

MUSICAL FIDELITY

M E R L I N Multi-format Amplifier

The ultimate in mini hi-fi



The Merlin is a conveniently sized integrated amplifier with beautifully designed and executed casework. The Merlin has a host of inputs both modern and traditional

- Bluetooth
- Optical digital S/PDIF
- USB
- High level analogue line in
- Low level analogue line in (suitable for portable device headphones outputs)
- Phono (RIAA) MM cartridge input.

It also features several outputs

- 40W/Channel speaker outputs
- Variable preamp output
- Fixed Line output
- Fixed optical output
- Headphones output

The volume control adjusts internal high precision digital attenuators. This gives unparalleled channel matching and rock steady imaging even at low levels of volume setting.

The headphone socket features its own independent volume setting, which is automatically used when headphones are connected, to prevent inadvertent damage to hearing or speakers! When headphones are removed, the unit reverts to previous output volume setting.

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IMPORTANT! (U.K. only)

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, it is necessary to remove the plug, please make sure it is removed from supply.


Remove the fuse holder and dispose of the plug safely, out of reach of children.

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

Green and yellow Earth
Blue Neutral
Brown Live

WARNING - This appliance MUST be earthed

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

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol: 
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- If connecting to a BS1363 plug, a 5 amp fuse must be used.

WARNING:

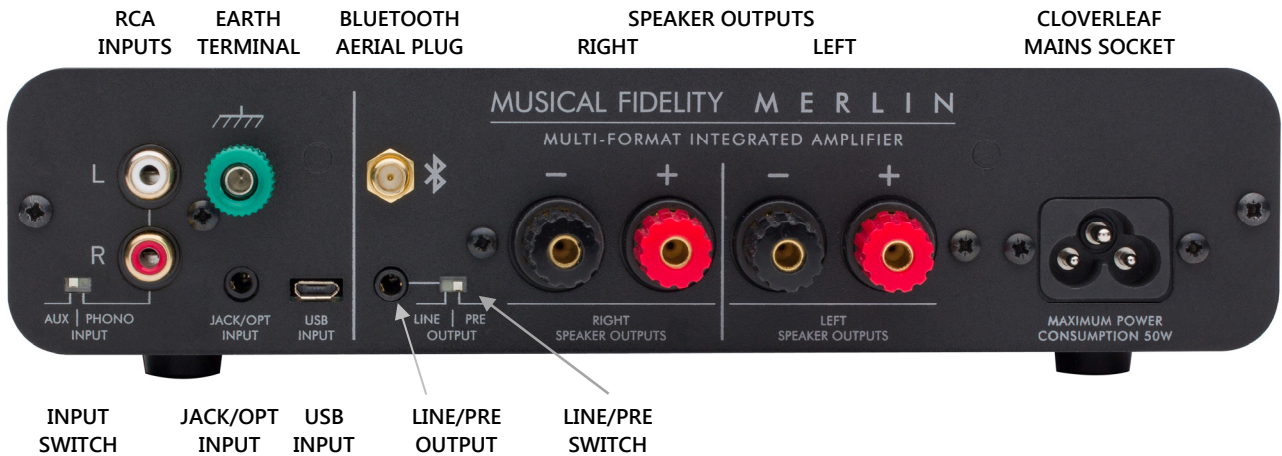
ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

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FRONT VIEW



REAR VIEW

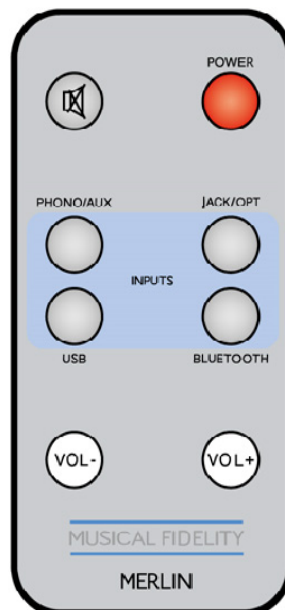


REMOTE CONTROL

MUTE
ACTIVATES AND DEACTIVATES SPEAKER
AND PRE-OUT MUTE FUNCTION.

PHONO/AUX
SELECTS PHONO OR AUX INPUT
(AS SELECTED ON UNIT)
USB
SELECTS USB INPUT

VOL -
DECREASES VOLUME



POWER
TURNS UNIT ON OR OFF

JACK/OPT
SELECTS JACK (ANALOGUE~) OR OPT
(DIGITAL) INPUT DEPENDANT ON
WIRING TO UNIT
BLUETOOTH
SELECTS BLUETOOTH INPUT.

VOL +
INCREASES VOLUME

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Front panel functions and connections

POWER button

Press to turn unit on/off. Unit is ON when SOURCE or more front panel LEDs is lit. No LEDs at all indicate it is in standby or unplugged/switched off at wall socket. Initial switch-on mutes outputs for approx. 12 seconds while unit settles. During this time the STATUS LED is red.

STATUS LED

RED mute

ORANGE No digital 'music' signal.

GREEN analogue input or, on digital input, signal detected. Note, some devices will continue to show green LED when no music is playing, this is perfectly normal.

PHONO LED

Indicates PHONO input is selected. LED only lights if AUX/PHONO switch on back panel is set to PHONO

AUX LED

Indicates AUX input is selected. LED only lights if AUX/PHONO switch on back panel is set to AUX

JACK LED

Lights blue when JACK input is selected LED only lights when analogue JACK cable connected.

OPT LED

Lights blue when OPTical input is selected. The STATUS LED will be GREEN when AUDIO data stream is present on the digital feed.

USB LED

Lights blue when USB input is selected. The STATUS LED will be GREEN when AUDIO data stream is present on the digital feed.

BLUETOOTH LED

Lights blue when BLUETOOTH input is selected. The STATUS LED will be GREEN when AUDIO data stream is present on the digital feed.

VOLUME CONTROL

Continuous rotation control. The volume control can also be pushed to mute, unmute by pushing again.

IR WINDOW

When using remote control, be sure to point remote control LED at this window. Always allow clear line of sight for optimal performance. Try to prevent direct sunlight or close fluorescent light from falling on the window.

HEADPHONES OUTPUT

Inserting headphones automatically mutes speaker and analogue PRE outputs. Adjust volume to taste.

SOURCE SELECT (↓) button

Press to cycle through inputs.

Note: some inputs are dual purpose.

Indicated input LEDs will change depending upon the connections made at the rear or the rear, input switch position.

If a desired option is not available, check relevant input is plugged in, or, in the case of the RCA inputs, the position of the AUX/PHONO switch on the rear panel.

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Rear panel functions and connections

INPUT switch

The RCA input sockets can be configured according to desired use. Select the required input type AUX (line level) or PHONO (suitable for all MM cartridges) using the white INPUT switch on the rear panel (see P.3). The input type thus selected is now available on the front panel input select choices.

RCA input sockets

Connect Phono or line level source to these sockets.

"AUX" connect any standard hi-fi line level device to the RCA input sockets. Use good quality shielded RCA leads for optimum performance.

"PHONO" connect turntable with moving magnet cartridge to the RCA input sockets. Use high quality fully shielded leads for optimum performance.

EARTH Terminal (green post)

This is for use with turntable. If excessive hum occurs, try connecting turntable earth lead or terminal to this point. The MERLIN earth terminal will take 4mm banana plug, or it unscrews to allow bare wire to be inserted, and held in place by tightening back up.

Note: some turntables may have their own earth arrangement, and may therefore work best without connection to this terminal.

JACK/OPT input

The JACK/OPT input accepts analogue or digital input and auto-configures itself in two ways:

Insert a stereo jack lead from low level output (e.g. portable device headphone output). This will allow audio from the portable device to be amplified and heard through the speakers.

3.5mm jack-type optical lead from any S/PDIF PCM source such as CD player, digital tuner, TV or set top box* etc.

USB input

Plugs into USB 2 port on computer using USB "A" to "micro B" lead. Unit is automatically detected as "MERLIN" on any computer running Windows, Linux or MAC OSX. *No further drivers are required.* Simply set up computer mixer and/or applications to use the MERLIN as appropriate.

LINE/PRE output jack socket

The OUTPUT jack socket gives both analogue and digital (S/PDIF optical) outputs.

Insert a stereo jack lead to obtain analogue audio output to pass on to analogue recording equipment, power amplifiers, etc. Note the analogue output is available either fixed or variable, see LINE/PRE output switch below.

3.5mm jack-type optical lead to any S/PDIF PCM optical input such as digital recording device, DAC, etc. Note the optical output is fixed regardless of below switch setting.

LINE/PRE output switch

The LINE/PRE switch selects analogue LINE OUT jack socket behaviour.

LINE - output jack socket gives fixed output of source currently selected

PRE- output jack socket gives volume control variable output of source currently selected

Note this switch has no effect on the OPTICAL signal from the same socket. The optical output is always fixed.

SPEAKER OUTPUTS

Connect speaker leads to these terminals. Terminals accept 4mm banana plugs, bare wires or spade terminals. Be sure to connect speakers at other end first. Make sure connections are secure and no short-circuits can occur.

*TV, home theatre and DVD playback devices may output digital multichannel information. To ensure compatibility with this device, please ensure any such source equipment connected digitally has its digital output set to 16 bit S/PDIF PCM or similar. Please consult the source equipment manual(s) for further details on how to do this.

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Remote Control

The remote control uses an invisible infra-red light beam, its front edge must be pointed directly towards the MERLIN, without visual obstruction between them.

MUTE

The MERLIN can be muted through the remote control at any time. Press the MUTE button (crossed out speaker symbol) on the remote, and the speaker and pre outputs will be muted. The STATUS light changes to RED. Press the MUTE button again to cancel the mute and resume listening.

POWER

The power button on the remote control operates in the exact same way as the power button on the front of the Merlin.

PHONO / AUX

Selects PHONO input (INPUT slide switch on rear of MERLIN set to PHONO). AUX is selected if the INPUT slide switch is set to AUX.

JACK / OPT

Automatically senses if the input connected is JACK (analogue) or OPTICAL (digital)

USB

This button will select the USB input.

Bluetooth

This button will select the Bluetooth input.

If the range of the remote control greatly decreases, replace the battery.

Replacement battery, 1 off CR2025 button cell

Please dispose of used batteries in accordance to local regulations.

Bluetooth pairing and connecting

To connect any Bluetooth device the MERLIN:

Pairing

Make sure MERLIN is switched ON and Bluetooth aerial is plugged in.

Access the Bluetooth menu on the required phone or other Bluetooth device.

Access the list of locally available Bluetooth devices on the phone or Bluetooth device

Select "MERLIN" from the list.

Proceed with relevant steps to pair MERLIN. If device asks for a code, use "1234"

Connecting

On phone or Bluetooth device find list of known Bluetooth devices

Select "MERLIN" from the list of paired devices and follow device procedure to connect.

Disconnecting

To disconnect currently connected Bluetooth device, Make sure Merlin is on and Bluetooth input is selected. Press and hold volume control in. MERLIN will MUTE and STATUS LED will light red. The BLUETOOTH LED will flash to indicate device is disconnected.

Clear all devices

To clear all familiar Bluetooth devices from Merlin memory, disconnect current device as above, then press and hold in volume control for five seconds a second time. Press and hold volume control in. MERLIN will MUTE and STATUS LED will light red. The BLUETOOTH LED will flash to indicate previously stored devices are cleared.

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Typical specifications

Output

Power 50W maximum peak per channel into 4 Ohms (17 dBW)
Maximum output voltage 20V peak

THD+N <0.1 % typical, 20 Hz to 20 kHz

Signal / noise ratio >86 dB 'A'-weighted

Input impedance 50 k Ohms

Frequency response +0, -0.2 dB, 10 Hz to 20 kHz

Connections

Inputs

1 pair RCA connectors
300 mV to 2.2 Vrms max "AUX" input (Hifi line level compatible)
3 mV nominal as PHONO (RIAA) input suitable for 1-6mV cartridge.

1 3.5 mm (1/8") stereo jack/optical suitable headphone outputs

150 mV to 1 Vrms max as jack socket

Up to 24 bit 96 kHz PCM S/PDIF as optical input

USB-B "micro" socket

USB adaptive 44.1/48 kHz 16 bit

Outputs

1 3.5 mm (1/8") stereo jack/optical

Line output (fixed or variable, switch selected) 3.5 Vrms MAX

Optical output (music level always fixed) 44.1 kHz to 96 kHz

Front panel

Headphone 3.5mm (1/8") stereo jack up to 2.8 Vrms.

Speaker outputs

2 pairs 4 mm banana plugs

Power requirement

Mains voltages

90-250 VAC 50-60Hz universal worldwide supply

Consumption

<0.25 Watts standby (Orange LED lit)
50 Watts maximum (Blue LED lit, full power output)

Weight

Unit only, unboxed 1.9 kg (4¼ lbs)

In shipping carton 2.5 kg (5²/₃ lbs)

Dimensions

Width 220 mm (8²/₃")

Height (including feet) 55 mm (2")

Depth (front to back) inc. terminals 240 mm (9½")

Standard accessories

Remote control

CR2025 battery

Bluetooth aerial

IEC C5 (cloverleaf) type mains lead (3 Amp type)

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





DISPOSAL

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



DISPOSITION

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



DISPOSAL

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



RIFIUTI

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



FACHGERECHTE ENTSORGUNG:

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



AFVAL

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



HÄVITTÄMINEN

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



AFSKAFNING

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



ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΙΨΗΣ

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