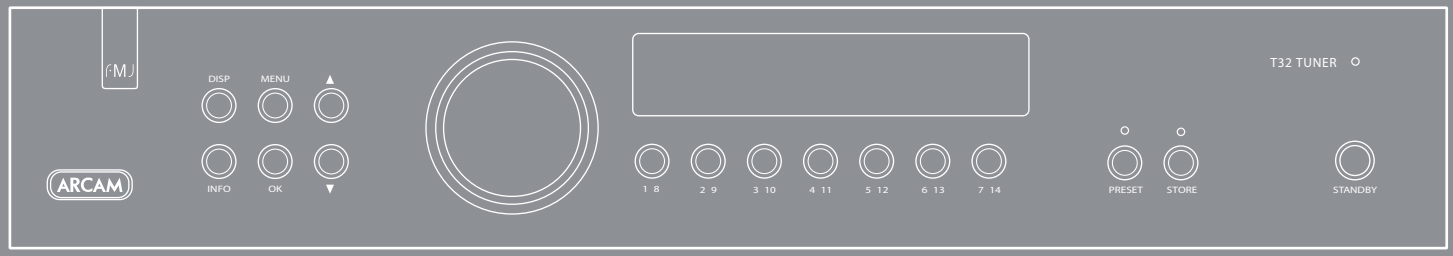
ARCAM

English

rMJ T32

HANDBOOK Radio tuner



safety guidelines

CAUTION	ATTENTION
RISK OF ELECTRIC SHOCK DO NOT OPEN	RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

Warning

Mains plug/appliance coupler is used to disconnect device and it shall remain readily operable.

MANY OF THESE ITEMS ARE COMMON SENSE PRECAUTIONS BUT, FOR YOUR OWN SAFETY AND TO ENSURE THAT YOU DO NOT DAMAGE THE UNIT, WE RECOMMEND THAT YOU READ THEM.

Important safety instructions

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

1. Take heed of warnings and instructions

You should read all the safety and operating instructions before operating this equipment. Retain this handbook for future reference and adhere to all warnings in the handbook or on the equipment.

2. Water and moisture

The presence of electricity near water can be dangerous. Do not use the equipment near water – for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

3. Object or liquid entry

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid-filled objects such as vases should not be placed on the equipment.

4. Placing the equipment

Only use a rack or shelf that is stable and strong enough to support the weight of this equipment.

5. Ventilation

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded.

Keep a minimum of 5cm (2 inches) clear around the apparatus to allow sufficient passage of air.

6. Heat

Locate the equipment away from naked flames or heat-producing appliances such as radiators, stoves or other appliances that produce heat.

7. Climate

The equipment has been designed for use in moderate climates and in domestic situations.

8. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, lint-free cloth. Do not use chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause permanent white marks.

9. Power sources

Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment.

The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.

10. Power-cord protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to the point where they exit from the equipment.

11. Non-use periods

If the equipment is not being used for an extended period, we recommend that you unplug the power cord of the equipment from the outlet, to save power.

12. Abnormal smell

If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

13. Servicing

You should not attempt to service the equipment. Contact your dealer to arrange servicing.

14. Batteries

Batteries should not be exposed to excessive heat (heating systems, sunshine, etc.) or incinerated.

You are urged to dispose of batteries in a responsible way. Look for ways in which you can recycle used batteries locally. Recycling batteries keeps heavy metals out of landfills, groundwater, surface water, or air.

15. Power lines

Locate any outdoor antenna/aerial away from power lines.

16. Damage requiring service

The equipment should be serviced by qualified service personnel when:

A. the power-supply cord or the plug has been damaged, or
B. objects have fallen, or liquid has spilled into the equipment, or
C. the equipment has been exposed to rain, or
D. the equipment does not appear to operate normally or exhibits a marked change in performance, or
E. the equipment has been dropped or the enclosure damaged.

Safety compliance

This equipment has been designed to meet the IEC/EN 60065 international electrical safety standard.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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welcome

English

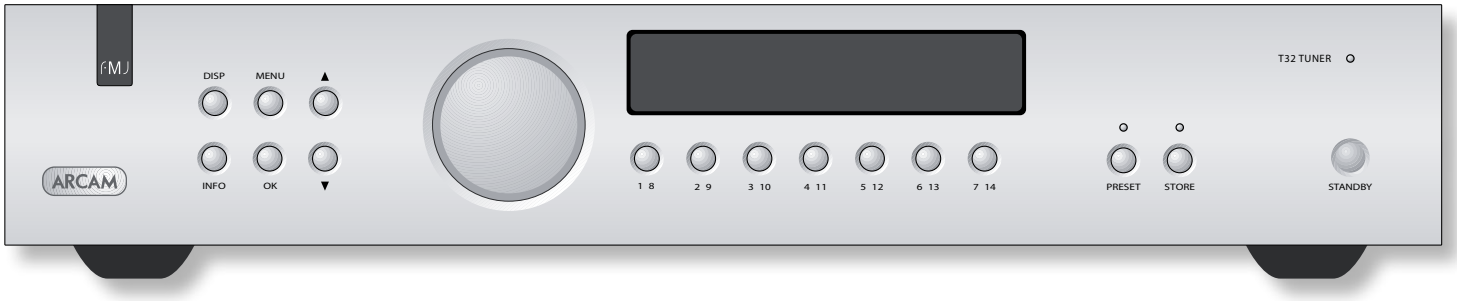
Thank you and congratulations for purchasing your Arcam FMJ radio tuner.

*Arcam has been producing specialist audio products of remarkable quality for over three decades and the T32 is the latest in a long line of award winning HiFi equipment. It captures FM, AM and (depending on installed options) DAB/DAB+ and/or Sirius satellite radio. By connecting an Arcam **rDock** or **rLead** to the T32, you can gain full-featured iPod® connectivity. The design of the FMJ range draws upon all of Arcam's experience as one of the UK's most respected audio companies and is built to give you years of trouble-free listening enjoyment.*

This handbook has been designed to give you all the information you need to install, connect and use the Arcam T32. The CR90 remote control handset supplied with this equipment is also described. Use the contents list shown on this page to guide you to the section of interest.

We hope that your FMJ tuner will give you years of trouble-free operation. In the unlikely event of any fault, or if you simply require further information about Arcam products, our network of dealers will be happy to help you. Further information can also be found on the Arcam website at www.arcam.co.uk.

The FMJ development team



iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

SiriusConnect™, channel names and logos and related marks are trademarks of SIRIUS XM Radio Inc.

installation

Arcam's T32 provides class-leading sound quality from a range of radio sources: FM, AM, DAB and/or Sirius. (The range is market determined, depending on the national availability of radio sources.) In addition, the T32 works beautifully with Arcam's rDock or rLead accessories, giving your iPod® a first class entry ticket into your home Hi-Fi system.

As part of an Arcam system, the high performance T32 tuner is designed to truly bring your music and sound to life.

Placing the unit

- Place the T32 on a level, firm surface, avoiding direct sunlight and sources of heat or damp.
- Do not place the T32 on top of an amplifier or other source of heat.
- Do not place the T32 in an enclosed space such as a bookcase or closed cabinet unless there is good provision for ventilation. The T32 is designed to run warm during normal operation.
- Do not place any other component or item on top of the T32 as this may obstruct airflow around the unit, causing the T32 to run hot.
- Make sure the remote-control receiver (behind the FMJ badge on the front panel) is unobstructed, or remote control will be impaired.
- Do not place your record deck on top of this unit. Record decks are very sensitive to the noise generated by mains power supplies which will be heard as a background 'hum' if the record deck is too close.

Power

The T32 is supplied with a moulded mains plug already fitted to the lead. Check that the plug supplied fits your supply – should you require a new mains lead, please contact your Arcam dealer.

If your mains supply voltage or mains plug is different, please contact your Arcam dealer immediately

Push the IEC plug end of the power cable into the socket on the back of the T32, making sure that it is pushed in firmly. Plug the other end of the cable into your mains socket and, if necessary, switch the socket on.

Remote control input

The **REMOTE IN** input can be used to pass RC5 codes to the T32 if it is installed in a position, or a system, where infrared cannot be used. If this is required, please contact your dealer for further information.

In normal use there is no need to make any connections to this input.

The **REMOTE IN** input requires a mono 3.5mm jack, with the tip active and the sleeve grounded.

The remote control signals must be in modulated RC5 format (at 36kHz), with a voltage level of between 5V and 12V.

Interconnect cables

We recommend the use of high-quality screened cables that are designed for the particular application. Other cables will have different impedance characteristics that will degrade the performance of your system (for example, do not use cabling intended for video use to carry audio signals). All cables should be kept as short as is practically possible.

It is good practice when connecting your equipment to make sure that the mains power-supply cabling is kept as far away as possible from your audio cables. Failure to do so may result in unwanted noise in the audio signals.

Aux input

This socket can either be used in conjunction with the RS232 port for the connection of an **rDock**, or as a standard line level input (see page 13).

Mains switch

This switch isolates the unit from mains power. The unit can be placed in low power standby using the **STANDBY** button on the front panel or ⏻ on the remote control

DAB aerial input (if fitted)

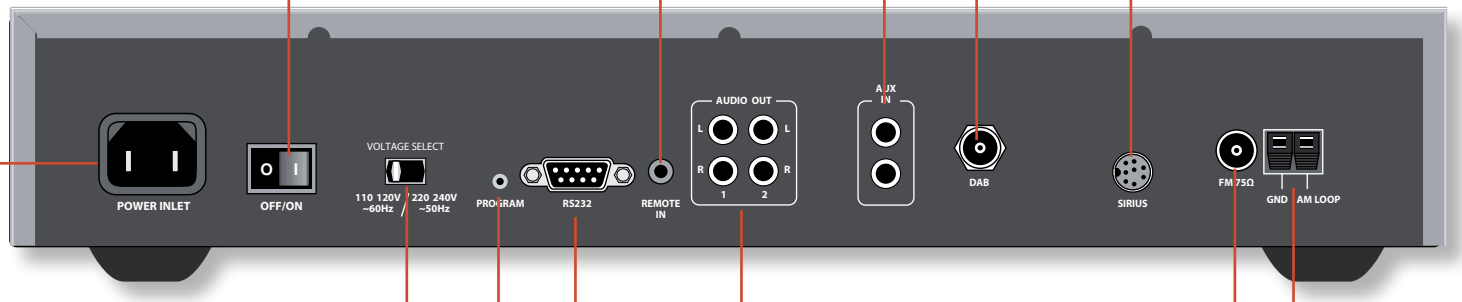
This input can be used with the two-way ribbon aerial provided, or connected to an external aerial (of the correct type) if required.

Remote in

This allows remote-control signals to be received by the T32 if the remote sensor is covered or otherwise 'invisible' to the remote control (see page 4).

Sirius input

This input is for a SiriusConnect™ Home Tuner module. Sirius is a subscription radio service that is available throughout North America.



Power inlet

Connect the correct mains cable here.

Voltage select

Ensure the voltage selected matches the local power supply.

Program switch

For use by your Arcam dealer during installation of software updates.

Analogue audio outputs

Connect these to your amplifier's tuner (or other line-level) input using suitable high quality interconnect cables. Ensure that the left and right audio outputs from the T32 are connected to the corresponding left and right inputs on your amplifier.

The second set of sockets can be used to connect to a second amplifier set up for multi-room use, or for direct recording.

AM aerial input

Connect the two AM Loop aerial leads – they are not polarised. In addition, a 3m–5m external wire can be fixed to **AM LOOP** to improve reception (see page 9).

RS232 control

This is used for connecting an **rDock** or **rLead** for iPod® control (see page 6), or for controlling the T32 from a remote computer.

Your Arcam dealer can provide a copy of the RS232 remote control protocol if required.

FM aerial input

This input can be used with the ribbon aerial provided, or connected to an external aerial (of the correct type) if required. In Europe, a Belling-Lee connector is used; in North America, an F-type (screw) connector is used.

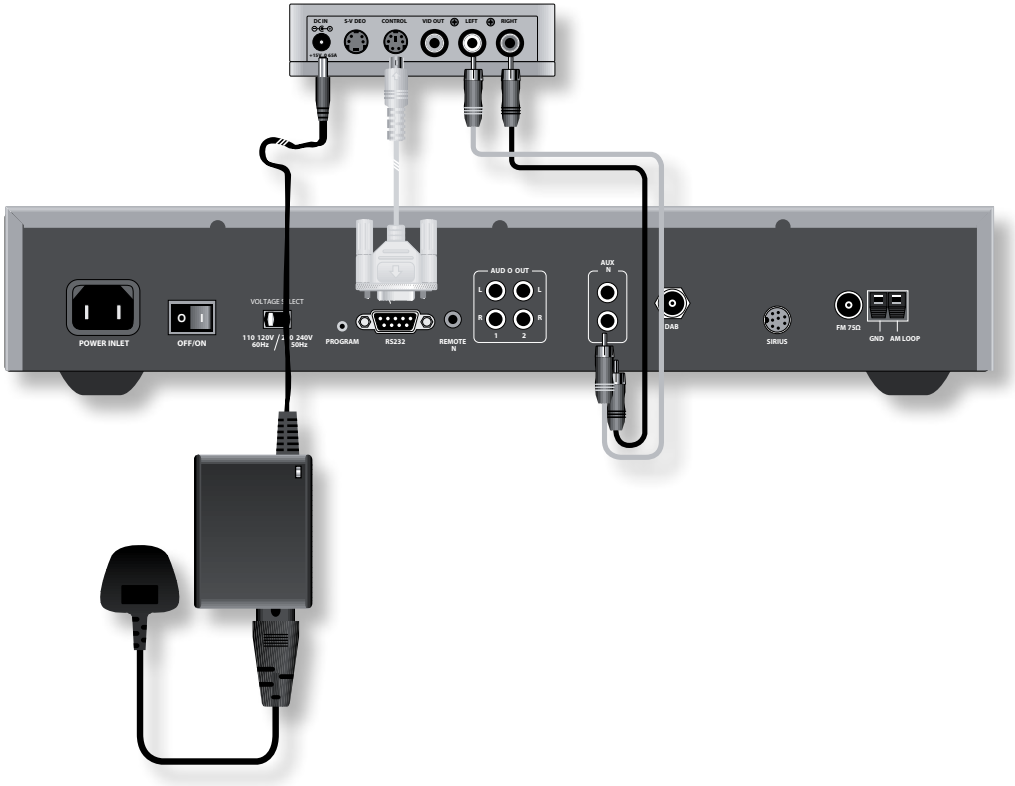
rDock connection

The combination of your T32 and Arcam's rDock (or rLead) provides a great platform for your iPod®.

Connect the rDock as shown, power on the rDock, slot in your iPod and select iPod as the source.

Navigating through music and podcasts on your iPod is simple using the CR90 remote, with text appearing on the T32's front panel display.

For more information on using an iPod with your T32, see page 13.



Radio interference

All Arcam products have been designed to very high standards of electromagnetic compatibility.

However, both CD players and DVD players generate RF (radio frequency) energy. In some cases this can cause interference with FM and AM radio reception. If this is the case, switch the player off or keep the player and its connecting cables as far from the tuner and its aerials as possible. Connecting the player and the tuner/amplifier to different mains sockets can also help to reduce interference.

EU countries

This product has been designed to comply with directive 89/336/EEC.

USA

This product complies with FCC requirements. If the equipment causes interference to radio/television reception, which can be determined by switching the equipment off and on, the following measures should be taken: Re-orientate the receiving antenna or route the antenna cable of the receiver as far as possible from this appliance and its cabling. Relocate the receiver with respect to this appliance. Connect the receiver and this appliance to different mains power outlets. If the problem persists contact your Arcam dealer or Arcam Customer Support on +44 (0)1223 203203.

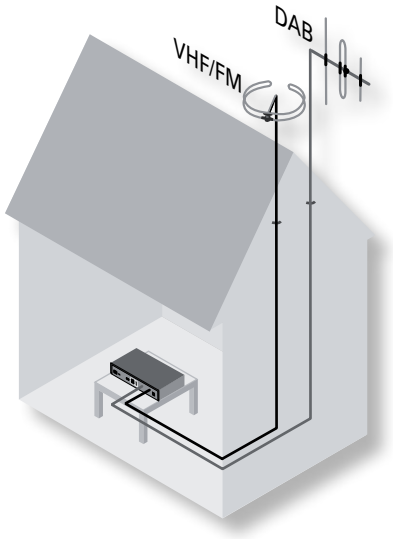
antenna

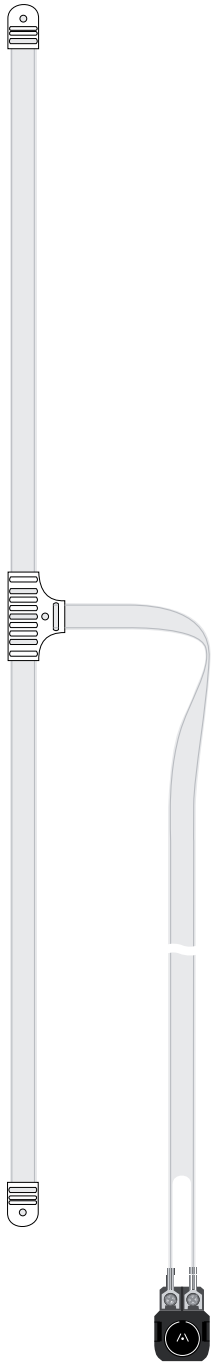
Which radio aerial?

Your Arcam T32 is capable of superb radio reception, but only if it is receiving a good quality transmission signal.

The T32 is fitted with an FM/AM receiver and an optional DAB+ receiver, depending on the region where it was sold. The type of aerial you need depends on your listening preferences and the local conditions.

Try the aerials supplied with your unit. If you are in a medium to strong signal area, these should be adequate for good reception. In an area of weak reception, or for optimum performance, an external aerial may be required. Contact your local Arcam dealer or an aerial installation expert for advice.





DAB

In moderately strong signal areas, one of the two dipole ribbon aerials supplied can be used with reasonable results.

1. Loosen the two cross-head screws on the push-on adaptor.
2. Slide a terminal tag from the long end of the ribbon aerial under one of the screws and tighten securely. Repeat with the other tag and remaining screw.
3. Attach the push-on adapter to the F-type **DAB** connector on the back panel of the unit.
4. The 'T' section of the aerial should be mounted vertically, since DAB signals are vertically polarised.

When installed and receiving DAB, check the signal strength by pressing the **INFO** button on the front panel or remote until the signal bar graph is displayed.

In weak signal areas, a high-gain, externally-mounted or roof-mounted aerial is desirable in order to receive the highest number of services.

In Band III transmission areas (such as the UK), use a multi-element Yagi aerial with the elements mounted vertically, as the transmissions are vertically polarised. If you are close to more than one transmitter, use an omnidirectional or telescopic dipole aerial.

If the DAB services in your area are transmitted on L-band, then ask your dealer for advice for the best aerial to use.

FM

An FM aerial is required to receive VHF radio signals.

In moderately strong signal areas, the dipole ribbon aerial supplied can be used with reasonable results.

1. Loosen the two cross-head screws on the push-on adaptor.
2. Slide a terminal tag from the long end of the ribbon aerial under one of the screws and tighten securely. Repeat with the other tag and remaining screw.
3. Attach the push-on adapter to the **FM** connector on the back panel of the unit.
4. Experiment with the position of the aerial to get the best reception (FM signals are both vertically and horizontally polarised).

In weak signal areas, or for optimum FM radio reception, a roof- or loft-mounted aerial is advised as this will give superior reception.

In some areas, cable radio may be available or, in an apartment building, a distributed aerial system may be installed. In either of these cases you should have sockets in your home marked **FM** or **VHF** (do not use those marked **TV**); these should be connected to the **FM** coaxial connector on the rear of the unit.

Sirius

An antenna suitable for receiving Sirius satellite broadcasts is included with the SiriusConnect™ Home Tuner accessory.

The Sirius 8-pin connection cable lets you control the tuner through your Arcam T32. Plug in the tuner module, set up the indoor/outdoor satellite radio antenna and activate your SIRIUS subscription before use (see page 12).

Visit *www.sirius.com* for more information.

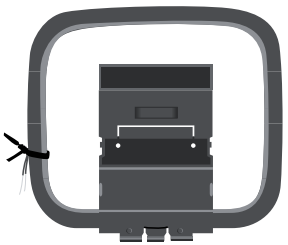
AM

An AM aerial is required to receive AM/medium wave radio signals, so a simple loop aerial is supplied. Follow the assembly instructions in the adjacent diagram.

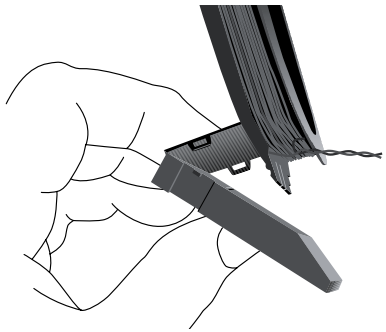
Make sure that the aerial is positioned well away from TVs, computers and other sources of RF noise. Rotate the aerial to discover which position gives the best reception.

In weak signal areas, or when the T32 is in use inside a steel-framed building (such as an apartment building), a wire between 3 and 5 metres long can be used to improve reception. Mount this high up outside the building if possible, and connect one end of this wire to the **AM LOOP** connector, **in addition to** the loop aerial supplied (i.e. do not disconnect the AM loop aerial).

Assembling the AM loop aerial



1. Release the tie-wrap and unwind the twisted lead. Fold the plastic stand forward through the loop frame.



2. Push the tab into the open slot in the base of the stand. Press until the tab clicks home.

3. Connect the lead wires to the AM socket at the rear of the unit (the wires are not polarised). Rotate the aerial's stand until you obtain the best reception.

Information on radio transmissions

In the UK, the following Internet resources may be of interest:

www.bbc.co.uk/reception/info/index.shtml

This gives access to downloadable factsheets in PDF format on DAB digital audio, Analogue radio (FM/AM), Radio recption on the move and RDS, and Radio reception overseas.

www.bbc.co.uk/radio/waystolisten/analogue

To find the optimum frequencies for listening to BBC national radio networks in your area.

www.frequencyfinder.org.uk

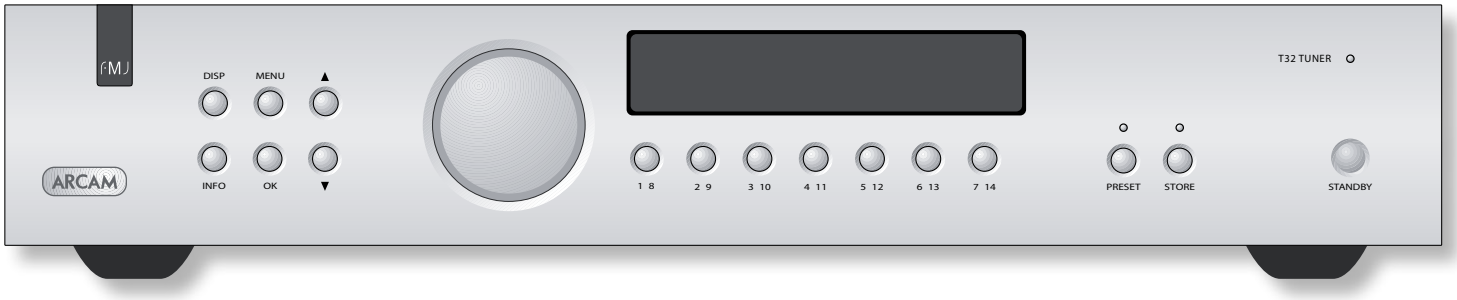
This gives a comprehensive station directory for the UK and Ireland, in frequency order, or by selecting a town or city.

www.mediauk.com/radio

This gives detailed information on all UK radio stations, including contact details, transmission frequencies and channel numbers.

Where Sirius satellite radio broadcasts are available, see:
www.sirius.com/whatsonsirius

This gives programme details of Sirius satellite radio, a subscriber service available throughout most of North America. Information about their 130 channels of commercial-free Music, Sports, News and Entertainment programmes is available from the Sirius.com home page.



Front panel operation

These functions can also be controlled by the CR90 remote control. (See pages 14 for details.)

STANDBY

Press **STANDBY** to switch the tuner between On (green light) and Standby (red light). (Equivalent to ⏻ on remote control.)

DISP

Press **DISP** to cycle through the brightness settings of the front-panel display. (Equivalent to DISP on remote control.)

MENU

Press **MENU** to access the setup menu. Use the Navigation buttons to move between menu items and the Control knob to change settings within an item. (Equivalent to MENU on remote control.)

Navigation buttons

Use ▼ or ▲ to change signal sources between AM, FM, DAB*, Sirius* and iPod/Aux (Equivalent to MODE on remote control). The Navigation buttons are also used to move between items in the setup menu.

INFO

Press **INFO** to change the type of information shown on the second line of the front panel display, depending on the source signal. (Equivalent to INFO on remote control.)

OK

Press **OK** to confirm a digital radio channel selection or a preset selection. (Equivalent to OK on remote control.)

Control knob

Used to manually tune stations by selecting a frequency, or to cycle through stations (DAB, Sirius) or stored presets. Also used to select settings within a setup menu item.

Preset buttons (1–8, 2–9, etc.)

Press a Preset button briefly to select the first preset number listed (Preset 1, for example). Press and hold the button for one second to select the second number listed (Preset 8, for example). In this way, up to 14 preset stations can be accessed from the front panel.

To access stations beyond 14 (up to a maximum of 100), use the remote control, or the Control knob with **OK**.

PRESET

Press **PRESET** to recall a station or channel stored as a preset. You can quickly cycle through all the presets using the Control knob, selecting a preset value with the **OK** button (see page 13).

Alternatively, use the numeric keypad on the remote control to select a preset directly.

STORE

This button allows you to assign a currently tuned radio station to the next free preset number – or to a chosen preset number. See 'Storing a preset' on page 13.

* *Where fitted/available*

Searching for radio stations: AM/FM

Before searching for stations, ensure that the T32 is in the correct mode by pressing the ▲ or ▼ buttons on the front panel (or MODE on the remote control) until 'AM' or 'FM' is shown on the display.

There are two methods to search for analogue (AM/FM) stations:

- If you know the broadcast frequency of the station you want, turn the Control knob on the front-panel until the desired frequency is displayed. You should then hear the required radio station.
- An alternative search method is to press and hold the ◀ or ▶ keys on the remote control. After a delay of one second, the T32 begins scanning for the next available station. On finding a station with a strong enough signal, the T32 stops scanning, plays the station and displays the station details.

If no stations can be received, then your aerial is not providing an adequate signal. Contact your Arcam dealer for further information or advice.

Switching to mono

In some weak signal areas it can be beneficial to force the FM tuner to monaural output, as mono requires a much lower signal strength to produce acceptable results.

Press **MENU** and navigate to 'FM Mode', then turn the Control knob (or ◀ or ▶ on the remote control) until 'Mono' is displayed.

If the signal strength in your area is adequate, leave this set to 'Stereo'.

Note that AM broadcasts are only available in mono output.

RDS

Radio Data System (RDS; or RBDS in the USA) is a communications protocol for sending small packets of digital information over FM radio broadcasts. RDS standardises several types of information transmitted, including station identification.

To toggle this function on or off, press **MENU** and navigate to FM Setup:

Use the control knob (or ◀ and ▶ on the remote control) to toggle between 'RDS Text Enabled' and 'RDS Text Disabled'.

Note that not all stations broadcast RDS information.

Searching for radio stations: DAB

(if fitted)

When using the DAB tuner section for the first time, you should perform a search to find the available services in your area. You may also wish to repeat the search periodically to discover if any new ensembles (i.e. groups of services) have gone on air, or if you move the tuner to a different broadcasting region.

The first time you enter DAB mode, the T32 automatically prompts you to scan for stations. To manually initiate a re-scan, press MENU and select:

To begin the search, press **OK** on the front panel or remote control. The current search frequency is shown on the display as the search progresses.

A complete search may take three minutes or so to complete. You cannot cancel a search once started.

If no service is found after the search, then either your aerial is inadequate or you may be outside of the area covered by DAB broadcasts. Contact your Arcam dealer for further information or advice.

Selecting a service

Turn the Control knob (or press ◀ or ▶ on the remote control) to cycle through the available stations and choose the one you wish to listen to. Press OK on the remote control or **OK** on the front panel within the time-out period to output the selected station.

Once you have set up your favourite DAB stations as presets (see page 13), you may also retrieve them quickly from numbered presets.

Deleting services

Under normal circumstances, you should not need to delete services from the T32. If you move to a different broadcasting region, however, or if a station ceases transmission, stations may be shown as available that can no longer be received.

Individual stations cannot be deleted. To remove stations from the selection list that can no longer be received, first press the MENU button. Turn the navigation control wheel until the display shows:

Press OK on the remote control or **OK** on the front panel to delete all services.

A delete operation should always be followed by a search for available stations (as described previously) otherwise no DAB radio stations will be available for selection.

Using Sirius satellite radio (if fitted)

Before you can receive Sirius satellite radio you must connect a 'SiriusConnect™ Home Tuner' package to your T32, obtain a Sirius subscription, and correctly place the Sirius antenna provided in the package to receive Sirius satellite broadcasts. Visit *www.sirius.com* for more information.

Selecting Sirius mode

Check the connections between the SiriusConnect™ Home Tuner package and check that it is receiving power. Switch the T32 to the correct mode by pressing the ▲ or ▼ buttons (MODE on the remote control) until 'Sirius' is selected as the source:

Add to your subscription

Before being able to receive satellite radio broadcasts you will need to update your Sirius subscription to add the ID number of your SiriusConnect™ Home Tuner module connected to your T32.

The Sirius ID can be found by selecting channel 0 using the control knob (◀ or ▶ buttons on the remote control). For example:

The T32 displays the 12-digit number on the front panel display. You should make a note of this ID number, then select Sirius channel 184 while you apply this ID number to your account at *www.sirius.com* or by calling 888-539-SIRIUS (7474).

Once your subscription is updated, a code is sent over Sirius channel 184 and the T32 displays:

The display remains until cleared by pressing any button. The Sirius radio module is now fully operational.

Selecting a channel

Turn the Control knob (or press ◀ or ▶ on the remote control) to cycle through the available channels and choose the one you wish to listen to. Press OK on the remote control or **OK** on the front panel within the time-out period to output the selected station.

You may also listen to a channel by selecting a previously stored preset (see page 13).

Channel selection within a Category

In addition to cycling through available stations, you can also select a category (Pop, Rock, Electro/Dance, Hip-Hop, R&B, Country, etc.) using the ⏮ and ⏭ keys.

The first station in a category is displayed. You can then scroll through other stations in that particular category using the control knob (◀ or ▶ buttons on the remote control). The front panel displays:

The category name is shown beneath the station name to indicate you are scrolling through stations only in the current category. Press OK on the remote control or **OK** on the front panel within the time-out period to send the selected station to output.

To exit category mode, navigate to >All Channels< using the ⏮ and ⏭ keys and press OK.

Please note that, depending on your subscription, some channels may not be available. If a channel is not part of your subscription package, you are invited to subscribe to the station:

'Call 888-539-SIRIUS TO SUBSCRIBE' is displayed beneath the channel name and audio output is suppressed. If you have any queries regarding your subscription, please contact Sirius.

Locking channels

The Sirius module in the T32 has a parental lockout feature which allows you to assign a 4-digit code to any stations you do not wish to be generally available to users.

Channels are locked using the menu function. Press **MENU** (MENU on the remote) and navigate to 'Sirius Lock Code' using the the ▲ or ▼ buttons. Enter the 4-digit acces code (the default is '0000'). Once unlocked, the menu shows the option to change the code. Navigate to the channel you wish to lock or unlock using the ◀ or ▶ buttons on the remote control. The display shows:

if the channel is currently unlocked, or:

if the channel is currently locked.

Press OK (or **OK** on the front panel) to toggle the lock or unlock status of the selected channel.

Note that the access code is reset as part of the 'Sirius reset' function.

Unlocking channels

To unlock a locked channel, key in your 4-digit access code (the default unlock code is '0000') using the numeric keypad on the remote control.

Sirius reset

With a 'Sirius Reset' you can unlock all locked channels, 'unskip' all skipped channels, and reset the channel unlock code to its factory default (i.e. '0000'). However, subscription details for all channels are retained after a Sirius Reset.

To reset, press **MENU** (MENU on the remote) and navigate to 'Sirius Reset' using the the ▲ or ▼ buttons.

Press **OK** (OK on the remote) to confirm.

Sirius errors

If there is a loss of signal due to a disconnected antenna the T32 displays:

If there is a loss of signal due to inadequate signal strength the T32 displays:

During a channel map update, the message:

is displayed, with the percentage of total channels scanned dynamically updated. Note that audio is muted until the update is complete. When complete, the T32 retunes to the original channel and restores the audio.

Presets

The T32 can store up to a total of 100 presets. A preset is a combination of band and frequency, or a DAB or Sirius channel (where fitted), stored in a numbered location. Fourteen of these may be accessed directly from the dedicated front panel preset buttons, although all 100 presets can be stored and retrieved using the Control knob or remote control.

Storing a preset

First select the radio station you wish to assign to a preset. Press **STORE** on the front panel or remote and the T32 displays the lowest numbered vacant preset, for example:

```
Preset 07
Preset empty
```

Press **OK** to store the station to location 07.

Alternatively, you can use any of the dedicated preset buttons, the front panel Control knob, or ◀ or ▶ on the remote control, to select a different preset. Press **OK** to confirm that you want to store the station at this preset location. The display shows, for example:

```
Preset 42
Preset stored
```

If you select a preset that is already used, the previously stored station is replaced.

Selecting a preset

To select a stored preset:

- Press one of the dedicated front panel preset buttons briefly (for presets 1 to 7). Press and hold to access the higher numbers (for presets 8 to 14).
- Use the numeric keypad on the remote control to enter the preset number.
- Press **PRESET** on the front panel (or **P/TUNE** on the remote) and use the control knob (or ◀ and ▶ on the remote control) to select a used preset from 1 to 100.
- Press ▼ or ▲ to select a used preset from 1 to 100.

```
Preset 05
FM 98.50MHz
```

Press OK on the remote control or **OK** on the front panel within the time-out period to output the selected station.

iPod operation

If an **rDock** is connected to the T32, it automatically enables 'iPod mode'.

To use an **rLead**, you must set this mode explicitly. Press **MENU** (or MENU on the remote) and navigate to 'External input' by pressing ▲ or ▼ on the front panel and use the Control knob (or ▶ on the remote), to select:

```
External input
iPod mode Enabled
```

Select the iPod as a source by pressing ▲ or ▼ on the front panel (or MODE on the remote control) until 'iPod' is shown on top line of the display:

```
iPod
Initialising...
```

If the **rDock** or **rLead** does not have an iPod attached at this point, you are reminded that one needs to be connected (or reconnected):

```
iPod
Connect iPod
```

Navigation

With an iPod connected, the screen changes to:

```
Music
Make Selection
```

Navigate through the different ways of selecting tracks on your iPod (the actual categories will depend on your iPod model) by pressing ▼ and ▲ on the remote, confirming your selection with OK.

```
Playlists
Artists
Albums
Songs
Podcasts
Genres
Composers
Audiobooks
```

For example, if you start your track selection from 'Artists', you can cycle through the list of Artists using ▼ or ▲ on the remote, selecting one with OK.

Choose an 'Album' from that Artist using ▼ or ▲ on the remote (if there is more than one Album), selecting one with OK.

In the same way, choose a 'Song' (i.e. track) from that Album using ▼ or ▲ on the remote (if there is more than one Song), selecting one with OK.

```
Artist 1
Artist 2
Artist 3
  Album 1
  Album 2
  Album 3
    Song 1
    Song 2
```

To change a Song being played, press OK and use the same method to navigate back to a new Song, Album or Artist.

Shuffle and Repeat modes

You can apply 'Shuffle' mode (for random playback of tracks) by pressing SHUFF on the remote.

Set 'Repeat mode' by pressing RPT on the remote.

Aux input

The analogue auxiliary input on T32 is intended primarily for use with Arcam's rDock and rLead accessories.

If you are not using the auxiliary input for iPod connectivity, you may use the **AUX IN** socket as a standard analogue line level input.

To do this, press MENU and navigate to 'External input' and use the Control knob (▼ or ▲ on the remote), to select:

```
External input
Input labelled AUX
```

English

remote control

The CR90 Universal remote controller

The CR90 is a sophisticated 'universal' remote control that can control up to eight devices. It's pre-programmed for use with the T32 and many other Arcam products (amplifers, CD-players and DVD-players).

With its extensive built-in library of codes, it can also be used with thousands of other audio-visual components – TVs, satellite and set-top boxes, PVRs and third-party CD players. See the final section of the CR90 Handbook for a list of these.

The CR90 is a 'learning' remote, so you can teach it almost any function from an old single-device remote. You can also program the CR90 to issue a sequence of commands ('macros') from a single button press – see the CR90 Handbook for details.

Source keys

As the CR90 can control your T32 as well as a range of other equipment, many of the buttons have more than one function depending on the 'device mode' or 'page' selected.

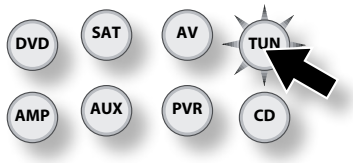
The device selection keys: **DVD**, **SAT**, **AV** (TV), **TUN**, **AMP** and **AUX**, both select the source and configure the CR90 to control the particular source.

In other words, the buttons are often 'context sensitive' so you'll have to tell it what sort of device you wish to control (press the **AV** button for a video display, for example) before you can control it.

Select the source key first

Remember to select a source key ***before*** pressing command buttons – commands vary depending on the source selected!

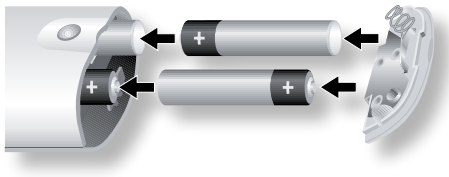
To control the T32 tuner, press **TUN**.



DVD	DVD player
SAT	Satellite set-top box
AV	Audio-visual sound input (use with TV)
TUN	DAB, FM or AM tuner, such as the T32
AMP	Controls the features of a compatible amplifier, such as Arcam's A38
AUX	Auxiliary input, or an iPod via an rDock or rLead
PVR	Personal Video Recorder
CD	Compact Disc player

Inserting batteries into the remote control

1. Open the battery compartment by pressing the button on the back of the handset.



2. Insert four 'AAA' batteries into the battery compartment – one pair facing the top of the unit, and one pair facing the end, as in the diagram.
3. Lower the end cap onto the plastic locating plate in the handset. This acts as a hinge, and you can now push the end cap firmly into its locked position with a click.

Remote commands

Button	Function	RC-5 code (decimal)
	Toggles between standby (low power) and power on mode	17–12
0 to 9	The numeric keys allow direct access to station presets 1 to 7. For tracks greater than 9, enter the digits in sequence. For example, to play track 14, press 1, then press 4.	17–0 … 17–9
SHUFF	Cycle through iPod shuffle (i.e. random playback) modes	17–64
SHIFT	Shift	
PHONO	Select **PHONO** input on a compatible amplifer	16–1
RPT	Cycle through iPod repeat modes	17–29
DVD	Select **DVD** input on a compatible amplifier	16–4
SAT	Select **SAT** input on a compatible amplifier	16–0
AV	Select **AV** input on a compatible amplifier	16–3
TUN	Select Tuner	
AMP	Select Amplifier	
AUX	Select **AUX** input on a compatible amplifier	16–8
PVR	Select **PVR** input on a compatible amplifier	16–6
CD	Select **CD** input on a compatible amplifier	16–17
	Navigation cursor Up **SHIFT** + : Exit standby mode and power on the unit	17–86 17–123
	Navigation cursor Left	17–78
OK	Confirm a selection	17–87
	Navigation cursor Right	17–77
	Navigation cursor Down **SHIFT** + : Power off the unit and enter standby mode	17–85 17–124
MODE	**BAND** – Cycles through tuner sources (i.e. AM/FM/DAB/SAT and iPod/AUX input)	17–77
MENU	Enter/Exit system menu	17–125
	Mute on/Mute off function for a compatible amplifier.	16–13

Button	Function	RC-5 code (decimal)
DISP	Cycle through Bright-Off-Dim settings of the front panel display	17–18
	Decreases volume of a compatible amplifier	16–17
	Increases volume of a compatible amplifier	16–16
	Preset down/Sirius category down/iPod track back	17–33
	Preset up/Sirius category up/iPod track forward	17–32
	Rewind iPod	17–50
	Play/Pause iPod	17–53
	Pause/Play iPod	17–48
	Fast forward iPod	17–52
	Stop iPod	17–54
SETUP	**FM/MONO** – Toggle FM mode between mono and stereo reception	17–38
TITLE	**P/TUNE** – Enter/Exit Preset recall mode	17–37
AUDIO	**STORE** – Enter/Exit Preset store mode	17–41
SUBT	**INFO** – Cycle through different information display modes	17–15

IR commands

The RC-5 codes are useful if you wish to programme another remote handset or programmable controller to control the T32.

specifications

FM section	
Tuning range	87.5 to 108.0MHz
Frequency steps	50kHz
Sensitivity (IHF)	typically 4µV
Signal to noise ratio	65dB at full modulation, 1kHz
THD+n	0.3% at full modulation, 1kHz
AM section	
Tuning range	530 to 1710 kHz; 10kHz step 531 to 1602 kHz; 9kHz step
Usable sensitivity	typically 20µV
IF rejection	> 32dB
S/N ratio (30% mod., 50mV input)	> 42dB
Total harmonic distortion (30% mod., 50mV input)	< 1.5%
Output level	270mV at 30% modulation
DAB section (where fitted)	
Tuning range:	174–240MHz (Band III) 1452–1492MHz (L band)
Sensitivity (VHF measurement to EN50248)	better than -91dBm, typically -97dBm
Audio data rate (maximum)	224kbits/s at MPEG protection level 3
Sirius section (where fitted)	
Specifications are determined by SiriusConnect module	
Control inputs	
IR remote standard	Philips RC-5, 36kHz carrier
IR in signal level	4–15V pk-pk

General	
Supply voltage	110–120V or 220–240V, set by rear panel voltage selector switch
Power consumption	15W maximum; standby power 1W
Presets	100 presets, with14 presets accessible from front panel preset buttons
Size	W430 x D290 x H85mm
Weight	nett: 5.3kg/packed: 6.8kg
Supplied accessories	FM dipole aerial DAB dipole aerial (DAB version only) AM loop aerial mains lead CR90 remote control handset 4 x AAA batteries
E&OE	
NOTE: All specification values are typical unless otherwise stated	

Continual improvement policy

Arcam has a policy of continual improvement for its products. This means that designs and specifications are subject to change without notice.

product guarantee

Worldwide Guarantee

This entitles you to have the unit repaired free of charge, during the first two years after purchase, at any authorised Arcam distributor provided that it was originally purchased from an authorised Arcam dealer or distributor. The manufacturer can take no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorized adjustment and/or repair, neither can they accept responsibility for damage or loss occurring during transit to or from the person claiming under the guarantee.

The warranty covers:

Parts and labour costs for two years from the purchase date. After two years you must pay for both parts and labour costs. **The warranty does not cover transportation costs at any time.**

Claims under guarantee

This equipment should be packed in the original packing and returned to the dealer from whom it was purchased, or failing this, directly to the Arcam distributor in the country of residence.

It should be sent carriage prepaid by a reputable carrier – **not** by post. No responsibility can be accepted for the unit whilst in transit to the dealer or distributor and customers are therefore advised to insure the unit against loss or damage whilst in transit.

For further details contact Arcam at:

Arcam Customer Support Department,
Pembroke Avenue, Waterbeach, CAMBRIDGE, CB25 9QR, England

or via *www.arcam.co.uk*.

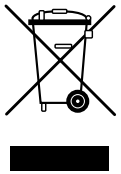
Problems?

If your Arcam dealer is unable to answer any query regarding this or any other Arcam product please contact Arcam Customer Support at the above address and we will do our best to help you.

On-line registration

You can register your product on-line at *www.arcam.co.uk*.

Correct disposal of this product



This marking indicates that this product should not be disposed with other household waste throughout the EU.

To prevent possible harm to the environment or human health from uncontrolled waste disposal and to conserve material resources, this product should be recycled responsibly.

To dispose of your product, please use your local return and collection systems or contact the retailer where the product was purchased.

ARCAM

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