0).

Treble: Treble setting is enabled when Audio Mode is set to Tone Enabled.

Options include: -10 to +10 (Default 0).

Balance: The Balance Setting adjusts the left-to-right balance of the sound output. The factory default is the center position or "0".

Options include: L10 to R10, 0 (Default).

PC-USB Decoding: Set to DSD/PCM 24B Audio to support DSD audio files up to 4X (DSD256) and PCM audio files up to 24-bit. To support PCM audio files up to 32-bit select the PCM 32B Only however DSD audio is not supported under this option.

Options include: DSD/PCM 24B (Default), PCM 32B Only.

HT Bypass: This option enables the Home Theater Bypass mode allowing audio signals to be routed directly through the unit from a Surround Sound Processor or Receiver output. Typical use is to connect the analog output RCA Preoutput Front Left and Front Right signals from the processor or receiver to the AUX INPUT or XLR INPUT on the unit. The audio is routed on the most direct path disabling Tone control at a unity gain setting or fixed level to the unit's amplifier circuits.

To active the Home Theater Bypass select the desired source input connection in the setup menu then select the specified source using the front panel or remote control. When the HT BYPASS source is selected the volume controller is disabled allowing the volume to be controlled by the Home Theater Processor or Receiver.

Valid settings include: Disabled (Default), AUX, XLR.

When HT Bypass is enabled the 12V Trigger labeled IN/OUT is configured as an INPUT. This allows the Home Theater Receiver or Surround Processor to automatically power on the unit and select the HT Bypass source input. Connect the 12V Trigger IN/OUT to the 12V Trigger Output of the Receiver or Processor to enable automatic power control.

When HT Bypass is enabled and the Home Theater system's 12V Trigger OUT is connected to this unit's 12V IN/OUT.

- When the current source input is **NOT** set to the HT Bypass input (AUX / XLR) or was previously listening to another input source, the unit's input source automatically switches to the HT Bypass input and enter HT Bypass mode. When the Home Theater is powered off, the unit returns to the previous input source.
- When the current source input is set to the HT Bypass input (AUX / XLR), the unit enters HT Bypass mode. When the Home Theater is powered off, the unit automatically powers off.

HT Bypass Level: This option allows customization of the amplification level used in the Home Theater Bypass mode. Select the $\wedge / \vee$ amplifier gain levels if needed to match the home theater processor or receiver output levels.

Valid settings include: -10 to +3, 0 (Default).

NOTE: Most level adjustments are done in the Home Theater Processor or Receiver so these adjustments should only be used if the amplifier gain output cannot be matched with the Home Theater source.

Signal Sense: Monitors if an audio signal is present on the configured Signal Sense input. The unit monitors the data stream to determine if there is audio. If there is no audio detected for 10 minutes, the unit will enter Signal Sense Power Mode. When in Signal Sense Power Mode and the unit detects audio on the Signal Sense input, the unit will automatically power on. To disable this function, select the "Disabled" option which is the factory default setting.

Options include: Disabled (Default), Auto, COAX 1, COAX 2, COAX 3, OPT 1, OPT 2, OPT 3, PC-USB, BLUETOOTH, ARC.

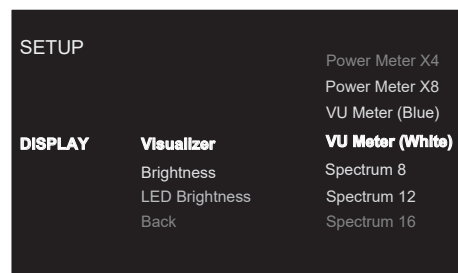
NOTE: When the unit enters standby mode via the remote control, the Signal Sense function will not operate until the unit detects the audio has stopped for the minimum 10 minute time-out period. This prevents the unit from immediately powering back on if there is still active audio playing.

NOTE: When the Signal Sense function is activated, the unit will consume additional power in signal sense standby mode.

NOTE: Due to local power consumption regulations the Signal Sense function is not available in all markets.

Press the Setup $\textcircled{1}$ on the remote control to exit the setup menu or select "Back" to return to the main menu.

Display Configuration



The Display menu in the Setup menu provides the following options, selected by placing the highlight on the desired line using the $\wedge / \vee$ $\textcircled{B}$ arrow buttons and pressing the OK $\textcircled{K}$ button. This action displays editable options on the right side. Change the options using the $\wedge / \vee$ $\textcircled{B}$ arrow buttons.

Visualizer: The display can show audio activity as a VU meter, power meter, or spectrum analyser. The display can also be configured as Off during normal operation. Select the desired setting using the $\wedge / \vee$ arrow buttons and press the OK button to confirm.

Options include: Off, Power Meter, Power Meter X2, Power Meter X4, Power Meter X8, VU Meter (Blue), VU Meter (White) (Default), Spectrum 8, Spectrum 12, Spectrum 16.

Brightness: This function sets the brightness of the front display. The front display will always activate at the brightest level regardless of the Brightness setting to ensure the unit configuration options can easily be accessed and modified.

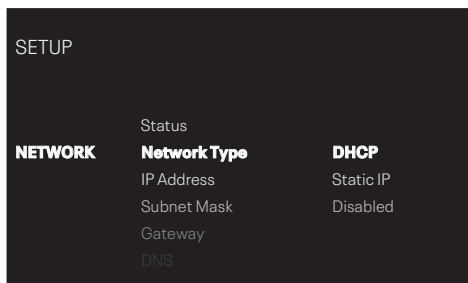
Options include: High (Default), Medium, Low.

LED Brightness: Sets the brightness of the ON level of the front panel Power LED.

Options include: High, Medium, Low (Default).

Press the Setup $\textcircled{1}$ on the remote control to exit the setup menu or select "Back" to return to the main menu.

Network Configuration



The Network menu in the Setup menu provides the following options, selected by placing the highlight on the desired line using the $\wedge / \vee$ $\textcircled{B}$ arrow buttons and pressing the OK $\textcircled{K}$ button. This action displays the right side options allowing changes. Change the options using the $\wedge / \vee$ $\textcircled{B}$ arrow buttons.

Status: If the network is properly configured and attached to the network then "Connected" will be displayed. If the network is not properly configured or not connected to a network, "Disconnected" will be displayed.

Network Type: In most systems, set the IP ADDRESS MODE to DHCP. This setting will allow your router to assign an IP address to the unit automatically. If your network uses fixed IP addresses, set the IP ADDRESS MODE to Static. To disable the IP connection set this option to DISABLED.

Options include: DHCP (Default), Static IP, Disabled.

IP Address/Subnet Mask/Gateway/DNS: Disabled if Network Type is DHCP or Disabled. If STATIC mode is selected you must configure all settings for the network including IP Address, Subnet Mask, Gateway and DNS Server. Press the OK button to activate the first digit in the line you want to change, then use the $\wedge / \vee$ (B) arrow buttons to adjust the values and press the OK button to cycle to the next digit. When the proper IP information is configured press the OK button to move the cursor back to the previous menu and accept the settings. After entering the STATIC IP address information the network will be tested and connection status reported.

NOTE: For more information regarding network connection please contact your authorized Michi dealer.

NOTE: A network connection is not required for the unit to operate.

Renew IP Address: Disabled if Network Type is Static or Disabled. If Network Type is DHCP then select Yes and press the Enter K button to renew the IP address.

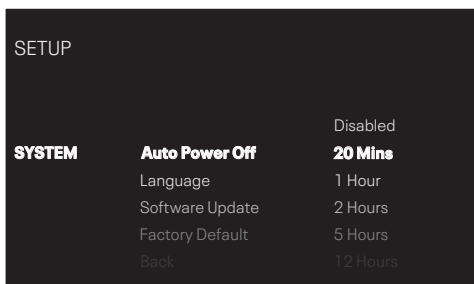
Network Standby: When set to Enabled the unit will maintain the Ethernet IP connection even in Standby Mode allowing the unit to be powered on via IP. If Disabled the unit will not power on from the IP connection and must use either the front panel, IR remote or RS232 to power on the unit.

Options include: Disabled (Default), Enabled

NOTE: When Network Standby is enabled the unit will consume additional power.

Press the Setup (I) button on the remote control to exit the setup menu or select "Back" to return to the main menu.

System Configuration



The System menu in the Setup menu provides the following options, selected by placing the highlight on the desired line using the $\wedge / \vee$ (B) arrow buttons and pressing the OK (K) button. This action displays the right side options allowing changes. Change the options using the $\wedge / \vee$ (B) arrow buttons.

Auto Power Off: Set how long the unit stays powered on when there is no audio signal. The unit will automatically go to standby mode if audio is not detected for the specified timer period. Default: 20 Mins.

Options include: Disabled, 20 Mins (Default), 1 Hour, 2 Hours, 5 Hours, 12 Hours.

Language: Select a language for the menu system.

Options include: English (Default), 中文, Español, Português BR, Français, Deutsch, Italiano, Русский, Český, Svenska, Polski, Nederlands.

Software Update: Select the desired update method.

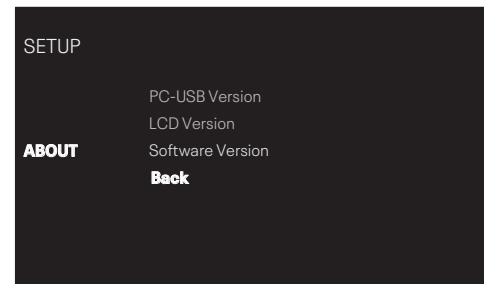
Options include: No (Default), USB, Internet.

Factory Default: This option restores the unit to its factory-default settings. All user settings will be erased.

NOTE: Use caution when resetting the unit to factory defaults as all user-configured options will be erased and reset to original factory settings.

Press the Setup (I) on the remote control to exit the setup menu or select "Back" to return to the main menu.

Software Information



The ABOUT menu displays detailed information about the unit's main software, PC-USB version and LCD version. This section is useful for verifying the current software level and determining whether an update is available.

Software Version: This shows the current main software version.

PC-USB Version: This shows the current software version for PC-USB processor.

LCD Version: This shows the current software version for LCD driver.

NOTE: The ABOUT menu is view-only. No settings can be adjusted from this menu.

Press the Setup (I) on the remote control to exit the setup menu or select "Back" to return to the main menu.

Troubleshooting

Most difficulties in audio systems are the result of incorrect connections, or improper control settings. If you encounter problems, isolate the area of the difficulty, check the control settings, determine the cause of the fault and make the necessary changes. If you are unable to get sound from the unit, refer to the suggestions for the following conditions:

Power Indicator Is Not Illuminated

The Power Indicator ring around the power button and the basic items in the Display window should be illuminated whenever the unit is plugged into the wall power outlet and the POWER switch is pushed in. If it does not light, test the power outlet with another electrical device, such as a lamp. Be sure the power outlet being used is not controlled by a switch that has been turned off.

Fuse Replacement

If another electrical device works when plugged into the power outlet, but the Power Indicator still does not illuminate when the unit is plugged into the wall outlet, it indicates that the internal power fuse may have blown. If you believe this has happened, contact your authorized Michi dealer to get the fuse replaced.

No Sound

Check the signal source to see if it is functioning properly. Make sure the cables from the signal source to the unit inputs are connected properly. Check the wiring between the unit and the speakers.

Cannot Connect via Bluetooth

If you cannot pair your Bluetooth enabled device to the unit, delete the memory of the previous connection on your device. On your device this is often listed as "Forget this Device". Then try to make the connection again.

Playable Audio Formats

aptX™ HD Bluetooth and AAC

Format	Notes
Any format supported by the sending device.	May exclude Apps designed to play formats not originally supported by the sending device.

PC-USB

Format	Notes
Format determined by the Media Player/ Server software that you use.	Any supported format by the PC software PCM Audio: 44.1k, 48k, 88.2k, 96k, 176.4k, 192k, 384k (16 bit, 24 bit and 32 bit) DSD64, DSD128 and DSD256 (up to 4X, 11.2 MHz) DoP (up to 2X, 5.6 MHz) Roon Tested

Coax/Optical

Format	Notes
SPDIF LPCM	44.1k, 48k, 88.2k, 96k, 176.4k, 192k 16 bit, 24 bit

Specifications

Total Harmonic Distortion	< 0.002%
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)	< 0.002%
Input Sensitivity / Impedance	
Phono Input (MM)	2.5 mV / 47k Ohms
Line Level Inputs (RCA)	160 mV / 33k Ohms
Line Level Inputs (XLR)	320 mV / 55k Ohms
Input Overload	
Phono Input (MM)	69 mV
Line Level Inputs (RCA)	4.1 V
Line Level Inputs (XLR)	12 V
Output Level	
Line Level (RCA) / Impedance	1 V / 100 Ohms
Blanced (XLR) / Impedance	2 V / 200 Ohms
Frequency Response:	
Phono Input	20 Hz - 20 kHz, 0 ± 0.3 dB
Line Level Inputs (RCA)	10 Hz - 100 kHz, 0 ± 0.3 dB
Line Level Inputs (XLR)	10 Hz - 100 kHz, 0 ± 0.3 dB
Tone Controls	
Bass	±10 dB at 100 Hz
Treble	±10 dB at 10 kHz
Signal to Noise Ratio (A weighted)	
Phono Input (MM)	82 dB
Line Level Inputs (RCA)	110 dB
Line Level Inputs (XLR)	106 dB

Digital Section

Frequency Response	20 Hz - 20 kHz (0 ± 0.3 dB)
Signal to Noise Ratio (IHF "A" weighted)	103 dB
Input Sensitivity/Impedance	0 dBfs / 75 ohms
Preamplifier Output Level	1.35 V (at -20 dB)
Digital to Analog Converter	ESS ES9028PRO DAC
Coaxial/Optical Digital Signals	SPDIF LPCM (up to 192 kHz 24 bit)
PC-USB	USB Audio Class 2.0 (up to 384 kHz 32 bit)* *Driver installation required Support DSD (up to 4X, 11.2 MHz) and DoP (up to 2X, 5.6 MHz) Roon Tested Support CEC with ARC function 2-channel PCM only (up to 48 kHz, 24 bit)
HDMI	

GENERAL

Power Requirements:	
USA:	120 volts, 60 Hz
EC:	230 volts, 50 Hz
Power Consumption	45 watts
Standby Power Consumption	
Normal	< 0.5 watts
Network wakeup	< 2 watts
BTU	98 BTU/h
Dimensions (W x H x D)	431 x 148 x 404 mm (17 x 5 ⁵ / ₈ x 16 ins.)
Front Panel Height	131 mm, 5 ¹ / ₈ ins
Weight (net)	10.8 kg, 23.8 lbs.

All specifications are accurate at the time of printing.

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