

Owner's Manual

MEDIAMASTER 9820 T



NOKIA
CONNECTING PEOPLE

MEDIAMASTER 9820 T

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Nokia Multimedia Terminals operates a policy of continuous development. Therefore we reserve the right to make changes and improvements to any of the products described in this manual without any prior notice.

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GENERAL OPERATION OF THE MEDIAMASTER

Throughout this manual you will notice that the everyday operation of your Mediamaster is based on a series of user friendly on-screen displays and menus. These menus will help you get the most from your Mediamaster, guiding you through installation, channel selection, viewing and many other functions.

All functions can be carried out using the buttons on the remote control, and some of the functions can also be carried out using the buttons on the front panel.

If at any time when using the menus (except Installation and Reinstall) you want to return to the normal TV mode, press the EXIT button.

The Mediamaster is easy to use, always at your command and adaptable for future advances.

Please be aware that new software may change the functionality of the Mediamaster.

Should you experience any difficulties with the operation of your Mediamaster, please consult the relevant section of this manual, including the Problem Solving, or alternatively call your dealer or a customer service adviser.

Please not! The first thing to do before sending the Mediamaster to service is to:

1: Perform "Diagnostic" procedure in System Information menu.

2: Try downloading new software into the Mediamaster.

With this procedure, the new software may solve the problem in the quickest and most efficient way. See the relevant section "Receiver Upgrade" further on in this manual.

FOR YOUR SAFETY

- **Allow clear space around the Mediamaster for sufficient ventilation.**
- **Do not cover the Mediamaster or place it on a unit that emits heat.**
- Use a soft cloth and a mild solution of washing-up liquid to clean the casing.
- Never allow liquids, spray or other materials to come into contact with the inside of the Mediamaster.
- Do not connect or modify cables when the Mediamaster is plugged in.
- Do not remove the cover.
- Do not allow the unit to be exposed to hot, cold or humid conditions.
- Service should be carried out only at a Nokia Authorised Service Centre.
- Please note that the only way to isolate the Mediamaster completely from the mains supply is to unplug the mains lead!

REMOTE CONTROL

This section describes how to operate the Mediamaster using the buttons on the remote control. Some of the functions can also be carried out using the buttons on the front panel.

-  To switch the Mediamaster in and out of standby mode.
- EXIT TV**  To return to the viewing mode from a menu without storing settings (in menu mode).
-  To turn the sound off/on (mute).
-  To adjust the volume of digital programmes. The Mediamaster's maximum level is controlled by the TV's present volume setting.
- 0 - 9** To change channel and to select individual menu options. Note: If 0 is entered as the first digit, the TV Release functionality is activated (see below).
- 0**  TV Release. To switch between digital TV, analogue TV and analogue satellite TV and VCR, when your systems are connected by SCART leads.
- i** Info. To display short and extended information (if transmitted) about current and next programmes.
- BACK** To go back one level in the menus without storing settings.
- TEXT** To select teletext information. Press to enter teletext (if available).
- MENU** To display or exit from the "Main Menu" screen.
- GUIDE** To obtain a list of present and following programmes for the available channels. This information is only shown if your Service Provider transmits programme information (EPG information).
- P+ P-** To change channels up and down.
-  To change page in a menu/list/text if more than one page is available. To browse through teletext history.
-  To move up/down in the menus and to change channels.
-  To change settings in menus.
- OK** To confirm choices and selection of a highlighted item. To display the TV channel list.
-  (Red) At the moment, no function.
- OPTION** (Green) To select service options in viewing mode. See "Options".
- FREEZE** (Yellow) To select the freeze function. Press once to freeze the screen picture. Press any other key to go to normal mode again.
-  (Blue) To toggle between present and previous TV/Radio channels.



Rear Panel

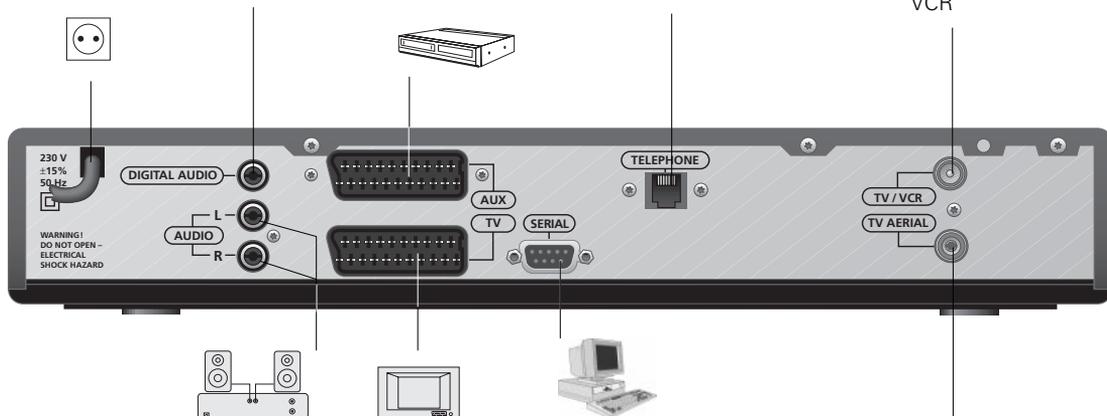
Mains lead
230 V AC
± 15%
50-60 Hz

**DIGITAL AUDIO
phono connector**
S/PDIF output for
connection to
a HiFi system

AUX SCART
for connection to a
VCR, or an analogue
satellite receiver

TELEPHONE
for modem
connection to
the telephone
wall socket

TV/VCR
for an RF-
cable to the
aerial input of
the TV or
VCR



**AUDIO L R
phono connectors**
Stereo outputs for
connection to a HiFi
system

TV SCART
for connec-
tion to the
TV

SERIAL PORT
to read and load
data information

TV AERIAL
for a terrestrial (con-
ventional) TV aerial or
an additional small
indorr antenna

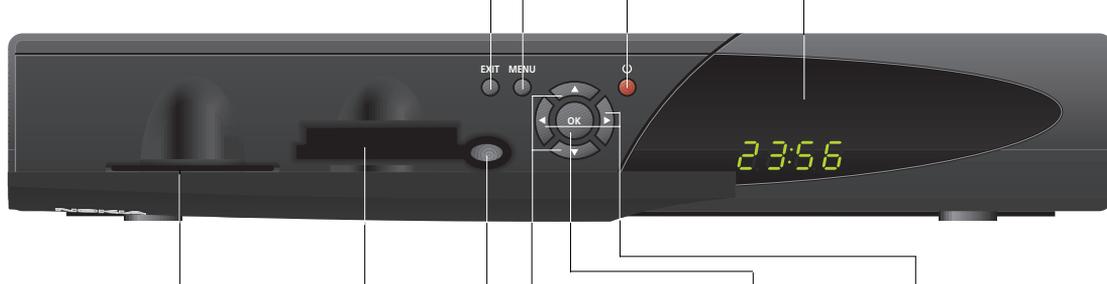
Front Panel

EXIT
to return from a
menu to normal
TV picture

MENU
to select
Main
menu

Power button
to put the
Mediamaster
in and out of
standby

Display
shows channel information,
error messages, remote control
commands and time in stand by
mode



Slot
for a Smartcard

Slot
for a CA
module with
a Smartcard

Button
for the CA
module
release

Navigation buttons
for several functions,
e.g selecting channels,
highlighting an option
within a menu or
scrolling through
channels

OK
for confirming
choices and
to display the
channel list

Left/Right arrow buttons
for selecting settings
in a particular menu

ABOUT THE SMARTCARD AND CA MODULE

To be able to receive terrestrial scrambled digital channels you will need a Smartcard from the Service Provider, "Senda".

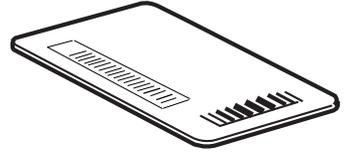
Senda is the programme distributor.

Please note that a Smartcard may only be valid for a single Service Provider and due to this, a specific range of channels.

The Smartcard and the CA module may also provide access to special menus not described in this manual. If so, please follow the instructions from the Service Provider.

Note: The Smartcard is distributed by your Service Provider.

After inserting the card, leave it in the slot permanently. Do not remove it again, unless your Service Provider asks you to do so. This is important, because if your Service Provider wants to download new information to the Smartcard, the card has to be in the slot.



Subscription TV Services with a Smartcard (Viaccess)

Only for subscription TV services coded with the Viaccess CA system.

- Insert your Smartcard fully into the **left** slot behind the lid of the front panel of the Mediamaster.
The gold chip should face **downwards and inwards**.



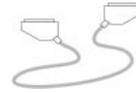
Note!

The gold chip must be on the **underside** and **inwards** of the **smartcard**

INSTALLATION OF THE MEDIAMASTER

The box for your Mediamaster should contain the following items:

- the Mediamaster
- a remote control with 2 AAA batteries
- a SCART lead (fully featured 1,0 metre)
- an aerial/RF lead (double screened 1,5 metres)
- a telephone modem cable (10 metres with a splitter)
- an Owner's Manual
- a Software License agreement



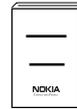
SCART lead



RF lead



Telephone modem cable



Owner's manual



License agreement



About the SCART sockets

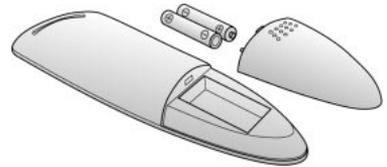
- The rear panel of the Mediamaster is equipped with 2 **SCART** sockets (see diagram). **When you connect other products to any of these sockets, always use fully featured SCART leads** (as supplied). There are "less well specified" SCART leads on the market and picture quality could be reduced if you use them.



SCART socket

Preparing the Remote Control

- Remove the cover on the battery compartment at the bottom of the remote control.
- Insert the 2 AAA (1,5 V) batteries, as shown in the diagram, taking care to observe the + and - markings indicated inside.
- Replace the cover.



Connecting to the TV aerial

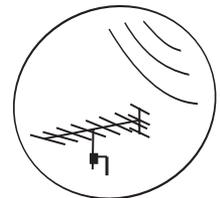
You can connect the Mediamaster to the following antennas:

1. Standard outdoor antenna

Where possible, use an outdoor roof antenna (UHF 21-69).

Please note the following:

- In some residential buildings, the communal roof-mounted antenna includes a filter and channel selector. If so, the antenna will probably not work with the Mediamaster. Please consult the property owner.
- Many older roof-mounted antennas can only receive a limited number of channels. As a result, digital channels transmitted on higher frequencies may be difficult to receive. The problem can be solved by replacing the roof antenna.

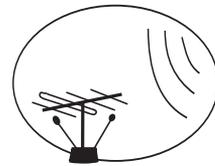


- Certain outdoor antennas are pointed at an analogue slave transmitter. The roof antenna should be pointed at a digital TV transmitter.
- It is not always advisable to position the antenna as high as possible. If problems arise, experiment with different antenna heights. The same applies to analogue transmissions.

2. Indoor or window-mounted antenna

This type of antenna may be enough if the reception conditions are very good. If an indoor antenna is used, please note the following:

- Use an antenna for UHF channels 21 - 69, such as a directional antenna.
- The directional antenna should have horizontal polarisation (preferably rotatable).
- Place the antenna by the window and point it towards the TV transmitter, if possible.
- An antenna with an amplifier is recommended as it may provide a stronger signal.
- Attenuation of the TV signal varies according to the building material. The signal penetrates thick stone or concrete walls poorly. A window improves reception. However, a wooden building is no barrier to digital TV signals.



About antennas

Radio and TV signals can be blocked by buildings, mountains and the terrain. If the receiver is located in a depression in the ground, behind a mountain or in a concrete building, the quality of reception may vary considerably.

Because the TV signal is amplified by reflections, reception is often better than with analogue reception and "ghost" images can be avoided. Reflection can even be used for reception by pointing the antenna at a mountain or a high building, providing that they do not block the transmitter.

As with analogue TV, weather can affect reception. This is the case particularly at the edge of the reception area for digital transmissions.

Connecting the Mediamaster

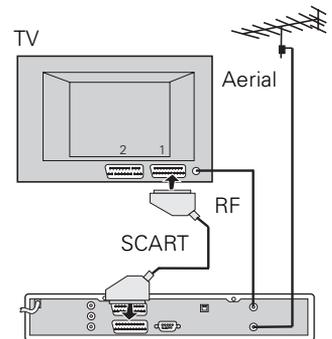
There are many different types of TV/VCR and other equipment that you can connect to the Mediamaster. In this manual you will see some of the most common ways to connect your equipment.

If you use RF leads you will have to tune your TV and VCR to the Mediamaster output channel (see page 12).

If you have problems with your connections and need help, contact **your dealer or Service Provider**.

Connecting the Mediamaster to the TV

- Connect a SCART lead between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect an RF lead from the TV/VCR output on the Mediamaster to the RF input socket on the TV.
- Connect the TV aerial to the TV AERIAL input socket on the Mediamaster (or use an indoor aerial).

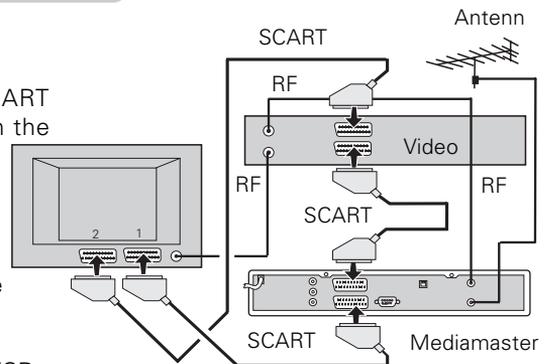


Connecting a TV and VCR

Refer to your VCR's manual for full instructions.

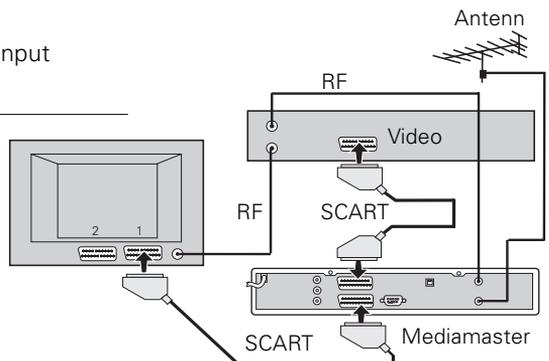
If your TV and VCR have two SCART-sockets

- Connect a SCART lead between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect a SCART lead between the VCR and the AUX SCART socket on the Mediamaster.
- Connect a SCART lead between the VCR and the second SCART socket on the TV.
- Connect an RF lead from the TV/VCR output on the Mediamaster to the RF input socket on the VCR.
- Connect an RF lead from the RF output on the VCR to the TV AERIAL input socket on the TV.
- Connect the TV aerial directly to the TV AERIAL input socket on the Mediamaster.



If your TV has a SCART-socket and the VCR has one SCART-socket

- Follow connection details from above, but without the 3rd SCART lead. Your VCR will then need to be tuned to the Mediamaster

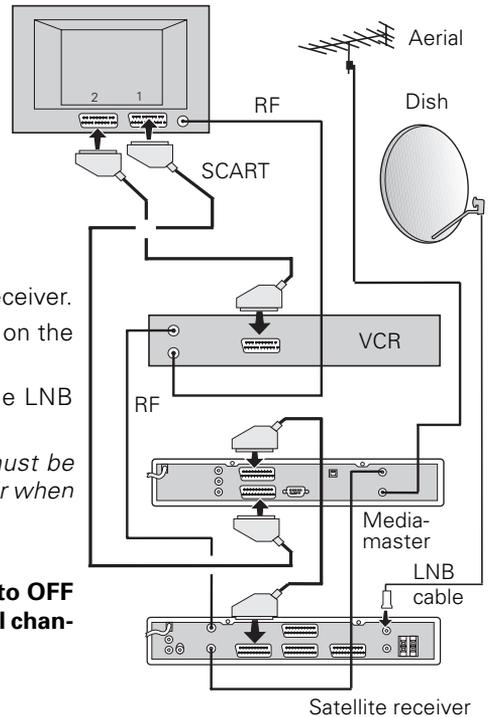


Connecting an Analogue Satellite Receiver and VCR

- Connect a SCART lead between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect a SCART lead between the TV SCART socket on the satellite receiver and the AUX SCART socket on the Mediamaster.
- Connect a SCART lead between the VCR and the 2:nd SCART socket on the TV (if available).
- Connect an RF lead from the RF output on the VCR to the TV aerial input on the TV.
- Connect an RF lead from the RF output on the satellite receiver to the RF input socket on the VCR.
- Connect an RF lead from the TV/VCR output on the Mediamaster to the RF input socket on the satellite receiver.
- Connect the TV aerial to the TV AERIAL input socket on the Mediamaster.
- Connect the coaxial cable between the LNB and the LNB socket **on the satellite (analogue/digital) receiver.**

Both the VCR and the analogue satellite receiver must be tuned to different UHF channels than the Mediamaster when using RF-connectors.

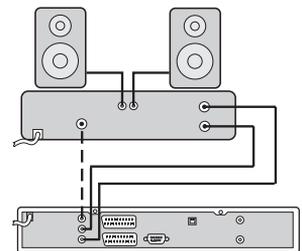
The analogue satellite receiver must be switched to OFF (standby) when you want to watch digital terrestrial channels from the Mediamaster.



Connecting a HiFi system

- Connect an RCA/Cinch stereo cable from the AUDIO L R sockets on the Mediamaster to the LINE, AUX, SPARE or EXTRA input sockets on your HiFi system.
- If available you can connect an RCA/Cinch single cable from the DIGITAL AUDIO socket on the Mediamaster to your HiFi or Dolby Pro Logic system.

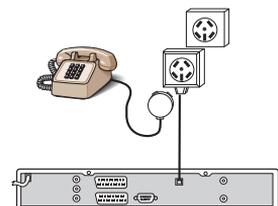
Note: To avoid interference you **must** use a screened audio cable.



Connecting to the telephone wall socket

You will be offered interactive services from your Service Provider. You may then need to connect the Mediamaster to the telephone line.

- Connect the telephone modem cable (supplied) from the TELEPHONE sockets on the Mediamaster to a telephone socket.



Tuning Procedure when RF Connections are Used

This procedure is necessary only if your Mediamaster is connected to the TV with an RF lead and no SCART leads are used

To tune your TV to the RF signal you might also need your TV manual in addition to this manual. The steps below explain what to do if you have been unable to use SCART leads in your connection.

- Plug in your Mediamaster.

Tuning your TV to the Mediamaster

- Select a channel number on the TV that is not currently used for other TV channels.
- Follow the instructions in your TV manual to tune the TV channel selector to UHF channel 43 (this is the Mediamaster's factory preset UHF channel). If you are already using this channel, select another non occupied UHF channel between 21 to 69 on the TV.
- If you need to change UHF channel you do as follows:
First you change on the Mediamaster. Use the ▼ or ▲ buttons on the front panel of the Mediamaster, or on the remote. You will see the UHF channel number displayed on the front panel of the Mediamaster. Then you tune the TV channel selector to the same UHF channel.
- When you have correctly changed the UHF channel number you will see the "Welcome" menu on the TV screen.
If there is interference from other channels you will have to change the chosen UHF channel.
- Follow the instructions in your TV manual to store this UHF channel as the channel used by your Mediamaster. You will have to select it when you want to watch terrestrial digital TV channels.
- Once the welcome message is visible, press the **OK** button on the Mediamaster's remote control to start the installation procedure.



If for some reason you have to change the RF channel later, you can do this by using TV settings menu further on in this manual.

If you have a VCR connected it must be tuned to a different UHF channel (between 21 to 69) than the Mediamaster.

You may now proceed to "First Time Installation."

FIRST TIME INSTALLATION

General Information

Once you have correctly connected the Mediamaster, you also have to perform a "First Time Installation." During this procedure, helpful information is displayed at the bottom of the menus.

Please note!

The **OK** button always **confirms** a selection within these menus, and pressing it will take you to the next step in the installation process. However, and this is important, often more than one value has to be entered in a menu. First, perform all necessary settings on the different lines. Then, confirm them all simultaneously by pressing **OK**.

You can always go back to the previous menu by pressing the **BACK** button.

Use the **▲ ▼** buttons to move upwards and downwards from one line to another. Use **◀ ▶** to change settings.

You can also use the numeric buttons on the remote control to select a line in a menu and to enter numeric values.

The Welcome Menu

This picture indicates that you have started the installation procedure.

- Change UHF channel number with **▼ ▲** (CH 43 is indicated on the front display of the Mediamaster). You only need to change the UHF channel if the channel is close and interfere with a transmitting analogue or digital channel in your area.
- Press **OK** on the remote control to start the Installation procedure.



Language

Select the desired menu language.
This will also be the main language for audio and subtitling.



FIRST TIME INSTALLATION

Channel Search

The Channel Search procedure can be performed in two different ways.

- “Automatic Search” or “Manual Search.”

Automatic Search

- Start the Automatic Search on the digital terrestrial network by pressing **OK**.



Manual Search

When you perform a Manual Search you first need to enter some parameters for the channel search to work.

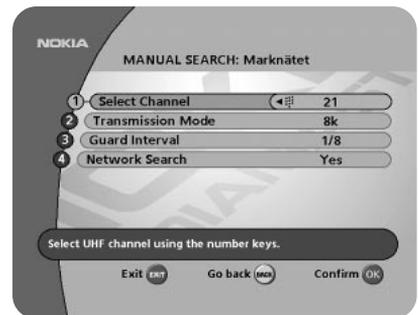
The information you need to enter in this menu is available from your Service Provider.

Select channel: Specify the UHF channel number between 21 to 69. If you enter the wrong figure(s), erase with the ◀ button.

Transmission Mode: Select 8k.

Guard Interval: Select the value as you want.

Network Search: Select “Yes” if you want to search on all frequencies in a specific network.



- Press **OK** to start searching for channels.

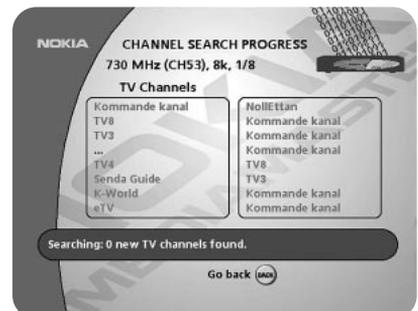
Channel Search Progress

In the Channel Search Progress Menu, you can start searching for terrestrial digital channels offered by the TV transmitter for which your antenna has been configured.

All TV channels found will be listed in a column on the screen. Please note that the search procedure may take a few minutes.

When the search procedure has ended, the screen will show how many TV channels have been found.

Press **OK** and continue to press OK until the channel number 1 shows on the front panel display. You will see the corresponding programme on the TV screen.



VIEWING MODE

General Information

The following describes the basic functions of your Mediamaster while watching terrestrial digital TV .

Some of the functions described here are dependent on the Service Provider and can only be used if they are included in the transmitted programme information.

Please note, that during the Channel Search procedure, the Mediamaster may download a large number of channels. This may include channels also those to which you do not have access unless you have a Smartcard.

If you select a programme to which you do not have access, you will get a message on the screen.

While viewing, the current channel number will be shown on the front panel display.

In addition to the normal functions like switching the Mediamaster in/out of stand-by, changing the volume etc. (ref. to the overview of the remote control) there are some other useful functions which will be explained in this part of the manual.

From this functions you can always go back to the previous menu by pressing the **BACK** button or return to TV mode by pressing **EXIT**.

Programme Information

Every time you change channels you will receive programme information for a few seconds. (In the "User Preferences" menu you can select how long this information will be shown.)

The information may include:

Current time.

Channel list.

Channel number and name.

Name of the current and next programme.

The start and total time of the current programme.

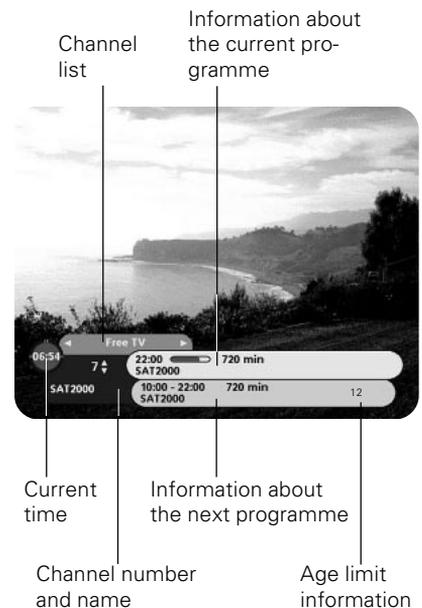
A bar, indicating the elapsed time of the current programme.

Recommended lowest age limit for watching the programme.

The start and total time of the next programme.

Programme information will only be available if it is included in the transmission. Otherwise a "No information available" message will be shown.

You may change channel lists with the ◀▶ buttons.



VIEWING MODE

The “i” (Information) Button

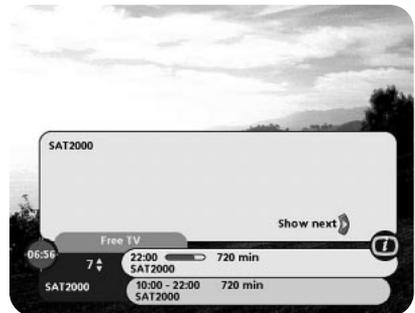
The Mediamaster has the ability to display information about programmes currently being broadcast as well as those being broadcast next.

By pressing the “i” button while watching TV you will get a special Programme Information Banner. Select channel with ▼ ▲ or the numeric buttons.

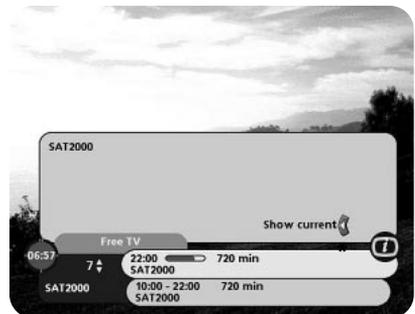
The “i” symbol is coloured blue when displaying information about the current channel, and red when information for another channel is shown.



- Press “i” again to get more information about the current programme.
- If a lot of information is available you can use the double arrow button to see the rest of the text.
- Press “i” a third time to return to TV mode.



- In this view, you can select to get information about the current and next programme by using the ◀ ▶ buttons.
- You can leave the menus at any time and return to viewing TV by pressing **EXIT**.



Guide

Press **MENU**. Select **GUIDE**. Press **OK** and you get access to the **Nokia EPG** which will give the titles of the current and next programmes on different channels.

Use the ▼ ▲ buttons to move the cursor to another programme. Use the ◀ ▶ buttons to get information about next programmes. Use the double arrow buttons to move a page at a time up and down.

When a line is highlighted, you can get more information about this programme by pressing the “i” button.

By pressing GUIDE in TV mode you get access to the EPG from Senda (if this information is transmitted in the signal).



VIEWING MODE

List of TV Channels

At the channel search procedure, a Channel lists named "Channels" containing all channels are created.

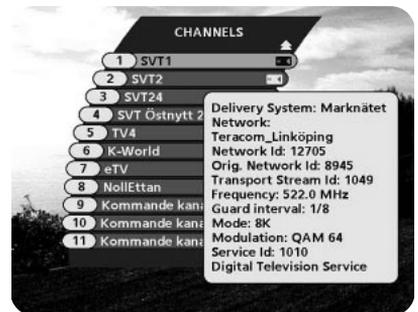
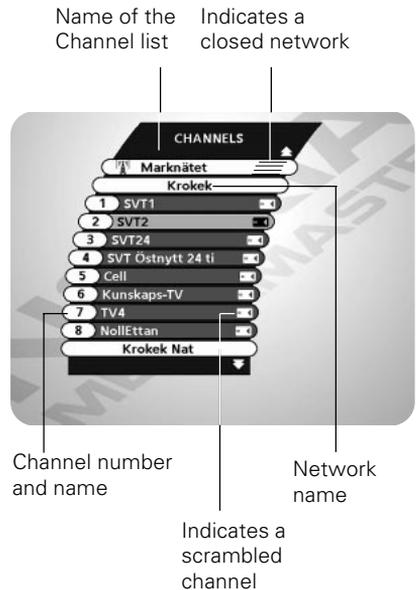
In the "Channels" list scrambled channels are marked with a picture of a Smartcard (if this information is transmitted in the signal) and locked channels are marked with a padlock.

If you have performed a new channel search the new channels found will be marked with a star in the "Channels" list.

When viewing TV you can access the Channel List by pressing **OK**. The channel list can also be selected from the main menu.

At the top of the menu you will see the name of the list. The current list is the one in which the channel you are watching right now is located.

- If the list contains a large number of channels, you can close networks to reduce the number of channels. You open/close a network by marking it and pressing . A closed network is indicated with .
- Change channel lists with .
- You can change channel by stepping with the buttons or enter the channel number with the numeric buttons on the remote control.
- To change one channel list page at a time, use the **double arrow** buttons.
- Press **OK** when a channel name is highlighted to start watching to it.
- You can also get more information about a marked (highlighted) channel by pressing the **"i"** button.



Options (Green Button)

By pressing the **OPTION** button, you open a menu in which it is possible to enter **temporary** settings. The menu will only appear if the programme contains any options to change.

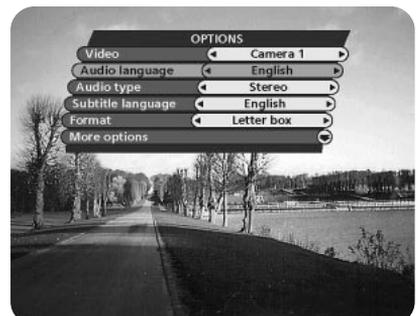
Settings made in this "options menu" are only valid for the programme you currently are watching. If you leave the programme and return to it again, the temporary settings will be gone.

Audio Language

If available, you can select among the different languages being broadcast.

Subtitle Language

If available, you can select among different subtitle languages. If you select "OFF", you will not get any subtitling at all.



VIEWING MODE

Format

If you have a TV set with a 4:3 picture format, and the transmission is in 16:9, you can select Fullscreen or Letterbox to change display format.

Fullscreen will fill up the screen vertically, but cut off some information from the left and right sides of the picture.

Letterbox will give a complete picture, but leave black areas at the top and bottom.

TV Release (0)

With the **0** button you can toggle between:

- digital terrestrial TV
- analogue terrestrial TV
- video (the video must be on)

(This is only valid if the units are connected via SCART cables, and not by a RF connection.)

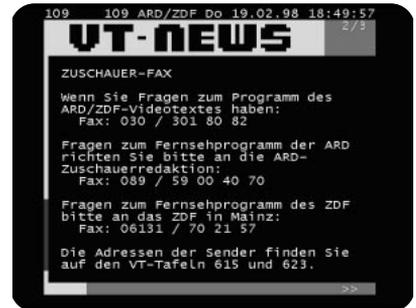


Video Recording

Please note, that during the recording of a programme, **everything** shown on the screen will be registered! For example, if you call up a menu from the Mediamaster on the screen, the menu will be recorded!

The TEXT Button (Teletext)

- Pressing the **TEXT** button will open a Teletext page (if Teletext is transmitted.) Select teletext pages with the numeric buttons on the remote control.
- You can also quickly step to the different page alternatives shown in any page by pressing ◀ ▶.
- Press **OK** on a selected number to go to that page.
- Press **EXIT, BACK** or **TEXT** to return to TV mode.
- The **"0"** button will show the index page (normally page 100.) ▲ ▼ will show the next or previous teletext page.
- You can use the **double arrow** buttons to browse through the pages you just have visited.



MAIN MENU

General Information

Many of the functions of the Mediamaster are available from the Main Menu.

- Press **MENU** to open it.



Channels

Please refer to "List of TV channels" on page 17.

Edit Channels

From these menus you can create and edit channel lists. You can, among other things, create favourite lists; add, delete, rename and arrange the order of the channels within the lists.

In the "All TV" list the channels are presented network by network. First the name "Marknätet" (terrestrial network). Then the name of the network (region/TV-transmitter) for which your antenna has been configured.

The "All TV" list can contain a lot of channels. By creating your own favourite lists you can make channel handling a bit more convenient.



Important when editing channels!

Changes in the Edit Channels menus always take immediate effect; it is not possible to cancel changes by pressing **BACK**!

MAIN MENU

Create list

From here you can create your own favourite lists, containing the channels you watch most frequently. You can give each list a specific name, e.g. "Sport" or "Films."

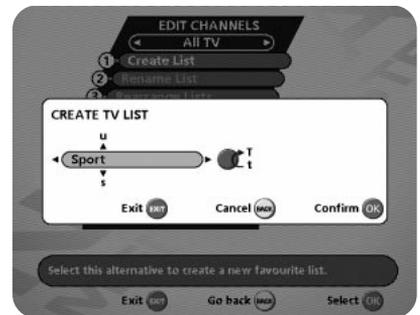
When a favourite list is selected, you see only those channels defined in the list.

When you have given the list a name; press **OK** and you will enter the "Select Channels" menu (see next page) from where you add channels to the list.

How to give a specific name

This procedure is the same whether you enter a name for the first time or change an existing.

- Move to a new character position by using ►.
- To delete the last character use ◀.
- Enter the characters one by one (A...Z, 0...9) by using ▼ ▲. To speed up the procedure a bit you can use the double arrow buttons to jump 3 letters at the time.
- Figures can also be entered with the numeric buttons on the remote control.
- The next letter will be shown above the current, and the previous below it.
- Toggle between capital and lowercase letters with the **blue button**.



Rename list

From here you can give an existing list a new name. Use the arrow buttons the same way as when you created the list.

Rearrange lists

If you have created several Favourite lists you can determine the sequence in which the lists will appear.

Delete list

If you want to delete a Favourite list completely, select the list and press **OK**.

MAIN MENU

Select Channels

From this menu you add and remove the channels in your Favourite Lists. You use the "All TV" list as basis to select the channels from.

A channel is added or removed by pressing the **OK** button. The square to the right on a line will be empty for removed channels, and will contain an "x" for added channels.

- If you have a Favourite list that contains several satellites and networks, you can close the one(s) you are not going to work with. You open/close a satellite or network by first marking it and then pressing .

A closed satellite/network is indicated with  on the line.

- Move to desired channel(s) with , , double arrows or the numeric buttons, and add/remove them by pressing **OK**.
- When you are ready, confirm the selections and leave the menu by pressing **BACK** or **EXIT**.



Lock Channels

To get to this menu you first have to enter your access code.

From here you can lock (and later unlock) channels in any of the lists in order to prevent e.g. your children from watching.

Select the channel you want to lock and press **OK**. Repeat the procedure for each channel you want to lock. When you lock a channel in any list, the channel will automatically be locked in all other lists.

A locked channel will be marked with a padlock symbol.

When watching TV, you will be asked to enter your access code before you can watch a locked channel.



Rename Channels

Within any of your favourite lists you can rename the channels.

Mark the channel you want to rename and press **OK**. The Rename dialogue box will then appear and let you modify the existing name.

To enter the new name, please follow the instructions under the headline "**How to give a specific name**" on page 20.

When you have changed a channel name, the new name will appear in all lists where the channel is included.



MAIN MENU

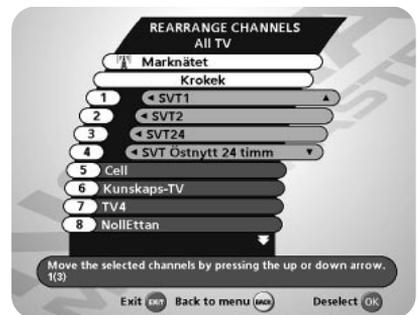
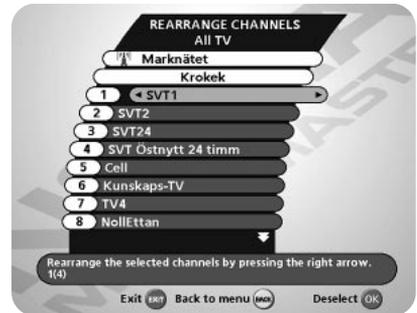
Rearrange Channels

From here you can arrange the sequence for the channels within your favourite lists.

- With ►, mark the channel you want to move to a new position within the list.
- Press ► again and the right side of the marked channel will change to ▼▲.
- Move the channel to the desired position with ▼▲ and press **OK**.

It is also possible to first mark several channels, and then move them all simultaneously.

- For each channel, press the ► button to add it to the set of marked channels.
- When a number of channels are marked this way and you want to move the whole set of channels, press ► again.
- The marked channels will now be put together into one group.
- The right side of the first and last marked channel will change to ▲▼ arrows respectively.
- Use the corresponding buttons to move the selected channels to a new position within the list.
- When the channels are in the position you want, press **OK**.



Delete Channels

From here, when the "All TV" list is selected in the "Edit Channels" menu, you can delete channels.

Please note. Channels deleted this way will be permanently deleted. The only way to get them back is to perform a new channel search.

To delete channels:

Mark the channel you want to delete and press **OK**. You will be asked if you really want to delete it. If so, confirm by pressing **OK** once more. If not, press **BACK**.



Remove Channels

From here, when the **a favourite list** is selected in the "Edit Channels" menu, you can remove channels from those lists.

Mark the channel you want to remove and press **OK**. You will be asked if you really want to remove it. If so, confirm by pressing **OK** once more. If not, press **BACK**.

Channels removed from a list this way are **not** permanently deleted. They are still available from the "All TV" list.



MAIN MENU

Guide

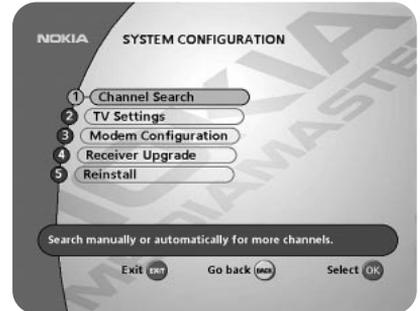
- Press **GUIDE** to get access to the receiver's EPG.
Refer to page 16.

System Configuration

You will be asked to enter your access code before you can open this menu. The code is preset to 1234 from the factory. (The code can be changed from the Parental Control menu. Refer to page 26.)

If you want to customize the system to suit you better, you can specify some settings from the submenus in the "System Configuration" menu.

Please note that many of these functions are the same as in the "First Time Installation."



Channel Search

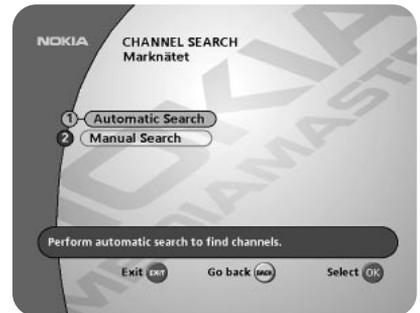
The Channel Search procedure can be performed in different ways. You can perform an Automatic or a Manual Search.

Automatic Search

Refer to page 14.

Manual Search

Refer to page 14.



MAIN MENU

TV Settings

From here you can adjust settings concerning your TV.

TV screen format

Select your TV screen format.

The 4:3 format is the standard format for most TV screens. Select 16:9 for a wide screen TV.

TV signal

If the teletext function does not work when watching channels from an analogue satellite receiver connected to the Mediamaster, change this setting from RGB to PAL.

RF channel

Select this alternative if you have to change the RF channel. If you change the RF channel number in the Mediamaster, you must also change it to the same value on the TV. If you do not, the picture will become black.

Always test the receiver and any units connected to it before changing the RF channel. Never use an RF channel number that is close to a transmitting channel (\pm one channel number) or that is used by any of the connected units.

RF modulator type

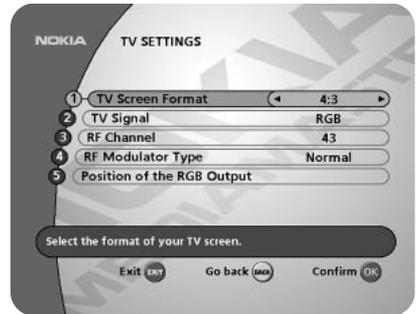
If the Mediamaster is connected to the TV by an RF lead, you can select the RF modulator type. The RF Modulator affects a channel's audio. If you get picture but no sound, the RF modulator selection might be wrong.

Select **UK (PAL I)** if the Mediamaster is used in the UK.

Select **Normal** if it is used elsewhere.

Position of the RGB output

Adjust the horizontal position of the TV picture with the \blacktriangleleft \blacktriangleright buttons. (The "TV signal," see above, must be set to RGB for this function to work.)



The RF channel number will be indicated on the front display of the Mediamaster.

Modem Configuration

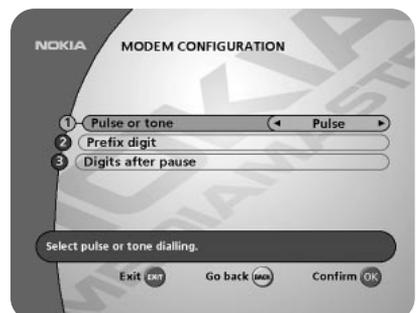
When you connect the Mediamaster to the Telephone net via the built-in modem specify the necessary settings in this menu.

Pulse or tone: Select the alternative which is valid for your system. If you are unsure, contact your telephone distributor.

Prefix digit: If the connection goes via a switchboard, select the digit which opens the line.

Digits after pause: Possibility to add a pause between the country prefix and the ordinary number by long-distance calls. (This function is not necessary by modern switchboards).

In the future it might be possible to perform electronic transactions such as: Pay Per View (PPV), Home Shopping, Programme-voting and Banking etc. via the built-in modem.



MAIN MENU

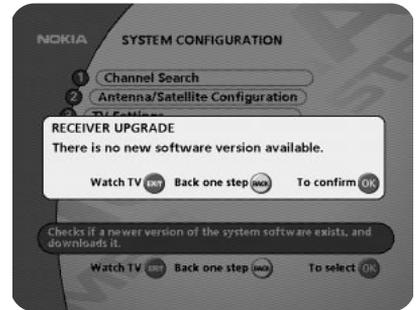
Receiver Upgrade

In order to keep the Mediamaster up-to-date, it will be possible to download new versions of the system software via satellite and from the Internet. New software may include new or improved features for existing menus.

Enter this menu to check for new software. If new software is available you will get information in the menu on how to proceed. If you download new software from "Nokia Internet Pages", you transfer the software from the computer to the Mediamaster via the serial port.

IMPORTANT! Updating via satellite may take a while. The front display will indicate the percent left to download.

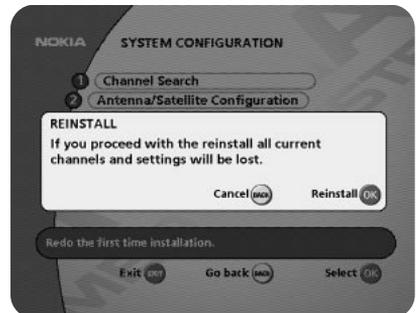
NEVER turn off the Mediamaster, never use the remote control or disconnect the antenna/LNB cable during the download procedure! This can damage the software and the receiver will have to be sent in for service!



Reinstall

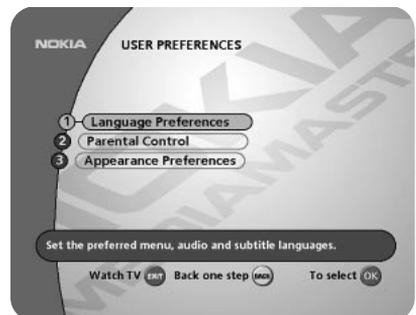
Use this option **only** if you have to start the complete installation procedure from scratch. If you continue from here, **all** your previous settings, parental code and favourite channels etc. will be erased!

If you do not want to change any settings you can leave this menu when the warning is displayed by pressing BACK.



User Preferences

From here you can change the menu language. You also have access to the Parental Control and the Appearance menus.



Language Preferences

Menu Language

Here you may select which language the menus will be shown in.

Main and Alternative audio language

If more than one audio language is transmitted, you may select the main and an alternative language.

Subtitles

If you select the "Visible" alternative for subtitling and more than one language is available, you may select a main language and an alternative.



MAIN MENU

Parental Control

To open this menu you will be asked to enter your access code.
From the factory the access code is set to 1234.

The following settings can be altered from this menu.

Receiver lock

If you select "On," you will have to enter the access code every time you start the Mediamaster from stand-by.

Age Rating Control

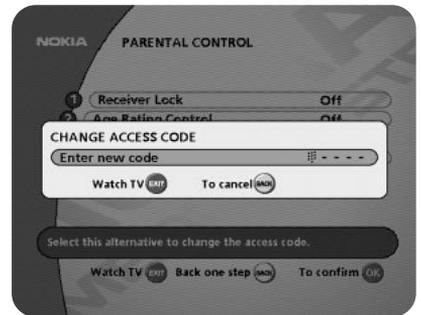
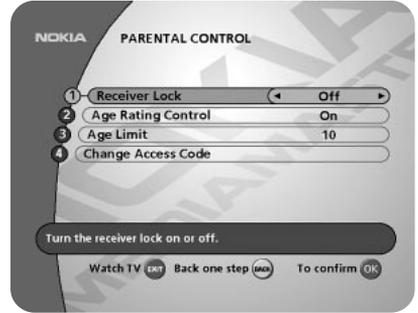
If you want everybody to have access to all available types of programmes, select "Off."

If you select "On," you may block programmes unsuitable for children. Select an age limit between 4 and 18 years on the line that appears.

However, you should be aware that not all Service Providers have the necessary codes for these functions implemented in their transmissions.

Change access code

From here you can change the access code from the standard 1234. **DO NOT FORGET IT!** Without it you do not have access to any of the functions where the code is required!



Appearance Preferences

Banner time-out

When you switch channels, an information banner will be shown for a few seconds. You can select for how long the banner will be shown.

Volume bar

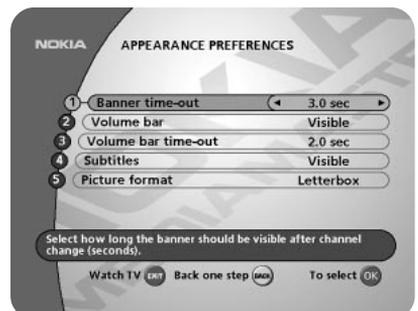
Select whether or not you want the volume bar to appear on the screen when you change the volume.

Volume bar time-out

Select how long the banner will be visible on the screen.

Subtitles

Select whether or not subtitles will be visible on the screen.



MAIN MENU

Picture format

If you have a TV set with the 4:3 picture format and the transmission is in 16:9, you can select Fullscreen or Letterbox.

Fullscreen will fill up the screen but cut off some information on the left and right sides.

Letterbox will give a complete picture, but leave black areas at the top and bottom.



'fullscreen format'



'letterbox format'

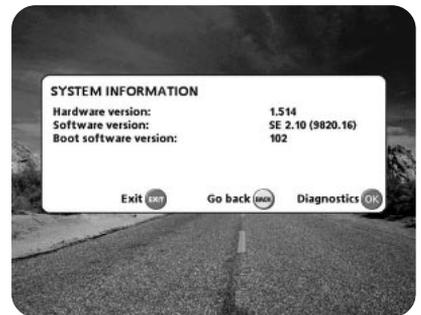
System Information

If you have to contact your service provider or a service center, they might ask for information available from this menu. Therefore, it is important that you first check the information in the following menus.



System Information

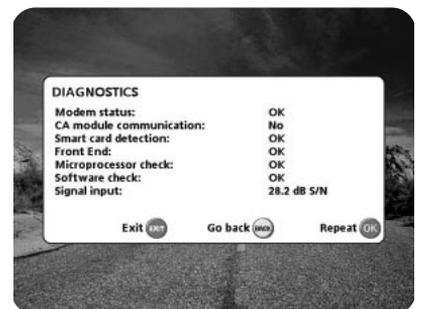
This gives general information about which hardware and software version your Mediamaster is running on.



Diagnostics

To find out the condition of certain parts of the Mediamaster, you can run a diagnostic test.

The signal input (strength) is measured in signal-to-noise ratio and will normally give picture and sound if the value is over 18 - 20 dB. In bad weather, atmospheric disturbances or other interferences in the transmission, the signal strength should be higher.



MAIN MENU

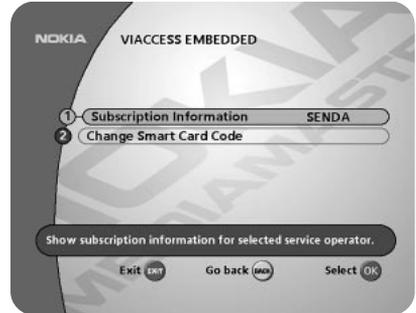
Conditional Access

This menu will only be activated if you have inserted a valid Smartcard/CA module in the slot behind the front lid.

If more than one CA system is activated, select the one from which you want information.

The Viaccess Conditional Access (CA) System is embedded in the Mediamaster. A Smartcard that supports this standard can be used in the left slot on the front panel.

Different CA modules (with their Smartcards) supporting the DVB Common Interface (CI) standard can be used in the right slot.



Viaccess embedded

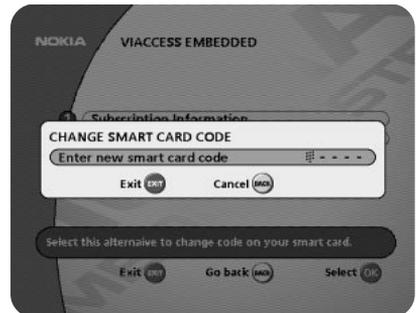
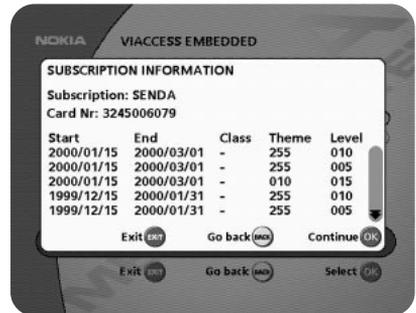
In this menu you select Subscription information or Change Smart Card Code.

Subscription information

In this menu you get subscription information from a Smartcard supplied by a Viaccess Service Provider.

Change Smart Card Code

In this menu you can change the code on your Smartcard.



GLOSSARY OF TERMS

Access

Authorisation to use the coding system to purchase / order TV programmes.

Audio system

With digital satellite reception, the sound is transmitted in packages and is selected either in a special audio mode or pre-selected by using the installation set-up. This makes it possible to select between several different languages in a film. The number of choices is dependent on what is available in the signal.

CA

Conditional Access. A system to control subscriber access to services, programmes and events.

CA module

A device for the decoding of scrambled signals.

Common Interface

Describes a DVB standard hardware and software architecture for Conditional Access systems.

DVB

The Digital Video Broadcast group was created to establish a technical framework for the introduction of digital video broadcasting systems.

EPG

Electronic Programme Guide. A software that enables viewers to navigate easily among the large number of channels provided by digital technology, in order to select the service they desire.

Mediamaster

A unit that converts the digital terrestrial signals into audio and video signals. The audio and video signal can be sent to the TV set either via SCART or via RF (modulator output).

MHz

The prefix mega means million, and Hertz means cycles per second.

MPEG

Moving Picture Experts Group. Body established by the International Standards Organisation to provide the basis for a picture coding and compression system.

Network

A number of digital channels transmitted from one source. Grouped under separate headings in the channel list.

OFDM Orthogonal Frequency Division Multiplexing. Modulation method used in digital terrestrial networks in Europe.

PCMCIA

Personal Computer Memory Card International Association. The Common Interface slot follows this standard.

Parental control

A feature that allows parents to "lock" programmes that they consider unsuitable for children. A "locked" channel or programme can only be "unlocked" with the special parental access code.

Parental Access code

A four-digit code stored in the Mediamaster. Used to lock the Mediamaster.

PIN code

Personal Identification Number. A four-digit code stored in the Smartcard. For PPV (Pay Per View) or other services together with the subscription.

PPV Pay Per View. Booking TV programmes in advance by calling up your Service Provider.

RF

Radio frequency (known as HF in some countries).

SERIAL RS 232

A serial communication standard data port.

SCART

A 21-pin connector used for connection of the Mediamaster, VCR and TV. Also named Euroconnector or Peritel connector.

Scrambled satellite TV programme

Some satellite TV programmes are transmitted in scrambled form. A Smartcard, and possibly a CA module, will be needed to view such programmes.

Service provider

Is a company that collects a number of programmes/services and distributes them to customers.

S/PDIF

Sony/Philips digital interface format. Digital audio output.

SW

Software. Programme code.

VCR

Video Cassette Recorder.

PROBLEM SOLVING

Problem	Possible causes	What to do
The display on the front panel does not light up/is not lit.	Mains cable is not connected.	Check that the mains cable is plugged in to the power socket.
No sound or picture, but the front panel shows the time or --:--.	The Mediamaster is in standby mode.	Press the standby button or any number button to bring the Mediamaster out of standby.
Bad picture/blocking error.	Signal too weak.	Check if the aerial works for analogue reception.
The front panel shows a channel number, but you can't see anything from digital TV.	<p>The Mediamaster is not set in TV mode.</p> <p>The SCART connection has been made wrong or your TV has not selected the correct AV/EXT channel.</p>	<p>If your system is connected by SCART leads, press 0. If this does not work, set the TV to its appropriate AV input. If your system is connected only by RF leads, set your TV to that channel you have tuned for digital terrestrial TV.</p> <p>Check SCART connections, making sure leads are firmly pushed into the sockets. Try manually selecting the AV/EXT channel on your TV.</p>
When the Mediamaster tries to find and store channels during the first installation, a message 'no channels found' is displayed or some channels are missing from the channel list.	<p>The aerial is not properly connected to the Mediamaster.</p> <p>The aerial is not pointing in the right direction.</p> <p>The aerial is not suitable for digital channels.</p> <p>The indoor aerial is not enough.</p> <p>There are no digital transmissions.</p>	<p>Check the aerial connector and the aerial installation.</p> <p>Check if you can see the analogue channels.</p> <p>Check that the aerial is pointing in the right direction.</p> <p>Check that the digital transmissions are available in the area.</p>
Pressing "0" does not switch between a digital channel and an analogue channel.	<p>The system is not connected by SCART leads.</p> <p>The system is RF connected but the TV is not tuned to its channel for digital terrestrial TV.</p>	The TV Release function (0) will only work for SCART connected systems.
There is interference on your digital terrestrial channels, an existing terrestrial channel or video channels.	The system is connected by RF leads and the output channel of the Mediamaster interferes with an existing terrestrial channel or video channel.	Change the Mediamaster output channel to a more suitable channel between 21-69. Or connect the system by SCART leads.
You can't find all the channels you think should be available.	<p>The signal to your aerial may be weak.</p> <p>Your aerial may need adjusting or your local transmitter may not be working.</p>	<p>Try retuning your Mediamaster, following the relevant steps in this manual. If you are still missing channels, your aerial may need adjusting.</p> <p>Contact your dealer or Service Provider. They will check this for you.</p>
There is no Welcome menu on the screen after you switched on the Mediamaster for the first time.	<p>The system is connected by SCART leads and the TV is not in AV/EXT mode.</p> <p>The system is connected by RF leads and the TV is not set to the channel tuned for digital terrestrial TV.</p>	<p>If the system is connected by SCART leads, switch the TV to appropriate AV input.</p> <p>If the system is connected by RF leads, switch the TV to the channel for digital terrestrial TV. If you have not manually tuned in the TV you may do this first. Please look in the TV manual for instructions.</p>

PROBLEM SOLVING

Problem	Possible causes	What to do
You made a video recording of a digital terrestrial channel and whole or parts of the programme was not recorded.	<p>The Mediamaster was not left on the appropriate channel.</p> <p>The system is connected by SCART leads and the VCR is not in AV/EXT mode.</p> <p>The system is connected by RF leads and the VCR is not set to the channel tuned for digital terrestrial TV.</p>	<p>If you make a recording of digital terrestrial TV your Mediamaster has to be left on the channel you like to record.</p> <p>If the system is connected by SCART leads, switch the VCR to appropriate AV input.</p> <p>If the system is connected by RF leads, switch the VCR to the channel for digital terrestrial TV. If you have not manually tuned in the VCR you may do this first. Please look in the VCR manual for instructions.</p>
The remote control is not working.	<p>Battery exhausted.</p> <p>Remote control is incorrectly aimed.</p> <p>The Mediamaster is in standby mode.</p>	<p>Change the batteries (both).</p> <p>Aim the remote control at box.</p> <p>Check that nothing blocks the front panel.</p> <p>Check if (.) is flashing on the front panel display when you press a button. If not replace the batteries (both).</p>
You see the on-screen message. Viewing card faulty.	The Mediamaster can't recognise your smartcard.	<p>Check that you are using the proper Smartcard. Check that the Smartcard has been correctly inserted. If the problem persists, you may have a problem with the card.</p> <p>Contact your dealer or Service Provider.</p>
You have forgotten your secret PIN code.		Contact your Service Provider. They will help you set it up again.
CA Module is not working.	<p>CA module is not installed.</p> <p>CA module is not correctly inserted.</p>	<p>Check that the CA module has been correctly inserted.</p> <p>Contact your dealer or Service Provider.</p>

Please note! The first thing to do before sending the Media-master to service is to:

1: Perform "Diagnostic" procedure in System Information menu.

2: Try downloading new software into the Mediamaster. With this procedure, the new software may solve the problem in the quickest and most efficient way. See the relevant section "Receiver Upgrade" further on in this manual.

What to do if you can't solve the problem

If you have tried all of the actions suggested above, without solving the problem, please contact your dealer or Service Provider.

FRONT PANEL DISPLAY

	When power-up, boot version, product family and system software version is shown.		In TV mode.
	When starting from standby, product variant and system software version is shown.		In video mode.
	Remaining time in percent during the download procedure.		When downloading new software via the air.
	The Mediamaster is in standby mode, and current time is shown.		When downloading new software via the Serial RS232 socket.
	Channel number in TV mode.		Error messages. For service personnel
	RF channel in tuning mode.		Lights when no signal is being received. Flashes when pressing a button on the remote control.

TECHNICAL SPECIFICATIONS

Transmission Standards

DVB, MPEG 2

RF input (OFDM)/Modulator output

Loop through output

Input/output connector IEC female / IEC male
 RF input frequency 470 to 862 MHz
 RF input power level -77 dBm
 RF impedance 75 Ω
 Frequency range Loop through 47 to 864MHz
 Frequency range Re-modulator 470 to 862 MHz
 Output channel UHF CH 21-69
 Preset channel 43
 Output signal PAL B/G

TV SCART

Video output 1 V_{pp} (± 1 dB) / 75 Ω
 Audio output 0,5 V_{rms} / R_L >10 k Ω
 RGB output Internal RGB or from AUX SCART
 RGB bandwidth 5,8 MHz ± 3 dB
 Fast blanking output Internal or from AUX SCART
 Status output 0/6/12 V / R_L 10 k Ω

AUX SCART

Video output 1 V_{pp} (± 1 dB) / 75 Ω
 Video input 1 V_{pp} / 75 Ω
 Audio output 0,5 V_{rms} / R_L >10 k Ω
 Audio input 0,5 V_{rms} / R_L >10 k Ω
 Status input 0/6/12 V / R_L >10 k Ω
 Fast blanking input 0/2 V for RGB, bypass to TV SCART
 RGB input Yes

DIGITAL AUDIO (S/PDIF)

Connector 1 x RCA

AUDIO R L

Connector 2 x RCA (R+L)
 Output 0,5 V_{rms} \pm 0,5 dB / R_L 10 k Ω

SERIAL (RS 232) Serial data

Connector 9-pin D-sub male
 Signals RS232, max. 115,2 kbit/s
 Pin 1 DCD (Data carrier detect) not connected
 2 RXD (Receive data)
 3 TXD (Transmit data)
 4 DTR (Data terminal ready) Set to high
 5 GND (Signal ground)
 6 DSR (Data set ready) not connected
 7 RTS (Ready to send)
 8 CTS (Clear to send)
 9 RI (Ring indicator) not connected

TELEPHONE Return channel, Telephone line

Connector Modular jack 6-pin
 Protocol V32 bis, 14400 baud

Conditional access system:

Embedded Viaccess and PCMCIA one interface for a Common Interface CA module (DVB Standard).

Smart Card Interface:

Interface for one card according to ISO 7816
 Supports embedded descrambler Viaccess.

Front panel

4x7 segment numeric LED display,
 Buttons: \odot , \blacktriangledown , \blacktriangle , \blacktriangleleft , \blacktriangleright , OK, EXIT, MENU.

General data

Article code The model code, variant and serial number, are located on a label on the underside of the housing.

Supply voltage 230 V AC $\pm 15\%$, 50-60 Hz
 Power consumption max 15 W
 Power consumption in standby 5,5 W
 Operating temperature +5° C to +45° C
 Storage temperature - 40° C to +65° C
 Humidity 25 to 90 % rel humidity
 Operating distance for remote control max 10 meters
 Dimensions (w x d x h) 380 x 240 x 65 mm
 Weight 1,8 kg approx

SCART-sockets

	TV	AUX
1	Audio out right ch.	Audio out right ch.
2	-	Audio in right ch.
3	Audio out left ch.	Audio out left ch.
4	Audio ground	Audio ground
5	RGB blue ground	RGB blue ground
6	-	Audio in left ch.
7	RGB blue signal out	RGB blue signal in
8	Switch voltage out	Switch voltage in
9	RGB green ground	RGB green ground
10	Connect to pin 10 in AUX scart	
11	RGB green signal out	RGB green signal in
12	-	-
13	RGB red ground	RGB red ground
14	Fast blank. ground	Fast blank. ground
15	RGB red signal out	RGB red signal in
16	Fast blanking out	Fast blanking in
17	Video out ground	Video out ground
18	-	Video in ground
19	Video out	Video out
20	-	Video in
21	Ground (casing)	Ground (casing)

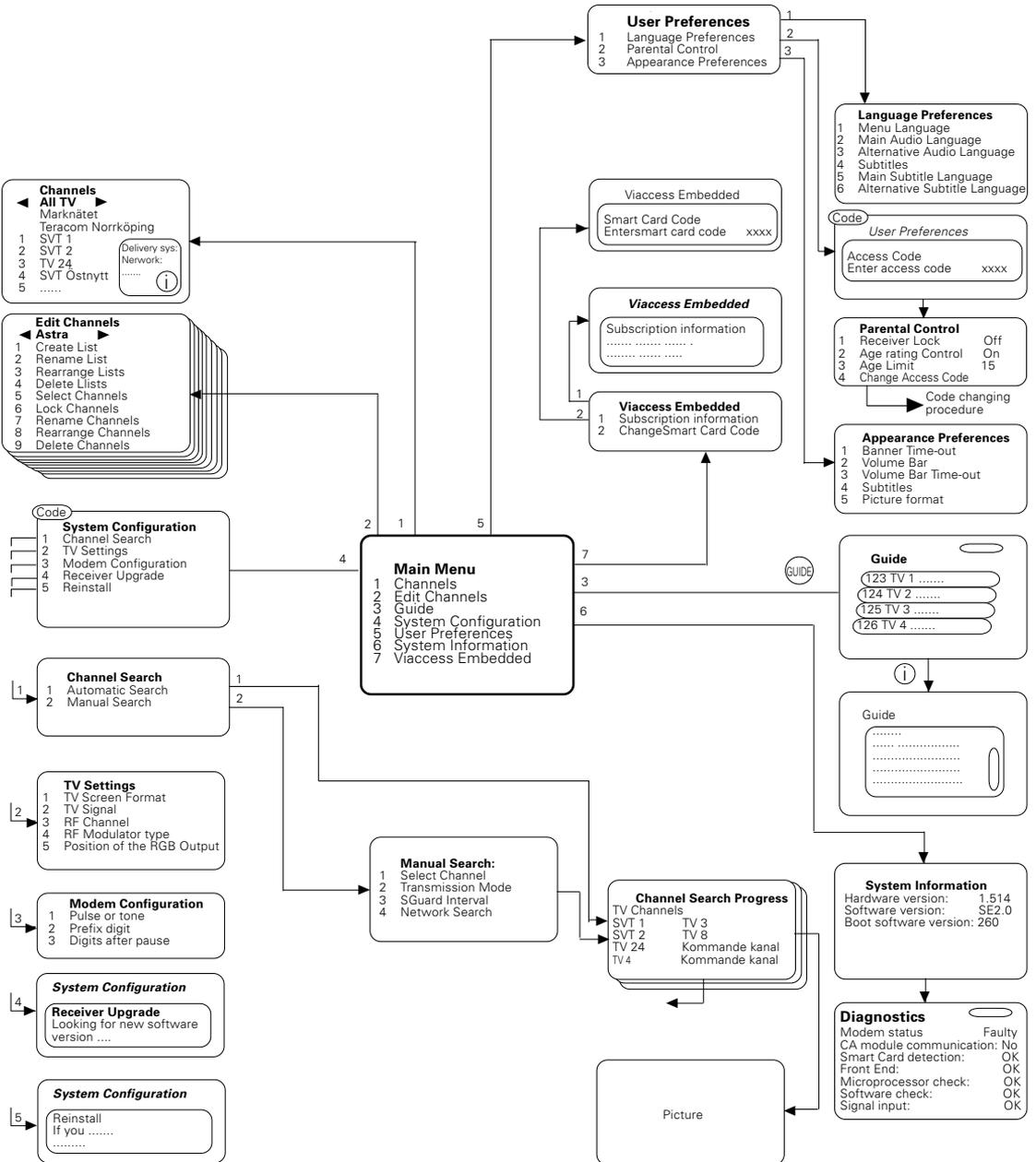


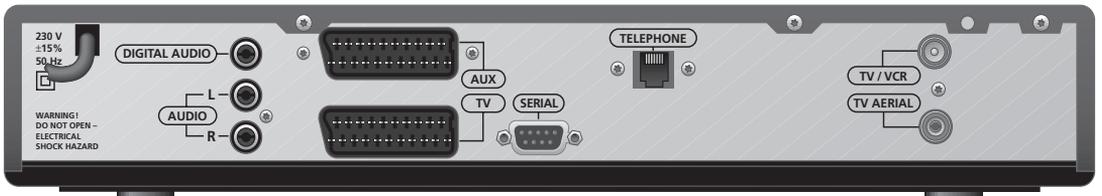
MENUS SCREEN STRUCTURE

First time installation



Main Menu





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