



## M5xi

High-end amplifier with incredible realism and emotional involvement.  
Receiving quality of life improvements and a new amplifier topology.

### M5xi In Brief

#### Amplifier

- High-end circuitry from our TITAN amplifier
- **NEW** Entirely revised amplifier topology brings the new M5xi even closer to the TITAN design than before
- **NEW** Low distortion darlington output stage arranged in classic MF configuration for no crossover artefacts and little residual distortion
- **NEW** PCB layout to reduce imbalances that would otherwise need correcting by feedback
- **NEW** Power supplies are all analogue during operation to reduce high frequency noise and EMC issues
- Drives power hungry speakers with ease and gracefully manages low impedance dips
- **NEW** 160W per channel into 8 Ohms; 240W into 4 ohms
- Extreme power reserves for proper peak power delivery and wide dynamic range
- HT-input: bypassed preamp-stage allows connecting home-theater processors to use your M6si as ultimate L/R channel amp
- **NEW** optical, coaxial & HDMI inputs

- **NEW** USB C input with 24/192 max. resolution
- **NEW** RS232 for custom integration
- **NEW** Isolated linear 5V/2A USB A power output to power modern external streamers
- **NEW** Standby (ON/OFF) & Mute function via remote

#### Preamp

- **NEW** Low noise design for best THD and signal integrity at low as well as high levels
- **NEW** High quality Burr-Brown stepped attenuator for better channel matching than conventional potentiometer designs
- Pre Out for bi-amping or active subwoofer connection
- **NEW** USB input with meticulously careful digital circuitry layout to minimize HF interference
- **NEW** Phono input for turntables with MM and MC cartridges

#### Mechanical Construction

- Uncompromising metal work in typical Musical Fidelity tradition
- Heavy front panel milled from extruded aluminium profile
- Metal case protects against electromagnetic interference

## MUSICAL FIDELITY

### From M5si to M5xi

Building on the **outstanding success** of its predecessor, the M5si, the M5xi is a major reinvention of the M5 formula. The preamp, poweramp, digital and phono sections are completely new and now much closer to our **legendary TITAN power amp topology**. In fact, the M5xi now commands the same topology as previously used in the M6si, including all the improvements for the newly released M6xi update, just tuned for less power output. This makes the **TITAN formula** accessible at a **new price-point** as Musical Fidelity pushes to make **true high-end amplifiers as affordable as never before**.

Modern systems demand modern connectivity. The M5xi now features **HDMI eARC**, allowing effortless integration with **TVs and home theatre systems** while delivering true high-end stereo performance.

Alongside this, new **coaxial and optical digital inputs** expand connectivity for a wide range of digital sources, complementing the already established high-resolution USB input.

A completely new feature is the **high-quality isolated USB power output**. Designed as a dedicated, **ultra-clean power supply**, it allows you to **power modern USB streamers directly from the amplifier**. The result is **simple system integration** and a **noticeable upgrade in performance** for your favourite streaming source.

For **professional installations** and advanced system control, the M5xi now includes **RS232 integration**, making it ideal for **custom installations** and **sophisticated home audio systems**.



## MUSICAL FIDELITY

### Fully Discrete Power Amplifier - Son of TITAN

The biggest change, when compared to the old M5si predecessor, is that the M5xi now uses a **completely new amplifier topology**. It is now even closer to our **legendary TITAN power amp** design. The **same topology** that has been used in the **M6si** previously, and has now received a whole range of **improvements in the M6xi**, is now found at the core of the M5xi as well, only tuned for less output power.

The M5xi is configured as 2 **independent monobloc power amps** with a separate pre amp. It is, in fact, a **pre amp with 2 monobloc power amps** that just happen to share the same casework. It features technology trickled down from our legendary **1kW TITAN power amp**.

Internally, refinements **push performance** even further. The main **transformer and power supply PCB** are now **encapsulated** within a metal enclosure, dramatically **reducing electromagnetic interference** inside the

chassis. This improvement **benefits every circuit** in the amplifier, but especially the **newly refined phono stage**.

The **upgraded MM/MC phono section** features **improved shielding and circuit optimization**, delivering **lower noise, lower distortion**, and greater vinyl transparency than ever before.

Even the powerhouse **amplifier stage** has been **slightly enhanced**. With **improved components and increased output capability**, the M5xi delivers even **greater authority and control** over demanding loudspeakers, than its predecessor, while preserving the **effortless musicality that defines the Musical Fidelity sound**.

The result is an amplifier that combines **classic Musical Fidelity high-end amplifier design** with **modern versatility**. The M5xi delivers true high-end performance in the proud Musical Fidelity tradition and makes it more accessible than anything else in its class.



## Technical Talk

The new Musical Fidelity M5xi represents the **next evolution** of high-end integrated amplification with **advanced engineering** drawn directly from our **flagship designs**. Built to deliver uncompromising sonic performance, the M5xi merges **sophisticated circuitry** and **meticulous PCB layout** with **modern connectivity** in a design that sets new standards for its class.

The M5xi is tuned for **less power output than the M6xi**, making it a better candidate for **smaller rooms or shorter listening distances**. However, you will struggle to find loudspeakers that the M5xi cannot **properly and fully drive** as the M5xi now commands the **same power amplifier topology** as the M6si and M6xi.

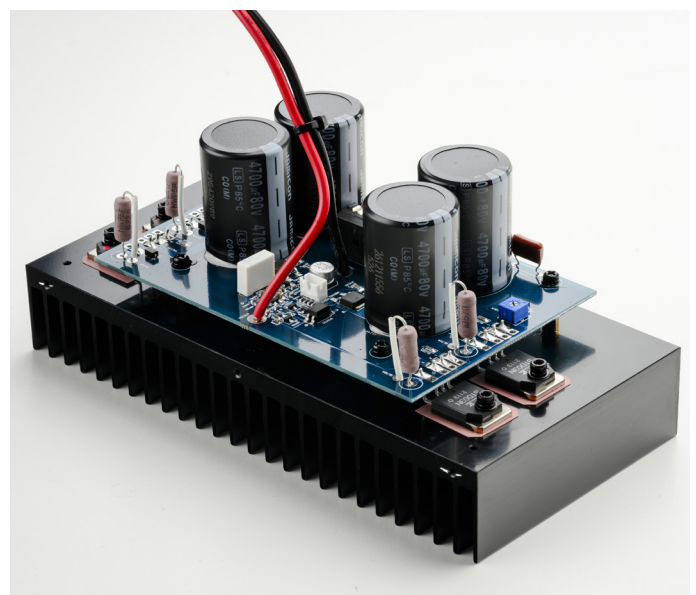
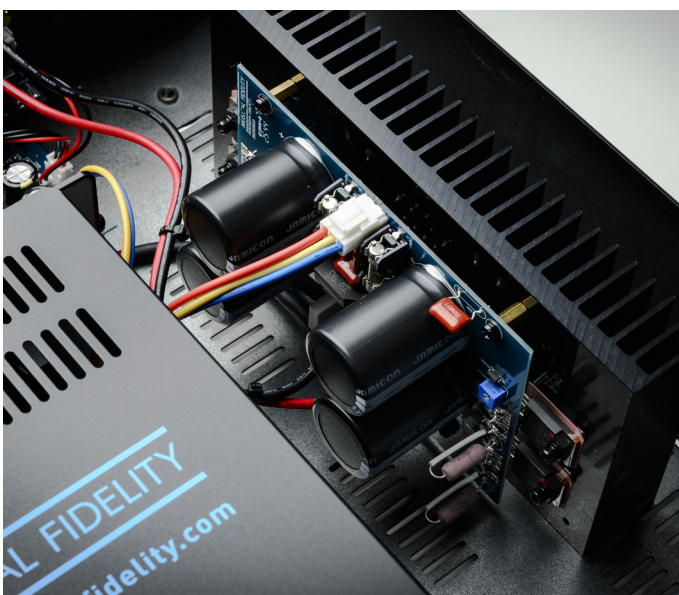
## Power Amplifier

Configured as **2 independent monobloc power amps with a separate pre amp**, at its core lies amplifier technology derived from Musical Fidelity's **prestigious TITAN power amplifier**. This heritage ensures **exceptional stability, authority, and musical control**. The M5xi employs a **low-distortion Darlington output stage** arranged in the **classic Musical Fidelity config-**

**uration**. This design **eliminates crossover artefacts** while maintaining **extremely low residual distortion**, preserving **musical detail and tonal accuracy** across the **entire frequency range**.

Great attention has been given to the **internal PCB layout**. The **carefully optimised board design** minimises **circuit imbalances** that would otherwise **require corrective feedback**, allowing the amplifier to **operate more naturally and transparently**. During operation, **all power supplies remain purely analogue**, reducing **high-frequency noise** and **minimising EMC-related interference**. The result is a cleaner signal path and improved overall sonic purity.

Power delivery is another defining characteristic of the M5xi. With 160 watts per channel into 8 ohms and 240 watts into 4 ohms, the **amplifier possesses immense current capability and extraordinary headroom**. These extreme power reserves ensure **accurate peak power delivery** and a **wide dynamic range**, allowing the M5xi to drive **demanding loudspeakers with complete authority** while remaining **composed during low-impedance dips**.



## MUSICAL FIDELITY

### Preamplifier

At the heart of the M5xi lies a meticulously engineered **fully analogue preamplifier stage** designed for **absolute signal integrity**.

The preamplifier features a **low-noise circuit design** that maintains **exceptional signal purity** across the entire dynamic range. Whether at **quiet listening levels or full-scale output**, the M5xi preserves **microdetail and harmonic accuracy** with remarkably **low total harmonic distortion**. The result is effortless clarity, stable imaging, and uncompromised musical realism.

Volume control is handled by a **high-quality Burr-Brown stepped attenuator**, offering signif-

icantly more **precise channel matching** than conventional potentiometer-based designs. The advantage is immediately audible: perfectly **balanced stereo imaging, stable sound-stage placement**, and **consistent tonal accuracy** across **all listening levels**.

The M5xi embodies Musical Fidelity's philosophy: combining **uncompromising engineering** with real-world usability making **true high-end amplifier design as affordable as possible**. The result is an integrated amplifier that delivers immense power, exceptional control, and remarkable transparency. Designed for music lovers who demand nothing less than true high-end performance.



## Phono Stage

Vinyl playback receives equal attention with the new **MM and MC phono stage**. Compared to the M5si stage, this is a completely new development. **Improved circuit design and layout**, combined with **enhanced isolation and shielding**, significantly reduce noise and distortion. The result is a phono input capable of revealing the full warmth, depth, and dynamic nuance of high-quality vinyl recordings. Vinyl enthusiasts will greatly welcome the **addition of a MC stage**, as the old M5si only featured a MM phono stage.

The position of the **transformer and power supply PCB** have been carefully **tuned, rearranged and encapsulated** in a metal enclosure to **decrease electromagnetic interference** towards all parts of the amplifier. The **phono stage circuitry** benefits greatly as it works with **high amplification factors up to 1.000**. It is absolutely crucial to **shield high gain**

**amplifier stages** from **any and all external interference**.

## Separate digital boards

Digital and analogue hardware needs to be **carefully separated** from each other.

Even the **smallest amount of RF interference** is known to **cause trouble** for analogue amplifier stages.

Therefore, the digital and ARC boards are **physically separated** on their own PCBs and have their **own linear power supply**.

The digital coaxial, optical and USB-C inputs accept high-resolution sample rates up to **24bit and 192kHz** and the **HDMI eARC** input allows your **home theatre** to be brought to life and properly invigorated by the **powerful M5xi analogue amp stages**.



## Inputs & Connectivity

The M5xi features **4x RCA inputs line inputs**. The built in **MM & MC phono stage** has received a significant upgrade compared to the M5si; delightful news for any phono stage enthusiast as in addition to the **technical improvements**, it now **supports MC cartridges** too.

For system flexibility, the M5xi includes a **home theatre bypass** input. The HT input bypasses the preamplifier stage entirely, allowing seamless integration with home theatre processors and enabling the M5xi to perform as a **high-performance stereo power amplifier** for your left and right speakers within a multichannel system.

Connectivity has also been expanded to meet the needs of modern audio systems. New **optical, coaxial, and HDMI eARC** inputs provide versatile digital connectivity, while a **new USB-C** input supports high-resolution audio up to **24-bit/192 kHz**. For **custom installation** and system control, the M6xi now features an **RS232 interface**.

In addition, a new **5V/2A USB-A power out-**

**put** allows the amplifier to conveniently power modern external streamers, **simplifying system setup** and **reducing the need for additional power supplies**. This output has its own **separate transformer winding** and **linear power supply stage**, effectively also doubling as a **power supply upgrade for your favourite streamer**.

Digital integration is equally refined. The USB input features a **carefully optimized digital circuitry layout**, specifically designed to **minimize high-frequency interference** within the M5xi. This meticulous engineering **protects the sensitive analogue signal path**, ensuring the digital section **never compromises** the amplifier's sonic purity.

For system expansion, the M6xi includes dedicated pre-out connections. The **variable Pre-Out** allows seamless integration with **external power amplifiers** for **bi-amping** configurations. It also provides a convenient connection for **active subwoofers**, enabling greater flexibility in building high-performance systems. The **fixed Line Out** connection is best suited to connect your favourite **headphone amplifier**.



# MUSICAL FIDELITY

## Heroic Build Quality

The M5xi's front panel is milled from a massive extruded aluminium profile.

The mechanical build quality shows excellent **immunity against the effects of vibration from the environment**. The same can be said about **electro magnetic immunity**. The **massive metal case** acts as a **Faraday cage**. It **protects** the internals against **outer electromagnetic fields**, and in the same way, the rest of your HiFi gear **against electromagnetic fields generated by the M5xi**.

## New Remote Control

The M5xi has received a significant **remote control update**. The redesigned remote features an **elegant, lightweight construction** that sits **naturally and comfortably in the hand**, making **everyday operation effortless**.

Thoughtfully colour-coded in the **distinctive Musical Fidelity brand colours**, the remote is designed for seamless **universal compatibility** across Musical Fidelity's **M-line components**, including **amplifiers, CD players, and DACs**. One beautifully designed controller brings effortless command of your entire system.





## M5xi INTEGRATED AMPLIFIER

# SPECIFICATION

### Output:

- Continuous Power, both channels driven @ 1% THD, 1kHz:
  - 160W per channel into 8 Ohms;
  - 240W per channel into 4 ohms
- Continuous Power, both channels driven @ 0.09% THD, 20Hz to 20 kHz:
  - 140W per channel into 8 Ohms;
  - 210W per channel into 4 ohms
- Peak Power, both channels driven @ 1% THD, 1kHz:
  - 190W per channel into 8 Ohms;
  - 320W per channel into 4 ohms
- 36 Volts RMS, 20Hz to 20 kHz; onset of clipping
- 101 Volts peak to peak
- Current 45 Amps peak to peak
- Damping factor 47 (8 Ohms)
- Output devices 2 pairs per channel

### Line input

- THD+N < 0.009 % typical, 20Hz to 20 kHz
- Signal / noise ratio > 105dB 'A'-weighted
- Input impedance 40 k Ohms
- Frequency response +0, -0.1dB, 10Hz to 20 kHz

### Connections

- 4x Line level RCA inputs
- 1x HDMI input

- 1x Coaxial input
- 1x Optical input
- 1x Phono MM/MC input
- 1x USB type 'C' connector - up to 24-bit/192kHz
- Line level outputs 1 pair line level RCA connectors, constant level TAPE outputs
- 1 pair line level RCA connectors, preamp outputs
- Speaker out: 2 pairs 4mm banana plug
- 1x USB A 5V/2A power output
- 1x RS232 D-sub connector
- Trigger In & Out

### Phono Input

- Sensitivity (nominal): 3mV MM / 0.4mV MC (for 300mV nominal)
- Gain MM/MC: 40dB / 60dB
- Signal / noise ratio: >87dB 'A'-weighted
- Input capacitance: 220pF
- Input impedance: 50k Ohms MM / 1k Ohm MC
- Frequency response: RIAA/IEC  $\pm 0.4$ dB, 20Hz - 20 kHz

### Power requirement

- Mains 115/230VAC 50/60Hz (factory pre-set)
- 100VAC 50/60Hz (alternative)
- Consumption 320 Watts maximum

### General

- Dimensions - WxHxD (mm): 440 x 100 x 405
- Weight (unpacked / packed): 15 kg/ 18.5 kg

Power ratings are measured at a stabilized mains voltage of 240 V. Actual values may vary depending on real-world mains conditions, which can fluctuate within a  $\pm 10\%$  tolerance.

Please note that the most demanding measurement is continuous power output from 20 Hz to 20 kHz at minimal distortion. High-quality amplifiers, like Musical Fidelity, deliver comparable power at 1 kHz as well as consistently across the full 20 Hz to 20 kHz frequency range.