English user manual

Re:source

Multiroom
Module 03

E 2.04

REVOX

Dominating Entertainment.
Revox of Switzerland.

Multiroom Module

Revox has been developing and manufacturing Multiroom components for some 20 years now. The concept of centrally located audio equipment that can also be used independently of the additional rooms, has reached its furthest state of development to date, with the Multiroom module MK3.

Features

Using the Multiroom module, you can access the current M51/ M10 source from up to 32 additional rooms such as the kitchen, bathroom or family room. These 32 rooms can be zoned together in groups of 8 rooms and each zone can select a joint source, which can then be controlled through a local room amplifier. As well as the manual operation of the system, the **Timer function** is of particular interest. Wake up to the strains of your choice of CD and be tuned automatically to your favourite radio station, to accompany your cereals and fruit juice.

The timer is very simple and effective to operate, which ensures that the Timer function is not just "nice to have" but will very soon become an indispensable part of your audio world.

A further special feature of the Revox Multiroom system that deserves a mention here is the *balanced* audio cabling. This complex method of signal processing which comes from professional studio technology guarantees a perfect music signal, even over long distances. The M51/ M10 also uses this luxury for the internal cabling.

Installation

The Multiroom plug-in card is equipped with the latest in electronics and should be handled with care.

Before you install the card, the M51/ M10 must be switched off and separated from the power supply, by plugging the unit out.

M51 Installation

Slot 5 is reserved for the Multiroom module, the fifth slot from the right viewed from the back of the unit.

M10 Installation

Slot 5 is reserved for the Multiroom module, the fifth slot from the right viewed from the back of the unit.
Slots A1 and A2 may only be populated with second generation modules whose hardware has been developed since 2008. These can be identified by the following symbol on the back wall of the module: G²

Loosen the two screws with a TORX screwdriver (T10) and remove the blanking plate. A suitable TORX screwdriver is supplied with the Re:system M51 and M10.

Before removing the Multiroom module from its packaging, you should make sure that you do not have any static electricity. This could cause a damaging discharge of voltage when you touch the module. You should get rid of any static charge by touching an earthed metal object like a radiator, for example.

Remove the Multiroom module from its packaging and feed it into its plug-in position. The two bars inside the M51/ M10 are the mechanical guides for you to use.

The lettering on the Multiroom plug-in card must be on top. Shortly before the plug-in card is fully locked into position in its slot, you will feel a mechanical resistance, caused by the contact strip. Push the Multiroom module in by applying pressure in the area of the two screw holes and fix the card in place with both screws.

All further steps for the internal registering of the new module are carried out automatically the next time it is switched on.

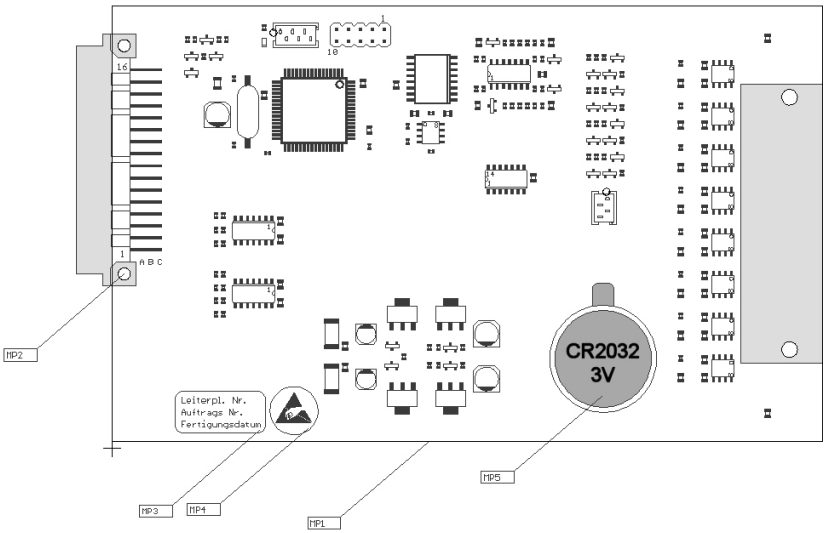
Changing the battery

The Multiroom module contains a lithium battery (see graphic: MP5), which ensures that the time isn't lost during a power-failure or while the unit is being transported. The lithium battery is not used in standby or normal operation. The battery only provides power for the Timer IC when the M51 is separated from the power or when it is switched off at the power switch. All batteries discharge somewhat on their own, without any load being connected to the battery.
If after some years of operation, you notice that the correct time is not displayed after a power outage, this indicates that is time to change the lithium battery.

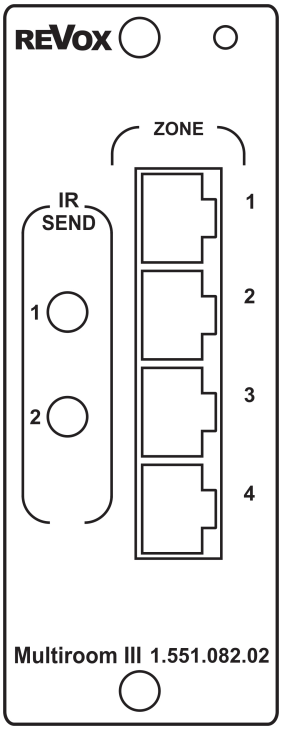
You need a **CR2032 3 V** lithium battery as the replacement.

You can purchase one of these batteries direct from Revox, with the part number 98.01.2203 or from a specialist electrical shop.

The Multiroom module is removed from the M51 to change the battery. The steps you have to carry out and the precautions you have to take are explained in the previous Chapter *Installation*, on Page 3.



Connections



ZONE

There are 4 connections with RJ45 connectors for the four zones, on the rear of the Multiroom module. Depending on the scope of the Multiroom installation, up to 8 Revox Additional room amplifiers can be connected to a zone.
Connection is made using an **uncrossed, double-screened CAT7 patch cable, with am RJ45 plug.**

Further information's regarding the cabling of the multiroom-system can be found on last pages of this manual.

IR SEND

Using the IR Send socket, you can control the basic functions of third-party devices, such as video recorders, from all the Additional rooms.
However, you can only control devices that Revox has listed in IR Link Menu / **Code**.

You will find further information from Page 29.

The Multiroom principle

The basis of the Multiroom principle was the idea of having a central audio system which could be accessed from all other rooms in the house.

Since the Multiroom module can handle up to 32 different rooms, it's clear that there isn't room for all 32 amplifiers in the M51/M10.

So for this reason, each connected room has its own amplifier with its own speakers attached. You can select from the whole range of Revox speakers to fit your requirements.

There are two ways of playing music in another room.

The first way is that you control what you want to hear from the room in question. For this, you need either a remote control or a wall-mounted controller. Here, you control the source and volume, you can select the radio program you want or your favourite track.

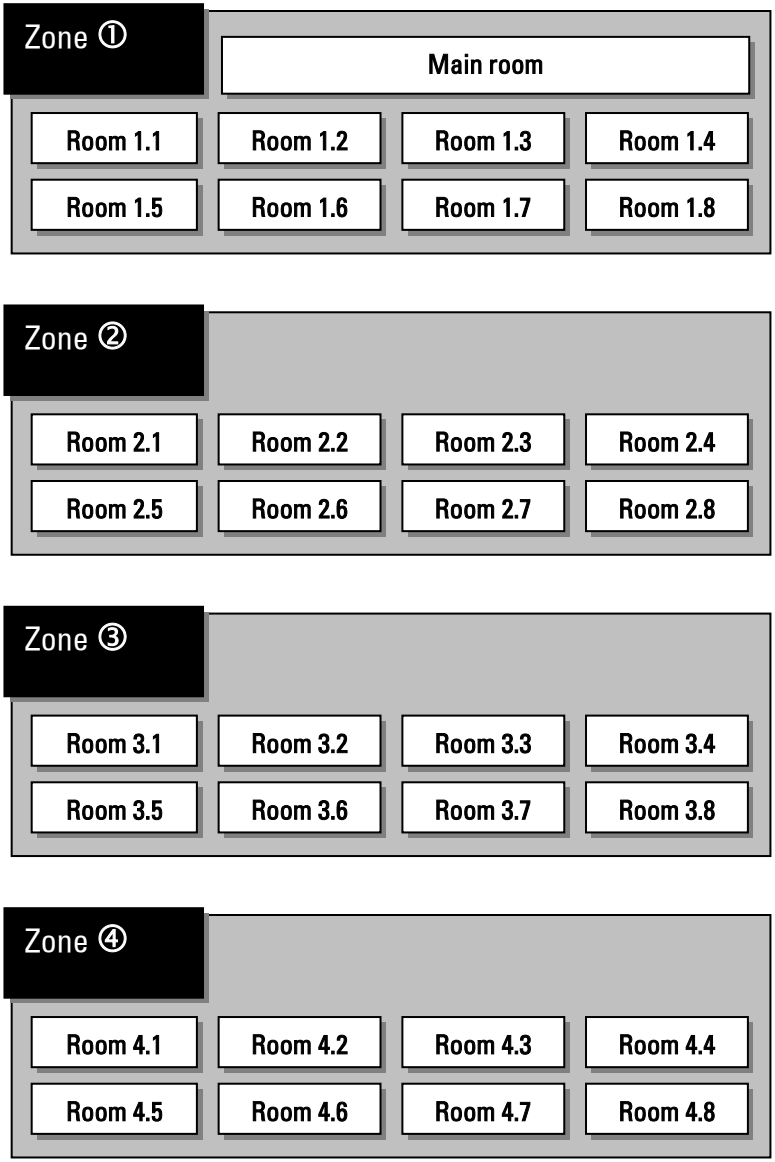
The second option is to use the automatic on/off switching offered by the M51 timer.

As soon as you switch an additional room on or it is activated by a timer, the following graphic appears in the M51 display, assuming the M51 is in standby mode at the time.

To give you a better overview of the Revox Multiroom system, the next section, **Multiroom plan** shows how the individual rooms belong to the zones.

The following section, **Multiroom golden rules** tells you more about the way the individual zones and rooms work together.

Multiroom-Plan



Multiroom golden rules

To give you a better idea of what a Multiroom system can offer, here is a list of the 7 golden rules of Multiroom.

- **Different zones can, but don't have to, select different sources**

  Example:
  While a CD is playing in Z*one ① the radio* ***or*** *perhaps the CD can be heard in Zone ②.*

- **You can only select one joint source per zone**

  Example:
  In the rooms in Zone ① you can only hear either the radio or the CD.

- **Zone ① and the M51 are using the same source**

  Example:
  At the M51 the radio is set as the source, the same source is defined for the rooms in *Zone ① or vice-versa.*

- **All rooms within a zone have the same rights when it comes to choosing a source**

  Example:
  Room 2.2 selects the tuner (as the joint source for Zone ②). After that, however, Room 2.4 selects the CD. The CD will now also be played in Room 2.2.

- **Any change within a source has an effect on the whole zone** (Without using a Slave-Tuner)

  Example:
  Room 2.2 selects radio station A. After that however, Room 2.4 selects radio station B. Station B will now be heard in Room 2

- **There are no rules as to which rooms have to go in which zone. Each zone however, can have a maximum of 8 rooms.**

  Example of a room assignment:
  Zone ①:Rooms 3,4
  Zone ②:Rooms 5,6,7,8
  Zone ③:No rooms assigned
  Zone ④:Rooms 13,16

- ***All*** **the amplifiers in the additional rooms are switched off if you press and hold the Power button on the M51 for long enough.**

- **The whole system can be switched off from any additional room if the amplifier off switch is pressed and held for a while.**

ⓘ
As Zone ① and the M51 are sharing a common audio source, it makes sense to assign rooms near to the main room where the M51 is to ①.
In this way, you can walk from the main room to one of its neighbouring rooms without having to reset the audio source.

With the remaining rooms, it is recommended that they are spread evenly over the Zones ② + ③ + ④. This gives you the maximum flexibility when making your choice of audio source in the individual rooms.

Timer menu

The Timer is the central controller of the Multiroom system. You can use it to wake you on certain days while on others, you can use it to send you off to dreamland, with its sleep function.

The Multiroom menu Timer is activated using the **Setup** button on the front of the M51.

The first time you activate it, the following display appears:

ⓘ
The five large buttons on the front of the M51 are shown as

Setup **Source** **Amplifier** **Power** **Disc**

in the following chapters.

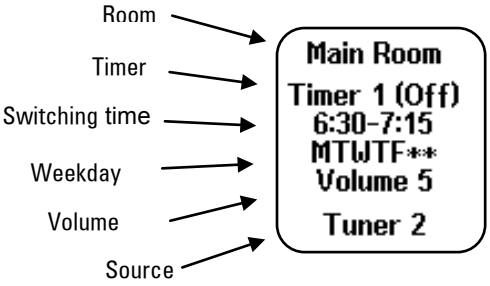
Timer programming

The concept behind timer programming is as follows:

Firstly you select the room that should be controlled by the timer. Then you assign the corresponding properties to one of the four possible timers.

With the maximum number of 32 additional rooms plus the main room, up to 132 timers are available.

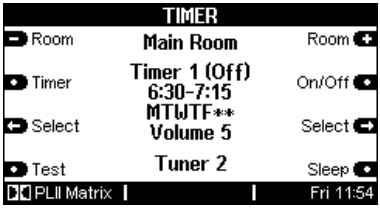
The following graphic shows the inner Timer display field with the corresponding assignments.



Room selection

As the first step, you select the room that is to be controlled by the four possible timers.

You select the required room with the **- Room +** softkeys.
Only those rooms that are actually connected to the M51 are shown.



The selectable rooms are shown in an endless loop, as shown below:

Main Room
Room 1.1
Room 1.2
:
:
Room 4.7
Room 4.8

Room selection

If rooms have been given own names, like in the example the name *Dinner*, this of course also appears in the Timer selection menu.

ⓘ
To give each additional room a unique and a descriptive name makes the setup and the daily operation of the timers much easier.

Timer selection

Once you have selected the room, you then assign a timer to the room.

In the above display, **Timer 1** has been selected. You can select the individual timers with the **Timer** softkey and there are in total, 4 independent timers for each room available. When you reach **timer 4**, pressing the softkey again brings you back to **Timer 1**.

Timer 1
Timer 2
Timer 3
Timer 4

Select

Using the two softkeys ← **Select**→, you can define the properties of the individual timers.

The selection of **Switching times**, **Weekday**, **Volume** and **Source** is achieved using the two softkeys ← **Select**→
You can move in any direction, moving backwards or forwards as you want.

Switch on time [Hours]
Switch on time [Minutes]
Switch off time [Hours]
Switch off time [Minutes]
Weekday [...]
Volume [...]
(Tuner station) [...]

This type of selection option appears in the display between two square brackets **[...]**.

The manual highlights this additionally in the individual sections, with the following symbol:
[ ]

Switching time setting

When an **Timer** is selected, the ← **Select** → softkeys are used to set the switching times.

The first time you press the **Select**→ key, the first number pair appears in square brackets.
[ ]

As soon as the Switch on or Switch off time is changed, the Timer activates itself automatically. This is shown in the display by a change from **(Off)** to **(On)**.

You can use the ← **Select**→ softkeys to change between the various input fields in any direction.

Switching time setting

First you define the **Switch on time** and then the **Switch off time**. As shown below, in each case you enter the hours value followed by the minutes value.

Switch-on Switch-off
| |
Hours Minutes |
| | |
[6]:[30] – [7]:[15]

Tips !
If you choose a timepoint for the Switch off time which is smaller than the Switch on time, e.g. **20:15 – 08:30** the Timer will switch on at 8:15 pm in the evening and off at 8:30 am the following morning.

Weekday selection

Once you have defined the on and off times, you get to the next input field, the Weekday when the Timer should be activated by pressing the **Select➔** softkey again.
[ ]

Using the rotary control knob, you can set to the required weekday.

As well as the individual days from Monday to Sunday, there are certain day groups you can choose from.

The individual week days are represented by the following letters:

M → **M**onday
T → **T**uesday
W → **W**ednesday
T → **T**hursday
F → **F**riday
S → **S**aturday
S → **S**unday

Weekday selection

The selection is made from a continuous loop which you can mode through with the rotary control knob. The individual selections which you can make are shown here:

M
T
W
T
F
S
S
SS
MTWTF
MTWTFS
MTWTFSS

You can use the day groups **SS**, **MTWTF**, **MTWTFS** and **MTWTFSS** to set the timer on several days of the week, without having to set it individual each day.

This is particularly useful if you want to use the Timer as a wake-up call.

The groupings are:

SS
→ only Saturday & Sunday

MTWTF
→ from Monday to Friday

MTWTFS
→ from Monday to Saturday

MTWTFSS
→ daily, Monday to Sunday

Example:
*You can use the group **MTWTF** to wake you on weekdays, but at the weekend, it will leave you to sleep.*

Volume setting

Once the weekday has been selected, the next time you carry out **Select➔**, you can select the volume to be used. **[ ]**

Using the rotary control knob, you set the volume level from **1**, very low, to **9**, very loud, in an endless loop.

Volume 1
Volume 2
:
:
:
Volume 8
Volume 9

ⓘ
Volume control can be carried out through the **Test** function. Please refer to the Chapter: **Test function**

Select Timer source

Using the Multiroom module timer, you can select one of three sources to be activated, namely **Tuner**, **DVD/CD** and **Aux/Server**. **[⬍]**

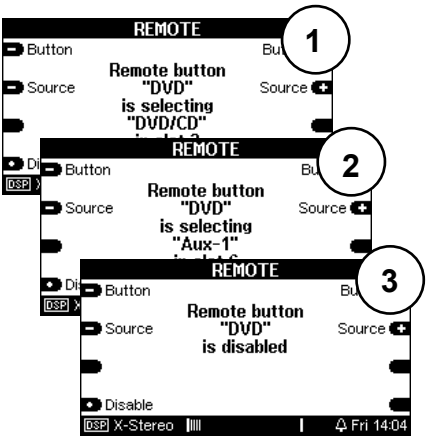
Please note

When you are selecting the source, you must remember that the actual source that will be selected is that which is assigned to the Tuner, DVD/CD and Aux/Server through the **Remote** menu.

If instead of **DVD** (Fig. ①), **Aux-1** (Fig. ②) is assigned to the DVD button, the Timer will switch **Aux-1** on.

In this way, this function can be used to call-up particular external sources through the Timer function.

You must ensure that the external source (e.g. AUX1) is also active when the Timer calls it.



The third option in the **Remote** menu is the deactivation of a source (Fig. ③). In this case, the Timer *wouldn't call any source* at the requested timepoint, even though a source is defined in the **Timer** menu.

ⓘ
You can find further information on this topic in the **Introduction** chapter in the M51 manual under the heading **REMOTE**.

Select tuner station

If you have selected **Tuner** as your source, you will now be able to select the station you want if you press **Select➔** once more.
If on the other hand you have selected **DVD/CD** or **Aux/Server** as your source, you will return to the **Switching times** menu. **[ ]**

Through this field, you can select which radio station should be broadcast by the timer when activated. In this case, you can choose from a maximum of 50 favourite stations.

If a station is selected, which has a number that is actually higher than the current number of stations available, station **1** will automatically be broadcast.

Example:
*25 tuner stations have been programmed but the number 30 is chosen through the Select menu. Station number **1** will actually be broadcast.*

Test function

The **Test** function allows you to carry out an effective check of the Timer settings. In particular with room selection and volume, you can check whether the right room is activated and that the right volume level has been set.

Once you have entered all the Timer settings, press the **Test** softkey.

Immediately, the selected room/additional room is activated. Now you can go to the room in question and check, for example, whether the volume for your morning radio wake-up call is set to an acceptable level. If necessary, you can adjust it and then carry out the test again.

Using the **Off** command on your remote control of the wall-mounted controller, you can switch the additional room off again. All additional rooms can also be switched off together by pressing and holding the **Power** button for a few seconds

Activating the timer

As standard, the individual timers are deactivated.

Each **Timer** can be activated or deactivated separately.

To activate or deactivate an **Timer**, select the required timer and then using the **On/Off** softkey, activate it or deactivate it accordingly. The state of the Timer is shown as below:

Additionally, when you leave the activated timer a bell symbol right down in the display of the M51 is shown. This indicates that at least one of the four main room timers is activated.

Important
Active timers that affect the additional rooms are **not displayed** with the bell symbol

Special Events

Using the Timer programming, you can also generate nested Events. By a nested timer, we mean the situation where two different timer address the same source and the same room at the same time.

In our example, **Timer 1** and **Timer 2** overlap. Since they both address the same source and the same room, **Timer 1** defines the Switch on timepoint (first On trigger) while **Timer 2** defines the switch off timepoint (first Off trigger).

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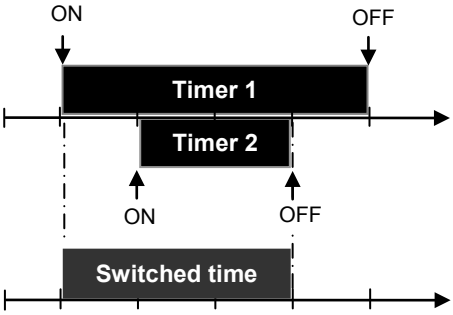
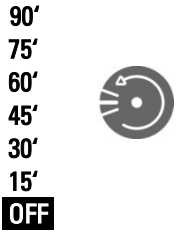


ⓘ
With a nested timer, the timer which starts and respectively ends earlier defines the on and off timepoints.

Sleep function

Using the **Sleep** function, you can set a particular length of time, after which the M51 will automatically switch off.

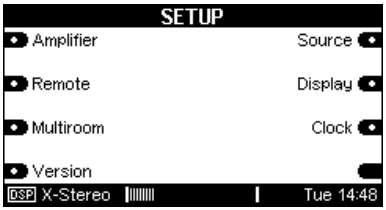
By pressing the **Sleep** key repeatedly, you can set the required time interval in 15 minute steps. The continuous loop starts with 90 minutes and ends with the switching off of the **Sleep** function.



The currently **Sleep** time is shown in the bottom line of the display, on the right-hand side.

Setting the time

The time must be set accurately for the Timer function to work correctly.
This is set through the **Setup** menu. Press the **Setup** button on the front of the M51 for approx. 2 seconds, until the following display appears:



Then press the **Clock** softkey to get to the **SET CLOCK** menu, as shown on the next page.

Here, using the **- Hour +**, **- Minutes +** and **- Day +** softkeys, you can set the time and the current weekday.
Using the Softkey **Seconds** you can reset second counter to :00.

The current time and weekday are shown on the bottom line of the display, on the right-hand side.

Through the **12h/24H** softkey, the Multiroom module also offers you the choice between the 24 hour or 12 hour clock format.

European	English
00:00-12:59 h	00a00-11a59 h
13:00-23:59 h	12p00-11p59 h

ⓘ
a = AM (morning)
p = PM (afternoon)

Setting the time in the side room

The time can also be set from a side room, assuming that an M217 Wall-mounted display is being used.

Switch the side room off and press and hold the two highlighted keys for approx. 2 seconds. The display now changes to the **Set Clock** mode. Here, you can set the time and the weekday using the 4 keys on the M217 display. The **Exit** key returns you to the normal operating state.

ⓘ Display contrast setting
If you only press one of the highlighted display buttons, you modify the display contrast setting.

Time not correctly set?

The multiroom module contains a lithium battery (CR 2032), which ensures that the time isn't lost during a power-failure or while the unit is being transported. The lithium battery is not used in standby or normal operation. The battery only provides power for the timer IC when the M10/ M51 is separated from the power or when it is switched off at the power switch. All batteries discharge somewhat on their own, without any load being connected to the battery.

If after some years of operation, you notice that the correct time is not displayed after a power outage, this indicates that is time to change the lithium battery.

In this case, contact your Revox dealer or the Revox Company direct.

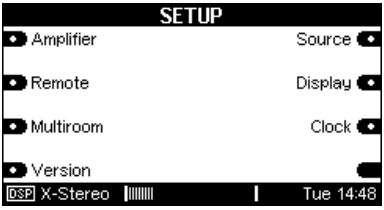
Caution: Lithium batteries

- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Take note of the disposal hints within the chapters *Remote control* and *Appendix*

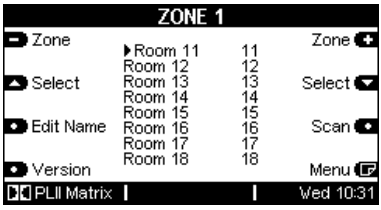
Multiroom setup

The Multiroom setup offers you a wealth of information about the available and/or active additional rooms, for example, the software version of the multiroom products that are connected. In addition, you can assign names to the additional rooms, which make the system even simpler to use.

The **Multiroom** function is called through the Setup menu, by pressing and holding the **Setup** button for a couple of seconds, the following display appears:



Press the **Multiroom** softkey to call the Multiroom menu and the following display appears:



Select zone

Using the two softkeys Zone and Zone, you can select the zone that contains the room(s) you want to modify or check. You can scroll forwards through zones 1-4 with Zone and backwards with Zone.

Select room

Using the two softkeys Select and Select you can choose the room where you want to make the modification.
Using Select, you can move down the list and with Select, you can move up the list.

Edit room name

The Multiroom module MKII allows you to give freely definable names to the additional rooms. You no longer have to remember which room number the kitchen has, for example. You can give it a corresponding name.

Using the softkeys **Zone** and **Select**, select the room whose name is to be edited.
The softkey **Edit Name** then brings you to the edit function, which is described in the next chapter.

Edit function

When you press the softkey **Edit Name**, you will move to the following menu:

The following functions are available to you for editing room names:

The softkey ← **Cursor** moves the [ ]-cursor to the left.

The softkey **Cursor**→ moves the [ ]-cursor to the right

The softkey **Delete** deletes a single character at the position where the [ ]-cursor is currently located.

The softkey **Insert**, inserts a character to the left of the [ ]-cursor.

The softkey **Store**, saves the currently displays name and takes you back to the Tuner menu.

The softkey **Cancel** takes you back to the Source main menu without saving any changes made.

Please note

In the following chapters, whenever a setting can be made using the rotary knob, the range to be modified is shown in the display in two square brackets **[...]**. At the same time, the small red **Jog** light, to the right of the M51 rotary knob, lights up.

The following symbol in the manual draws your attention to this feature **[ ]**

Edit characters [ ]

The actual editing and modification of the individual characters (letters and numbers) is done using the rotary knob. By turning the knob you scroll through first the alphabet in upper case, then in lower case followed finally by the numeric digits from 0 to 9. You can scroll backwards as well as forwards.

Character sequence:

... _ A B ...
... X Y Z ...

... a b c ...
... x y z ...

... 0 1 2 ...

... 9 - . ...

Once you have entered the required characters to make up the desired name, you can store your input with the softkey **Store**.

If you want to break off the action, press the softkey **Cancel**.

Example
*In the following example, the name **Room 26** was replaced with **Dinner**.*

Restore standard name

If you want to return the name of an additional room to its factory setting, select the room in question with the softkeys **Zone** and **Select**.

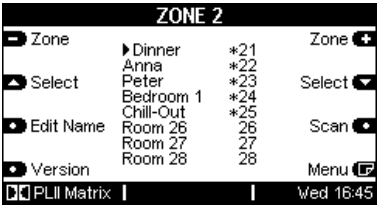
Now press the softkey **Edit Name**, to get to the editing menu.

The standard name is restored, by deleting the name entered manually using the softkey **Delete**, as shown below:

When you now press the softkey **Store**, the factory setting is restored. In our example, this would be **Room 26**.

Scan function

This function carries out a query of all the rooms in a zone, which recognises how many rooms are actually connected. If an additional room has logged on and is therefore physically available, this is shown by a star *.



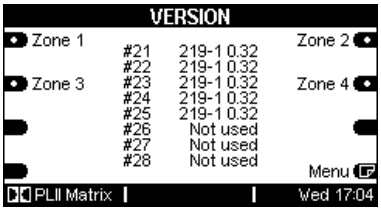
This function is primarily designed for use during the installation and checking of additional rooms. It is not a function that is generally needed in day-to-day operation.

You can carry out this function, for example, after new components have been installed or if you need to check on settings after the initial installation.

It can take a few seconds after you activate the Scan function, before the information is displayed.

Version control

Version control gives the installer the option of querying the software state of the individual Multiroom components. This can be an M219 Additional room amplifier as well as an M217 wall display.



Both the **Version control** and the **Scan** functions give the installer reliable information about the scope and the status of the installed additional rooms.

ⓘ
You will find more detailed information on the topic of Version control in the Operating manual in the chapter *Introduction/Software version.*

Hotel mode

The Hotel mode allows you to customise the additional room switch-off function.

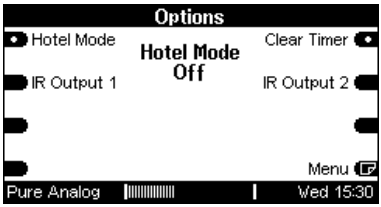
Function review:
The **Off** key in the additional room triggers the following functions:

Short press
Switch off additional room

2-second press
Switch off the corresponding zone

5-second press
Switch off complete system

The function is called through the **Setup** / **Multiroom menu**. By pressing the **Menu** softkey, you get to the second page, where if you press the **Menu** softkey, the following display appears:



Repeated pressing of the **Hotel Mode** softkey toggles the function on and off.

If the M10/ M51 is installed in a hotel or a public building, it is usually **not desired** that someone listening in an additional room can switch the complete system off. Hotel mode offers you the option of limiting the switch off function to the additional room and its zone.

*If the Hotel mode is **activated**, switching off the complete system is no longer possible.*

The Hotel mode has no effect on the off switch on the M51/ M10 itself. As before, the complete system can be switched off by pressing the switch for a longer time.

Clear all timers

Using the **Clear Timer** function, you can delete all timers at the same time and return them to their factory settings. This is particularly useful after competing installation, if the different timers have been setup for test purposes.

The function is called through the **Option** menu in the **Multiroom**- **Setup**.

Press and hold the **Clear Timer** softkey for about 5 seconds until you return to the Multiroom menu.

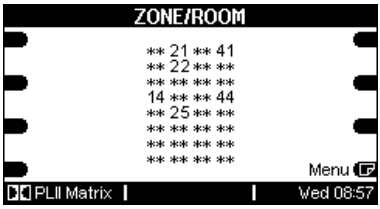
Now, all the maximum 132 timers have been cleared and returned to their factory settings.

Active rooms

The Multiroom module offers you the option of showing all active rooms in the display. This gives you a quick overview of which rooms are in which zone.

This setting is particularly helpful during installation. But also on a regular basis, it is often useful to have a quick overview of the setup.
This function is called through the Multiroom menu, by pressing the Softkey **Menu**.

If several additional rooms are active, these are shown in the display with their corresponding zone. The four columns represent the four zones.



In the above example, the following rooms are active:
Zone ①: Room 4
Zone ②: Room 1 + 2 + 5
Zone ③: no active rooms
Zone ④: Room 1 + 4

IR Link

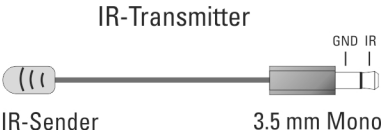
Using the Revox Multiroom System IR Link, you can control the basic functions of third-party devices, such as video recorders, from all the Additional rooms. However, you can only control devices that Revox has listed in IR Link Menu / **Code**.

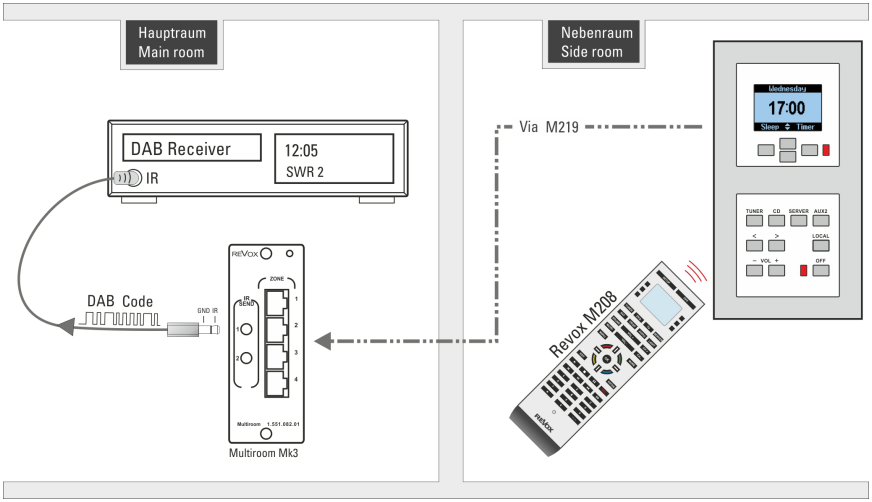
You use the M208remote control unit *IR Link* menu. This sends out an RC-5 code, which is then converted to the third-party device code in the Multiroom module. The signal is transmitted using an IR Transmitter (Revox recommendation; XANTECH Model 283M), which is installed on the IR eye of the third-party device.

The following commands are transmitted:

▶	Play
■	Stop
II	Pause
◀◀ ▶▶	Fast Forward & Rewind
⏮ ⏭	Track Forward & Rewind
0-9	10-key keypad incl.

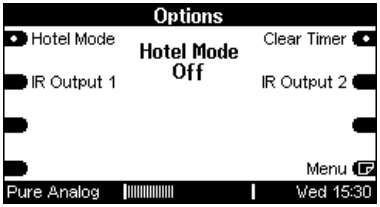
The ON/OFF command cannot be supported. These devices have to be switched on and off manually.





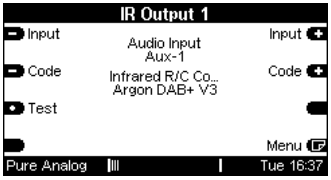
IR Output configuration

The IR Link is configured through the **Option** menu. You get to this in the **Setup / Multiroom menu.** You get to the second page by pressing the **Menu** softkey, where you will find the menu point **Option**.



Select the IR output
Select **IR Output 1** or **2** and set up the corresponding third-party device that you want to control through the **Code** softkeys.

In our example, this is an Argon DAB+ Adapter V3. Make sure that the IR Sender on the IR Transmitter is directly above the IR Eye on the third-party device, in this case the DAB Tuner.



Now in the second step, using the **Input** softkey, you select the source through which the third-party device is connected audio-technically with the M51/M10. Here, we recommend using Aux1 (M218 Keypad: Server) or Aux2 as these sources can be directly called at the press of a key, through the wall-mounted unit in the side room.

With the selection **Input**, you release the throughput for the IR signal, dependant on the audio source.
This means, that if the audio source (Input) **Aux2** is selected, the IR Link signal can only pass through the Multiroom module, if the **Aux2** source is also active in the side room. If another source is active or if the side room is switched off, the IR Link command is blocked.

ⓘ Important advice
The same signal is always available at the two outputs **IR Send 1** and **2** on the Multiroom module. Both codes will be sent however, depending on the selected configuration.
For this reason, it is not possible to control two identical devices, e.g. 2 x Argon DAB+ Tuners, because as well as Device 1, Device 2 would also react to the commands and vice-versa.

IR Link operation

With the Revox Multiroom System, the operation of the third-party devices, e.g. DAB Tuner, which are controlled through the IR Send output, is done exclusively through the M208 Remote control. For this purpose, load the corresponding device from the M208 Project Manager database (see figure, below right) onto the M208. In the *"Source Select"* field, select the remote control button that you want to link to the audio input in the Remote Menu (M51/M10).

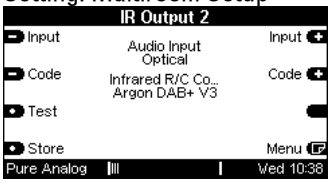
Example:
An Argon DAB+ Tuner is to be controlled through the **IR Send 2** output. Its audio output is to be connected over an optical TOS Link cable with the **Optical** input on the M51 5.1 Decoder module.

Explanation of the example:

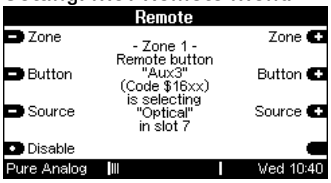
The DAB Menu is called through the TUNER button on the M208 Remote control (M208 Project Manager). At the same time, the *Optical* source is activated through the *Aux 3* remote button. Now, the Argon DAB Tuner can be switched on and controlled with the M208. The sound is supplied in the main room through the optical input, Optical.

ⓘ Note: The digital inputs from a 5.1 Decoder module can only be heard in the main room, not in a Multiroom System side room. Use the analogue inputs from an I/O (Tuner) module to supply sound to the side rooms.

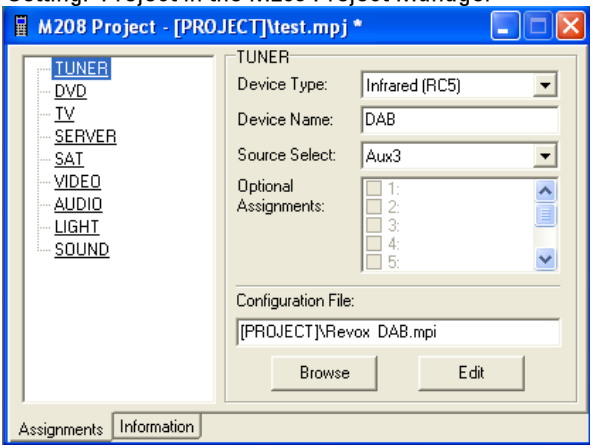
Setting: Multiroom Setup



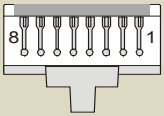
Setting: M51 Remote Menu



Setting: Project in the M208 Project Manager



Technical data

Zone 2	RJ45 screened	
RJ 45 plug assignment 	Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8	RX-Signal TX-Signal Audio Out L + Audio Out R + Audio Out R – Audio Out L – Ground Ground MR
Max. Cable length to the side room amplifier	100 m	
Cable type	Revox Multiroom cable or CAT-7 / 100Ω data cable ISO/IEC 11801	
Number of timers (max.) Number of zones Number of side rooms / Zone Max. number of side rooms	132 4 8 32 (without M217 Wall-mounted display) 16 (with one M217 Wall-mounted display per room)	

	Measurement data	Measuring conditions
Audio level	1 Volt at 50 Ω *balanced*	*-6db under Digital 0*

Battery type	1 x CR 2032 3V (Clock memory function)

Multiroom cabling

Multiroom cabling is done according to the international network standard **EIA/ TIA-568-B** using a **CAT 7** cable.

This EIA/TIA-568-B standard lays down the following pin-outs:

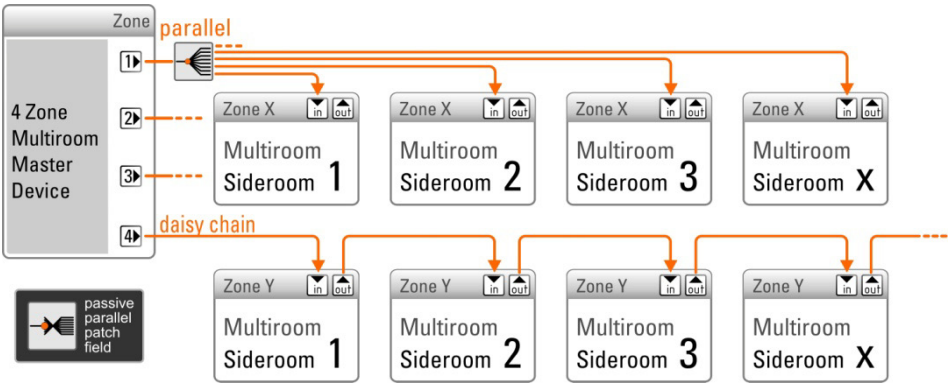
The CAT 7 cable has 4 twisted cable-pairs where each pair is screened. There is then a further overall screening around all the pairs.

Terminal	1	2	3	4	5	6	7	8
Colour code	White/Orange	Orange	White/Green	Blue	White/Blue	Green	White/Brown	Brown
MR signal	RX	TX	L+	R+	R-	L-	GND	MR GND

Cabling options

You can choose to do the cabling as a Daisy Chain or in parallel through a passive patch field.

Both cable options can be used alongside each other within one installation.



Guarantee

The guarantee period is 24 months from the date of purchase.

Your dealer should be your first contact if you need service. If he can't give you the help you need, send your Multiroom module prepaid and without any accessories to your national Sales Office.

Please supply a complete description of the problem and a full return postal address.

Environmental protection

Packaging

We recommend keeping the original box and packaging material so that if required, the device can be transported safely.

Module

Please note: The EU Directive 2002/96/EC governs the correct return, handling and recycling of used electronic devices. For this reason, electronic used devices must be disposed of separately. This device should not be disposed of with normal domestic waste. You can take your used device to recognised disposal points. You can get further information about the return of such devices from your local authority, also in non-EU countries.

Disposal of the batteries

The batteries supplied with the remote control do not contain any harmful substances such as cadmium, lead or mercury. Discharged batteries may not be disposed of with the normal household rubbish. You can dispose of old batteries free of charge at corresponding collection points found in many shops. You will also find a container for old batteries at your specialist dealer.

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MR-Module 03 Operating instructions / Part no.: 10.30.3057