



MAGNUM DYNALAB  
PURE SOURCE AUDIO

# MD 606T

XM Satellite Radio

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OVER 170 XM CHANNELS

20 XM STATION PRESETS

2 TUBE AUDIO STAGE

RS232 PORT

TOROIDAL TRANSFORMER

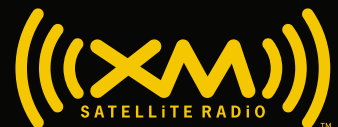
4.2" TOUCH SCREEN INTERFACE

WORLD LEADING COMPONENTS

EXTERNAL IR REMOTE

FUTURE UPGRADEABILITY

FEATURES



Change Your View of Satellite Radio.

MD 606T XM Satellite Radio

# MD 606T

## HIGHLIGHTS

### OVER 170 XM CHANNELS

Access to over 170 XM channels in the USA, and up to 100 channels in Canada, all 100% commercial free.

### 20 XM STATION PRESETS

20 XM station presets, with bright 4.2" blue LED screen showcasing all relevant music metadata.

### 2 TUBE AUDIO STAGE

Unique 2 tube audio stage featuring our MD 6922 vacuum tubes.

### RS232 PORT

RS232 port and supporting protocols enabling control of the MD 606T from just about any hard-wired device capable of outputting RS232 commands.

### TOROIDAL TRANSFORMER

Toroidal transformer employed to provide a pure, consistent power supply to all components.

### 4.2" TOUCH SCREEN INTERFACE

A large touchscreen creates not only a focal point on the elegant faceplate, but also an intuitive border between user and device. 17" faceplate with precision machined button ensuring responsive sensitivity.

### WORLD LEADING COMPONENTS

The collection of components come from only world recognized and leading suppliers: Mundorf, WBT, Wima, Dale-Vishay and Burr Brown.

### EXTERNAL IR REMOTE

External IR remote with complete functionality

### FUTURE UPGRADEABILITY

The digital satellite module has been designed in such a way to be replaceable according to any changes to the way that satellite radio technology may evolve over time.



## XM TUNER

An XM Tuner as Versatile as it is Musical

It is a product that is designed with the same purist philosophy as any Magnum Dynalab source device, yet versatile enough to be included in virtually any fine audio or home automation system. With an XM module providing access to over 170 channels in the US and over 100 channels in Canada, a Triode audio output board that is as dynamic as it is transparent, plus the capability to provide fast feedback through virtually any device able to output RS232 commands, it is a perfect combination of function and audio entertainment.

## EVOLUTION

The Evolution of Pure Source Audio



Critically important to any high-performance, digitally-driven audio product continues to be the capturing, rendering and control of the digital media. And in today's world of quickly evolving digital sources, this challenge has never been more important. However, of equal importance is the design and attention to detail of the analog signal path following the conversion from its digital source. Our purist philosophy and devoted attention to detail as it relates to the analog

signal path is what distinguishes a Magnum Dynalab product, providing a sound experience that extends beyond the functional benefits of the originating digital source. The MD 606T is a product for music lovers...for those that appreciate the full and rich tonal diversity that comes from a truly high-performance audio source component.

## INTERFACE

Control & Function

With 20 XM presets, the ability to browse by both station and genre, and a 4.2" blue LCD display featuring all relevant metadata including channel, category, artist and track, the MD 606T is as functional at it is melodic. The product's stately symmetry is characteristic of many Magnum Dynalab products, with a large machined button used for power on/off, plus tactile buttons for menu, select, station up/down and category up/down. All functions are also controlled by way of a handsome IR remote.

The MD 606T is also equipped with a RS232 port that allows control of the Tuner from a variety of devices including Whole-House A/V Distribution and Home Automation Systems, or just about any hard-wired device capable of outputting RS232 commands.



# DESIGN

## Change your view of XM Radio

Our design team has created the audio stage, DAC and power supply of the MD 606T with the same purist philosophy as all of our products. That is, treatment of the audio path in such a way to preserve the integrity of the original signal, ensuring that all the micro-information is maintained throughout the circuit, showcasing the precision with which the music was originally recorded. In fact, the MD 606T will astonish anyone with a preconception of Satellite Radio. It is, quite simply, a high performance audio product in every sense.

The MD 606T's triode design is first and foremost characterized by its notable transparency, achieved in part via a unique linear power supply utilizing a special circuit path and custom designed Toroidal transformer. The specially designed circuit eliminates all stray ground path signals, transients and high frequency noises from the audio feed.

The clean source of DC power allows the distinctive audio stage and DAC of the MD 606T to perform at its best. The design employs 2 6922 Magnum Dynalab vacuum tubes, a collection of components from Mundorf, WBT, Burr Brown and Wima, and strict manufacturing guidelines to ensure that the product's specifications are met on a consistent basis. And with a .093 thick printed circuit board and gold plated contacts throughout the device, you can be sure that the equipment has the foundation required to operate at its finest.

Finally, the depth and clarity of the acoustics heard from the MD 606T could not be achieved without the zero feedback design, created to avoid an alteration of the original wave form. The result is a device with impressive specifications: signal to noise ratio greater than 95dB, frequency response from 10Hz to 100KHz, and zero distortion variance from .2 Hz to 200KHz.

Finally, we have taken special care to design the MD 606T to be upgradeable in a variety of ways. Not only do customers have the option to upgrade the audio stage of the product either now or later, but the digital satellite interface of the unit can be changed according to future developments in Satellite Radio technology. That is, should there be changes to the source feed of Satellite radio; we at Magnum Dynalab are committed to providing those upgrade options to all customers.

# CHOICES

## XM and a World of Music

With access to over 170 channels in the USA, and up to 100 channels in Canada, XM Radio provides a wealth of listening options. Broadcasted in the S band using the frequencies ranging from 2332.5 to 2345.0 MHz, XM radio employs 3 satellites hovering in geostationary orbit plus a network of ground-based repeaters. Coverage includes all of continental US, the southern tip of Alaska, all of Southern Canada, plus many of the Caribbean Islands and most of Mexico.

To activate XM Radio in USA:

On-line: [www.xmradio.com](http://www.xmradio.com)

Phone: 1-800-XM-RADIO, 1-800-967-2346

To activate XM Radio in Canada:

On-line: [www.xmradio.ca](http://www.xmradio.ca)

Phone: 1-877-GET-XMSR (1-877-438-9677)



# SPECS

## Specifications

XM Module, RS-232 and IR Specifications

Satellite RF Sensitivity: **-92.2 dBm**

Tuning Range: **2332.5 to 2345.0 MHz**

IR Modulation Frequency: **38K**

Keypad IR Sensor Range: **30'**

RS-232: DB9F Terminal, 9600 Baud, Asynchronous, 8 Bits, No Parity, No HandshakeNexLink

Connections: **2 RJ45 Jacks**

## Audio Specifications

Signal to noise ratio: **90dB**

Audio frequency response (+/- .1 dB): **20Hz - 20KHz**

Line audio output (RCA): **1.5V**

Balanced line out: **3.0V between pin 2 and 3 of XLR**

Line power (Must be specified) (110/220/230/240):  
**VAC**

Power consumption (Typ/Max) – **50w/100w**

## Tube Specifications

Total harmonic distortion: **<.5%**

Tubes position 1 and 2 – MD Reference Silver 6922



**MAGNUM DYNALAB**

PURE SOURCE AUDIO

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