AUDIONET

CAT

FM / AM - Stereo Tuner

User's Manual

Contents

1   Preface

The Audionet Team congratulates you on your purchase of this unit.

The CAT builds the bridge between the classic and the avant-garde. As an analog audio tuner, it receives the well-known broadcast program in highest quality.

The CAT plays analog programs sleekly as well as colourfully and convinces by high information density and interference insensitivity. The analog tuner unit decodes antenna and cable signals accurately and with high sensitivity. Further signal processing is done with Audionet's proven circuit technology. The frequency search of the CAT has switchable sensitivities. Station names and other radio data are also displayed.

The CAT makes radio a new experience. With hitherto unheard clearness, transparency and dynamic. Get on the air!

But before you start listening to your new Audionet CAT, please read this manual carefully so you are able to use and enjoy all functions of this unit without drawback on music quality.

1.1 Included

Included you will find the following items:

- the Audionet tuner CAT
- the user's manual (that you are currently reading)
- one standard mains cord

1.2 Transport

 Important

- Please transport the CAT only in the included package.
- Always use the plastic bag to prevent scratches on the casing.
- Please allow the CAT to adapt to the climatic conditions in your listening room before you switch on the unit for the first time after transport.

2   Overview front panel

AUDIONET

CAT
FM / AM – Stereo Tuner

up — **up** key

down — **down** key

Display

Remote control receiver

set — **set** key

power — **power** key
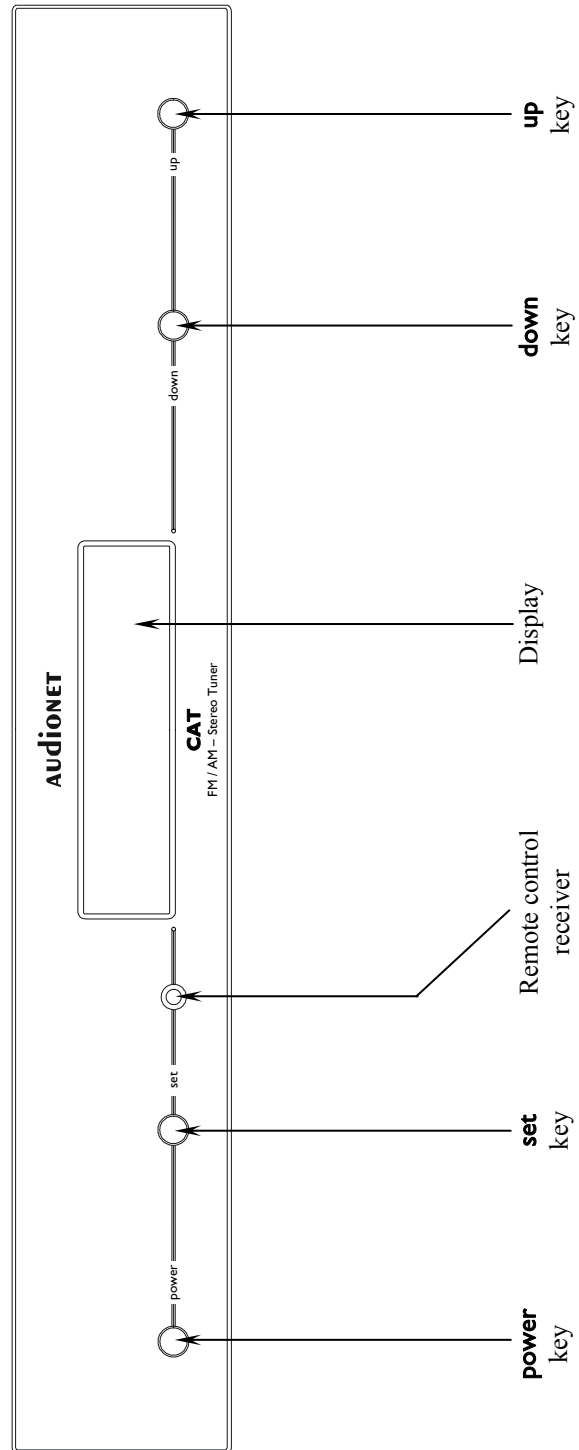
3 Overview back panel
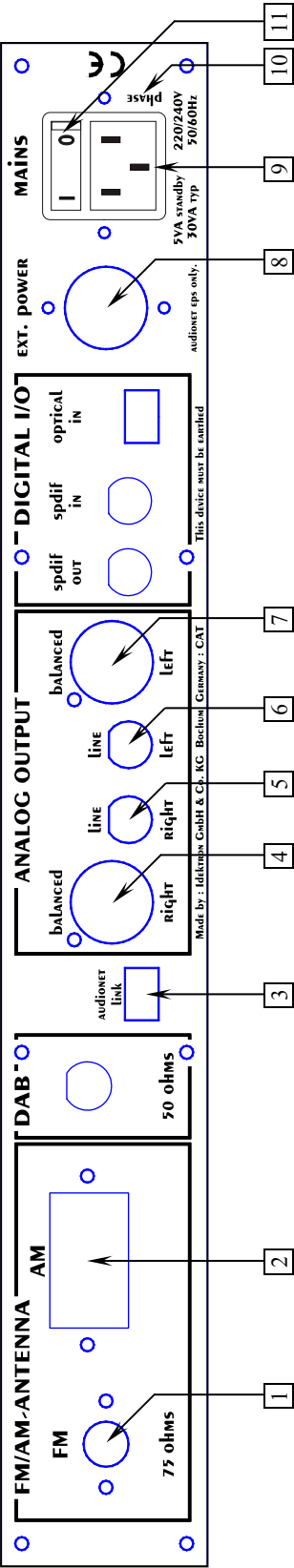
1 FM antenna input
2 AM antenna input
3 'Audionet Link' input
4 Balanced (XLR) output Right
5 Cinch output Right

6   Cinch output Left
7   Balanced (XLR) output Left
8   Input for external precisdion power supply EPS
9   Mains input
10 Marking mains phase
11 Mains switch

4 Installation and power supply

🛑 **Important**

- **During connecting or removing to/from your pre amplifier the CAT as well as the pre amplifier have to be switched off to avoid damage on the CAT, pre amplifier and/or any other connected unit.**

- **Please make sure that all cables are in absolute best conditions! Broken shields or short-cut cables could damage the CAT and/or any other connected unit.**

4.1 Placement

🛑 **Important**

- It is recommended to place the CAT into a high quality rack or onto a stable table.

- Do not expose the unit to direct sunlight

- Do not place the CAT in close range to heat sources like radiators.

- Do not cover the ventilation slots.

- Do not place the CAT on top of other units, especially not on top of power amplifiers, pre amplifiers or similar that produce heat. Both units could suffer damage from thermal overload.

4.2 Mains connection

The mains input ⑨* is on the back panel of the CAT. To connect the unit to mains use the included mains cord. If you prefer to use a different power cord make sure that it meets the specifications for your home country.

🛑 **Important**

- **The electrical specifications of your home country must meet the electrical specifications printed onto the back panel.**

- The CAT is a Class I unit and must be earthed. Please ensure a stable earth connection. Phase ('hot' pin) is marked **pʜᴀsᴇ** on the back panel ⑩.

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* see numbers in section '*Overview back panel*' on page 8

- If you connect the mains cord please make sure that mains switch $\boxed{11}$ at the back panel is switched off

- Never pull the mains plug while the CAT is switched on! Before you pull the mains cord off its socket $\boxed{9}$ at the back panel, power down the unit to stand-by mode and switch off the unit using mains switch $\boxed{11}$.

Only in cases of extended absence – like vacations – or if massive trouble on the mains power is to be expected you should switch off the CAT from the mains using mains switch $\boxed{11}$. To disconnect the unit completely from mains pull the mains plug.

☀ Tip

- The use of high quality mains cords could improve sound quality. Ask your local dealer for more information.

4.3 Orientation of mains plug

The correct polarization of mains is important for reasons of audio clarity and stability. Please connect the mains cord so that the hot pin of the wall outlet is connected to the pin of the mains input $\boxed{9}$ marked **phase** $\boxed{10}$.

✏ Note

- While powering up your Audionet CAT from stand-by mode by using the **power** key on the front panel, the unit detects a wrong polarization of the mains plug and issues the warning:

<div align="center">

**Attention: Mains
Phase incorrect!**

</div>

in the display of the front panel. In this case switch off the unit and flip the mains plug in the wall outlet (see section *'Mains phase detection'* on page 14).

5 Inputs and outputs

![Important icon] **Important**

- **During connecting or removing to/from your pre amplifier the CAT as well as the pre amplifier have to be switched off to avoid damage on the CAT, pre amplifier and/or any other connected unit.**

- **Please make sure that all cables are in absolute best conditions! Broken shields or short-cut cables could damage the CAT and/or any other connected unit.**

5.1 Antenna inputs

On the back panel are two antenna inputs. For FM reception connect your FM antenna or cable to antenna input **FM** $\boxed{1}$.

For AM reception connect your AM antenna to the clip connectors of antenna input **AM** $\boxed{2}$.

5.2 Audio outputs

The CAT is equipped with a pair of Cinch (Line) outputs $\boxed{5}$ and $\boxed{6}$ as well as a pair of balanced (XLR) outputs $\boxed{4}$ and $\boxed{7}$. Use the Cinch outputs to connect the CAT to your pre amplifier using high quality Cinch cables. Alternatively, you may connect the CAT to your pre amplifier using the balanced (XLR) outputs in case your pre amplifier does not support Cinch (Line) inputs.

![Tip icon] **Tip**

Pinning of the balanced (XLR) outputs:
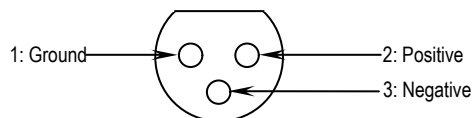
The pins are marked with numbers as in the picture above.

5.3 Audionet Link

For your convenience, the CAT can be switched on/off remotely by one of Audionet's multi-channel pre amplifiers (e.g. MAP or MAP 1) as well

as one of Audionet's stereo pre amplifiers (e.g. PRE or PRE 1 G3) using the 'Audionet Link' interface.

You only need a simple optical 'Toslink' cable to connect the 'Audionet Link' output of your Audionet pre amplifier to the 'Audionet Link' input AUDIONET LINK $\boxed{3}$ of the CAT. Now, the CAT and all other units connected via 'Audionet Link' will be switched on/off automatically, when you switch on/off your pre amplifier at the front panel or by remote control.

5.4 External power supply EPS

In order to use the optional external precision power supply Audionet EPS (External Power Supply) with you CAT please proceed as follows:

1. **Make sure both CAT and EPS are switched off and disconnected from mains.**

2. **Connect the EPS with the included cable to input jack EXT. POWER $\boxed{8}$ on the back panel of the CAT. The shape of the plug prevents a wrong polarity. The small 'nose' inside the plug has to face upwards. Now screw the ring of the plug onto the EPS input jack $\boxed{8}$.**

3. **Use the mains cord that came with the CAT to connect the EPS to mains.**

4. **Switch on the EPS with the mains switch on its back panel.**

5. **Use the power key on the front panel or the keys $\boxed{\text{Power On}}$ or $\boxed{\text{Power Toggle}}$[*) of the Audionet System Remote Control *Harmony One* to switch on the CAT. The unit is now ready to use and gets its power from the external power supply EPS.**

6. **To switch off the CAT into stand-by mode, use the power key on the front panel or keys $\boxed{\text{Power Off}}$ or $\boxed{\text{Power Toggle}}$[*) of the Audionet System Remote Control *Harmony One*.**

![Important icon] **Important**

- **Never switch on or off the EPS on its back panel while the CAT is operating.**

- For further information referring to the external power supply EPS please consult its user's manual.

![Tip icon] **Tip**

- Use a high quality cable to connect the EPS to mains. The sound will improve.

[*) or switched on/off by Activities on the Audionet System Remote Control; see separate user's manual *Harmony One*

6   Usage

The front panel has four keys to control all functions of the CAT. For more comfort please use the optional Audionet System Remote Control *Harmony One* (see section '*Audionet System* Remote Control' on page 33).

6.1 Powering up

First of all, please make sure your CAT is connected correctly to your pre amplifier and to mains power (see section '*Installation and power supply*' on page 9 and section '*Inputs and outputs*' on page 11).

The CAT is a stand-by unit. Please operate the mains switch 11 on the back panel. The display shows a welcome message for a brief moment. After that the CAT is in stand-by mode. The display will indicate the stand-by mode either with the text **off** or a small dot (see section '*Set Off-Text*' on page 32).

Only in cases of extended absence (like vacations) or if massive trouble on the mains power is to be expected (e.g. thunder storms) it is recommended to disconnect the CAT from the mains. While the CAT is in stand-by mode, operate mains switch 11 on the back panel. The display will go dark. To disconnect the PRE1 G3 from mains completely, you have to pull the mains cord off the mains jack 9 .

⚠ Important

- **Never pull the mains plug while the CAT is switched on! Before you pull the mains cord off its socket 9 at the back panel, power down the unit to stand-by mode and switch off the unit using mains switch 11 .**

6.2 Switching on and off

To power up the CAT from stand-by mode, press the **power** key on the front panel. The CAT issues the message:

<div align="center">

WAKING UP...

</div>

In case the mains plug has the incorrect polarization a warning will appear in the display (see section '*Mains phase detection*' on page 14). After that the unit is in normal operating mode and ready to use.

If you would like to switch off the unit, please press the **power** key on the front panel. First, the display shows the message:

<div align="center">

GOING TO SLEEP..

</div>

which then will be replaced by the stand-by text (see section '*Set Off-Text*' on page 32). The unit is now in stand-by mode.

- Of course, you may switch on/off the CAT with the Audionet System Remote Control *Harmony One*. For detailed information please refer to section '*Audionet System* Remote Control' on page 33.

- All user and setup options, presets, current receiver mode and frequency are saved during power down and are available after switching on again. The last mode before switching off to stand by mode will be restored. All saved information is non-volatile even after disconnecting the CAT from mains power

6.3 Mains phase detection

The correct polarization of mains is important for reasons of audio clarity and stability. Please connect the mains cord so that the 'hot' pin of the wall outlet is connected to the pin marked **pHASE** $\boxed{10}$ of the mains input $\boxed{9}$ on the back panel. The CAT recognizes the incorrect polarization of the mains plug automatically. Right after switching on the unit from stand-by mode by pressing the **power** key on the front panel the following message appears in the display in case the mains polarization is incorrect:

> **Attention: Mains**
> **Phase incorrect!**

If you read the above message, switch off the unit by pressing the **power** key. Please wait until the display no longer reads

> **GOING TO SLEEP..**

Disconnect the CAT from mains by operating the mains switch $\boxed{11}$ on the back panel. Now pull the mains plug and re-insert it into the mains socket rotated by 180°.

If you switch on the unit again, the warning should not appear now.

Important

- If the CAT issues the mains polarization warning or no warning at all for both positions of the mains plug, check the connection to earth of your mains socket and mains cord. **You have to ensure a stable connection to earth for the mains phase detection of the CAT to work correctly!**

6.4 Using Audionet Link

If you connected the CAT to an Audionet pre amplifier via 'Audionet Link', you can comfortably switch on/off the CAT (and all other units connected by 'Audionet Link') with the remote control of the pre amplifier.

Please refer to section '*Audionet Link*' on page 11 for information on how to set up the necessary connections.

Note

- Some Audionet devices issue the 'switch on/off' signal to any further Audionet units daisy chained to their 'Audionet Link' output with a little delay to avoid all units switching on at the same moment, which could cause an overload of your mains fuse. Please consult the user's manual of your other Audionet units on this subject, too.

- Independently from the 'Audionet Link' interface, you can switch on/off manually your CAT at any time by using the **power** key on the front plate or the remote control.

6.5 AutoStart function

If the AutoStart function of the CAT is active, the unit does not stay in stand-by mode after connecting to mains (e.g. by using the mains switch on the back panel), but switches on automatically. Use this option to power on the unit automatically using a timer device. Refer to section '*Set AutoStart*' on page 31 for detailed information how to setup the AutoStart function.

6.6 Control elements on the front panel

The front panel has four keys to control the CAT (see section '*Overview front panel*' on page 7). With these keys you can control all functions as well as all setup options to adjust the unit to your preferences (see section '*Setup menu*' on page 24).

power   Use key to switch on/off the unit (see section '*Switching on and off*' on page 13).

set   Push key shortly to navigate through the setup menu (see section '*Setup menu*' on page 24).
Keep key pushed for longer than two seconds to toggle between FM and AM reception (see section 'Switching frequency bands' on page 17) or to exit the setup menu (see section '*Setup menu*' on page 24).

up /down Push keys to start automatic search (see section '*Automatic search*' on page 17), tune manually (see section '*Manual search*' on page 18) or adjust any setup option (see section '*Setup menu*' on page 24).
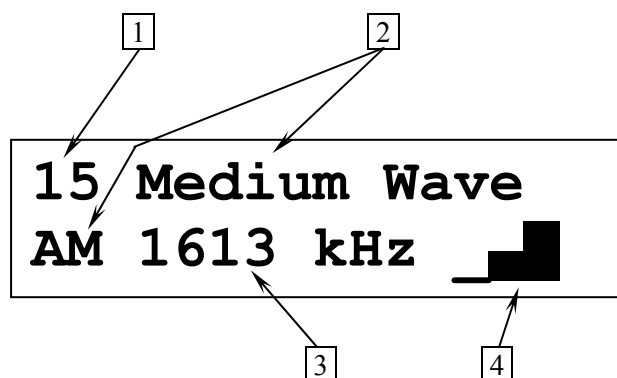
6.7 Display

During FM reception the display offers the following information:
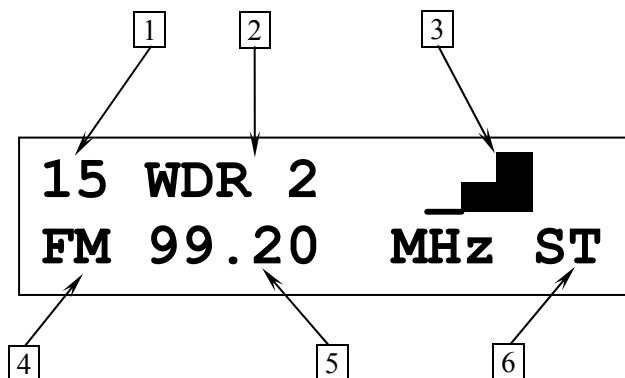
```
 1        2              3

 ┌──────────────────────────────┐
 │                          ▆▆   │
 │  15 WDR 2             ▆▆ ▆▆   │
 │  FM 99.20    MHz ST          │
 └──────────────────────────────┘

 4                5        6
```

1   in Preset mode the number of the current preset is displayed, the Scan mode is indicated by **SC** (see section '*Set Mode*' on page 29)

2   shows the station name, if supported;
otherwise **‑ ‑** is indicated.

3   indication of field strength (max. 4 bars)

4   indicator for FM reception

5   frequency of current station

6   **ST** = Stereo reception, **MO** = Mono reception (see also section '*Set FM-Receiver*' on page 27)

During AM reception the display offers the following information:

```
      1                 2

 ┌──────────────────────────────┐
 │  15 Medium Wave             │
 │  AM 1613 kHz      ▆▆        │
 └──────────────────────────────┘

              3        4
```

1   in Preset mode the number of the current preset is displayed, the Scan mode is indicated by **SC** (see section '*Set Mode*' on page 29)

2   indicates AM reception

3   frequency of current station

4   indication of field strength (max. 4 bars)

As soon as you enter the setup menu by pushing the **set** key, the display changes to show information related to the selected menu item. For further display details refer to the description of each menu item in section '*Setup menu*' starting from page 24.

📝 **Note**

- After 10 minutes without any user interaction the 'display saver' is invoked automatically. The display then shows only the station name (if supported by the station, otherwise the frequency) or the radio text. Please refer to section '*Set Dim Level*' on page 28 for further information on the 'display saver' mode.

6.8 Switching frequency bands

Press key **set** on the front panel longer than 2 seconds to toggle between FM and AM reception. The display indicates the current reception mode (see section '*Display*' on page 16).

⚙ **Tip**

- You can directly select the reception mode with the optional Audionet System Remote Control *Harmony One*. Press key $\boxed{\textsf{FM}}$ on screen 2 to switch the CAT to FM reception. Press key $\boxed{\textsf{AM}}$ to put the CAT into AM reception mode (see section '*Screen 1*' on page 37).

6.9 Automatic search

Start the automatic search in the corresponding direction by holding down the key **up** or **down** on the front panel for longer than 2 seconds. With the optional Audionet System Remote Control *Harmony One* please use keys $\boxed{\textsf{Ch+}}$ and $\boxed{\textsf{Ch-}}$.

If the next station is found, the search stops automatically. It also stops manually at the current position if you use keys **up** / **down** or $\boxed{\textsf{Ch+}}$ / $\boxed{\textsf{Ch-}}$ again.

📝 **Note**

- **While the CAT is in Preset mode, the keys up and down or keys $\boxed{\textsf{Ch+}}$ and $\boxed{\textsf{Ch-}}$ switch between the Presets. Put the CAT into**

Scan mode in order to manually tune with keys above (see section '*Set Mode*' on page 29).

- If the search reaches the upper or lower end of the frequency range without finding a station, the search continues at the corresponding opposite end of the frequency range maintaining the search direction.

6.10 Manual search

Use keys **up** and **down** on the front panel or keys ⎡▲⎤ and ⎡▼⎤ of the Audionet System Remote Control *Harmony One* to tune the CAT manually.

up or ⎡▲⎤ increases the frequency one step. **down** or ⎡▼⎤ decreases the frequency one step. The step size is 50 kHz in FM reception mode and 9 kHz in AM reception mode.
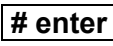
🖉 **Note**

- If you reach the upper or lower end of the frequency range, the search continues at the corresponding opposite end of the frequency range maintaining the search direction.

6.11 Direct frequency input

In FM reception mode you are able to enter the desired frequency directly using the digit keys of the optional Audionet System Remote Control *Harmony One*.

First, press key ⎡ **# enter** ⎤ to invoke the **Direct Frequency Input** dialog. The display shows:

```
Frequency Input:
FM ___.__MHz
```

Now use the digit keys on screen 1 of the *Harmony One* to enter the desired frequency digit by digit from the left to the right. As soon as the last digit is entered, the CAT tunes to the new frequency. In case you would like to exit this mode without completing the input just press key ⎡ **# enter** ⎤ again.

While in **Direct Frequency Input mode** please follow these rules:

- Only frequencies in the range from 87.50 MHz to 108.00 MHz are allowed. Therefore, only digits 8, 9 or 1 are permitted as first digit. All other entries are ignored.

- It is not necessary to enter a leading zero (for frequencies below 100 MHz). Simply press ⸤8⸥ or ⸤9⸥. The CAT automatically adds the leading zero. **Example**: Press ⸤9⸥ ⸤6⸥ ⸤5⸥ ⸤0⸥ to enter the frequency of 96.50 MHz.

- To enter frequencies greater than 100 MHz press ⸤1⸥ for the fist digit. The CAT automatically recognizes the input as 10. You are spared from unnecessary inputs. **Example**: Press ⸤1⸥ ⸤6⸥ ⸤7⸥ ⸤0⸥ to enter the frequency of 106.70 MHz.

- During FM reception the smallest possible frequency step is 50 kHz, hence the last digit of the frequency has to be 0 or 5. Press digit key ⸤0⸥ to enter a 0. Any other digit key enters automatically a 5 as last digit.

 ✎ **Note**

- Direct Frequency Input mode is only available using the optional Audionet System Remote Control *Harmony One*.

- This function is only available in FM reception mode.

6.12 Info function Show

Independently from the display settings you are able to call up all relevant information on the currently tuned station with a single keystroke.

For this press key **set** on the front panel once for less than 2 seconds, or use keys ⌷**Guide**⌷ or ⌷**Show**⌷ on screen 2 of the optional Audionet System Remote Control *Harmony One* (see section '*Key assignments CAT*' on page 35 and section '*Screen 2*' on page 37).

For a short time the display offers the following information:

FM reception mode   **AM reception mode**
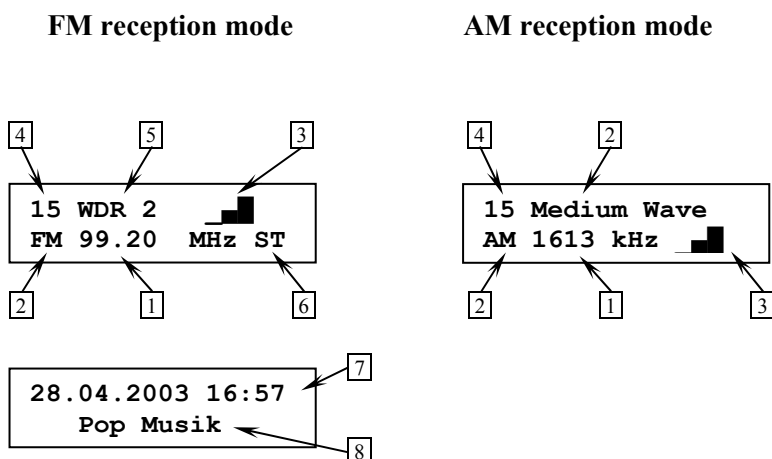
1 Frequency of station [1]
2 Reception mode indicator [1]
3 Field strength [1]
4 Preset number or Scan mode indicator [2]
5 Station name (if supported by station) [1]
6 Playback mode (**ST**= Stereo or **MO**=Mono) [3]
7 Time and date (if supported by station) [4]
8 Program type PTY (if supported by station) [4]

✎ Note

- The info function is active for about 12 seconds. After that the CAT switches back to displaying information according to the settings you made.

- While displaying the info function the display is set to 100% brightness for better readability. After leaving this function the display brightness is reset to the user selected level.

- While in FM reception mode time, date and program type are displayed separately after approx. 6 seconds.

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[1] See section '*Display*' on page 5

[2] See section '*Set Mode*' on page 29

[3] See section '*Set FM-Receiver*' on page 27

[4] See section '*Set RDS Option*' on page 26

7   Presets

The CAT offers up to 99 presets to save stations. Each preset comprises the reception mode (FM or AM) and the frequency of a station. Preset numbers can be selected freely in the range from 1 to 99.

7.1 Save preset

Tune the CAT to the station you would like to save into a preset. For details on how to tune to a station please refer to section '*Automatic search*' on page 17, to section '*Manual search*' on page 18 and to section '*Direct frequency input*' on page 18. Now press the **set** key on the front panel 3 times for less than 2 seconds until the display reads:

SAVE PRESET: 0_

Use the **up** and **down** keys to select the 2nd digit of the preset number.

Hold down the **set** key longer than 2 seconds to acknowledge the 2nd digit of the preset number. Now use the **up** and **down** keys to adjust the 1st digit of the preset number.

Keep **set** pressed for longer than 2 seconds to acknowledge the 1st digit. The preset number is now entered completely. The 2nd line of the display now reads:

SET = save

If you are sure to save the current station to the selected preset number hold down the **set** key longer than 2 seconds to save.

In case you would like to save the current station to a different preset number then just press key **set** shortly (less than 2 seconds) and start the selection procedure again.

📝 Note

- You can always exit the save dialogue by pressing the **set** key shortly.

⚙ Tip

- It is much more comfortable to save a station using the optional Audionet System Remote Control *Harmony One*. Just press key Save Preset on screen 2 of the device menu **CAT** (see section '*Screen 2*' on page 37).

  The display reads:

SAVE PRESET: _ _

Now use the digit keys on screen 1 to enter the desired preset number. Afterwards the display prompts:

<div align="center">

`Enter = save`

</div>

Press key <kbd>**enter**</kbd> to save the current station to the preset number entered above.

📝 **Note**

- In case you would like to cancel the save procedure just press <kbd>**Save Preset**</kbd> again.

⚠️ **Important**

- **By saving to an already occupied preset the old information will be irretrievably overwritten!**

7.2 Load preset

To load a previously saved station press the **set** key on the front panel twice for less than 2 seconds. The display reads:

<div align="center">

`LOAD PRESET: 0_`

</div>

Now use the **up**- and **down** keys to select the 1st digit of the preset number.

Hold the **set** key down for longer than 2 seconds to proceed. Use the **up**- and **down** keys to select the 2nd digit of the preset number.

Proceed with a long keystroke on **set** (longer than 2 seconds). The preset number is now entered completely. To load the selected preset press and hold **set** for at least 2 seconds. The display shows:

<div align="center">

`loading...`

</div>

in the second line while loading the preset.

📝 **Note**

- You may quit the load preset dialogue at any time by pressing the **set** key for less than 2 seconds.

Tip

- Loading a previously saved preset is done much more comfortably by using the optional Audionet System Remote Control *Harmony One*. Press key ⎡**Load Preset**⎤ on screen 1 in the device menu **CAT** (see section '*Screen 2*' on page 37).

The display shows:

LOAD PRESET: _ _

Now use the digit keys on the same screen to enter the desired preset number. After entering the complete preset number the CAT loads the previously saved station. Loading is indicated by:

loading...

in the display.

Note

- If you like to exit the load station dialogue simply press key ⎡**Load Preset**⎤ again.
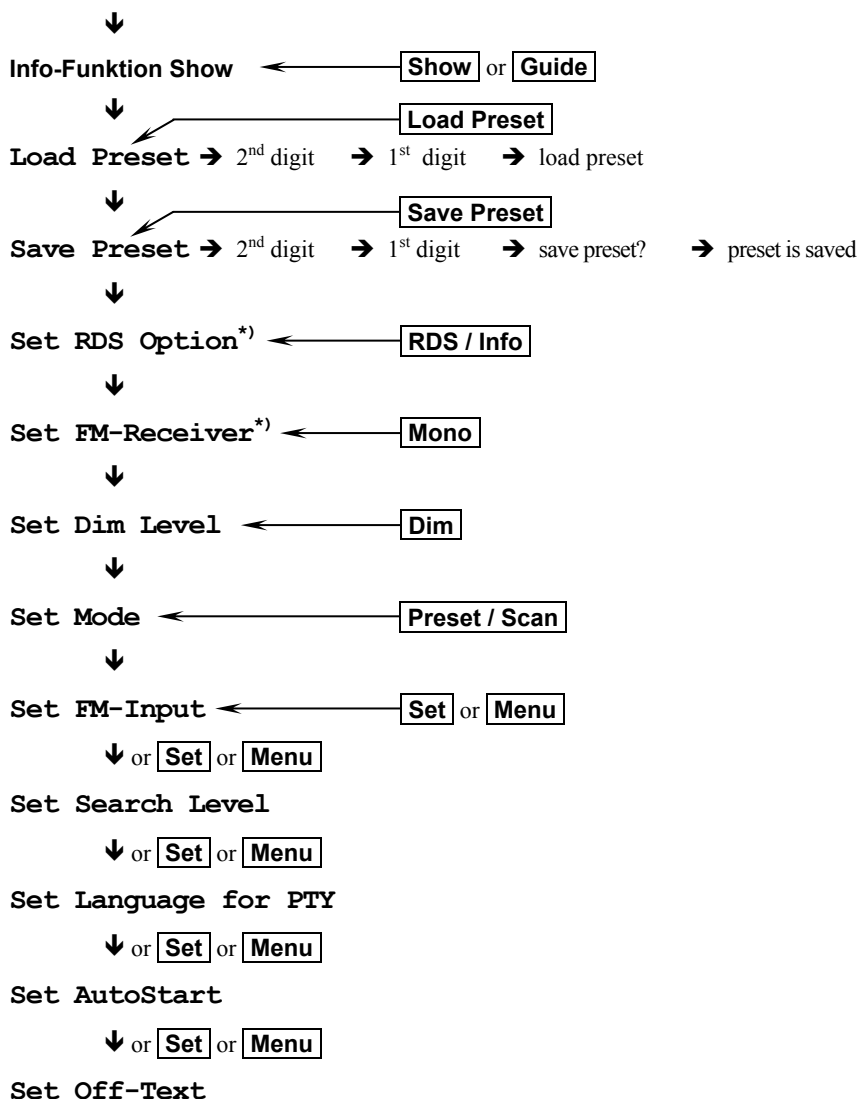
8   Setup menu

To adjust the CAT to your preferences, please use the setup menu.

Push the **set** key on the front panel 4 times for less than two seconds to get to the first item of the setup menu. Navigate to the next menu item by pushing the **set** for less than two seconds again.

After the last menu item you will leave the setup menu automatically. Of course, you may exit the setup menu from each menu item by holding down the **set** key down for longer than two seconds (long keystroke). The CAT then returns to the normal operating mode.

The following figure provides a good overview of the structure of the setup menu:

⬇

Info-Funktion Show ⬅——————— Show or Guide

⬇
Load Preset

Load Preset ➔ 2nd digit ➔ 1st digit ➔ load preset

⬇
Save Preset

Save Preset ➔ 2nd digit ➔ 1st digit ➔ save preset? ➔ preset is saved

⬇

Set RDS Option^{*)} ⬅——————— RDS / Info

⬇

Set FM-Receiver^{*)} ⬅——————— Mono

⬇

Set Dim Level ⬅——————— Dim

⬇

Set Mode ⬅——————— Preset / Scan

⬇

Set FM-Input ⬅——————— Set or Menu

⬇ or Set or Menu

Set Search Level

⬇ or Set or Menu

Set Language for PTY

⬇ or Set or Menu

Set AutoStart

⬇ or Set or Menu

Set Off-Text

^{*)}   only while in FM reception mode
⬇   = short keystroke on **set** (less than 2 seconds)
➔   = long keystroke on **set** (longer than 2 seconds)
xxx   = key on Audionet System Remote Control *Harmony One* for direct access of function **xxx**

Change any setting of a menu item by using the keys **up** and **down** on the front panel or $\boxed{\text{Ch+}}$ and $\boxed{\text{Ch-}}$ of the Audionet System Remote Control *Harmony One*.

☼ Tip

- All settings of the setup menu can be dealt with by using the keys on the front panel. However, if you prefer to change settings from the comfort of your listening chair, please use the Audionet System Remote Control *Harmony One*. For more information about the remote control and its usage see section '*Audionet System* Remote Control' on page 33.

🖉 Note

- If you make no adjustments for longer than 12 seconds the CAT automatically leaves the setup menu and returns to normal operating mode.

- While you are in the setup menu the display brightness is set to 100% for better readability. After leaving the setup menu the display brightness is automatically reset to its user selected level.

- If you power down the CAT to stand-by mode all settings are stored automatically in the non-volatile memory of the unit. Even after disconnecting from mains power the CAT still remembers your settings.

- The key $\boxed{\text{Set}}$ or $\boxed{\text{Menu}}$ of the Audionet System Remote Control leads directly to the menu item '*Set FM-Input*'. Navigate to each next menu item by pressing the key $\boxed{\text{Set}}$ or $\boxed{\text{Menu}}$ (the figure on page 24 shows the order of the menu items).

- Access menu items '*Set RDS Option*', '*Set FM-Receiver*', '*Set Dim Level*' and '*Set Mode*' directly by using the corresponding key of the Audionet System Remote Control. Consult section '*Audionet System* Remote Control' on page 33 for details.

In the following all options of the setup menu are explained in detail.

8.1 Set RDS Option

As an alternative to the indication of the current frequency the CAT is able to display information of the **R**adio **D**ata **S**ervice (RDS) if the current station supports RDS.

Use keys **up** and **down** or keys `Ch+` and `Ch-` of the Audionet System Remote Control *Harmony One* to select the desired RDS function:

None	no RDS option, back to frequency display
Radio Text	the received Radio Text is scrolled in the display
Prog. Type (PTY)	displays the Program Type information, select language with menu item '*Set Language for PTY*' on page 31
Time & Date	displays time and date information as broadcasted by current station

✎ Note

- Availability and contents of RDS options depend on the broadcaster only. Also, bad reception quality might narrow the availability and performance of RDS.

- If option **Radio Text** is selected, the display shows **No Radio Text** if the current station does not support Radio Text, or the data could not be recognized and processed.

✿ Tip

- If you prefer to change settings from the comfort of your listening chair, please use keys `Info` or `RDS / Info` of the Audionet System Remote Control *Harmony One* to directly access the menu item **Set RDS Option**. For more information about the remote control and its usage see section '*Key assignments CAT*' on page 35 and section '*Screen 2*' on page 37.

8.2 Set FM-Receiver

Use this option to choose if the program of the current FM station is presented in stereo or mono.

Note

- If the current FM station broadcasts only a mono program or the reception quality is too low, the output is mono although this option is set to **Stereo**.

Press key **down** on the front panel or key ⟦**Ch-**⟧ of the Audionet System Remote Control *Harmony One* to enable stereo playback (if supported by the broadcaster). The display shows **Stereo**.

Press key **up** on the front panel or key ⟦**Ch+**⟧ of the Audionet System Remote Control *Harmony One* to force mono playback. The display shows **Mono**.

Note

- This function is only available in FM reception mode. AM radio programs are broadcasted and played back in mono on principle.

Tip

- If you prefer to change settings from the comfort of your listening chair, please use the key ⟦**Mono**⟧ of the Audionet System Remote Control *Harmony One* to directly access the menu item **Set FM-Receiver**. For more information about the remote control and its usage see section '*Screen 2*' on page 37.

8.3 Set Dim Level

Select the brightness of the display on the front panel. Five settings are available: 100%, 75%, 50%, 25% and OFF. Use keys **up**/**down** or $\boxed{\textbf{Ch+}}$ / $\boxed{\textbf{Ch-}}$ of the Audionet System Remote Control *Harmony One* to set the desired brightness.

![icon] **Important**

- **Long-term usage of the display set to maximum brightness (setting 100%) may cause extended signs of wear resulting in a decay of contrast or brightness of individual dots in the display. Do not use the display with a brightness set higher than the factory default of 50% over a longer period of time!**

![icon] **Note**

- Is the brightness set to **Off** the display is only on during setup adjustments, switching on/off and tuning/searching stations. It switches off automatically several seconds after the last user entry.

- The CAT activates the 'display saver' automatically after 10 minutes without any user entry.

- During active 'display saver', the display shows only the station name, if supported by the station (e.g. **WDR 2**). Otherwise the display shows the frequency of the station (e.g. **106.7 MHz**). The display brightness is always reduced to 25%, and the location of the information text will change randomly every 12 seconds to prevent any 'burn-in' effect of the display.

- If the RDS option **Radio Text** is selected (see section '*Set RDS Option*' on page 26), the received Radio Text is scrolled alternately in the top or bottom line of the display. If the current station does not support Radio Text the display shows **No Radio Text**.

- The 'display saver' is de-activated and the display returns to its normal mode as soon as any user entry is detected.

- The user cannot switch off the automatic 'display saver' function!

![icon] **Tip**

- If you would like to de-activate the 'display saver' and return to the normal display mode press key **set** for less than 2 seconds, or press keys $\boxed{\textbf{Show}}$ or $\boxed{\textbf{Guide}}$ of the Audionet System Remote Control *Harmony One* (see section '*Info function Show*' on page 20).

- If you prefer to change settings from the comfort of your listening chair, please use the key $\boxed{\textbf{Dim Display}}$ on screen 1 of the Audionet System Remote Control *Harmony One* to directly access the menu item **Set Dim Level** (see section '*Screen 1*' on page 37).

8.4 Set Mode

This option selects the function of the keys **up** and **down** on the front panel or the keys $\boxed{\textbf{Ch+}}$ and $\boxed{\textbf{Ch-}}$ of the Audionet System Remote Control in normal operating mode.

Press key **down** or $\boxed{\textbf{Ch-}}$ to enter the Scan mode. The display shows `Scan`.

In **Scan mode** a short keystroke (less than 2 seconds) on **up**/**down** tunes the CAT one frequency step (FM mode 50 kHz, AM mode 9 kHz) in the corresponding direction for manual search.

Use a long keystroke on **up**/**down** or $\boxed{\textbf{Ch+}}$ / $\boxed{\textbf{Ch-}}$ on the Audionet System Remote Control *Harmony One* to start the automatic search in the corresponding direction. The search stops automatically at the next found station (see section '*Automatic search*' on page 17).

✎ Note

- During normal display mode the CAT indicates the Scan mode with the symbol `SC` in the upper left corner of the display (see section '*Display*' on page 16).

Press key **up** or $\boxed{\textbf{Ch+}}$ to enter the **Preset mode**. The display shows `Preset`.

In Preset mode a short keystroke on **up** or $\boxed{\textbf{Ch+}}$ selects the next preset. A short keystroke on **down** or $\boxed{\textbf{Ch-}}$ loads the previous preset.

✎ Note

- During normal display mode the CAT shows the number of the current preset in the upper left corner of the display (see section '*Display*' on page 16).

- In case you tuned to a different frequency manually the display shows – –   instead of the preset number.

- You still may start the automatic search with a long keystroke on **up** or **down**.

✿ Tip

- You can switch between Scan and Preset mode much more comfortably using the optional Audionet System Remote Control *Harmony One*. Key $\boxed{\textbf{Preset / Scan}}$ on screen 2 toggles between both modes directly without entering the setup menu (see section '*Screen 3*' on page 38).

8.5 Set FM-Input

Adjust the sensitivity of the FM receiver according to the signal strength of the input signal (antenna signal). Two settings are available.

Press key **up** on the front panel or key `Ch+` of the Audionet System Remote control *Harmony One* to configure the CAT for high level input signals (e.g. cable radio). The display shows `Cable`.

Press key **down** on the front panel or key `Ch-` of the Audionet System Remote Control *Harmony One* to configure the CAT for low level inputs (e.g. FM antenna). The display shows `Aerial`.

✎ Note

- This function is only available in FM reception mode.

8.6 Search Level FM

There are three settings available to adjust the threshold of the automatic search function (see section '*Automatic search*' on page 17). The greater the threshold, the stronger the signal of a station has to be in order to be detected by the automatic search function and to stop the search. Use the **up** or `Ch+` key to increase the threshold. Press key **down** or `Ch-` to decrease the threshold.

The three threshold levels `70 dBu`, `80 dBu` and `90 dBu` are available.

✎ Note

- This function is only available in FM reception mode.

- If the automatic search function (see section '*Automatic search*' on page 17) stops too often without finding a suitable station, increase the threshold. If not all expected stations are found by the search function, decrease the threshold.

- The threshold for the automatic search function is only adjustable for FM reception mode. While in AM reception mode the threshold is fixed.

8.7 Set Language for PTY

Use the keys **up** and **down** on the front panel or keys $\boxed{\textsf{Ch+}}$ and $\boxed{\textsf{Ch-}}$ of the Audionet System Remote Control *Harmony One* to select the language for displaying the program type (PTY). PTY is part of the Radio Data Service (RDS). Available languages are: **English**, **German**, **Swedish**, **Dutch** and **Spanish**.

✎ Note

- Information about the program type is only available if the CAT is in FM reception mode and tuned to a station supporting RDS. Also, the option **SET RDS OPTION** has to be set to **Prog. Type (PTY)**.

8.8 Set AutoStart

If the AutoStart function of the CAT is active, the unit switches on to normal operating mode automatically (instead of remaining in stand-by mode) as soon as it is connected to mains power (e.g. by using the mains switch $\boxed{11}$ on the back panel). Activate this option if you are using the CAT with a timer device.

Use keys **up** and **down** on the front panel or keys $\boxed{\textsf{Ch+}}$ and $\boxed{\textsf{Ch-}}$ of the Audionet System Remote Control *Harmony One* to select the desired function:

disabled   The AutoStart function is disabled. After connecting the CAT to mains power, the unit stays in stand-by mode. You have to use the **power** key on the front panel or the remote control, or the 'Audionet Link' to switch on the CAT to normal operating mode.

active   The AutoStart function is active. As soon as you connect the CAT to mains power (e.g. using the mains switch $\boxed{11}$ on the back panel) the unit starts up automatically to normal operating mode. Use this setting for timer controlled switching on/off.

✎ Note

- In order to use the AutoStart function with a timer device, the mains switch $\boxed{11}$ on the back panel has to be in position 'on' all the time. The connection to mains power is switched by the timer device in this case.

8.9 Set Off-Text

Select here how the CAT indicates the stand-by mode. Use keys **up** and **down** on the front panel or keys $\boxed{\text{Ch+}}$ and $\boxed{\text{Ch-}}$ of the Audionet System Remote Control *Harmony One* to select the desired indicator:

off   The stand-by mode is indicated by the text **off**.

dot   The stand-by mode is indicated by a small dot (pixel) in the display.

Note

- Approx. every 12 seconds the stand-by mode indicator changes positions randomly in the display to prevent any 'burn in' effect (see section '*Set Dim Level*' on page 28).

8.10 Factory defaults

| Option	Setting
SET RDS OPTION	none
SET FM-RECEIVER	Stereo
SET DIM VALUE	50%
SET MODE	Scan
SET FM-INPUT	Aerial
SEARCH LEVEL FM	70 dBu
SET LANGUAGE FOR PTY	English
SET AUTOSTART	disabled
SET OFF-TEXT	dot

9 Audionet System Remote Control

All functions of the CAT can be controlled using the optional Audionet system remote control *Harmony One*. Furthermore, it is possible to control up to 14 additional devices with the *Harmony One*.

Press key Devices to enter **Device Mode**. The display now lists all devices included in the current configuration of the *Harmony One*. Select CAT from the list to set the *Harmony One* to controlling the CAT. **Device Mode** gives you access to all the possible commands to control your CAT. The following explains all these commands in detail.

![Important icon] **Important**

- During everyday use, you should never need to use the **Device Mode** of your Harmony One, but control the CAT (and other devices of your audio setup) by customizing your Activities. For detailed information on how to customize and use Activities on your Harmony One please consult the separate user's manual that came with your Harmony One.
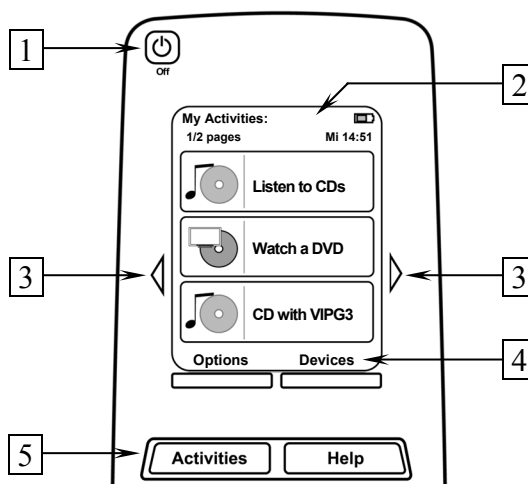
1 **Power** key for use with Activities, turns all devices off that are included into the current Activity. See separate user's manual of *Harmony One*.

2 Depending on the operational mode, the touch screen of the *Harmony One* shows a list of Activities or Devices, help or infrared commands and any available listings.

3 If a menu or listing stretches over more than one screen page, use the corresponding arrow buttons to go to the next or previous page of the menu or listing. (see also separate user's manual of the *Harmony One*).

4 **Devices** key, lists all the devices on the display, and allows you to select and directly control any device included in the configuration of the remote control (see separate user's manual of *Harmony One*). Select CAT to enter **Device Mode** for controlling the CAT.

5 **Activities** key: Press this key to view a list of Activities you have added. Press the button next to the Activity you want to select, and the *Harmony One* will control your entertainment system (see separate user's manual of *Harmony One*).

⚠️ **Important**

• **The Power key ⏻ is only available for Activities. In Device Mode the Power key has no function.**

• **Even without using an Activity, the user is able to control all functions of the CAT using the *Harmony One* in Device Mode.**

• **The keys described below to control the CAT refer to the factory default programming of the Audionet System Remote Control Harmony One. Understandably, any changes done to this setup by the user cannot be discussed here.**

⚙️ **Tip**

• In order to switch the CAT on/off, **without** using an Activity, please use the keys │ **Power On** │, │ **Power Off** │ and/or │ **Power Toggle** │ on screen 3 (see section '*Screen 3*' on page 38). Of course, it is possible to control the CAT without any Activity, but to tap the full potential of the *Harmony One* you need to configure Activities customized to your needs (please refer to separate manual of the remote control *Harmony One*).

✏️ **Note**

• Please read the separate user's manual to your Audionet system remote control *Harmony One*. Activities, Devices and Device Mode as well as customizing the remote control are discussed there.
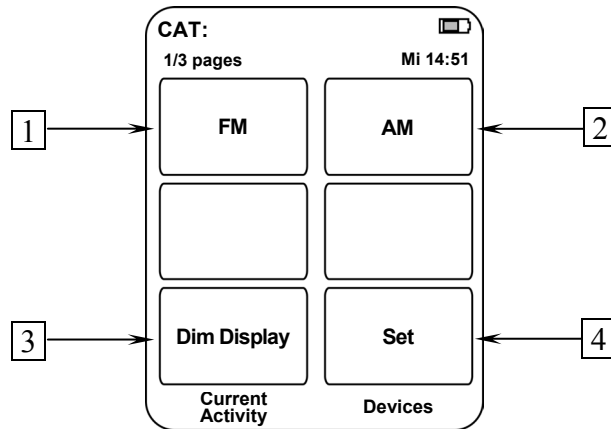
9.1 Key assignments CAT
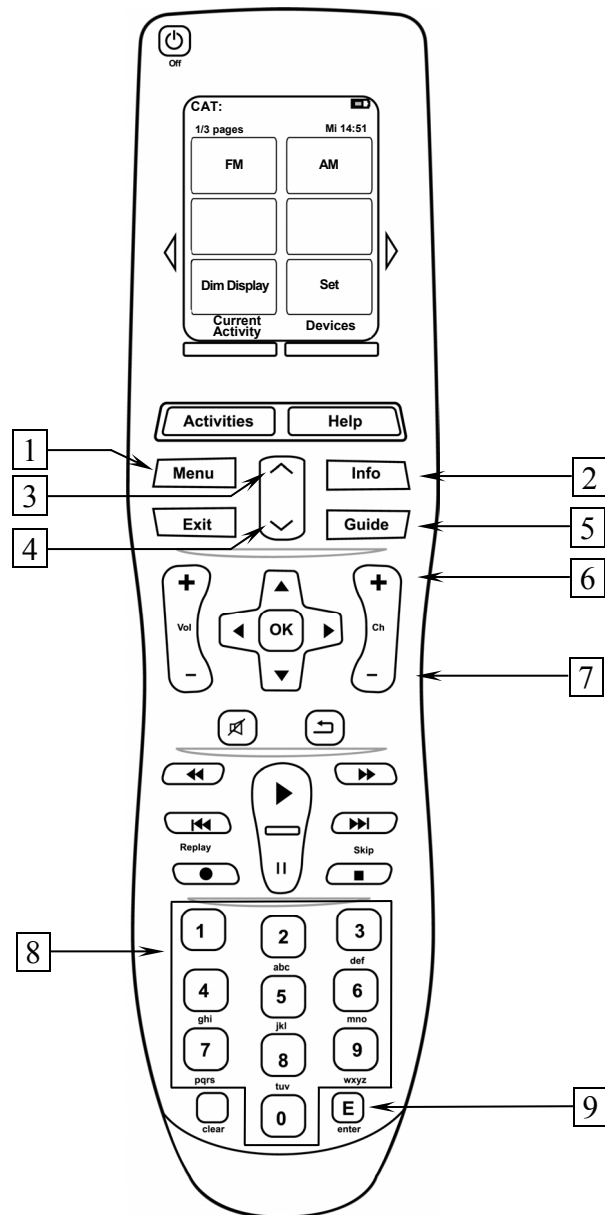
1 **Menu** calls the setup menu, press again to navigate to next menu item (see section '*Setup menu*' on page 24). This key has the same function as key **Set** (see section '*Screen 1*' on page 37).

2 **Info** calls directly menu item **SET RDS OPTION** (see section '*Set RDS Option*' on page 26). This key has the same function as key **RDS / Info** (see section '*Screen 2*' on page 37).

3 **Manual tuning** upwards (see section '*Manual search*' on page 18).

**4** **Manual tuning** downwards (see section '*Manual search*' on page 18).

5 Press key ⌐Guide⌐ to display current information (see section '*Info function Show*' on page 20). This key has the same function as key ⌐Show⌐ (see section '*Screen 2*' on page 37).

6 ⌐Ch+⌐, automatic search upwards (see section '*Automatic search*' on page 17), select next preset (see section '*Set Mode*' on page 29) or adjust an option from the setup menu (equivalent to key **up** on the front panel).

7 ⌐Ch-⌐, automatic search downwards (see section '*Automatic search*' on page 17), select the previous preset (see section '*Set Mode*' on page 29) or adjust an option from the setup menu (equivalent to key **down** on the front panel).

8 **Digit keys** for frequency direct input in FM reception mode (see section '*Direct frequency input*' on page 18) or for selecting the number of the preset to be loaded/saved (see section '*Presets*' on page 21).

9 **Enter key** ⌐enter⌐, acknowledges saving of presets (see section '*Save preset*' on page 21) or calls up the frequency direct input dialogue (see section '*Direct frequency input*' on page 18).

9.2 Screen 1

1 ⃞ **FM** ⃞ switches the CAT to FM reception mode (see section '*Switching frequency bands*' on page 17).

2 ⃞ **AM** ⃞ switches the CAT to AM reception mode (see section '*Switching frequency bands*' on page 17).

3 ⃞ **Dim Display** ⃞ calls directly menu item **SET DIM VALUE** (see section '*Set Dim Level*' on page 28).

4 ⃞ **Set** ⃞ calls the setup menu, press again to navigate to next menu item (see section '*Setup menu*' on page 24). This key has the same function as key ⃞ **Menu** ⃞ (see section '*Key assignments CAT*' on page 35).

9.3 Screen 2
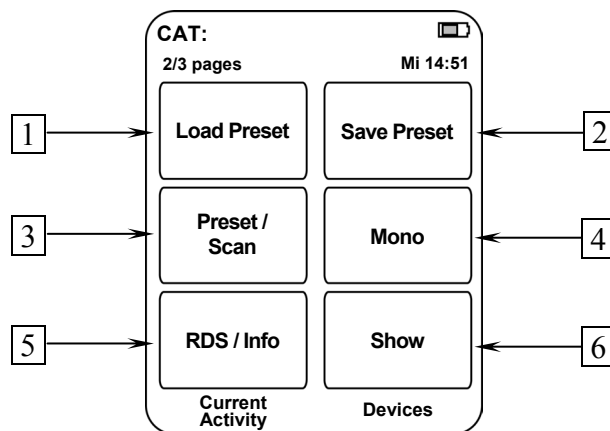
1 ⸢Load Preset⸣ calls the dialogue for loading presets.

2 ⸢Save Preset⸣ calls the dialogue for saving presets.

3 ⸢Preset / Scan⸣ toggles directly between **Preset** and **Scan** mode (see section '*Set Mode*' on page 29)

4 ⸢Mono⸣ calls directly menu item **SET FM-RECEIVER** (see section '*Set FM-Receiver*' on page 27)

5 ⸢RDS / Info⸣ calls directly menu item **SET RDS OPTION** (see section '*Set RDS Option*' on page 26). This key has the same function as key ⸢Info⸣ (see section '*Key assignments CAT*' on page 35).

6 ⸢Show⸣ shows current information (see section '*Info function Show*' on page 20). This key has the same function as key ⸢Guide⸣ (see section '*Key assignments CAT*' on page 35).

9.4 Screen 3
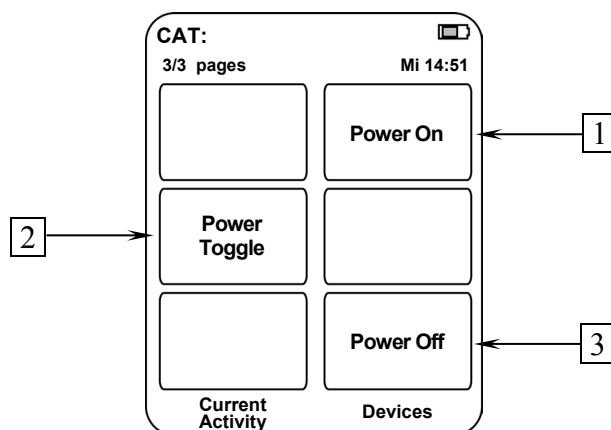
1 If the CAT is in stand-by mode, press key ⸢Power On⸣ to switch the unit on.

2 Use ⸢Power Toggle⸣ to switch on/off the CAT. This key has the same function as the **power** key on the front panel. If the CAT is in stand-by mode, ⸢Power Toggle⸣ will switch on the unit. If the CAT is already switched on, ⸢Power Toggle⸣ will switch off the unit to stand-by mode.

3 If the CAT is switched on, use key ⸢Power Off⸣ to switch the unit off to stand-by mode.

10 Security advice

⚠ **Important**

- Avoid packaging material, especially plastic bags, coming into children's hands!

- Store and operate the unit in a dry room at a reasonable room temperature only!

- Avoid moisture, any liquids, dirt or small objects getting into the unit!

- Set up the unit in a sufficiently ventilated environment!

- Do not cover the unit!

- Do not open the unit. Unauthorised opening will void warranty!

- Do not short-circuit the outputs!

- During connecting or removing the CAT to/from your pre amplifier all units have to be switched off to prevent damage of the CAT or any of the other connected units.

- Use dry cloth for cleaning!

We would like to wish you many exciting listening experiences with your new Audionet product.

If you still have any questions, do not hesitate to ask your competent Audionet dealer or contact us directly

11 Technical data

Function	configurable FM/AM tuner
Frequency range	FM 87.5 – 108.0 MHz AM 522 – 1611 kHz
Frequency response	30 – 15,000 Hz (+/- 1 dB)
SNR	> 66 dB
Inputs	1 FM antenna, 75 Ohms, 1 AM antenna, double pole 7-pin connector for Audionet EPS, 1 Audionet Link
Outputs	1 pair Line Out, Cinch, gold plated 1 pair Balanced Out, Neutrik XLR, gold plated
Output impedance	68 Ohms
Mains	230 V, 50..60 Hz
Power consumption	30 Watts max.
Dimensions	Width: 430 mm Height: 70 mm Depth: 310 mm
Weight	8 kg
Finish	Front: brushed aluminium, 10 mm, black anodised, white print or aluminium 'nature', anodised, black print Display: red or blue Cover: aluminium, black anodised, 6 mm Chassis: steel, black coated
Features	- Radio Data System (RDS) - configurable antenna sensitivity for FM - automatic mains phase detection - two lines vacuum fluorescent display - remote switch on/off via Audionet Link (optical) - AutoStart function for timer control
Options	- Audionet System Remote Control *Harmony One* - external precision power supply EPS

Errors and omissions excepted. Specifications and design are subject to changes without prior notice.