



## M6xi

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

### M6xi In Brief

#### Amplifier

- High-end circuitry from our TITAN amplifier
- **NEW** 220Watts per channel into 8 Ohms; 320W into 4 ohms
- Fully analogue amplifier design
- Fully discrete 2x monobloc power amps
- Classic low distortion MF output stage for no crossover artefacts
- **NEW** PCB layout for reduced imbalances to avoid correcting by feedback
- All analogue PSUs during operation to reduce high frequency noise and EMC
- Drives power hungry speakers and gracefully manages low impedance dips
- **NEW** Oversized encapsulated toroidal transformer
- Extreme power reserves for proper peak power delivery and wide dynamic range

#### Preamplifier

- Low noise design for best THD and signal integrity at low and high volume levels
- High quality stepped volume attenuator for better channel matching than conventional potentiometer designs

- Pre Out for bi-amping with M6sPRX or active subwoofer connection
- Separate digital PCBs with meticulously careful digital circuitry layout to minimize HF interference

#### Connectivity

- Balanced XLR input
- **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
- HT-input: bypasses preamp-stage for home-theater use as ultimate front L/R amp
- **NEW** MM & MC phono stage, improved PCB design and layout with better isolation and shielding for less noise & distortion

#### Mechanical Construction

- Uncompromising metal work in typical Musical Fidelity tradition
- Heavy front, side and top panels milled from extruded aluminium profiles
- Clean, stunning and indestructable metal exterior protects against electromagnetic interference

### From M6si to M6xi

Musical Fidelity proudly introduces the **M6xi**, the **newest high-end integrated amplifier** in our **acclaimed M6 line**. Building on the **outstanding success** of its predecessor, the M6si, the M6xi continues the same proven formula: **massive power, uncompromising engineering, and true high-end sound**, now enhanced with **modern connectivity** and **refined internal design**.

Modern systems demand modern connectivity. The M6xi now features **HDMI eARC**, allowing effortless integration with **TVs and home theater 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 M6xi 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 M6xi 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 M6xi delivers even **greater authority and control** over demanding loudspeakers, 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 M6xi 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 M6xi represents the **next evolution** of high-end integrated amplification, combining **massive power reserves** with **advanced engineering** drawn directly from our **flagship designs**. Built to deliver uncompromising sonic performance, the M6xi merges **sophisticated circuitry** and **meticulous PCB layout** with **modern connectivity** in a design that sets new standards for its class.

## 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 M6xi employs a **low-distortion Darlington output stage** arranged in the **classic Musical Fidelity configuration**. 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 M6xi. With 220 watts per channel into 8 ohms and 320 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 M6xi to drive **demanding loudspeakers with complete authority** while remaining **composed during low-impedance dips**.



## MUSICAL FIDELITY

### Preamplifier

At the heart of the M6xi 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 M6xi 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 M6xi 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**. An **improved PCB layout**, combined with **enhanced isolation and shielding**, significantly reduces noise and distortion. The result is a phono input capable of revealing the full warmth, depth, and dynamic nuance of high-quality vinyl recordings.

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 M6xi analogue amp stages**.



## Inputs & Connectivity

The M6xi features **4x RCA inputs and 1x balanced XLR input**. The built in **MM & MC phono stage** has received upgrades compared to the M6si; delightful news for any phono stage enthusiast.

For system flexibility, the M6xi includes a **home theatre bypass** input. The HT input bypasses the preamplifier stage entirely, allowing seamless integration with home theatre processors and enabling the M6xi 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 output** 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 M6xi. 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** such as the M6sPRX 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 M6xi's **mechanical construction** is **uncompromisingly rigid and solid in typical Musical Fidelity tradition**. Front panel and side panels are milled from massive extruded aluminium profiles.

The M6xi is basically **immune against the effects of vibration from the environment**. The same can be said about **electro magnetic immunity**. The **massive aluminium 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 M6xi**.

### New Remote Control

The M6xi 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.



# MUSICAL FIDELITY



## M6xi INTEGRATED AMPLIFIER

# SPECIFICATION

### Output

- Continuous Power, both channels driven @ 1% THD, 1kHz:
  - 220W per channel into 8 Ohms;
  - 320W per channel into 4 Ohms
- Continuous Power, both channels driven @ 0.09% THD, 20Hz to 20 kHz:
  - 210W per channel into 8 Ohms;
  - 300W per channel into 4 ohms
- Peak Power, both channels driven @ 1% THD, 1kHz:
  - 280W per channel into 8 Ohms;
  - 450W per channel into 4 Ohms
- 43 Volts RMS, 20Hz to 20 kHz; onset of clipping
- 121 Volts peak to peak
- Current 45 Amps peak to peak
- Damping factor 49 (8 Ohms)
- Output devices 2 pairs per channel

### Line input

- THD+N < 0.007 % typical, 20Hz to 20 kHz
- Signal / noise ratio > 107dB 'A'-weighted
- Input impedance 40 k Ohms
- Frequency response +0, -0.1dB, 10Hz to 20 kHz

### Connections

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

- 1x Coaxial input
- 1x Optical input
- 1x Line level balanced XLR inputs
- 1x Phono MM/MC input
- 1x USB type 'C' connector - 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/binding posts
- 1x USB A 5V/2A power output
- 1x RS232 D-sub connector

### 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 680 Watts maximum

### General

- Dimensions - WxHxD (mm): 440 x 125 x 400
- Weight (unpacked / packed): 18.5 kg/ 22 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.