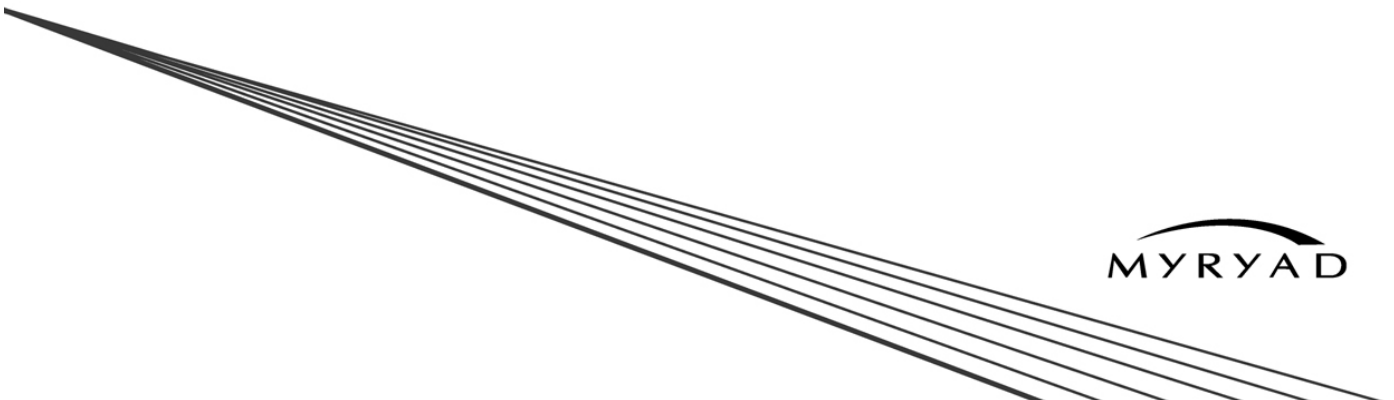


# MXT4000

Remote Controlled  
AM/FM RDS Tuner

**Owner's Manual**



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## INTRODUCTION

The MXT4000 is a full-function remote controlled AM/FM Tuner. It has fixed-level low-impedance audio outputs to drive a Myryad integrated amplifier or pre-amplifier - or other high quality amplifier. A coaxial antenna socket is provided for a 75Ω FM radio (band 2) antenna, and spring terminal block for an AM loop antenna (supplied). In addition the MXT4000 has a Smart My-Link® control input/output for communication with other Myryad products.

The MXT4000 offers a range of expansion possibilities:

- The Smart My-Link® input can be connected to a Myryad integrated amplifier or pre-amplifier so that the MXT4000 will automatically be switched on or off when the amplifier is switched on or off.
- The Smart My-Link® input/output can be coupled to other Myryad products that can then be remote-controlled via the MXT4000's infra-red receiver - or vice-versa.
- When linked via the Smart My-Link® to a compatible Myryad integrated amplifier or preamplifier a number of extra features become available which make the system as a whole easier and quicker to operate – including using the MXT4000 as an alarm/wake-up timer for the system.

## INSTALLATION AND SAFETY

This Tuner generates very little heat but still requires some ventilation. Do not place it on a rug or other soft surface into which it could sink, obstructing the air inlets in its underside. Do not allow any obstruction to block the ventilation slots in the rear panel. The MXT4000 should not be installed in a built-in situation such as a bookcase or rack unless proper ventilation is provided.

**CAUTION: THIS APPARATUS MUST NOT BE EXPOSED TO DRIPPING OR SPLASHING. OBJECTS FILLED WITH LIQUIDS SUCH AS VASES MUST NOT BE PLACED ON THE APPARATUS.**

**THE REAR PANEL POWER SWITCH DISCONNECTS MAINS LIVE ONLY. THE POWER CORD MUST BE DISCONNECTED FROM THE REAR OF THE APPARATUS, OR THE WALL SOCKET, TO PROVIDE TOTAL ISOLATION. ONE OR OTHER OF THESE CONNECTIONS MUST BE READILY ACCESSIBLE WHEN THE APPARATUS IS IN USE.**

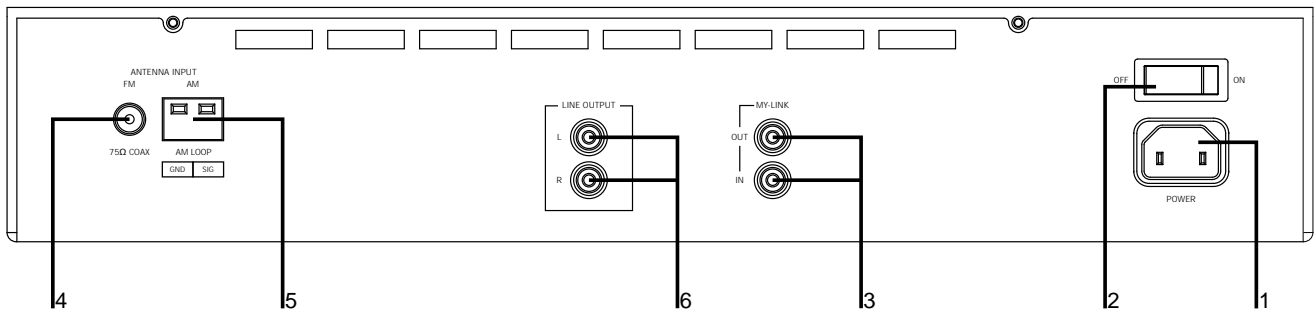
Do not remove the cover, or attempt to modify or repair the MXT4000 yourself. Refer all servicing to a qualified technician.

## ACCESSORIES

Your MXT4000 is supplied complete with the following accessories:

- Separate mains power cord to suit country of sale
- My-Link interconnect (0.5m RCA-RCA)
- MSR2 remote control handset
- Two AAA batteries for handset (not in some countries)
- MSR2 System Remote Control Owner's Manual
- Wire 300Ω FM antenna for high signal strength areas
- Balun (matching adaptor) for connection of 300Ω FM antenna
- DIN-DIN coax adaptor for use with Balun
- AM loop antenna

# SETTING UP YOUR SYSTEM



## REAR PANEL CONNECTIONS

### 1. Power Inlet

Before making any connection, check that the mains voltage setting printed on the rear panel is the same as your local mains supply.

Plug the female (socket) end of the power cord into the power inlet on the rear of the unit. Plug the male (plug) end of the cord into a "live" wall socket or a suitable heavy-duty extension cable.

### 2. Power Switch

Press one side of this rocker switch (the side nearer the edge of the rear panel) to switch the MXT4000 ON and the other side (towards the output sockets) to switch it OFF. When the POWER switch is in the OFF position all power is disconnected from the MXT4000. In this condition the MXT4000 cannot be powered up from the front panel or the remote control. When the POWER switch is in the ON position (and the power cord correctly inserted and plugged in to a live wall socket) the unit will power up in standby mode (see FRONT PANEL CONTROLS, STANDBY, page 5).

It is recommended that the POWER switch is turned OFF if the MXT4000 is not going to be used for an extended period of time.

### 3. MY-LINK input/output

When the MXT4000 is used in a system with other MX-Series products (or Myryad Z-Series), all may be joined together via the My-Link. My-Link is a communications bus that allows all the linked components to operate together as a system and distributes the remote commands received by any one to each of the others.

The simplest function provided by the My-Link bus is that all linked units will switch into or out of standby mode when the amplifier's front panel or remote control standby key is pressed.

The My-Link bus allows any linked product to be remote-controlled via the tuner's infra-red receiver - or vice-versa.

The MXT4000 (and any other product on the My-Link bus) can also be controlled from a remote room via a suitable interface to the My-Link bus.

Use a short RCA-to-RCA (phono-to-phono) interconnect cable to connect from the MY-LINK IN socket on the MXT4000 to the MY-LINK OUT socket on the amplifier. A second cable may then be run from the MY-LINK OUT socket on MXT4000 to the MY-LINK IN socket on a Myryad CD player – "daisy-chain" fashion. Further compatible Myryad products can be linked in the same way, running from the MY-LINK OUT socket on the CD player. Inexpensive interconnects may be used as the My-Link bus carries only control signals, not audio, so these cables have no effect on sound quality.

The MXT4000 is Smart My-Link<sup>®</sup> compatible. When it is linked to a Myryad Smart My-Link<sup>®</sup>, Preamplifier or Integrated Amplifier many more powerful system features are available (see pages 7 and 9).

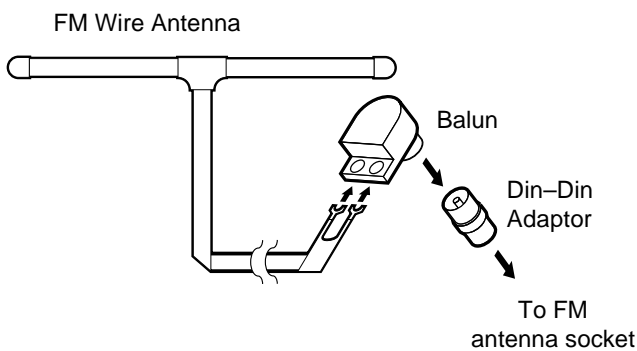
#### 4. FM Antenna input

The MXT4000 is fitted with a "DIN" style 75Ω coaxial antenna socket, which must be used with a 75Ω antenna (aerial). It is supplied with a simple wire 300Ω antenna and an impedance matching balun plus DIN-DIN adaptor.

The 300Ω wire antenna is provided to ensure that the MXT4000 can be set up and used straight "out of the box". It is not adequate to provide full performance from the tuner except in areas of particularly high signal strength (e.g. close to the FM transmitter). In most instances a good quality roof or loft mounted FM antenna should be used – see page 10.

When using the wire antenna the matching balun and adaptor must also be used. See the illustration below for clarification.

When you unfold the wire antenna you will note that it is in the form of a "T". The "crossbar" portion of the T should be stretched out horizontally and tacked in place, either on a wall or the back of a cabinet, or on the ceiling. The "vertical" section of the T goes to the MXT4000's antenna input via the balun. Experiment with the position and orientation of the antenna to obtain the best reception.



#### 5. AM Antenna input

The MXT4000 is supplied with an AM loop antenna. It should be connected to the two spring-clip terminals, with the black wire connected to the "GND" terminal and the white wire to the "SIG" terminal. To connect each wire, press the appropriate spring clip tab downwards and insert the bare end of the wire into the small hole just above the tab.

The AM loop antenna should be positioned and rotated to obtain the best signal quality. Usually it is best with the antenna as high as possible.

#### 6. Line outputs

The line outputs should be connected by high quality audio interconnects to the TUNER or other "Line" inputs (e.g. "AUX") of any integrated amplifier or pre-amplifier. Never connect to an amplifier's PHONO inputs.



## 5. PRESET tuning mode

Press the PRESET button to enter "Preset Tuning" mode. The MXT4000 will tune to the frequency of the last used preset station and the display will briefly read "PRESET" before showing the preset number (e.g. PRE16") and tuned frequency (see Figure 2). If an FM RDS station has been tuned the display will change to show the station name once the information has been acquired - unless the Station Name feature has been switched off, see page 7.

When the tuning knob is turned one step clockwise the MXT4000 will tune to the preset stored with the next higher number while an anti-clockwise step will move to the next lower stored preset. The tuner will skip past preset positions that have not been programmed, i.e. if station 3 is not programmed, the tuner will skip from station 2 to station 4. If the tuner is stepped beyond the highest number preset stored, it will "wrap-around" and step back to the lowest numbered preset.

**Preset mode display – without Station Name (Fig. 2)**



## 6. SEARCH

### Search tuning mode

Press the SEARCH button to switch from Preset or Manual tuning to Search tuning mode (if the unit is already in Search Tuning mode, it will toggle to Manual Tuning, and vice versa). The display will briefly read "SEARCH", and then "SRCH" plus the tuned frequency (see Figure 3) until the station name is acquired (unless the Station Name feature is switched off).

**Search mode display– without Station Name (Fig. 3)**



When the tuning knob is turned one step clockwise the MXT4000 will commence searching for stations at frequencies higher than the start point. If the knob is rotated anti-clockwise the MXT4000 will search lower frequencies. When the first station of adequate signal strength is detected the MXT4000 will stop searching and the ON TUNE indicator will illuminate (in FM only). Once the station is tuned, its frequency may be stored as one of the Presets if desired (see "Store button" operation on page 8), or the search initiated again by rotating the tuning knob in the required direction. Searching may be stopped before a station is found by rotating the tuning knob in the opposite direction to the current search, or by pressing the PRESET, SEARCH or SELECT buttons.

## Manual tuning mode

Press the SEARCH button to switch from Search to Manual tuning mode (two presses are required if the unit was previously in Preset Tuning mode; the first to switch to Search tuning mode, the second to switch to Manual).

When MANUAL mode is selected the tuned frequency will not change. The display will briefly read "MANUAL" and then show "MAN" followed by the tuned frequency (see Figure 4). If an FM RDS station has been tuned the display will change to show the station name once the information has been acquired, unless the Station Name feature has been switched off – see page 7.

Once set to Manual tune mode, the TUNE UP/DOWN buttons will change the tuned frequency in discrete steps as shown in the table below:

FM tuning steps	50kHz
AM tuning steps	9kHz

When the tuning knob is rotated clockwise the tuned frequency will increase by one step at each click, or decrease one step for an anticlockwise rotation. Correct FM tuning can be obtained either by setting the correct frequency, if it is known, or by tuning until the ON TUNE indicator illuminates and a clean signal is received. In the AM band there will be no programme signal when set one step off tune. Once the station is tuned its frequency may be stored as one of the Presets if desired (see "Store button" operation on page 8).

**Manual display mode – without Station Name (Fig. 4)**



## 7. SELECT (Control Menu)

The basic tuner functions (tuning and mode controls for example) are all directly available, both from the front panel buttons and the remote control. In order to access all features, however, it is necessary to use the menu system.

To enter the menu system, press the SELECT button on the front panel or the 'SETUP' key on the remote control. The display will change to show "CONTROL MENU". Use the rotary control on the front panel or the navigate ▲ and ▼ keys on the remote control to cycle through the list of features before pressing SELECT (or 'SEL' on remote) to make your choice.

You may exit the menu system at any time without selecting an option by using one of the following methods:

- press SETUP key again on the remote handset.
- press SELECT button or SEL remote key while the display shows, "CONTROL MENU".
- wait for the menu to time-out after about 10 seconds. In all of these cases, the MXT4000 will revert to the previous operation mode.

**NOTE:** the menu cannot be accessed while the tuner is in standby or during the start-up period when switching the unit out of standby.

The instructions below describe operation from the front panel only for simplicity. The features available via the menu system are:

### Station name (menu display will show: (STATION NAME))

[Applies only to FM stations with RDS]

Use this feature to display the name of the station currently tuned. Press SELECT on this option and then use the rotary control to choose Station Name ON or OFF. Then press SELECT again to activate/deactivate the Station Name feature. The default setting is ON.

**NOTE:** "Station Name" is not displayed while a preset is being programmed.

### Display time (DISPLAY TIME)

Use this option to display the current time. The time will be displayed for about 2 seconds before the display reverts to its previous mode.

### Alarm set (ALARM SET)

[**NOTE:** the alarm feature requires the tuner to be linked to a Myryad Smart My-Link® Integrated Amplifier or Preamplifier – and a Smart My-Link® CD player if that is to be controlled by the alarm.]

Use Alarm Set to set the on and off times of the alarm – in 24 hour format. Press SELECT to choose this option and the display will show "HR ON HH.MM" where HH is the hours and MM is the minutes. Then use the rotary control to set the hours part of the alarm on time. Press SELECT to confirm the hours and then use the rotary control again to set the minutes (display will show "MIN ON HH.MM").

Press SELECT to confirm that the minutes are correct. The display will immediately change to allow setting of the Alarm Off time, starting from one minute after the on time which has just been set. The display will read "HR OFF HH.MM" and the setting of hours and minutes is the same as before.

Once the Alarm off time has been set, use the rotary control to choose between using the tuner or CD player as the source when the alarm is activated. If you choose tuner, the system will switch on at the last tuned frequency when the alarm-on time is reached. If you choose CD player, ensure that a disc is in the CD player to be played when the alarm-on time is reached.

Once the alarm is set the system should be switched into standby. When the alarm-on time is reached, the amplifier and the tuner/CD player will be switched out of standby, the correct input will be selected and the chosen programme will be heard. Please ensure that the amplifier volume is appropriately set. When the alarm off time is reached, the amplifier and tuner/CD player will be switched back into standby. Note: there is no alarm tone.

### Alarm on/off (ALARM ON/OFF)

Use this option to enable/disable the alarm. After the alarm setting option (above) has been used, the alarm is automatically set to ON. To disable (or enable) the alarm, select this option and use the TUNE buttons to choose OFF (or ON) and then press SELECT. This procedure allows the alarm to be turned on or off without having to reset the alarm times.

### Clock set (CLOCK SET)

Use this option to set the clock in 24-hour format. The procedure is exactly the same as for setting the Alarm time – using the SELECT button and the rotary control. Once the time has been set, press SELECT and then choose whether the clock should be on or off in standby. When this option has been selected the display will briefly show the time – e.g. "TIME 14.27" - before returning to normal operation.

If you tune to an RDS station which broadcasts a time code, the MXT4000 will automatically set the time precisely using the RDS data. Note that the RDS clock time code may not be available in all countries.

### Memory Clear (MEMORY CLR)

Use this feature to clear unwanted preset stations from the memory. Press SELECT to choose Memory Clear then use the TUNE buttons to cycle through the three available options:

- CLEAR ONE – clears the currently selected preset
- CLEAR ALL – clears all preset information from the memory and leaves FM preset 1 tuned to 98.00MHz and AM preset 1 tuned to 999kHz (1000kHz in North America).
- FACTORY SET – returns the unit to the default factory settings. This option includes clearing all preset information and leaves AM and FM default presets set as above.

When the desired option has been selected, press SELECT again to execute the chosen Memory Clear operation. Alternatively exit without change by pressing SETUP on the remote control or wait 10 seconds for the menu to time out.

## 8. AM/FM

Press the AM/FM button change between FM and AM bands, or vice versa. Either the FM or AM icon in the display will be illuminated to show the current band.

## 9. MONO (FM mode only)

When the MONO button is pressed the MXT4000 is locked into MONO reception mode and the STEREO indicator will not illuminate, whether the tuned station is transmitting in stereo or mono. The MONO icon in the display will illuminate to indicate this mode. If noisy reception is experienced in stereo mode, pressing the MONO button will usually result in a dramatic improvement in sound quality. When a station is stored as a preset (see below) the current MONO status is also stored, and will therefore be recalled whenever that preset is accessed.

## 10. STORE

The STORE button is used when storing the preset station frequencies. Up to 39 FM and 19 AM preset stations may be stored. The procedure to store is as follows:

- Tune to the desired station using either MANUAL or SEARCH tuning mode, and set to MONO if required.
- Press the STORE button to enter STORE mode. The display will automatically change to Preset mode at the last used preset number, but with a flashing "\*" symbol to the right of the tuned frequency.
- If the station is to be stored at a different preset number, use the rotary control or the remote control number keys to set the desired preset number, otherwise move directly to the next step.
- Press the STORE button again to store the frequency at the preset number displayed. The MXT4000 will then automatically return to the original tuning mode ready to tune the next station.

STORE mode can be exited at any time by pressing the SEARCH or PRESET button. The MXT4000 will exit STORE mode automatically after 10 seconds if no button is pressed.

The preset station data is stored in a permanent memory. The information is retained even when the tuner is switched off or the power cord disconnected.

## REMOTE CONTROL HANDSET OPERATION

The MSR2 handset supplied with the MXT4000 has been ergonomically designed to be easy and comfortable to use. It will also control Myryad's Integrated Amplifiers, Preamplifiers, Tuners and DVD Players. See the separate MSR2 System Remote Owner's manual for details of its use with these products.

**Important.** In order to use the MSR2 handset to control your MXT4000 you must first press the 'TUN' input select button near the middle of the handset to switch it to 'Tuner/Amplifier' mode. The handset will remain in this mode until either the 'CD' or 'DVD' key is pressed to change to CD/Amp or DVD/Amp mode respectively.

The handset keys allocated to control of the tuner are as follows:

### Preset, Manual and Search (PST, MAN, SCH)

These keys allow direct access to any of the three tuning modes (see front panel MODE button).

### Tune up and tune down (▲▼)

These keys operate in a similar way to the front panel rotary tuning control. A single brief key press will have the same effect as one click step of the control, moving either up or down in frequency or preset number. In Manual and Preset modes, when a key is pressed and held down the tuner will scan in the desired direction.

### Mono and store (MONO, STORE)

These keys operate exactly as the front panel MONO and STORE buttons.

### AM/FM (BAND)

The BAND key operates exactly as the front panel AM/FM button.

### DIM

The display may be switched off using the DIM key. A second press will turn the display on again. The display will come back on briefly if any control is used while the display is switched off (remote or front panel).

### Keypad 0-9

These keys allow direct access to any preset station up to the maximum limit of 39 for FM or 19 for AM. To select a preset numbered 10 or greater, for example 14, press "1", followed by "4". If "1" is pressed without a second digit, the MXT4000 will go to preset 1 after few seconds. Pressing any other number key, from 4 to 9, will tune instantly to the relevant preset station.



### Direct frequency entry using keypad 0-9

When a desired station's frequency is known, it may be tuned directly by entering the frequency using the keypad. The tuner can be in any mode, but it must not be in the control menu. The AM or FM frequency band must be set first.

To tune AM stations

- Press the "SEL" key to go into numeric entry mode. The display will go to manual tune, but with "----" in place of the frequency: "MAN ----".
- Enter the frequency (3 or 4 digits), starting with the highest digit – for example, 1, 1, 7, 0 for 1170kHz. Total allowed range is 522 to 1620.
- The MXT4000 will tune immediately to 1170kHz and remain in manual tune mode.
- If an attempt is made to tune to a frequency which is not an AM tuning step (see page 4) the MXT4000 will tune to the nearest lower frequency step.

To tune FM stations

- Press the "SEL" key to go into numeric entry mode. The display will go to manual tune, but with "----" in place of the frequency: "MAN ----".
- Enter the frequency, ignoring the decimal point (4 or 5 digits), starting with the highest digit. An initial "1" will automatically enter "10" so, for example, 1, 4, 7, 5 will set 104.75MHz.
- The MXT4000 will tune immediately to 104.75MHz and remain in manual tune mode.
- Note: the last frequency digit can only be 0 or 5. If any other number is entered MXT4000 will tune to the nearest lower frequency step.
- The total allowed range is 87.5 to 108.

### SETUP

Press the SETUP key to enter the tuner control menu.

### SEL, ▲ and ▼

The ▲ and ▼ keys are used to navigate the menu in the same way as the front panel tune buttons. The SEL key is used to select items from the menu in the same way as the front panel SELECT button, but it cannot be used to enter the menu (see page 7). When not within the control menu, the SEL key is used to initiate direct frequency entry – see above.

### Standby

Pressing the Standby key by itself sends the command to switch an amplifier into or out of STANDBY mode. However, if your MXT4000 is linked to the amplifier via the Smart My-Link then it will also be switched into or out of STANDBY.

It is possible to switch only the MXT4000 into or out of by pressing and holding down the "TUN" key and then simultaneously pressing the STANDBY key. This will switch the STANDBY status of the MXT4000 without affecting any other unit.

If Smart My-Link is being used the STANDBY and TUNER keys must be released simultaneously.

## INSTALLING AND REPLACING HANDSET BATTERIES

The MSR2 Remote Handset uses two 1.5 V type AAA batteries. To fit new batteries first open the battery compartment in the rear of the handset and remove any existing batteries. Fit the new ones as directed by the symbols moulded inside the battery compartment, then replace the battery compartment cover. The batteries should always be removed if they are discharged (indicated by no remote control operation or by operation only at very short range), or if the remote control is not going to be used for an extended period.

## SYSTEM OPERATION WITH SMART MY-LINK®

When used as a linked system (which must include a Smart My-Link® equipped Integrated Amplifier or Pre-amplifier) Myriad products equipped with Smart My-Link® have a number of extra features that make the system as a whole easier and quicker to use than a normal hi-fi. These include:

### Start-on-Play (CD/DVD)

Press play on the CD/DVD player (or the remote control) and both the CD/DVD player and amplifier will switch out of standby (if necessary) and play the CD/DVD. The amplifier will automatically select the CD/DVD source.

### Start-on-Open (CD/DVD)

Press open/close on the CD/DVD player (or the remote control) and both the CD/DVD player and amplifier will switch out of standby (if necessary) and the CD/DVD drawer will open. The amplifier will automatically select the CD/DVD source.

### Intelligent Input Selection (Amplifier)

Press a source select button on the remote control and the system will awaken only the amplifier and the selected source (if in standby).

### Mute/Pause Control (Amplifier/CD/DVD)

When using the CD/DVD player, selecting mute from the remote control will mute the amplifier *and* pause the CD/DVD. When the amplifier mute is cancelled, the CD/DVD will continue playing.

### Power-Saving Mode (Amplifier/Tuner/CD/DVD)

The amplifier will switch the Tuner, CD or DVD Player into standby if that source remains unselected for more than ten minutes.

### Automatic Switch-On (Tuner/CD/DVD)

If the standby button on the Tuner, CD or DVD Player is pressed, the amplifier will also awaken and select the correct source.

### Alarm Mode (Amplifier/Tuner/CD)

The Alarm timer in the Tuner will switch amplifier and the Tuner or CD Player out of standby and play material at a predetermined "alarm on" time – and will switch them back to standby at a predetermined "alarm off" time.

## FM ANTENNA

The wire antenna supplied with the MXT4000 may provide adequate reception of strong FM signals. However, such an antenna is not very efficient at rejecting "multipath" and other forms of FM interference. Nor can it easily be rotated to optimise its pickup pattern for best reception of stations from different directions. In most cases you will greatly improve reception by using a better antenna.

The best choice is a directional FM-only antenna, mounted as high above ground as possible. The antenna should be mounted externally for best reception, but loft mounting is a simpler alternative which is satisfactory in many locations when adequate loft space is available. The type of antenna necessary will depend upon both your distance from the transmitter and the local geography (e.g. intervening hills or large buildings).

It is also most important to pay attention to the quality of the coaxial cable used for the downlead from the antenna to your tuner. Avoid joins along the length of the cable and ensure that the exposed end at the antenna is properly weatherproofed against ingress of moisture. All cables lose some signal along their length and it is false economy to use cheap cable of unknown quality. Always specify the best "low loss" coaxial cable.

The above notes are for guidance only. It will usually be best to consult a local specialist aerial/antenna contractor who will have knowledge of local reception conditions. Your Myryad dealer may also be able to offer advice.

## TROUBLE-SHOOTING GUIDE

Possible solutions to some of the most common problems

### **No sound:**

- Power turned off or system in standby mode. Check that the STANDBY LED is illuminated blue.
- UK version only: The fuse in the mains plug has failed. Check and replace if necessary.

### **Sound in one channel only:**

- Interconnect cable pulled loose or making poor contact. Check and, if necessary, unplug and re-plug all relevant cables.

### **Loud buzz or hum:**

- Interconnect cable pulled partially out of its socket.
- Defective interconnect cable.

### **Hiss that gets worse with STEREO reception:**

- Antenna connector loose. Un-plug and re-plug connector and check cable.
- Weak antenna signal. Move wire antenna to optimize reception. If not adequate, install a loft or external antenna.
- If all else fails, switch to MONO reception.

### **Stereo indicator fails to light during a stereo broadcast:**

- Another possible effect of a very weak signal. Attend to the antenna system as described above.

### **Distorted reception:**

- "Multipath" reception. Rotate antenna to find the orientation that provides the best reception. Raise the height of the antenna. If all else fails, switch to MONO reception.

For further help please visit the Myryad website at:  
[www.myryad.co.uk](http://www.myryad.co.uk)

# SPECIFICATIONS

## **FM band**

Tuning range	87.5 to 108MHz
Usable sensitivity (IHF mono)	2.0 $\mu$ V
Signal/noise ratio	78dB (mono) 72dB (stereo)
THD (1kHz)	0.1% (mono) 0.2% (stereo)

## **AM band**

Tuning range	522 to 1620kHz
Signal/Noise ratio	50dB
THD (1kHz)	1.0%
Number of preset stations	39 FM, 19 AM
Dimensions (w x h x d)	436 x 95 x 343mm
Weight (net)	7.16kg
Supply voltage (set by internal wiring)	120 or 230V



Web: [www.myryad.co.uk](http://www.myryad.co.uk)

Myryad is part of

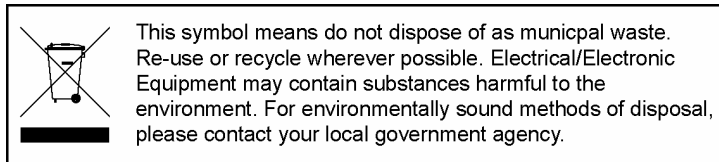
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