MICHI

X430

Stereo Integrated Amplifier
Amplificateur Stéréo Intégré
Stereo-Vollverstärker
Amplificador Integrado Estereofónico
Geïntegreerde stereoversterker
Amplificatore integrato stereo
Integrerad stereoförstärkare
Интегрированный 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 persons 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 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.

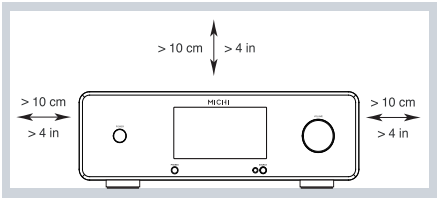
The apparatus should be used in non tropical climate.

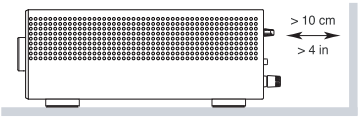
The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

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

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.

Use Class 2 wiring for speaker connections to ensure proper installation and minimize the risk of electrical shock.

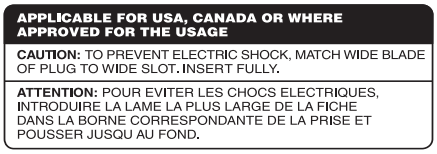
The batteries in the remote control should not be exposed to excessive temperature such as sunshine, fire or other heat sources. Batteries should be recycled or disposed as per state and local guidelines.

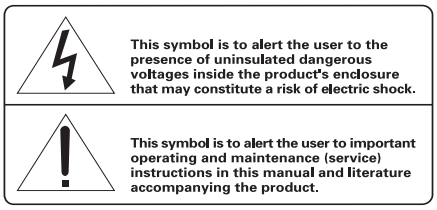
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

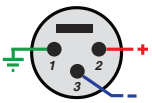
The MAINS plug or an appliance coupler is used as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Do not touch the unit during normal operation. If you want to move the unit, please power it off first and please use remote control to do additional function selection/setting.





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 wheelie bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.



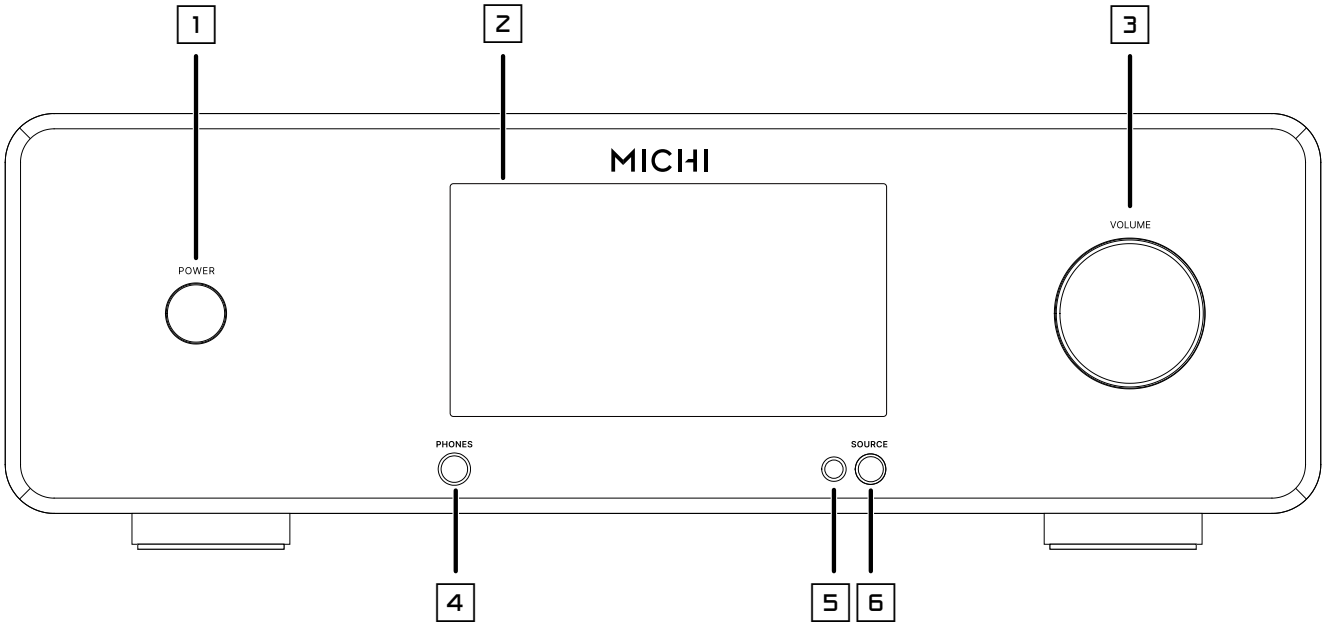
Pin Assignments

Balanced Audio (3 pole XLR):
Pin 1: Ground / Screen
Pin 2: In phase / +ve / Hot
Pin 3: Out of phase / -ve / Cold

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
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Controlli e collegamenti
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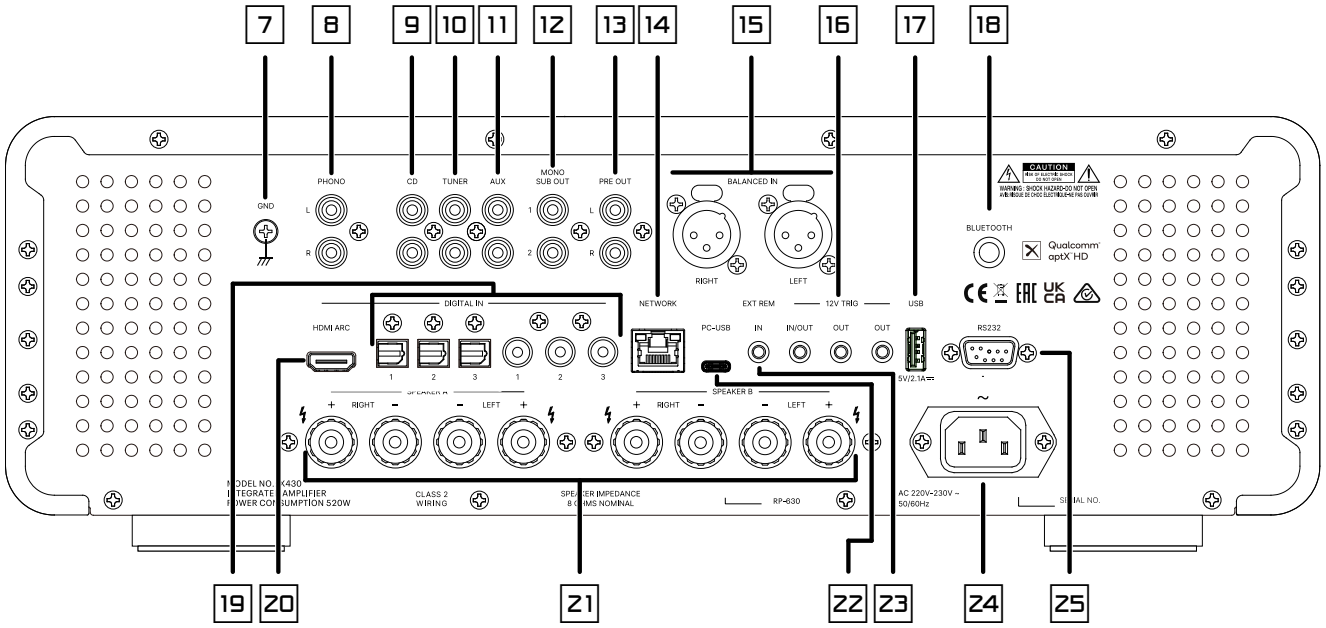


7 : Ground Connector
Connect with a "ground" wire from the turntable.

8 : Phono Input
Connect to a turntable.

9 : CD Input
10 : Tuner Input
11 : Aux Inputs
Analog "line level" inputs

12 : Mono Sub Output
Connect to a subwoofer.

13 : Preamplifier Output
Connect to the integrated amplifier or power amplifier.

14 : Network Port

15 : Balanced Input

16 : 12V Trigger Connections
Send or receive a 12V trigger signal.

17 : USB Power Port
Use for software update and powering USB devices.

18 : Bluetooth Antenna
Use for wireless streaming via Bluetooth

19 : Digital Input
Connect to coaxial or optical PCM outputs of your source component.

20 :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.

21 : Speaker Connectors

22 : PC-USB Input

23 : EXT REM Input Jack
Receive command codes from industry-standard infrared receivers via hard-wired connections

24 : AC Power Input

25 : RS232
Use for integration with automation systems.

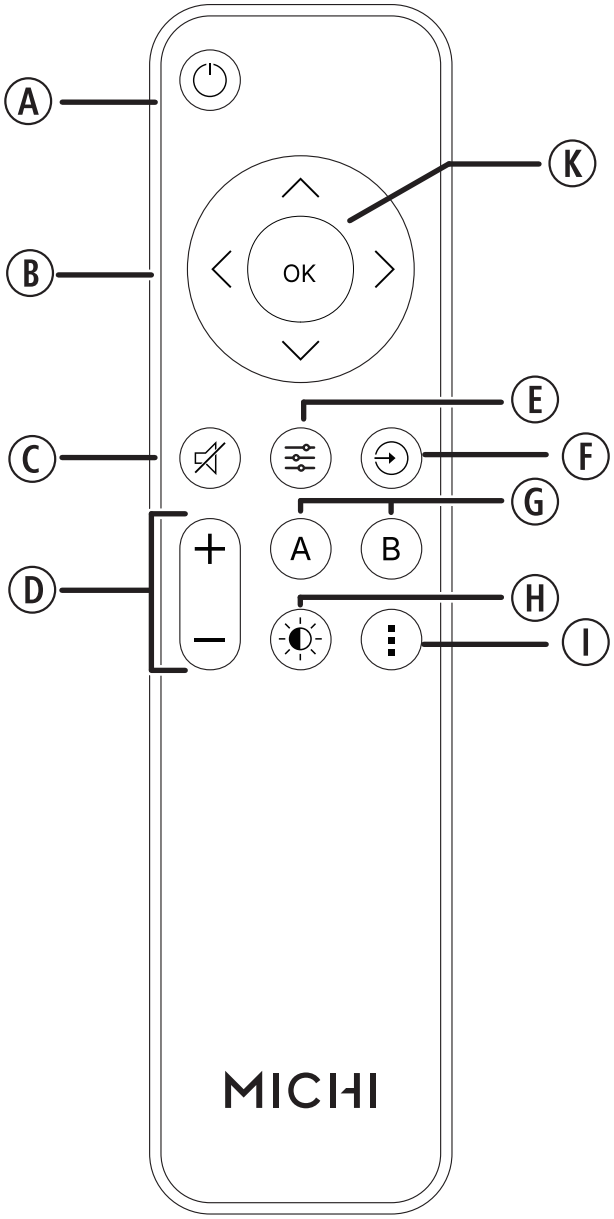
Figure 2 : Remote Control RR-MH30
Télécommande infrarouge RR-MH30
Fernbedienung RR-MH30
Mando a Distancia RR-MH30
Afstandsbediening RR-MH30
Telecomando RR-MH30
Fjärrkontroll RR-MH30
Пульт ДУ RR-MH30

Ⓐ: 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 and desired settings.

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

Ⓕ: Source Button
Select the input signal source.

Ⓖ: A-B speaker selector
Control the speaker outputs.

Ⓗ: Dim Button
Dim the front display.

Ⓘ: Setup Button
Activate the setup screen on the front display.

Figure 3 : Analog Input and Speaker Output Connections
Branchements des entrées analogiques et sorties enceintes acoustiques
Anschlussdiagramm (analoge Eingangsanschlüsse, Ausgangsanschlüsse für die Lautsprecher)
Conexiones de Entrada Analógicas y de Salida a las Cajas Acústicas
Analoge ingangen en luidsprekeruitgangen
Collegamenti ingressi analogici ed uscite diffusori
Anslutningar för högtalare och analoga ingångar
Подсоединение источников сигнала на аналоговые входы и акустических систем

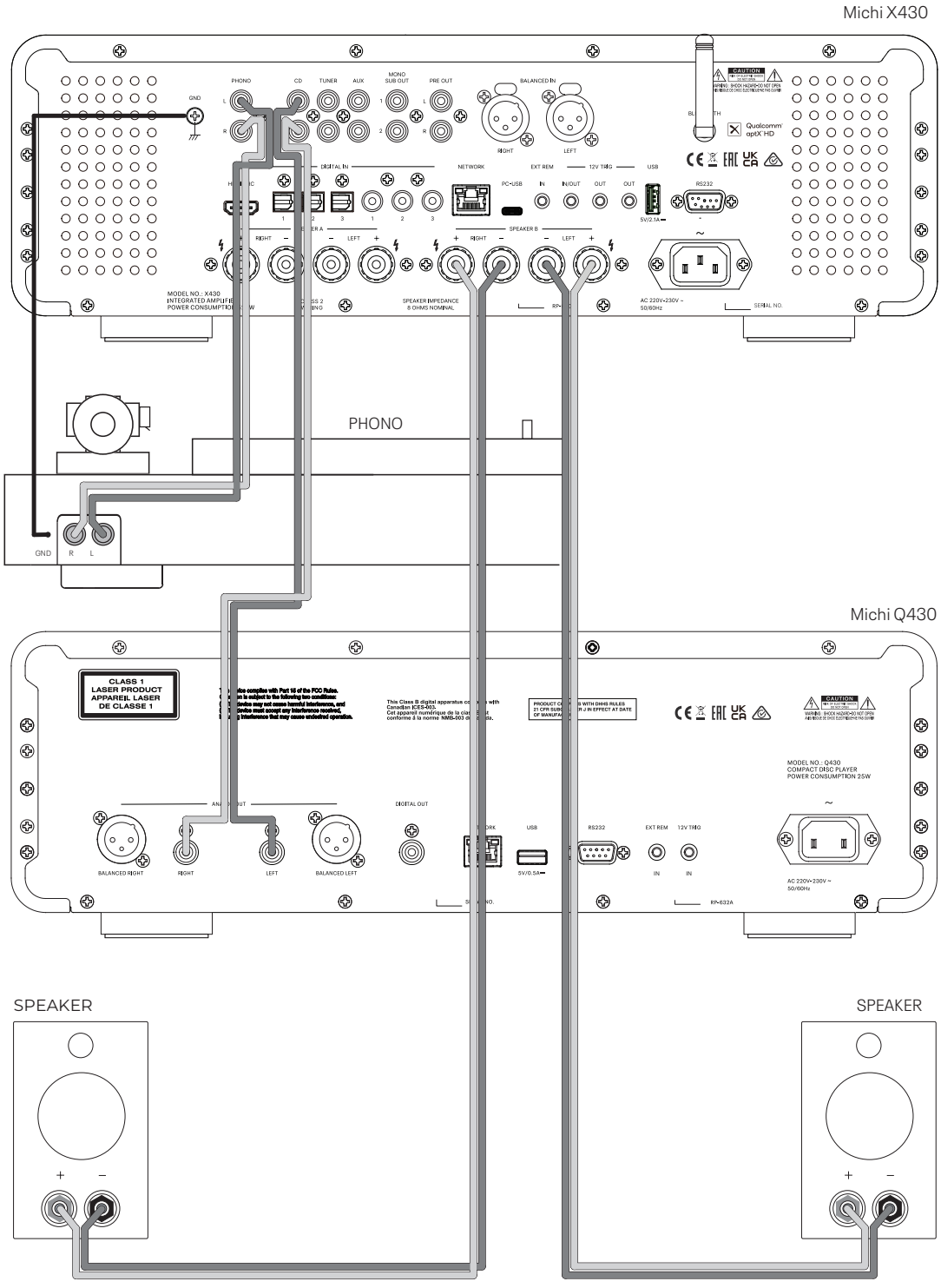


Figure 4 : Digital Input and 12 Volt Trigger Connections
Entrées numériques et Branchements des trigger 12 V
Anschlussdiagramm (Digitaleingänge, 12V-Trigger)
Entrada Digital y Conexiones para Señal de Disparo de 12 Voltios
Digitale ingangen en 12V-trigger
Collegamenti ingressi digitali e segnali Trigger 12 V
Anslutningar för digitala ingångar och 12-volts styrsignaler
Цифровой вход и 12-В триггерного сигнала

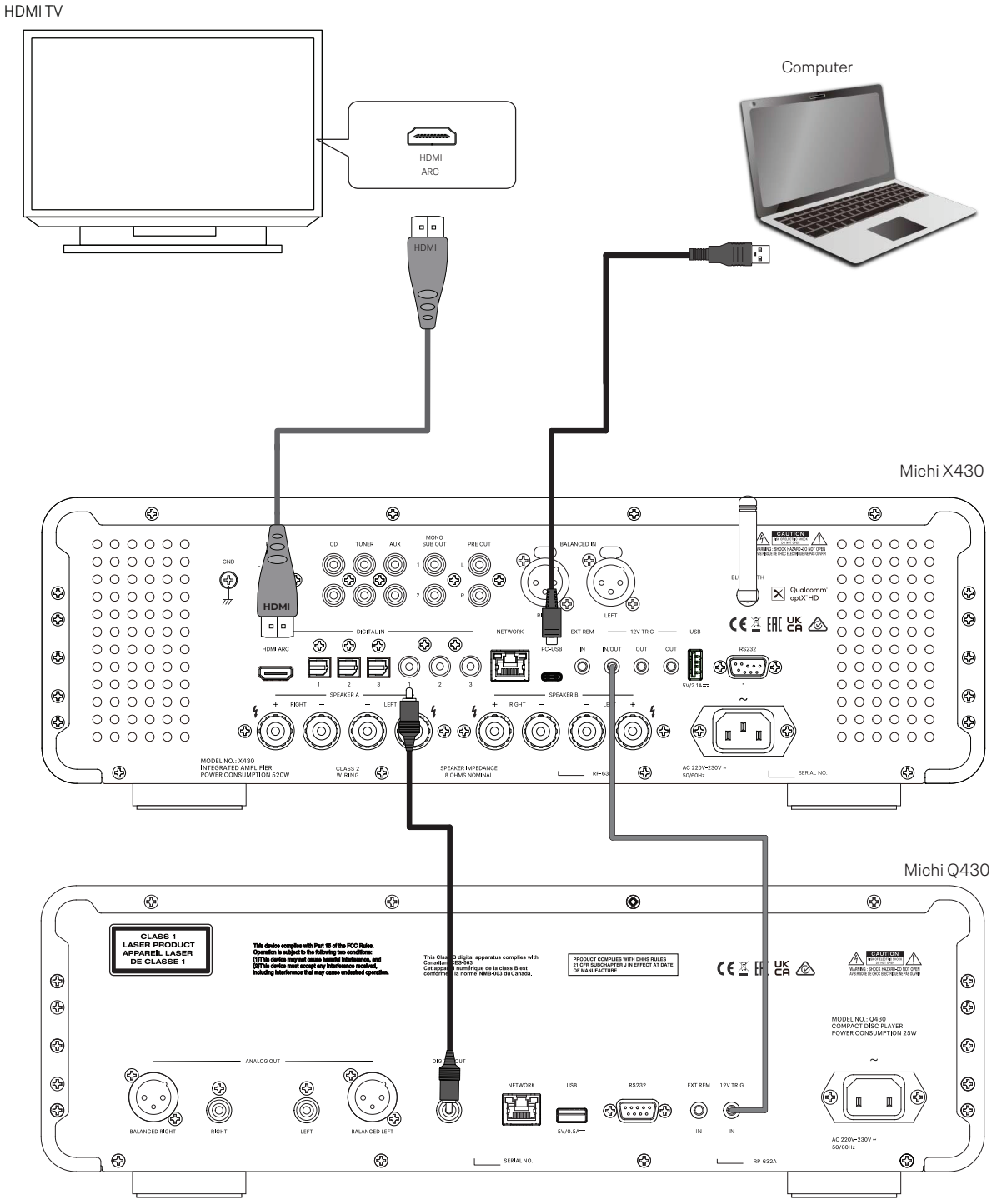
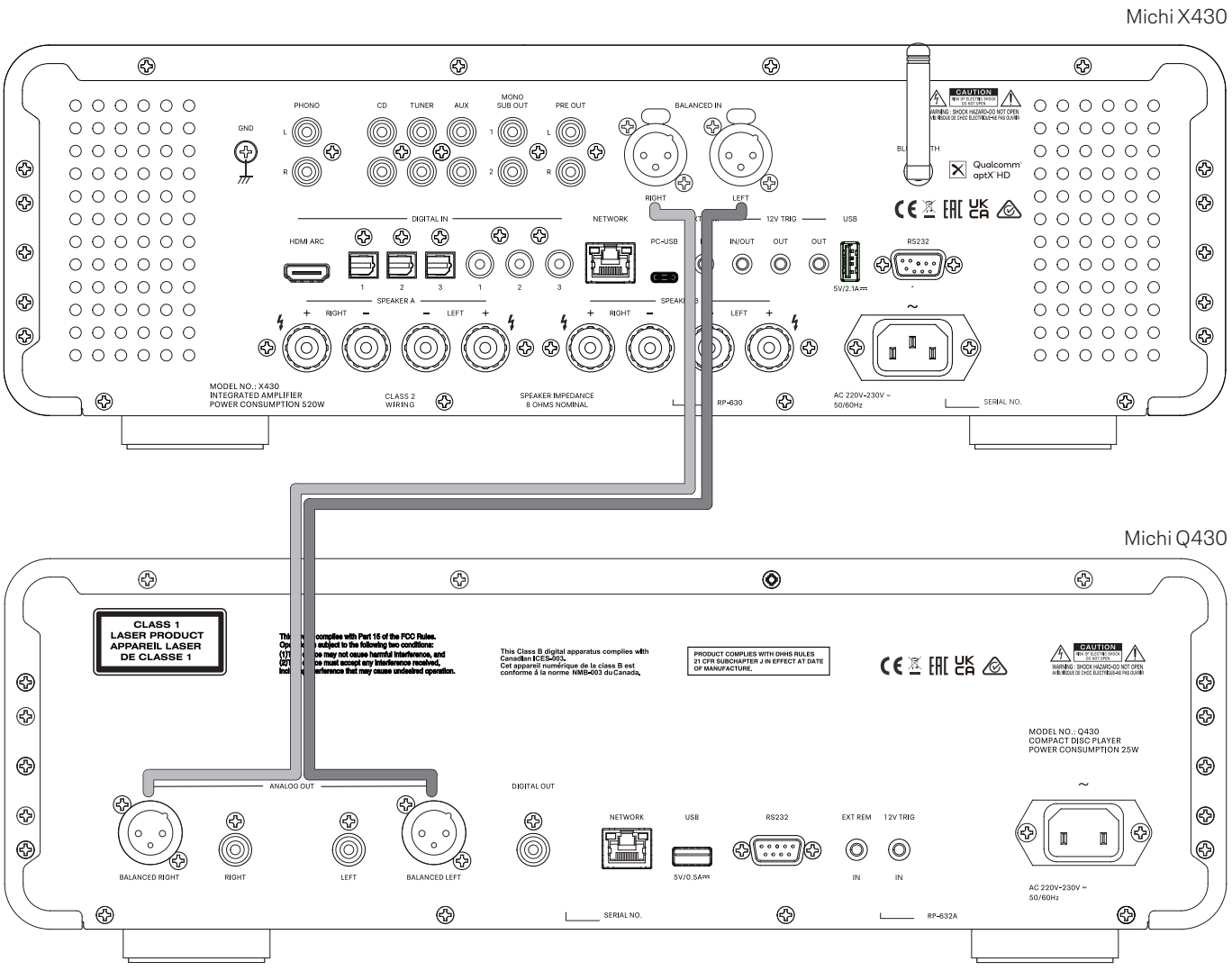


Figure 5 : Balanced (XLR) Inputs Connection
Entrées symétriques (XLR) connexion
Anschlussdiagramm (symmetrische (XLR-) Eingänge)
Conexión de Entradas Balanceadas (XLR)
Aansluiting Gebalanceerde ingangen (XLR)
Collegamenti ingressi bilanciati (XLR)
Balanserade anslutningar (XLR)
Балансные (XLR) Входы Подключение



Important Notes

When making connections be sure to:

✔ Turn off **all** the components in the system **before** hooking up **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 of the unit all the way down **before** the unit is turned **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 **ab**schalten.

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 X430, maar de **gehele** installatie uitstaat, als nog niet **alle** verbindingen gemaakt zijn.

✔ Zorg dat niet alleen de X430, 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:

✔ Spegnere **tutti** i componenti del sistema **prima** di collegare **qualsiasi** componente, inclusi i diffusori.

✔ Spegnere **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.

Contents

A Word About Watts

This unit's power output is rated as 340 watts for each channel, when both channels are operating together at full power. Michi has chosen to specify the power output in this way because, in Michi's experience, it gives the truest value of the amplifier's power capability.

When comparing specifications for different products, you should be aware that power output is often specified in other ways, so you may not be comparing like with like. For example, the power output may be quoted with only one channel operating, giving a higher maximum figure.

A loudspeaker's impedance rating indicates the electrical resistance or load it offers when connected to the unit, usually 8 ohms or 4 ohms. The lower the impedance, the more power the speaker will need. In effect, a 4 ohm speaker will require twice as much power as an 8 ohm speaker.

However, Michi units are designed to work into any speaker impedance between 8 and 4 ohms, and with all the channels working up to their full power. Because Michi designs are optimized for use with all channels operating together, Michi is able to specify the true power output for both channels.

Getting Started

Thank you for purchasing the Michi X430 Stereo Integrated 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 type of design is more expensive to manufacture, but it is better for the music.

The printed circuit boards (PCB) are designed with Symmetrical Circuit Traces. This insures 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 toincorporate the unit into your system as well as information that will helpyou get optimum sound performance. Please contact your authorized Michi dealer for answers

to any questions you might have. In addition, all of us at Michi welcome your questions and comments.

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. The heat sinks and ventilation openings in the unit are designed to dissipate this heat. The ventilation slots in the top cover must be open. There should be 10 cm (4 inches) of clearance around 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 an remote control and must be placed where the infrared signal from the remote can reach the front panel Remote Sensor.

Cables

Be sure to keep the power cords, digital signal cables and analog audio signal cables in your installation away from each other. 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.

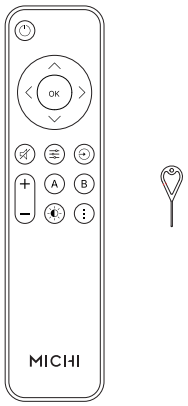
Remote Control RR-MH30

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.

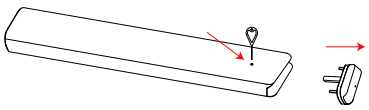
Remote Control Batteries

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

1. Locate the battery compartment opener tool.



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.

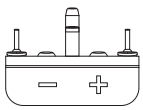


Figure 1

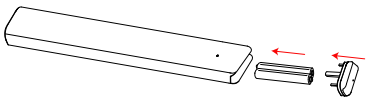


Figure 2

When the batteries become weak the remote control won't operate the device consistently. 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 cover.*

AC Power and Control

AC Power Input Z4

Your unit is configured at the factory for the proper AC line voltage in the country where y ou 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. Please only use the one appropriate for your country/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] Ⓐ

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 is in the ON position, the remote control ON and OFF buttons Ⓐ may be used to activate the unit. 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 power up in fully active mode.*

12V TRIGGER Connection [16]

See Figure 4

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

Protection Circuit

The unit has both thermal and over-current protection circuitry that protects the unit against damage in the event of extreme or faulty operating conditions. The protection circuits are independent of the audio signal and have no impact on sonic performance. Instead, the protection circuits monitor the temperature of the output devices and shut down the unit if temperatures exceed safe limits.

Most likely, you will never see this protection circuitry in action. However, should a faulty condition arise, the unit will stop playing and the Display will show a red warning message and the unit will auto power off.

If this happens, let it cool down for several minutes, and attempt to identify and correct the problem that caused the protection circuitry to engage. When you turn the unit back on, the protection circuit will automatically reset and the red warning message disapppears, indicating that the unit is operating normally.

In most cases, the protection circuitry activates because of a fault condition such as shorted speaker wires, or inadequate ventilation leading to an overheating condition. In very rare cases, highly reactive or extremely low impedance speaker loads could cause the protection circuit to engage.

If the protection circuitry triggers repeatedly and you are unable to isolate and correct the faulty condition, contact your authorized Michi dealer for assistance in troubleshooting.

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.*

Phono Input [8] and Ground Connection (GND) [7]

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 [9] [10] [11]

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 [15]

See Figure 5

A pair of balanced XLR inputs accept audio signals from 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 unit. Do not connect both the RCA and XLR outputs of a source component to the unit at the same time.*

Bluetooth Connection [18]

The Bluetooth Antenna [18] 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 both traditional Bluetooth, AAC and aptX™ HD Bluetooth audio streaming.

Digital Signal Inputs [19]

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.

HDMI ARC Input 20

See Figure 4

The HDMI ARC (Audio Return Channel) input accepts 2-channel PCM audio upto 48 kHz, 24 bit from a TV, The unit cannot process multi-channel audiosuch as Dolby® Digital or DTS, Audio sent via ARC must be down-mixed to2-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 utilizes 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.*

PC-USB Input 22

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.

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.*

Output Connections

MONO SUB Output 12

There are 2 connectors for mono subwoofer output to connect to a subwoofer. 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 13

The unit has a set of preamp outputs labeled PRE OUT. The currently selected source input is available from this output. Typically the PRE OUT output is used to provide a signal to another integrated amplifier or power amplifier, which is used to drive remote speakers.

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

Speaker Outputs 21

See Figure 3

The unit has two sets of speaker outputs, labeled SPEAKER A and SPEAKER B. The speaker outputs are controlled by A-B speaker selector buttons Ⓖ on the remote control.

Speaker Selection

If only one set of speakers will be used at any given time, the speakers may have an impedance as low as 4 ohms. If there are times when both the A and B speakers will be used, all the speakers should have an impedance of 8 ohms or more. Speaker impedance ratings are less than precise. In practice, very few loudspeakers will present any problems for the unit. See your authorized Michi dealer if you have any questions.

Speaker Wire Selection

Use insulated two-conductor stranded wire to connect the unit to the speakers. The size and quality of the wire can have an audible effect on the performance of the system. Standard speaker wire will work, but can result in lower output or diminished bass response, particularly over longer distances. In general, heavier wire will improve the sound. For best performance, you may wish to use high-quality speaker cables for best performance. Your authorized Michi dealer can help in the selection of cables for your system.

Polarity and Phasing

The polarity – the positive/negative orientation of the connections – for every speaker and amplifier connection must be consistent so all the speakers will be in phase. If the polarity of one connection is reversed, bass output will be very weak and stereo imaging degraded. All wire is marked so you can identify the two conductors. There may be ribs or a stripe on the insulation of one conductor. The wire may have clear insulation with different color conductors (copper and silver). There may be polarity indications printed on the insulation. Identify the positive and negative conductors and be consistent with every speaker and amplifier connection.

Speaker Connections 21

NOTE: *The following text describes both binding post and plug-in connections. DO NOT use both connection methods in combination to connect multiple speakers.*

Turn off all the components in the system before connecting the speakers. The unit has color-coded binding post type speaker connectors on the back

panel. These connectors accept bare wire, connector lugs, or dual banana type connectors. (except in European Community countries where their use is not permitted.)

Route the wire from the unit to the speakers. Give yourself enough slack so you can move the components to allow access to the speaker connectors.

If you are using dual banana plugs, connect them to the wires and then plug into the backs of the binding posts. The thumbscrews of the binding posts should be screwed in all the way (clockwise).

If you are using terminal lugs, connect them to the wires. If you are attaching bare wires directly to the binding posts, separate the wire conductors and strip the insulation from the end of each conductor. Be careful not to cut into the wire strands. Unscrew (turn counterclockwise) the binding post. Place the connector lug or wire around the binding post shaft. Turn the binding post clockwise to clamp the connector lug or wire firmly in place.

NOTE: *Be sure there are no loose wire strands that could touch adjacent wires or connectors.*

Network Connection 14

The unit can be attached to a network using the rear panel NETWORK socket 14. The NETWORK configurations allow 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.

Rear USB Power Port 17

The rear USB port is only used for software update.

NOTE: *This port does not allow playback of audio, and will not provide charging or powering USB devices.*

EXT REM IN Jack 23

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.

RS232 25

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 stream format when using a digital source. The display can be dimmed using the setup menu or the IR remote controller. See the Display Configuration section of this manual for details.

VOLUME Control 3

Turn the knob clockwise to increase the volume, or counter clockwise 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. Plugging in a set of headphones does cut off the signal to the speakers.

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 Input Selector 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.

Setup Menu

The unit features an information display to help operate the system. A more comprehensive ON-SCREEN DISPLAY (OSD) menu system is available at any time by pressing the setup button on the remote control. These OSD 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 ⏻ Ⓐ**:** The Power button on the remote control activate or deactivate the unit.

Power On - To power on the unit push and release the Power button Ⓐ the IR remote control.

Power Off/Standby - To power off the unit into the standby mode **PUSH-HOLD** the remote control Power button Ⓐ for 2 seconds.

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

Mute Button Ⓒ: Push the button once to mute the audio. An indication appears in the front panel on-screen display. Press the button again to restore the previous volume level.

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

Audio button Ⓔ: The AUDIO button allows temporary adjustments to the Balance, Bass and Treble settings. To change these settings push the AUDIO button on the remote control and navigate to the desired setting using the ^ / v button and push the OK Ⓚ button. Use the ^ / v button to change the value. Push 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 Ⓕ: The Source button on the remote control selects the input signal source. Push 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.*

Speaker Selector button Ⓖ: The Speaker Mode setting allows you to control how the amplifier outputs audio to connected speaker terminals. This function enables flexible listening setups, such as switching between different speaker systems or running multiple zones.

Speaker A / Speaker B: Activates the selected speaker pair.

Speaker A + B: Drives both speaker pairs simultaneously.

Dim button Ⓗ: Dims the front display. Press and release the DIM button to cycle 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.

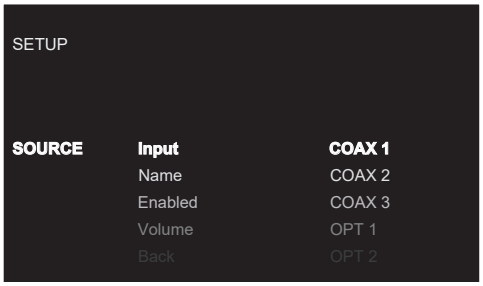
NOTE: *The DIM level change from the remote control is only temporary until powered off. To permanently change the brightness use the Display Brightness setting under the DISPLAY option in the setup menu.*

Setup button Ⓘ: The Setup button activates the OSD setup screen on the front display. Push the setup button again to move to the previous setup menu as a "back" key or exit setup menu if on the first level of setup menu.

Main Menu

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

Source Configuration

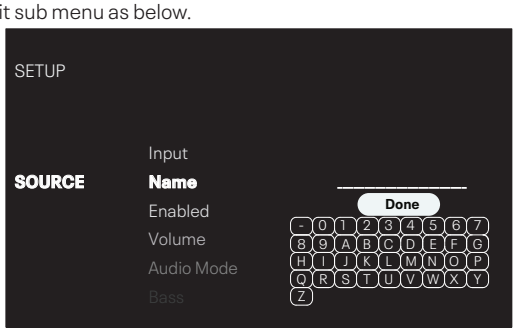


A key step in setting up the unit is to configure each source input using the Source Setup screens. Configuring the inputs allows you to set defaults for a number of settings including enable or disable the source and other options.

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

Input: Changing this input allows you to select a specific input for configuring. (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 Ⓑ buttons on the remote control to select "Custom" then press theOK Ⓚ button to enter the source name edit sub menu as below.



1. Press the ^ / v Ⓑ arrow buttons on the remote control to change the first letter, scrolling through the list of available characters.

2. Press the OK Ⓚ button on the remote control to confirm that letter and move to the next position.

3. Repeat steps 1 and 2 until all 9 characters have been completed. You can select the "Done" button on the OSD to confirm if you have less than 9 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 set to disabled by selecting the "No" option.

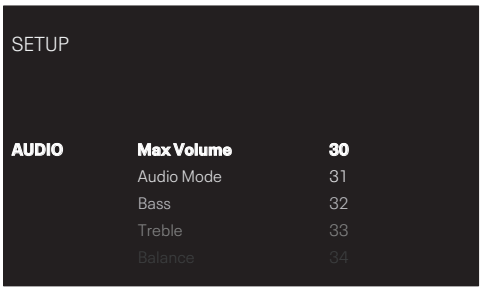
Options include: Yes (Default), No.

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 common Apps on phones or tablets.

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

Press the Setup Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD 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 Ⓑ arrow buttons and pressing the OK Ⓚ button. This action displays the right side options allowing changes. Change the options using the ^ / v Ⓑ 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 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 input is set to the HT Bypass input (AUX / XLR), the unit enters in 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 ^ / v 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.

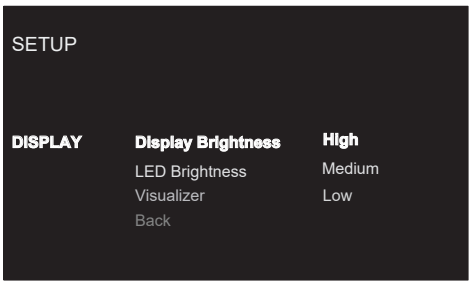
NOTE: *When the unit enters standby mode via the remote control, the Signal Sense function will not operate until the unit detects the audio has stopped for the minimum 10 minute time-out period. This prevents the unit from immediately powering back on if there is still active audio playing.*

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 Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD 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 ^ / v Ⓑ arrow buttons and pressing the OK Ⓚ button. This action displays the right side options allowing changes. Change the options using the ^ / v Ⓑ arrow buttons.

Display Brightness: This function sets the brightness of the front display. The OSD 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.

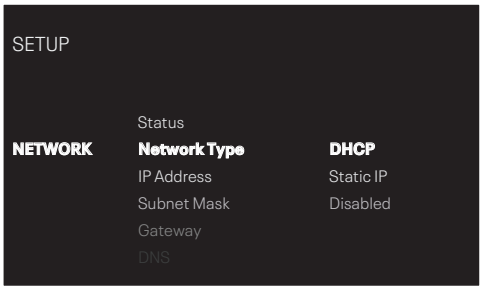
Options include: High, Medium, Low (Default).

Visualizer: The unit can be configured to display the input audio source as VU Meter, a dB Peak Power Meter or a Frequency Spectrum Analyzer. The display can also be configured as Off during normal operation. Select the desired setting using the ^ / v arrow buttons and press the OK button to confirm.

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

Press the Setup Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD 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 ^ / v Ⓑ arrow buttons and pressing the OK Ⓚ button. This action displays the right side options allowing changes. Change the options using the ^ / v Ⓑ 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 ^ / v Ⓑ 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.

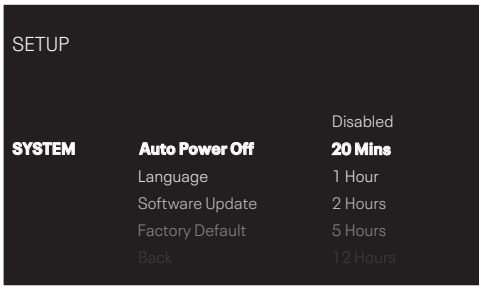
Network Standby: When set to Enabled the unit will maintain the Ethernet IP connection even in Standby Mode allowing the unit to be powered on via IP. If Disabled the unit will not power on from the IP connection and must use either the front panel, IR remote or RS232 to power on the unit.

Options Include: Disabled (Default), Enabled

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

Press the Setup Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD 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 ^ / v Ⓑ arrow buttons and pressing the OK Ⓚ button. This action displays the right side options allowing changes. Change the options using the ^ / v Ⓑ arrow buttons.

Auto Power Off: Set the amount of time the units stay 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 On Screen Display.

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

Software Update: Select the desired update method to update the unit.

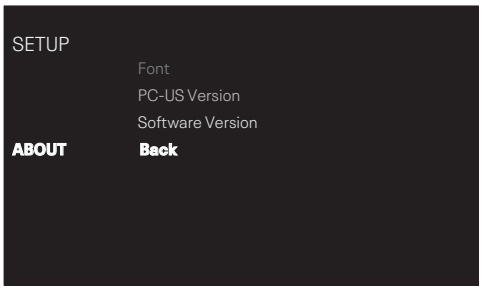
Options include: No (Default), USB, Internet.

Factory Default: This option sets the unit back to the original setting as when it left the factory. 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 Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD to return to the main menu.

Software Information



The ABOUT menu displays detailed information about the unit's main software, font and PC-USB 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.

Font: This shows the font software version loaded in the unit.

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

Press the Setup Ⓘ on the remote control to exit the setup menu or select "Back" on the OSD 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 will not illuminated 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

Power Output *(FTC)*	220 watts/channel, 8 ohms
Maximum Power Output *(Non FTC)*	340 watts/channel, 4 ohms
Continuous Power Output *(Non FTC)*	210 watts/channel, 8 ohms
Total Harmonic Distortion	< 0.03%
Intermodulation Distortion *(60 Hz : 7k Hz, 4:1)*	< 0.03%
Frequency Response:	
Phono Input	20 Hz - 20k Hz, +0, - 0.5 dB
Line Level Inputs	10 Hz - 100k Hz, +0, - 0.5 dB
Damping Factor *(20 Hz - 20kHz, 8 ohms)*	260
Input Sensitivity / Impedance	
Phono Input *(MM)*	5.56 mV / 47k ohms
Line Level Inputs *(RCA)*	356 mV / 100k ohms
Line Level Inputs *(XLR)*	743 mV / 50k ohms
Input Overload	
Phono Input *(MM)*	66 mV
Line Level Inputs *(RCA)*	4 V
Line Level Inputs *(XLR)*	10 V
Signal to Noise Ratio *(A weighted)*	
Phono Input *(MM)*	> 80 dB
Line Level Inputs *(RCA)*	> 105 dB
Line Level Inputs *(XLR)*	> 100 dB
Preamplifier Output Level / Impedance	1.92 V / 100 ohms
Tone Controls	
Bass	±10 dB at 100Hz
Treble	±10 dB at 10kHz
Channel Separation	
Phono Input *(MM)*	>55 dB
Line Level Inputs *(RCA)*	>55 dB
Line Level Inputs *(XLR)*	>55 dB

Digital Section	
Frequency Response	10Hz – 20kHz (+ 0dB,- 0.4 dB, Max)
Signal to Noise Ratio *(IHF "A" weighted)*	> 110 dB
Input Sensitivity/Impedance	0 dBfs / 75 ohms
Preamplifier Output Level	1.15 V (at -20 dB)
Digital to Analog Converter	ESS ES9039Q2M DAC
Coaxial/Optical Digital Signals	SPDIF LPCM (up to 192 kHz 24 bit)
PC-USB	USB Audio Class 2.0 (up to 384 kHz 32bit)*
	*Driver installation required
	Support DSD(up to 4X, 11.2 MHz)
	and DoP(up to 2X, 5.6 MHz)
	Roon Tested
HDMI	Support CEC with ARC function
	2-channel PCM only (up to 48 kHz, 24-bit)
GENERAL	
Power Requirements:	
USA:	120 volts, 60 Hz
EC:	230 volts, 50 Hz
Power Consumption	520 watts
Standby Power Consumption	
Normal	< 0.5 watts
Network wakeup	< 2 watts
BTU *(4 ohms, 1/8th power)*	1476 BTU/h
Dimensions *(W x H x D)*	431 x 148 x 422 mm
	(17 x 6 $^{3}/_{5}$ x 15 $^{5}/_{6}$ ins.)
Front Panel Height	131 mm, 5 $^{1}/_{6}$ ins
Weight *(net)*	16.9 kg, 37,26 lbs.

All specifications are accurate at the time of printing.

Michi reserves the right to make improvements without notice.