Owner's Manual

MEDIAMASTER
9902 S

NOKIA
CONNECTING PEOPLE

SE
Nokia intygar härmed att denna digitala mottagare, Mediamaster 9902 S, uppfyller kraven enligt direktiv 1999/5/EC.
Denna mottagare kan anslutas till ett analogt telefonnät (Public Switched Telephone Networks , PSTN), under förutsättning att uppkoppling sker enligt tonvalsprincipen DTMF (Dual Tone Multiple Frequency).

DK
Nokia erklærer hermed, at denne digitale modtager, Mediamaster 9902 S, er i overensstemmelse med væsentlige krav og andre relevante bestemmelser i direktivet 1999/5/EC.
Dette terminaludstyr er beregnet til tilslutning til det analoge, offentlige telefonnetværk (Public Switched Telephone Networks (PSTNs)), hvor netværks-adressering - hvis det udbydes - foregår vha. DTMF-signalering (Dual Tone Multiple Frequency).

NO
Nokia erklærer herved at denne digitale mottakeren, Mediamaster 9902 S, er i overenstemmelse med vesentlige krav og andre relevante bestemmelser i EU-direktivet 1999/5/EC.
Dette terminalutstyret er beregnet på tilkobling til Det offentlige tilgjengelige telenettet (PSTN), hvor nettverksadressering, hvis tilgjengelig, utføres ved hjelp av Avanserte funksjoner for toneoppringing (DTMF).

FI
Nokia toteaa, että sen Mediamaster 9902 S - digitaalivastaanotin täyttää direktiivin 1999/5/EY olennaiset vaatimukset ja laitteeseen sovellettavat määräykset.
Tämä päätelaite on tarkoitettu liitettäväksi yleiseen kytkentäiseen puhelinverkkoon (PSTN). Jos käytössä on verkko-osoitteiden käsittely, se perustuu äänitaajuusvalintasignalointiin (DTMF).

GB
Hereby, Nokia declares that this digital receiver, Mediamaster 9902 S, is in conformity with essential requirements and other relevant provisions of Directive 1999/5/EC. This Terminal Equipment is intended for connection to the analogue Public Switched Telephone Networks (PSTNs), in which network addressing, if provided, is by means of Dual Tone Multiple Frequency (DTMF) signalling.

NOKIA

Declaration of Conformity

Manufacturer:	Nokia Corporation through its unit Nokia Home Communications
Address:	Keilalahdentie 4, FIN-02150 Espoo, Finland
	Declares that the product
Product:	Multimedia Terminal 9902S
	is in conformity with the following Directives and Standards
Directives:	73/23/EEC 93/68/EEC 89/336/EEC 1999/5/EC
Standards:	EN 50081-1:1992 EN 50082-1:1997 EN 55013:1990 + A12 + A13 EN 55020: 1994 + A11 EN 55022: 1998 (class B) EN 60065: 1998

Linköping, 7th May, 2001

Nokia Home Communications

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MEDIAMASTER 9902 S

Contents

GENERAL INFORMATION ABOUT 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.

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 note: 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" in this manual.

FOR YOUR SAFETY

- Allow 10 cm space around the Mediamaster for sufficient ventilation.
- Do not cover the Mediamaster's ventilation openings with items such as newspapers, tablecloths, curtains etc.
- Do not place the Mediamaster on top of a unit that emits heat.
- Do not place naked flame sources, such as lighted candles, on the Mediamaster.
- Use a soft cloth and a mild solution of washing-up liquid to clean the casing.
- Do not expose the Mediamaster to dripping or splashing liquids.
- Do not place any objects filled with liquids, such as vases, on the Mediamaster.

- To give your Mediamaster an extra protection, e.g. at a thunderstorm, we recommend that you connect it via an external surge protection device.
- 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 cable!

IMPORTANT INFORMATION IN THE EVENT OF SERVICE

If you have to leave the Mediamaster for service, please be aware of the fact that Nokia is not responsible for returning, replacing or keeping the contents on the hard disk.

This also applies to all other settings, e. g. the first time installation and favourite lists etc.

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.

 ⏻   Switch the Mediamaster in and out of standby mode.

EXIT TV Return to the viewing mode from a menu without storing any settings (in menu mode).
      ♫ Switch between TV or Radio mode (in viewing mode).

 🔇   Turn the sound off/on (mute).

 ◢ **- +**   Adjust the volume of digital programmes.
      The Mediamaster's maximum level is controlled by the TV's present volume setting.

0 - 9   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/Radio, analogue TV and analogue satellite TV and VCR, when your systems are connected by SCART cables.

 i   Info. To display short and extended information (if transmitted) about current and next programmes.

BACK   Go back one level at the time within menus without storing any settings.

pad   Personal Active Disc. Call up (and hide) the recording menu on the screen. For recording to the built in hard disk.

MENU   To show and to exit from the Main Menu.

GUIDE   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-   Change channels up and down, one at the time.
      Return to TV mode from an "Open TV" application.

 ◨◩   Change page in a menu/list/text if more than one page is available. To browse through teletext history.

 ▲ ▼   Move up/down in the menus and to change channels.

 ◄ ►   Change settings in menus.

OK   Confirm choices and selection of a highlighted item.
      Show the TV/Radio channel list.

 ▫   (Red) Download an "Open TV" application.

OPTION (Green) Select service options in viewing mode.
      OPTION + code will open locked channels.

TEXT   (Yellow) Select teletext information.
      Press to enter teletext (if available).

 ↻   (Blue) To toggle between present and previous TV/Radio channel.

FRONT AND REAR PANEL

Front panel

Button
Push the button to release an inserted CA module

Display
shows channel number, error messages, remote control commands and time in standby mode

2 3:5 6

Slot
for a Viaccess Smartcard

Slot
for a CA module with a Smartcard

⏻
to put the Mediamaster in and out of standby mode

▼ ▲
to move up/down in the menus and to change channels.

Rear panel

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

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

TELEPHONE *
for connection of a modem cable to the phone jack

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

ANTENNA * *
Satellite dish input (F-connector)

95-250 V
50-60 Hz

WARNING!
DO NOT OPEN –
ELECTRICAL
SHOCK HAZARD

DIGITAL AUDIO

AUDIO L R

AUX
TV SERIAL

TELEPHONE

TV / VCR
TV AERIAL

13/18 V
500 mA
ANTENNA

Mains lead
95-250 V AC 50-60 Hz

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

TV SCART
for connection to the TV

SERIAL PORT
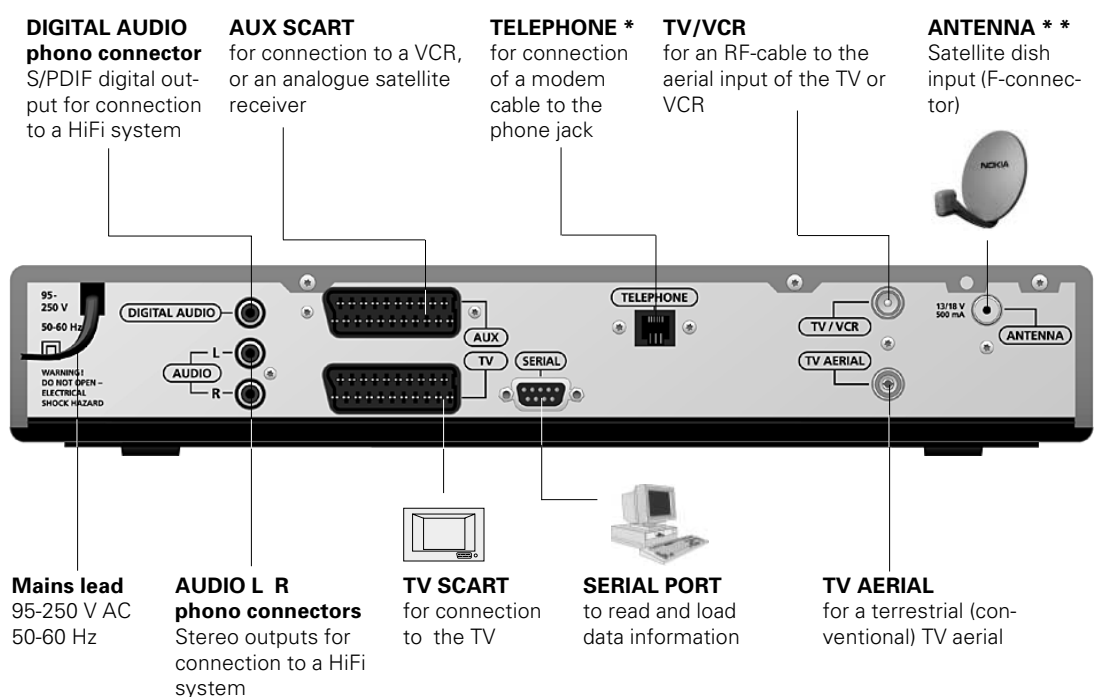to read and load data information

TV AERIAL
for a terrestrial (conventional) TV aerial

* The modem function is only valid in Scandinavia.

* *The LNB cable also feeds the LNB with a supply voltage of 13/18 V (V/H polarisation) and a 0/22 kHz signal (bandswitch). Max LNB current is 500 mA.

ABOUT THE SMARTCARD AND CA MODULE

To be able to receive scrambled digital satellite channels you will need a Smartcard and/or a Common Interface CA (Conditional Access) module***** from the Service Provider of your choice.

The Service Provider is the programme distributor.

If you are subscribing to services from more than one Service Provider, you might have to change between different Smart-cards and/or CA modules.

Please note that a Smartcard and CA module 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.

Only "free to air" channels are available without the Smartcard and/or the CA Module.

Note: The Smartcard and/or the CA module are 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.

* Only use a DVB Standard Common Interface CA Module
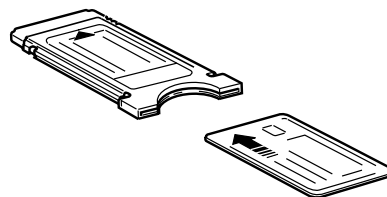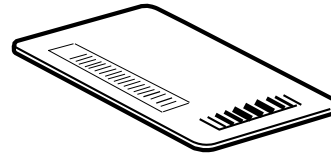
Viaccess smartcard

Only for services coded with the Viaccess CA system.

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

CA module with its smartcard

• Follow the instructions from your Service Provider how to in-sert the CA module and the belonging smartcard

• Insert the CA module fully into the slot behind the lid of the front panel of the Mediamaster.

• Press the grey button on the front panel if you need to remove the CA module.

PIN Code

The Smartcard is loaded with a 4-digit code, also called a PIN code (Personal Identification Number).

The code is essential in order to access future services offered by the Service Provider.

INSTALLATION OF THE MEDIAMASTER

The box for your Mediamaster should contain the following items:

- the Mediamaster
- remote control with 2 AAA batteries
- SCART cable (fully featured 1,0 metre)
- aerial/RF cable (double screened 1,5 metres)
- owner's manual and software license agreement

SCART cable   RF cable

Remote   Owner's manual,
control   License agreement
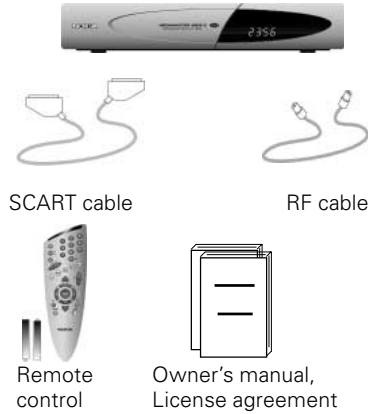
About the SCART sockets

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 cables (as supplied). There are "less well specified" SCART cables 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.
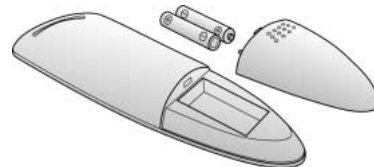
Connecting the Mediamaster to the dish

If you need to fit the F-connectors onto the cable

- Prepare each end of the cable as shown in the diagram. You will need to fold back the outer braid (as shown).
- Slide the F-connector onto the cable, then turn it clockwise until it grips the braid.
- Ensure that 3 mm of the core is protruding from the end of the connector.

15 mm

8 mm

F-connector

3 mm
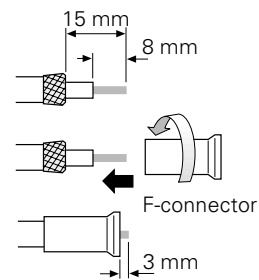
Installing the satellite dish

- See the "Fitting instructions for satellite dish" on how to in- stall the dish.
- Connect the coaxial cable, with F-connectors fitted, from the LNB on the satellite dish to the socket marked "ANTENNA"on the rear panel of the Mediamaster.

GB 8
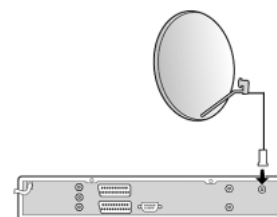
INSTALLATION OF THE MEDIAMASTER

General

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 cables you will have to tune your TV and VCR to the Mediamaster output channel (see page 11).

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

Connecting to the TV

- Connect the SCART cable between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect an RF cable 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.

Connecting a TV and VCR

Refer to your VCR's manual for full instructions.
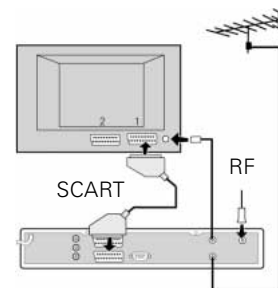
- Connect one SCART cable between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect another SCART cable between the VCR and the AUX SCART socket on the Mediamaster.
- Connect the RF cable from the RF output on the VCR to the TV aerial input on the TV.
- Connect the TV aerial to the RF input socket on the VCR.

If your TV has a SCART socket, but your VCR does not
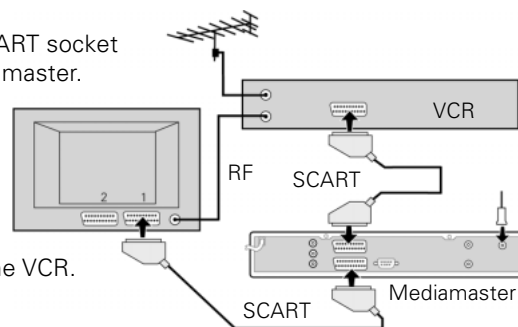- Connect a SCART cable between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect an RF cable from the RF output on the VCR to the TV aerial input on the TV.
- Connect an RF cable from the TV/VCR output on the Mediamaster to the RF input socket on the VCR.
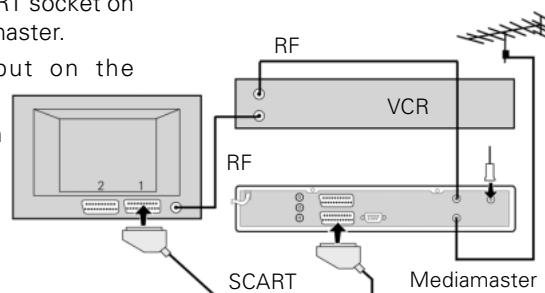- Connect the TV aerial to the TV AERIAL input socket on the Mediamaster.

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INSTALLATION OF THE MEDIAMASTER

Connecting an analogue satellite receiver and a VCR

- Connect a SCART cable between the main SCART socket on the TV and the TV SCART socket on the Mediamaster.
- Connect a SCART cable between the VCR and the AUX SCART socket on the Mediamaster.
- Connect an RF cable from the RF output on the VCR to the TV aerial input on the TV.
- Connect an RF cable from the RF output on the analogue receiver to the RF input socket on the VCR.
- Connect the TV aerial to the RF input socket on the analogue receiver.

  In order to switch the signal from the dish between the analogue and digital receivers, you need a Nokia smart switch (at A B in the diagram) **or** *a Universal Twin LNB.*

With Nokia smart switch

RF

SCART

Mediamaster
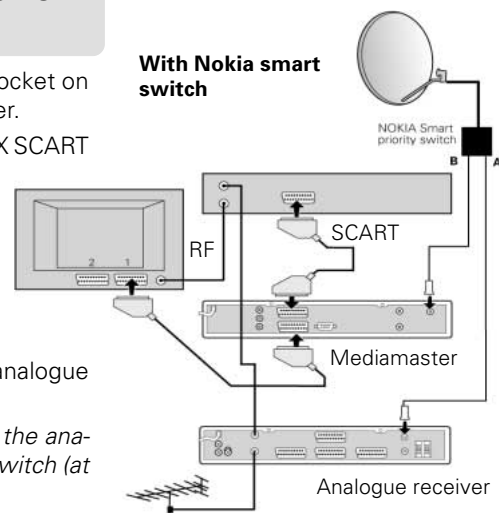
Analogue receiver

Nokia smart switch

- Connect a coaxial cable between output **A** on the smart switch (accessory) to the LNB socket **on the analogue receiver.**
- Connect a coaxial cable between output **B** on the smart switch to the ANTENNA socket **on the Mediamaster**.

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

Nokia smart switch

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.
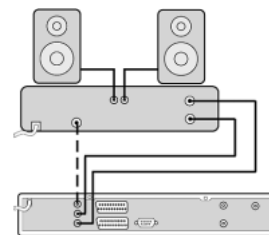
Connecting to the built in phone modem

The modem function is only valid in Scandinavia.

The built in phone modem makes it possible for you to use interactive services. Refer to page 48. This function is only implemented in boxes intended for the Scandinavian countries.

- Connect a telephone cable between the socket marked TELEPHONE on the rear of the Mediamaster and the ordinary telephone socket in the wall.

INSTALLATION OF THE MEDIAMASTER

Switching on for the first time with SCART connections

- Plug in your Mediamaster

- Now you will see the "Welcome" menu on the screen.

- Press **OK** on the Mediamaster remote control to start the Installation procedure.

You may now proceed to "First time installation", see next page.

Tuning procedure when RF connections are used

This procedure is necessary if your Mediamaster is connected to the TV with an RF cable, and not via SCART.

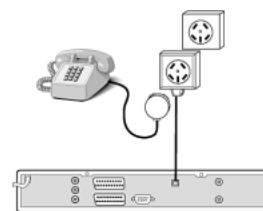To tune your TV to the RF signal you might also need your TV manual in addition to this manual. The steps below explain what to do if you have been unable to use SCART cables in your connection.

- 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.

- For example, if you select UHF channel 45 on your TV, you must change your Mediamaster to the same channel.
  Use the ▼ or ▲ buttons on the front panel of the Mediamaster, or on the remote control, to change to the corresponding channel. You will see the UHF channel number displayed on the front panel of the Mediamaster.

- 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 digital TV/Radio channels.

- Once the welcome message is visible, press the **OK** button on the Mediamasters remote control to start the "First time installation" procedure, see next page.

  If for some reason you have to change the RF channel later, you can do this by using the 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.

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.
Press the **OK** button to proceed.

Language

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

FIRST TIME INSTALLATION

RF modulator type

If the Mediamaster is connected to the TV with a RF cable, you must select the right RF modulator alternative, which is dependent on the country where the Mediamaster is being used.

Select "**Normal (PAL B/G)**" for all countries except the UK.

Select "**UK (PAL I)**" when the box is used in the UK.

If you get picture but no sound, the RF modulator selection might be wrong.
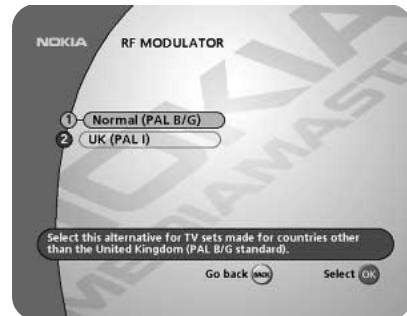
Antenna/satellite selection

Select one of the alternatives from line 1 to 4 if you have a single antenna equipped with one LNB for receiving signals from either ASTRA, HOTBIRD, THOR or SIRIUS.

Select one of the alternatives from line 5 or 6 if you have one antenna with two LNBs or two antennas with one LNB on each for receiving signals from the combination ASTRA/HOTBIRD or THOR/SIRIUS. In these cases you also need a 2-way DiSEqC switch.

If you have an antenna with 4 LNBs select alternative 7. In this case you also need a 4-way DiSEqC switch.

For any other antenna/satellite combination e.g. antenna motor, select alternative 7.

Alternatives 1-6 requires the use of a Universal LNB(s.)
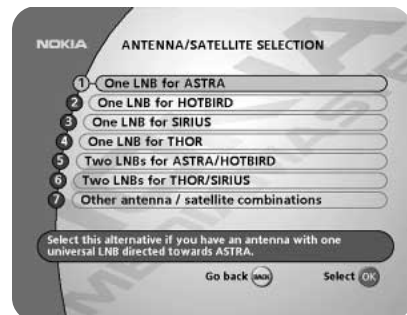
FIRST TIME INSTALLATION

Line ① through ④ on the antenna satellite selection menu

Select one of the alternatives ASTRA, HOTBIRD, SIRIUS or THOR when you have a single LNB pointed towards any of these satellites.

Pressing **OK** from the selected alternative will display the "Antenna adjustment" menu (shown to the right) on the screen.

For each satellite, (e.g. ASTRA, HOTBIRD, SIRIUS, THOR), up to 4 different channels are preprogrammed and shown in the menu. When you adjust the antenna, your Mediamaster will use the **marked** channel to find signals from a satellite. (You can select channel with the ◄ ► buttons.)

Antenna adjustment and signal check

- Adjust the antenna towards the desired satellite until you have a high value on the Signal strength (AGC) *⁾ indicator (the red bar at the top of the menu) and on the Signal quality (SNR) indicator (the red, yellow and green bar at the top of the menu).
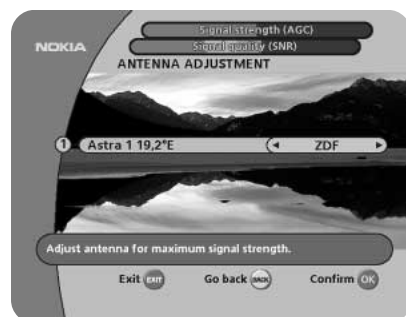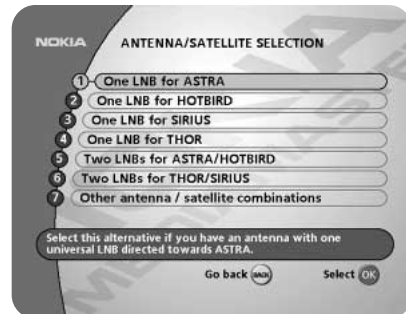
If you do not get a picture, you may be tuned to an analogue signal source. Another reason could also be that the antenna is positioned towards the wrong satellite.

The reason could also be that the marked channel is not transmitting at the moment. If so, select one of the other preprogrammed channels with the ◄ ► buttons.

When you have picture from a TV channel, press **OK**. The Mediamaster automatically starts searching for and downloads channels from the satellite. Please refer to page 21.

(If you have a good indication of the signal quality, but no picture from any of the channel alternatives, try proceeding with the channel search anyway by pressing **OK**).

*⁾ About Signal strength (AGC) and Signal quality (SNR)

The different signal indicators at the top of the menu provide information about two things:

AGC: The AGC, shown with a **red bar**, will indicate the average strength of any incoming signal, digital as well as analogue.

SNR: The SNR, shown with a **red, yellow and green bar**, **will indicate the signal quality for the preprogrammed channel chosen.**

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FIRST TIME INSTALLATION

Line ⑤ and ⑥ on the antenna satellite selection menu

Select one of these alternatives when you have a single antenna equipped with 2 LNBs, or two antennas with one LNB on each, and want to watch channels from ASTRA/HOTBIRD or THOR/SIRIUS.

In this case you must first connect the LNBs to an external switch since there is only one antenna input on the Mediamaster. Once installed the switch automatically selects the correct LNB for the selected channel.

This external switch is better known as a **DiSEqC™** switch. Since the switch can be located **close to the LNBs**, you only need **one** cable down to the Mediamaster.

Connection of a two port DiSEqC switch:

- Connect the cable from the LNB intended for channels from ASTRA (or THOR) to the connector marked LNB 1 (A) on the switch.
- Connect the cable from HOTBIRD (or SIRIUS) to the connector marked LNB 2 (B).
- Then, connect the antenna cable to the connector marked OUT on the switch.
- Connect the other end of this cable to the ANTENNA input in the rear of the Mediamaster.
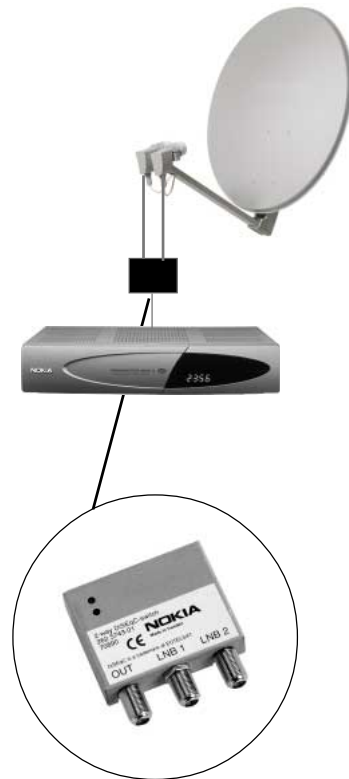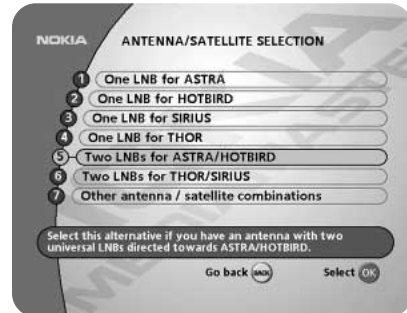
DiSEqC switch with 2 inputs

- First check, as described in paragraph **Antenna adjustment and signal check** on page 14, that you get picture and sound from ASTRA (THOR).
- When you have picture and sound continue to the next row and check HOTBIRD (SIRIUS) for picture and sound.
- When the HOTBIRD(SIRIUS) check is ready, press **OK** to start the channel search procedure. The box now starts searching and downloading channels from both satellites. See "Channel search" on page 18.

GB 15
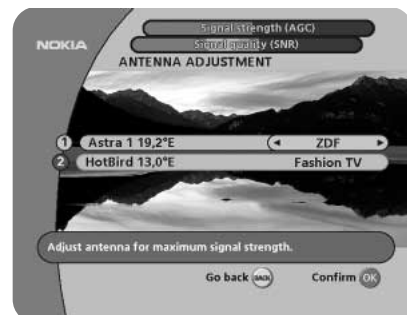
FIRST TIME INSTALLATION

Line (7) on the antenna satellite selection Menu

This selection is necessary **only when your satellite choice differs** from the preprogrammed satellite alternatives in the following ways;

- if you do not use an universal LNB

- when you have more than two LNB's.

- You also must select this alternative when your antenna is controlled by motor (ref. to page 19.)

One antenna/one LNB configuration

Select this alternative if you have **one (1) LNB** mounted on the antenna and you want to select another preprogrammed satellite (than those from line 1-4.)

You also must select this alternative when you are **not** using an Universal LNB.

LNB type

Select the local oscillator (L. O.) frequency valid for the present LNB. The most common values, including Universal LNB, are selectable with the ◄ ► buttons.
You can also enter a value with the numeric buttons when the symbol for the remote control is visible on the line.

LNB offset voltage

If the cable down from any of the LNB's is very long, it might be necessary to increase the voltage to these LNB's by 0,5 V.
In most cases nothing has to be altered here. Leave the default value "0 V" as it is. If the switch does not change between horizontal and vertical polarization, the voltage to a LNB can be increased later.

Increase the voltage:
a. only if a LNB does not change polarization
b. only to the specific LNB mentioned in **a**. above

Satellite

Select one of the preprogrammed satellites.

Predefined channel

Select one of the preprogrammed channels and adjust your antenna according to the **"Antenna adjustment and signal check"** section on page 14.

Multisatellite/mini DiSEqC

Select this alternative if you are using two LNBs that are controlled by a mini DiSEqC switch.

The selection of the different LNBs must be controlled by an external switch. Refer to page 15.

GB 16
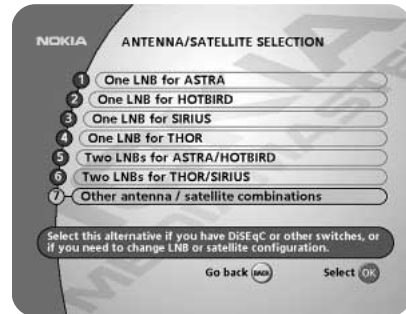
OK
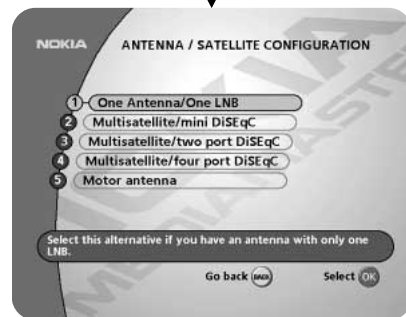
OK
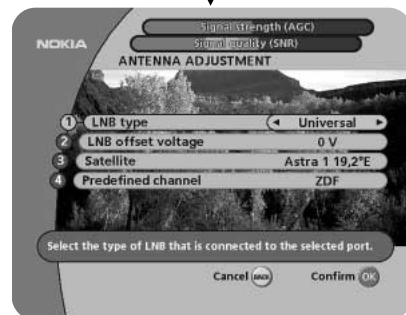
OK

Please follow the procedure described on page 14.
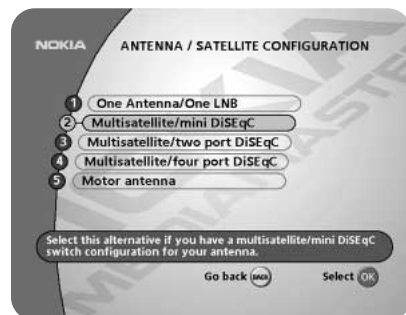
FIRST TIME INSTALLATION

For each LNB you connect to the DiSEqC switch, the following configuration has to be performed.

As an example the following part will describe how the LNB intended for **Astra 1** will be configured to the DiSEqC input A on the switch and the LNB intended for **Hotbird** to DiSEqC input B.

LNB type

Select "Universal" or the local oscillator (L. O.) frequency valid for the connected LNB.

LNB Offset voltage

If the cable down from the antenna is very long, the voltage at the LNB could be too low to change the polarization. You can increase the voltage to the LNB by 0,5 V.

Satellite

In this example, select **Astra 1** because its LNB is connected to the **DiSEqC A** input on the switch.

Predefined channel

Select one of the predefined channels and adjust the antenna as described on page 14, "Antenna adjustment and signal check". Before you can continue, a TV picture from the predefined channel must be visible in the background.

When you do have a picture press **OK** to continue with DiSEqC port B. The same procedure as for Astra 1 has to be repeted. But this time select **Hotbird** as the satellite.

When the configuration of DiSEqC B is ready, press **OK**.
Proceed with the channel search. Refer to page 18.
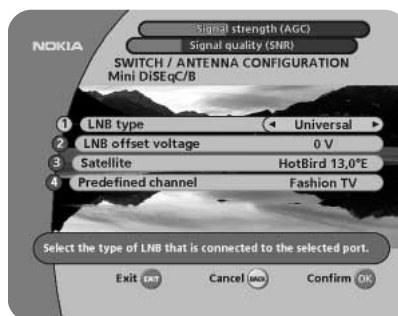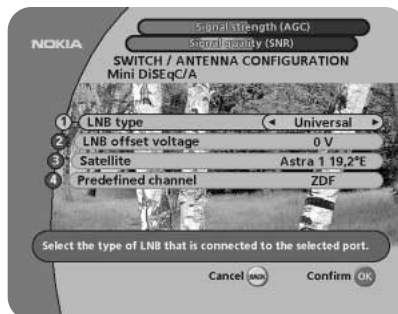
Multisatellite/two port DiSEqC

Select this alternative if your antenna system **has two LNBs** and when you are **not** using any of the alternatives on the lines 5 - 6 from the menu "Antenna/satellite selection" on page 13.

• Make the selections for LNB type, LNB offset voltage (if necessary), satellite and predefined channel (see Multisatellite/mini DiSEqC above for an explanation of the different alternatives) for switch 1.

• Press **OK**.

• Make the selections for switch 2.

• Press **OK**.

Proceed with the channel search. Refer to page 18.

FIRST TIME INSTALLATION

Multisatellite/four port DiSEqC

Select this alternative if your antenna system **has four LNBs** and when you are **not** using any of the alternatives on the lines 5 - 6 from the menu "Antenna/satellite selection" on page 13.

The selection of the different LNBs must be controlled by an external switch. Refer to page 15.

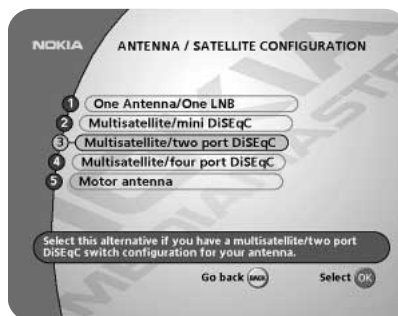The procedure is the same as for mini DiSEqC and two port DiSEqC, but you have to configure four LNBs the same way as described on page 16-17.

Connection of a four port DiSEqC switch:

The following is an example of how you can connect 4 LNBs if you want to watch channels from ASTRA, HOTBIRD, SIRIUS and THOR.

Connect the LNBs to the switch the following way:

- the LNB intended for ASTRA to input 1
- HOTBIRD to input 2
- SIRIUS to input 3
- THOR to input 4

The output marked OUT on the switch shall be connected to the ANTENNA input on the Mediamaster.
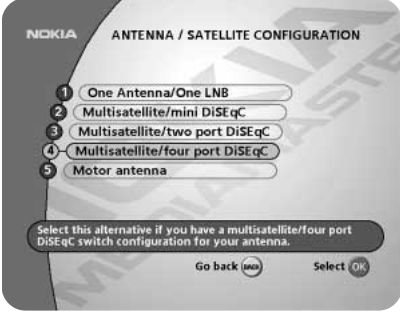
DiSEqC switch with 4 inputs

Channel search

The Channel search procedure can be performed in different ways.

- If there are predefined channels, you can make an Automatic, Manual or Advanced search.
- If no predefined channel is available you can make a Manual or Advanced search.

Automatic search

Start an Automatic search on a selected satellite by pressing **OK**.

GB 18
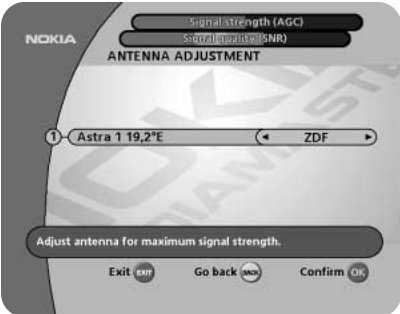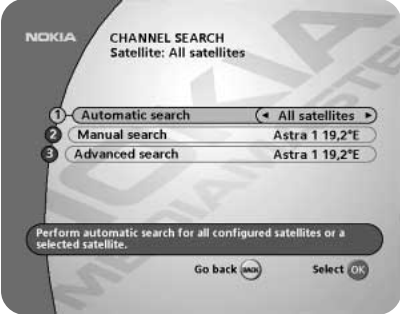
FIRST TIME INSTALLATION

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 in magazines covering satellite TV reception, on the Internet or from your Service Provider.

Transponder frequency: Specify the frequency in GHz. If you enter the wrong figure(s), erase with the ◄ button.

Polarization: Select Horizontal, Vertical, Circular left or Circular right.

Symbol rate (MSym/s): Enter with the numeric buttons. If you enter the wrong figure(s), erase with the ◄ button.

FEC: Select "Auto" or any of the preprogrammed values.

Network search: Select "Yes" if you want to search on all transponders connected to a specific network.

**Adjust motor**: Adjust (if necessary) the motor for the current satellite.

Press **OK** to start searching for channels.
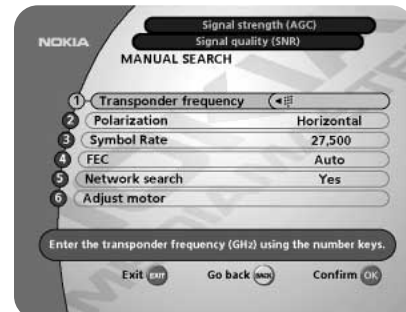
Advanced search

The information to enter in this menu is available in magazines covering satellite TV reception, or from your Service Provider.

You can use this menu if you are looking for some "special" channels (i.e. non-DVB standard channels) which can only be found when you have entered the necessary settings here.

Transponder frequency: Specify the frequency in GHz.

Polarization: Select Horizontal, Vertical, Circular left or right.

Symbol rate (MSym/s): Enter with the numeric buttons.

FEC: Enter the appropriate Forward Error Correction (FEC) or select AUTO

PID Video: Enter the PID (Packet Identifier) for the video signal.

PID Audio: Enter the PID for the audio signal.

PID PCR: Enter the PID for the PCR (Programme Clock Reference).

Adjust motor: Adjust (if necessary) the motor for the current satellite.

Press **OK** to start searching for channels.
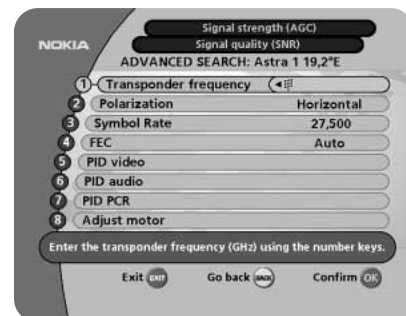
Motor antenna

In case you have an antenna motor to control your satellite antenna you have to make the following settings. If your antenna is prevented from reaching its east/west limit positions, you have to set these limits. See page 47 for instructions.

• From the "Antenna/Satellite selection" menu select line 7 and press **OK**.

• Select line 5, "Motor antenna" and press **OK**.
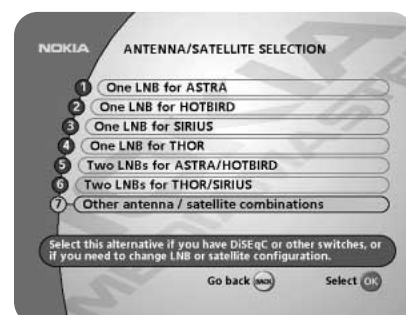
FIRST TIME INSTALLATION

Type of motor

- Select SATSCAN if it is a Nokia SatScan motor.
- Select DiSEqC in case the motor you use is controlled by DiSEqC commands.

LNB type

- Select Universal, one of the fixed frequencies or enter the LNB frequency with the numeric buttons on the remote control.

LNB offset voltage

If the cable down from the antenna is very long, the voltage at the LNB could be too low to change the polarization. You can increase the voltage to the LNB by 0,5 Volt.

Satellite

Select Astra if you have a SatScan motor and Hotbird if you have a DiSEqC motor.

> **Adjust motor for Astra/Hotbird**
>
> **To continue the installation you now have to determine the angle to Astra 1/Hotbird. The motor and the antenna must be adjusted towards the Astra 1 satellites on 19.2° East (Hotbird satellites on 13° East) as this is the reference setting. All other preprogrammed satellite positions are oriented relative to Astra 1/Hotbird.**
>
> **You also have to mount the antenna at a proper place outdoors.**
>
> **How to do all this, please read the separate fitting instructions for the SatScan or DiSEqC positioner.**

Predefined channel

Select the predefined channel that will give the best Signal quality (SNR) bar indication. Within a few seconds you will get picture from the channel in the background.

Adjust motor

- If necessary, fine tune the motor with the ◄ ► buttons on the remote control.

As you now have a picture in the background, it is time to perform a Channel search procedure.

- Press **OK......**

....and you will get the Channel search menu.

The most common is to start from the "Automatic search" line. (You can always make a Manual or Advanced Search later on.)

- Select the satellite you want to use on the Automatic Search line, for example Astra.

- Press **OK......**

.......and you get the Antenna adjustment menu.

- If necessary, adjust the motor until the Signal strength (AGC) and the Signal quality (SNR) are optimal. Please note, that this will only affect the present satellite position.

GB 20
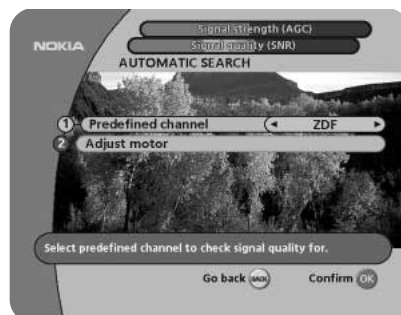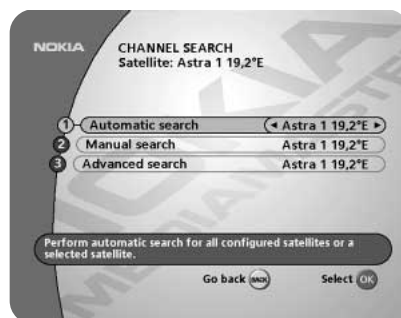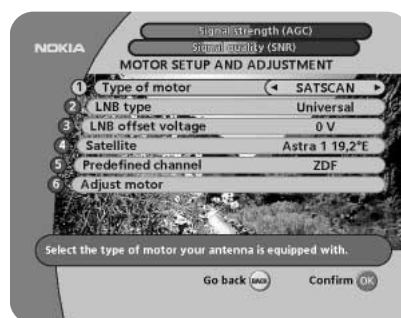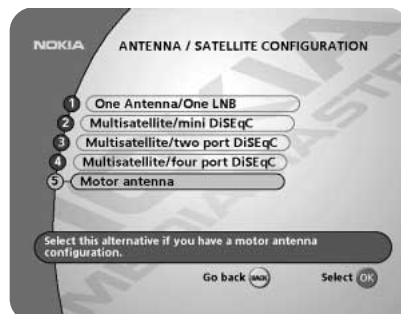
FIRST TIME INSTALLATION

- Select one of the Predefined channels and press **OK** to.....

.....start the main search procedure for (in this case) the ASTRA channels. The search procedure will take a while. Please refer to page 22.

When the channel search from ASTRA is finished you can search for channels from other satellites if you have a motor antenna.

- Press **MENU** on the remote control and the Main menu will appear on the screen.
- Select line 5, System configuration
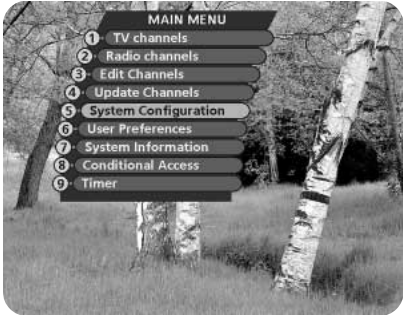
- On demand, enter the Access code 1234....

......and the System configuration menu will appear.

- Select Channel search
- Press **OK** to get the Channel search menu again.

GB 21
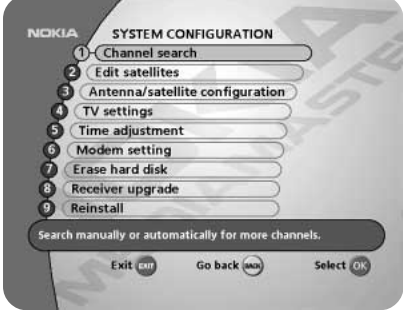
FIRST TIME INSTALLATION

The position of 22 satellites are preprogrammed in the SatScan motor.

As long as you select satellite positions from the line "Automatic search" you also have access to preprogrammed TV channels that makes it easy to check the signal quality.

• From line 1 Automatic search, select the satellite from which you want to search for channels.

Then the procedure is the same as for the first satellite installation.

However, you must give the antenna motor some time to turn itself to the new position!
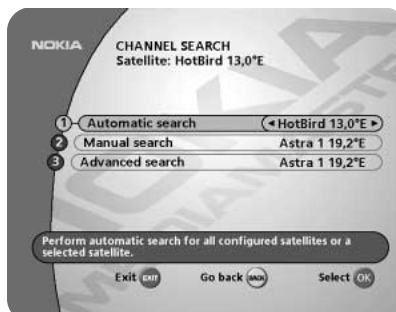
Channel search progress

This menu will be shown as long as the Mediamaster is searching for channels to download

All channels found will be listed in two columns on the screen; with TV channels in one column and radio channels in the other.

Please note that the search procedure may take a few minutes.

When the search procedure has ended, a message will tell how many TV and radio channels have been found.

Press **OK** to continue.

Time adjustment

The time is adjusted by using the ▼ ▲ buttons, ±1/2 an hour at a time.
You can also adjust the minutes by using the ◄ ► buttons.
Press **OK** to finish the first time installation, see below.
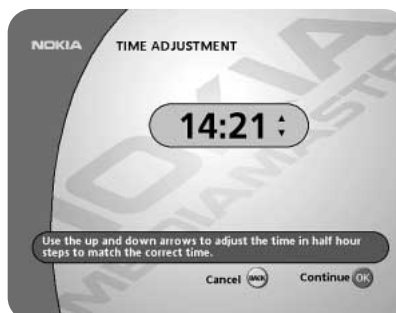
Finishing the first time installation

The channels found at the search procedure will now be saved. A message telling that the installation procedure is completed will be shown on the screen.

Press **OK** in order to start watching channels from the box.

GB 22

VIEWING MODE

General information

The following describes the basic functions of your Mediamaster while watching satellite TV or listening to satellite radio.

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 have downloaded a large number of channels. This may include channels from various Service Providers, also those to which you do not have access unless you have a Smartcard from one of those Service Providers.

If you select a programme to which you do not have access, you will get a message on the screen. This message may vary, depending on Service Provider and used Smartcard/CA module.

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 standby, changing the volume etc. there are also other useful functions which will be explained in this part of the manual.

You can always leave a menu at any time you want, without affecting any settings, by pressing the **EXIT** button.

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.

This symbol will be shown in the upper left corner of the screen when a downloadable application ("Open TV") is included in a channel transmission.

To close an application and return to watch TV, press the **P+** or **P-** button on the remote control.

Please refer to page 51 for more information.

Channel list

Information about the current programme

Current time

Information about the next programme

Channel number and name

Age limit information

Press the red button on the remote control to start downloading an "Open TV" application

GB 23

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.

This procedure is the same for both TV and radio mode.

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/radio 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

By pressing the **GUIDE** button you get access to the Mediamaster **TV guide** (or Radio guide if you are listening to radio channels) which will give the titles of the current and next programmes on different channels. The information is only available from the network (e.g. DF1, TPS) to which the channel you are watching belongs.

Use the ▼ ▲ buttons to move the cursor to another programme. 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.

When you are watching a channel from Viasat while pressing the GUIDE button, the Viasat Portal will be shown. Follow the instructions from there how to get programme information.

GB 24

VIEWING MODE

List of TV and radio channels

At the channel search procedure, three channel lists are created. One list named "All TV" containing all channels, another named "Free TV" containing only free channels and "Viasat" containing channels distributed by Viasat.

In the "All TV" 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 "All TV" list.

When viewing TV or listening to radio channels you can access the channel list by pressing **OK**. The lists are sorted by satellite, network and channel.

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 satellites or networks to reduce the number of channels. You open/close a satellite or network by marking it and pressing ↻. A closed satellite/network is indicated with ☰ .

Change channel lists with ◄ ►.

To open the radio channel list you first have to enter radio mode by pressing "**EXIT TV** ♫" and then **OK**.

You can change channel by stepping with the ▼ ▲ buttons or enter the channel number with the numeric buttons on the remote control.

Press **OK** when a channel name is highlighted to start watching/ listening to it.

To change one channel list page at a time, use the **double arrow** buttons.

You can also get more information about a marked (highlighted) channel by pressing the "**i**" button.

Name of the Channel list   Indicates a closed satellite

Channel number and name

Indicates a locked channel

Network name

Indicates a scrambled channel

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. More alternatives than the below mentioned may be available.

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.

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.

GB 25
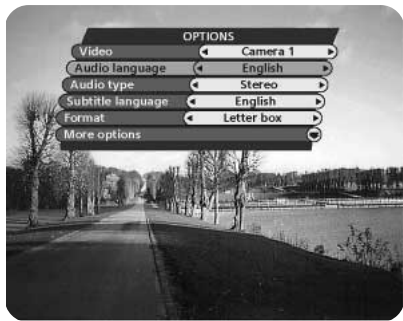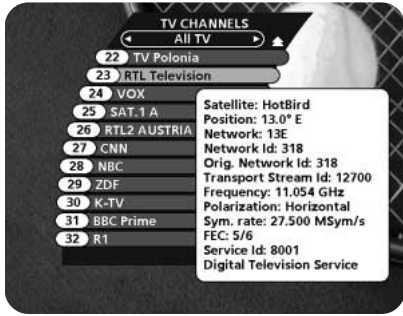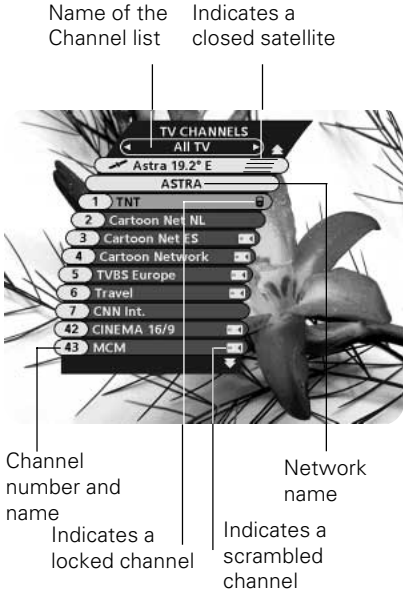
VIEWING MODE

TV release (0)

With the **0** button you can toggle between analogue terrestrial TV, video, analogue and digital satellite TV signals.
(This is only valid if the units are connected via SCART cables, and not by a RF connection.)

8   Channel number

CJ   Analogue TV mode

AU   Video mode. (The video must be turned ON)

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** or **BACK** to return to TV/radio mode.

The "**0**" button will show the index page (normally page 100.)

▲ ▼ will show the next or previous teletext page.

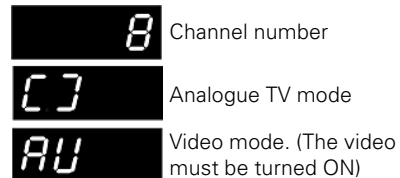You can use the **double arrow** buttons to browse through the pages you just have visited.

When "hidden text" is applicable it can be shown by pressing the "**i**" button.

On most new TV sets you can use the TV's remote control to open and control the teletext functions while watching digital TV channels. (The function is called VBI insertion.) **NOTE**: Also see "Subtitles" settings on pages 50 and 51.

EXIT TV ♫

This button has double functions.

While watching TV: The **TV/♫** function is used to switch from TV to radio mode and vice versa.

When you have entered a menu, the **EXIT** function is used to leave the menu at any time without changing anything.

GB 26

VIEWING MODE

Recording on an external analogue Video recorder

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!

When recording digital channels from the Mediamaster and the Videorecorder is connected with a SCART cable: put the video into AV/AUX or E1 mode.

When recording digital channels from the Mediamaster and the Videorecorder is connected with a RF cable: you must give the Mediamaster an own position number on the video. (The same way as you probably already have given e.g. SVT1 and other channels their own positions.)

Recording from the hard disk to a video recorder

You can also transfer recordings made on the hard disk to the videorecorder. Select a recording made on the hard disk and start the playback of it. Depending how the boxes are connected, via a SCART or RF cable, you now can make a recording on the videorecorder .
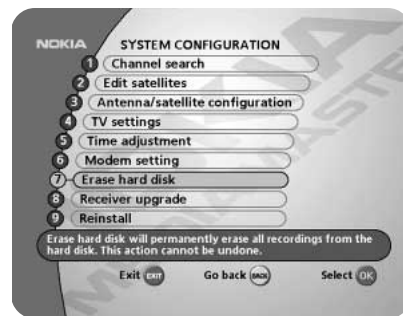
HARD DISK RECORDING

About hard disk recording

As you probably already know this box is equipped with a built in Personal Active Disc. This is a hard disk, similar to those in ordinary Personal Computers (PCs). On this hard disk it is possible to record about 15-20 hours of TV and radio programmes.

To get the most out of the disk recording procedure, follow these simple tips to keep the disk well prepared for coming recordings. In this way you will avoid messages on the screen saying things like "Time available: Less than 1 hour" 5 seconds before you want to make a two hour recording from a live performance of your favourite pop group; or "The current recording was stopped because there was not enough space on the disk". As we all know, those messages always appear when we least want them to.

- Make a practice to clean the disk from recordings that are no longer needed.

- Recordings that you want to keep, you can transfer to a traditional analogue Video Recorder. Recordings made to the built in disk **can not** be digitally transferred to an external hard disk.

- A good thing to do now and then, is to erase everything from the disk (select "Erase hard disk" from the "System Configuration" menu.) But remember, absolutely everything will be erased.

- We suggest that you spend some time testing all functions until you get familiar with them. This will save you a lot of frustration when the moment for making and watching a recording becomes reality. After the practice you can just erase the disk and it will be ready to start from scratch.

It is important for you to also be aware of the following facts concerning the hard disk recording

- Only the channel whose number is shown in the display on the box can be recorded. This means, that you can not watch e.g. channel 4 and record e.g. channel 8 at the same time.

- A big benifit that the built in hard disk possess, but the analogue video recorder lacks, is **the possibility for you to start watching the playback of a programme while the recording of the same programme is still in progress**. This possibility is utilized at the "Pause recording" procedure which is described further on in this manual.

- **Note! Pause recordings will not work if you are watching a programme ordered via KIOSK (Canal Digital's pay-per-view).**

- **CAUTION! Unauthorized recording of TV programmes or other material may infringe the copyright and be contrary to the copyright laws.**

HARD DISK RECORDING

Different ways of making recordings

There are three ways of making a recording. In this manual they are separated in the following way:

1 A Pause recording

This function is useful when you make a break while watching TV. We will describe how this function can be used when you get a phone call.

2 A Normal recording

Spontaneously start a recording at any time you want. As you will see, the procedure differs a bit from the Pause recording. Please try not to mix them, because if you do, it might lead to some confusion.

3 A Timer recording

Use the Timer function to record programmes automatically when you are not at home.

The recording menu

This is the recording menu. You call up the menu to the screen by pressing the ● button marked "pad" (Personal Active Disc). The menu has to be visible before you can start a recording.

Good to remember: You can always show and hide this menu by pressing the ● button.

The menu will not be recorded.

The symbols ⏩ ⏪ ⏩ ⏪ represent functions that are normally handled with the arrow buttons on the remote control. As this is the most convenient way, only the button commands will be explained in this manual.
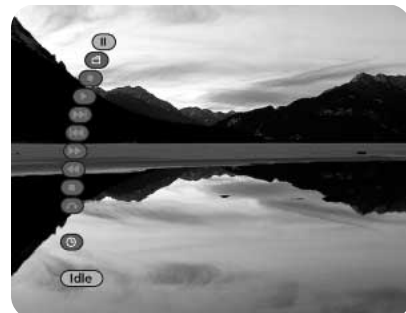
Locked functions during recording

Most functions are locked when a recording is in progress. It is not possible to call up any other than the recording menu. If you try, you will get the message "You can not do this as long as the disk is active". The only functions that are active during a recording in progress, except the different alternatives in the recording menu, are volume, mute and TV release.

It is possible to watch another recorded program during a pause recording.

HARD DISK RECORDING

The Pause (❚❚) Recording

To describe this, let us say that the phone starts to ring while you are watching TV. You do not want to miss anything of the programme, so you decide to make a pause recording. To start it you only have to press two buttons on the remote control.

- First, call up the recording menu by pressing ● .

- Then, start the pause recording ❚❚ by pressing **OK**.

- The picture will freeze and the sound will be turned off at the moment the recording starts.

- Answer the phone.

During a pause recording the menu looks like the one in the figure to the right.

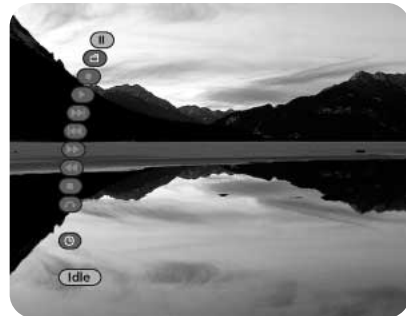- At the very bottom of the menu there will be a bar showing the total time of the recording.

- Above the bar, "**Pause**" indicates that a pause recording is going on.

- Above it, there are two time counters, separated by a / (slash.) The right counter will continuously show the recorded time in hours, minutes and seconds. (The left one will be explained later on.)

- The recording menu will automatically disappear after about 5 minutes.

- When you start a pause recording, the display on the box will change to indicate "**PAUS**" instead of the channel number.
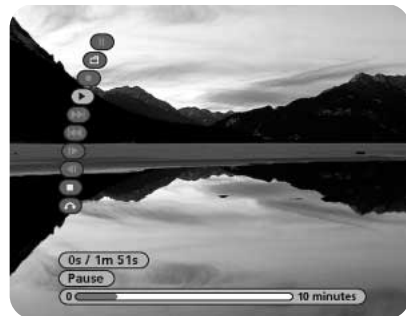
To watch the pause recording

Now, 10 minutes later, when you return after having finished the phone call, the situation is like this:

- A frozen picture on the TV and no sound. That is all.

Of course, you now would like to watch the pause recording that contains your missing 10 minutes.

- You start the playback of the pause recording by first pressing ● (to pick up the menu) and then press **OK**. Of course, if the menu still is visible when you return, you only have to press **OK**.

Now it is important for you to be aware of the fact that the recording is still in progress. It has not yet been turned off. Therefore the right counter will show an increasing recording time. But this is quite all right. We let you know how and when it is time to turn it off.

GB 30
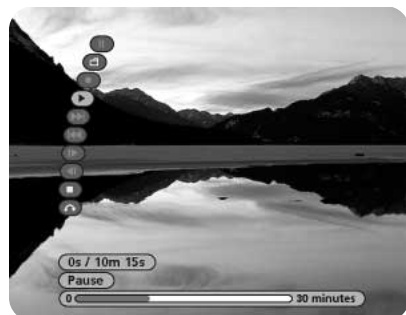
HARD DISK RECORDING

What is happening during playback of a pause recording that is still in progress?

When the playback starts, a few other things also happen at the same time.

- Although the pause recording is still going on, the display now will start to show "**PLAY**" instead of "**PAUS**".
- The text at the bottom of the recording menu now will start to show "**Playing**" instead of "**Pause**".
- At this moment, when you start a playback, the left counter starts to show elapsed time of the playback.
- The right counter continues to indicate recorded time.
- The bar at the bottom of the page will show elapsed time (green) and total time (red).

Now let us stop for a moment and analyse the situation. What is happening? As a matter of fact, two different things are now in progress simultaneously:

- The pause recording is still going on,
- and you are watching the playback of it, with 10 minutes delay.

To finish this example of a pause recording

- Keep on watching the playback until the programme reaches the end, for example after 5 minutes.
- The left counter will now show 5 minutes, which is the length of the playback.
- The right counter will show 15 minutes because the recording process has been going on all the time.
- Now you finish this pause recording by first pressing • to pick up the recording menu to the screen, then
- select "⬛" in the menu and press **OK**.
- This pause recording is now finished and stored in the "List of recordings".

There also is another way to finish the pause recording. More about that soon.

GB 31

HARD DISK RECORDING

The Normal recording

When you want to perform what we call a Normal recording.

- Press ● on the remote control to pick up the recording menu.

- Step down to "(●)" in the menu.

- Start the recording by pressing **OK**.

- The display on the box will show "**r E C**" during this type of recording.

- If you press the green button on the remote control while a recording is in progress you can preset the recording time. This is called OTR (one touch recording). There are preset times in 30 minute steps up to 240 minutes. Each time you press the green button you will add 30 minutes to the recording time. When the preset recording time is reached, the recording will stop automatically. The display on the box will show "r XXX" during this type of recording. XXX is the time you have set for the recording.

- During the recording, elapsed time and the information "Recording" will be shown in the recording menu. If you have used the OTR function described above, you will also see how much time that is left until the recording stops.

- Finish the recording by first pressing ● to call up the recording menu. (If it is already on the screen, you do not have to press ● first!)

  Then check that "(■)" is highlighted in the menu (if not, select it) and then press **OK**.

Timer recording

The "(🕐)" alternative in the recording menu is a short cut to the "**Timer**" menu. From there you can program the box to perform recordings when you are not at home.

Please refer to the "**Timer setup**" described on page 56.

For your information, in case you are at home watching TV when a timer recording starts:
Shortly before a timer recording starts, the message in the right figure will be shown. Press **OK** if you want the recording to take place; press **BACK** if not. (You will be asked just in case you are watching a more interesting programme than the one that is to be recorded.)

When you do nothing the recording will start in a moment.

GB 32
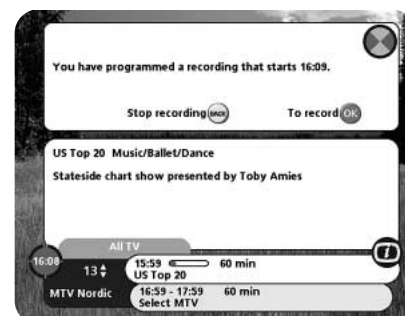
HARD DISK RECORDING

To start playback of a recording

You find a finished recording in the **List of recordings** which you reach by

- Pick up the recording menu to the screen by pressing ●
- Select ⬚ from the menu to pick up the **List of recordings** to the screen
- Step to one of the recordings with ▲ ▼ and press **OK**

- The **Handle Recording** menu appears
- Select **Play** and the playback starts
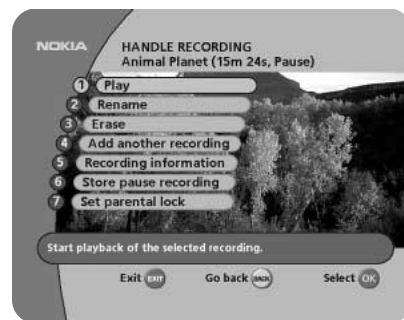
- The left counter starts to show elapsed time
- The right one shows the total length of the recording and the elapsed time in %

3m 32s / 10m 26s (33%)

Playing

The pause function

It is possible to make a pause during a playback of any recording. A pause causes the picture on the screen to "freeze".

Pause during playback of a normal recording

- First call up the recording menu by pressing ●
- Start the playback of a programme from the List of recordings.
- Alternate between playback and pause mode by pressing **OK**.

1m 05s / 3m 22s (32%)

Pause

Pause during playback of a pause recording in progress

The pause function is possible to use also while a pause recording is still in progress. Note, that the right counter will be active all the time due to the fact that the recording is still in progress.

- First call up the recording menu by pressing ●
- Start the playback of the pause recording by pressing **OK**, and also the left counter starts.
- Alternate between playback and pause mode by pressing **OK**.

11s / 59s

Pause

GB 33

HARD DISK RECORDING

Watch the playback at a different speed

To speed up a playback or to find a certain position in a record-
ing, you can use functions such as

- Fast forward
- Rewind
- Slow motion

The functions can be performed not only during a normal play-
back, but also during a pause recording in progress.

Fast Forward and Rewind during playback of an already finished recording

While watching the playback of a recording you can start **Fast
Forward** or **Rewind** by pressing the appropriate button.
You do not even need to have the recording menu on the screen.

- Press ▶ to start Fast Forward.
- Press ◀ to start Rewind.
- The playback will now speed up, either forwards or backwards.
- If you press the buttons repeatedly the speed will increase. At
  the bottom of the menu there is now an indication showing
  the speed, e.g. "Fast Forward 2". The speed may be set be-
  tween 1 (not so fast) and 9 (very fast).
- If the speed is too high in any direction, just use the opposite
  button to slow down.
- To stop and return to normal speed, press **OK**.

(16s / 12m 20s (2%))
(Fast Forward 2)

(17m 52s / 25m 09s (71%))
(Rewind 3)

Fast Forward and Rewind of a pause recording in progress

The Fast Forward function is useful when you just want to skim
through e.g. a short pause recording, that is still in progress, in
order to catch up the live broadcast of the programme. When you
reach the end of a pause recording it will automatically finish and
the live programme will be shown instead. (Unless you have
changed the default setting for this in the "Digital Recording Pref-
erences", Line 5, on page 55.)

- First you must start the playback of the pause recording in
  progress by pressing **OK**.
- Then, press ▶ to start Fast Forward or ◀ to Rewind
- The playback process is the same as described for the normal
  playback.
- Note, that the left counter will follow the Fast Forward/Rewind
  process while the right one will keep on showing recorded
  time for the pause recording in progress.
- To stop the Fast Forward/Rewind and return to normal playback
  speed, press **OK**.

(55s / 2m 25s)
(Fast Forward 2)

(30s / 1m 47s)
(Rewind 3)

GB 34

HARD DISK RECORDING

The Slow Motion function

The **Slow Motion** function is a way to watch a playback in a slower way than the normal playback speed. This function is the same for all types of recordings. It only works in the forward direction, never backwards.

To playback in Slow Motion mode:

- First you must start the playback of a recording.

- Then put it into pause mode by pressing **OK**.

- Start the function with any of the ◄ ► buttons. You also use them to control the speed, which is from +3 to -5, where +3 is half of the playback speed and -5 is really slow.

- Exit the Slow Motion mode and return to normal playback speed by pressing **OK**.

Small steps during playback

To move small steps forwards or backwards during a playback you can use the **double arrow** buttons. The ▲ will step 20 sec. forwards and ▼ will step 10 sec. backwards.

Find a specific position within a playback

If you have a very big recording and want to reach a specific position of it, the Fast Forward or Rewind functions might be a bit inconvenient to use.

Instead you can use the jump function ⌒.

- Start a playback.

- Select "⌒" from the menu.

- From line 1, **Jump to position**, you can select one of the predefined times with ◄ ►, or enter an exact time with the number buttons on the remote control. Please note, that **the start position for the "jump" is the beginning of the programme**. If you watch a playback for 25 minutes and from there select to jump e.g. 1 hour on line 1, you will reach a position 1 hour into the programme, not 1h. 25 minutes.

  When you want to jump to an exact position, e.g. 1 hour 3 minutes and 7 seconds, enter 010307. Always 2 figures for each hour, minute and second. When you want to jump e.g. 12 minutes and 32 seconds, enter 1232.

  If you enter a wrong digit, remove it with ◄ .

- Line 2 and 3, **Jump Forwards/Backwards**: Select one of the predefined times with ◄ ►, or enter an exact time with the number buttons on the remote control. In any of these cases you will jump forwards or backwards **from the position where the playback is right now**.
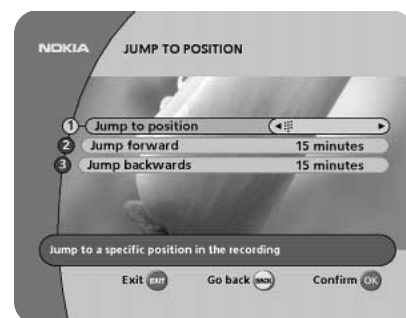
HARD DISK RECORDING

The Edit (✄) function

It sometimes happen that some extra minutes from the pro-
gramme that starts after or before the one you want to save also
will be recorded. If so, you can use the ✄ function. It will give
you the opportunity to erase parts in the beginning and at the end
of a recording. You can also split a recording into two separate
recordings. Note! It is important that you have at least 8 Mb space
left on the hard disk in order to split a file. If you don´t, you will
get a message telling that the disk is full. Erase some files in or-
der to make some more space and try to split the file again.

- Start the playback of the recording.

- Make a pause when you reach the section from where you
  want to erase or split.

- Select **"✄"** from the recording menu and press **OK**.

- You can now erase everything (within the recording) before or
  after the point where you made the pause. Or you can split the
  recording into two different recordings, one is ending at the
  point where you made the pause and one is beginning at the
  same point. Confirm your choice by pressing **OK**.

You can also add together two different recordings into one re-
cording. See "Add another recording" on page 38.

NOKIA   EDIT RECORDING

1 — Erase all up to this point
2 — Erase all after this point
3   Split

This will erase all of the recording before the current position.

Exit (EXIT)   Go back (BACK)   Select (OK)

GB 36
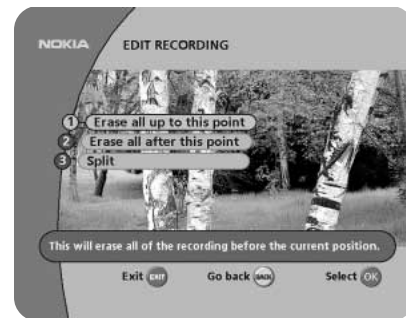
HARD DISK RECORDING

List of recordings (⊟)

As mentioned earlier, all recordings will be stored in the **List of recordings**.

To reach it, select **"⊟"** from the recording menu.

In addition to the recordings, the List also contains an important information about the disk:

- **Time available**: Here you will be informed about the estimated time available on the disk. You must be aware of that the time indication is a really rough estimate, but it will give a hint of available time.
  The settings in "Recording preferences" will in a very high degree affect what will be shown here. (Ref. to page 52.)

In the green information field, at the bottom of the menu, some information about the different recordings is shown. Press the "**i**" button to get more detailed information. (On condition that the information is included in the programme transmission.)

The List of recordings may consist of up to 64 pages with 7 recordings on each. On each page, the list is numbered from 1 to 7. Fresh recordings will be saved on page 1. The older the recording, the higher the page number.

Step between pages with the **double arrow** buttons.

NOKIA LIST OF RECORDINGS 1/2
Time available: More than 10 hours
1. BBC News (26m 44s, Pause)
2. Earth Report (2m 31s)
3. Viasatsport/Travel (4m 41s, Pause)
4. Viasatsport/Travel (33s, Perm.)
5. Bag kameraet (3h 13m 55s, Perm.)
6. TV1000 (2m 07s)
7. CINEMA (2m 19s)
Created 2001-04-24 16.24, BBC WORLD, Pause recording
Content: 2 programs
Exit (EXIT)   Go back (BACK)   Select (OK)
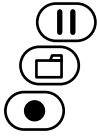
Handle recording

By selecting any of the recordings from the List of recordings and pressing **OK** you get the **Handle Recording** menu. Besides the fact that you start the playback of a recording from here, you also have the possibility to change the properties of the recording.

NOKIA HANDLE RECORDING
Animal Planet (15m 24s, Pause)
1. Play
2. Rename
3. Erase
4. Add another recording
5. Recording information
6. Store pause recording
7. Set parental lock
Start playback of the selected recording.
Exit (EXIT)   Go back (BACK)   Select (OK)
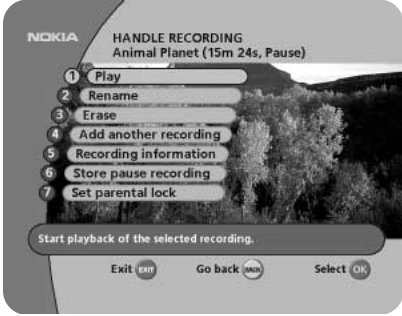
Play

Start playback. Refer to page 33.

3m 32s / 10m 26s (33%)

Playing
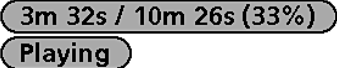
HARD DISK RECORDING

Rename

You can give the recording a new name. Note that the first lines contains only channel information and are not possible to rename.

- Step to the last line and press **OK**.
- To enter the new name, please follow the instructions for "Rename Channels" on page 42.

The new name that you enter will now be shown in the List of recordings.
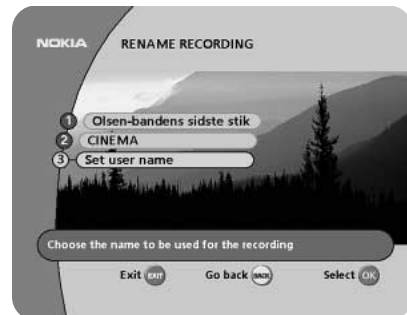
Erase

Enter this menu when you want to clean up the disk from certain recordings. Before you erase a recording you will get a chance to regret the deletion by selecting **BACK**. Select **OK** and the recording is definitely gone.
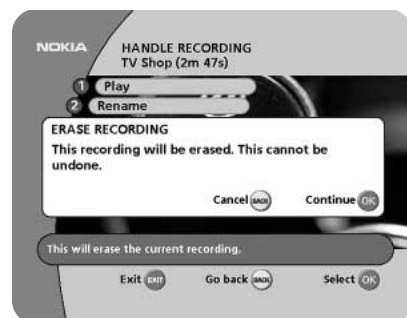
Add another recording

You can add a recording to another using this alternative.

- Select the recording you want to add another recording to from the list of recordings.
- Press **OK**.
- Select Add another recording and press **OK**.
- Then select the recording you want to add from the list of recordings.
- Press **OK**. The second recording will be added after the first recording.

The two original recordings disappear from the list and you now have only one recording containing both of the original files. The recording will have the same name as the first selected recording.

If you want to add more recordings, you just follow the same steps.
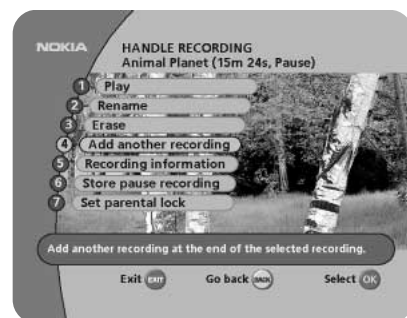
Recording information

Available information about the recording will be shown. The details are dependent of what was included in the programme transmission at the time for recording.

GB 38
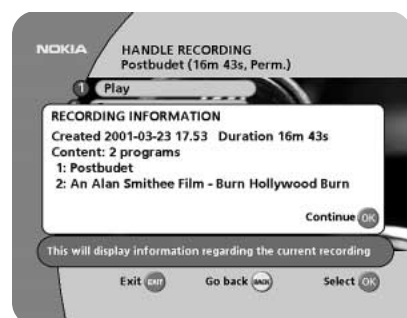
HARD DISK RECORDING

Save a recording as Erasable or Permanent

To avoid that a **Pause** or **Normal** recording will be erased, it is a good idea to change its property from erasable to **Permanent**.

Default property for a pause recording

When a pause recording is created, in the List of recordings it will automatically get the extension (......**Pause)** at the end of its name.

The number of pause recordings in the List of recordings will be kept constant to the limit you have defined in "Saved Pause Recordings", ref. to page 52. In practice, this means that pause recordings are continuously erased to keep that limit.

Default property for a normal recording

A recording created the normal way has **no extension**. This means that it is erasable, but will remain on the disk until it is full. When the disk space is not enough for a new recording, also these recordings (without any extension) will be erased.

How to change the property to erasable or permanent

• Select a recording from the **List of Recordings** and press **OK**.

• Immediately below the name of the menu "Handle Recording", the current property for the recording is always visible.

• Step to line 6.

• By pressing the **OK** button you can now change the property between **erasable** and **permanent** and vice versa. **The valid property will immediately be visible below the "Handle recording" name. The text "Perm." within the brackets means Permanent, and no text means Erasable.**

Summarize

A recording can have one of the following three characteristics:

1 A pause recording will always be automatically erased in order not to exceed the value you once have decided. This type of recording has the extension "Pause" at the end of its name in the List of recordings.

2 A recording can also be erasable and automatically deleted, but not until the whole disk is filled upp with recordings. This type has no extension.

3 The third type of recording has the extension "Perm" at the end of its name. This one must always be manually erased.

Set parental lock

When you want to lock a recording, select this alternative and you will be asked to enter your access code. After entering the code, the recording is locked. To watch it you must enter the code again.

(The code is the same as for the Parental Control.)
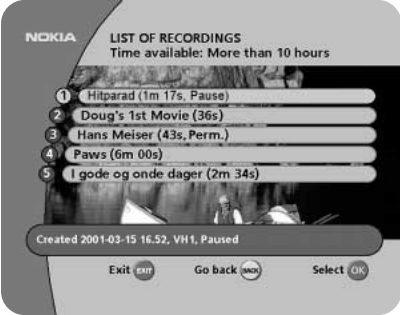
The event property of a recording will always be shown here.
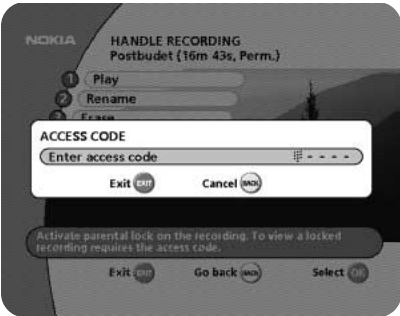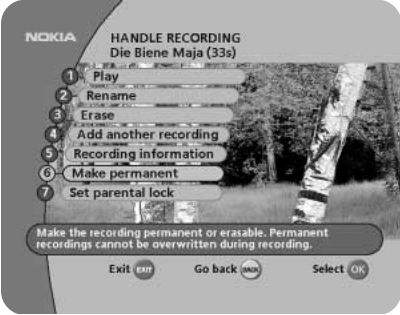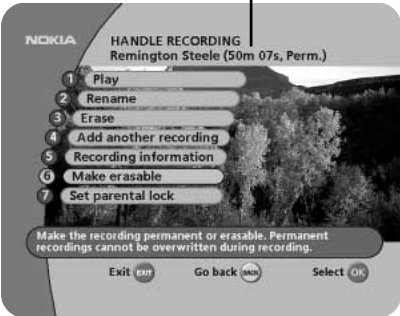
MAIN MENU

General information

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

Press **MENU** to open it.

You can always leave a menu at any time you want, without affecting any settings, by pressing the **EXIT** button.

TV and radio channels

Please refer to "List of TV and radio channels" on page 25.

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.

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

Important about editing channels

Before you start you must select which list, TV or radio, you want to edit. While you are watching TV and press the **MENU** button and select Edit channels, you can edit TV channels. While listening to radio channels and doing the same, you can edit radio channels.

After the selection, radio or TV, use the ◄ ► buttons on the remote control to select the name of the list to edit.

GB 40

MAIN MENU

Create list

From here you create your own favourite lists, containing the channels you watch most frequently. You must 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.

You can create separate favourite lists for TV and radio channels.

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" or "All radio" 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**.
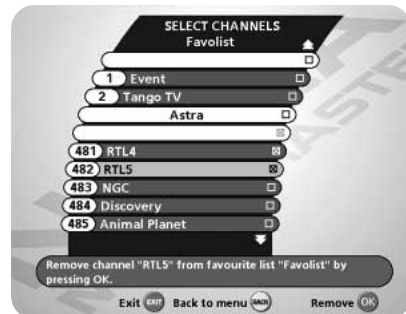
Lock channels

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.
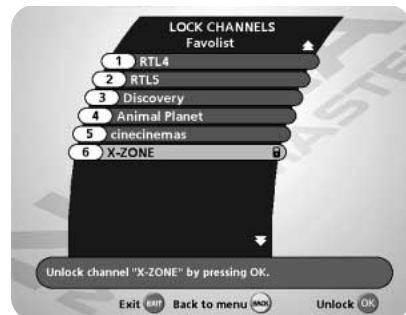
Press the OPTION (green) button and enter your access code to open a locked channel.
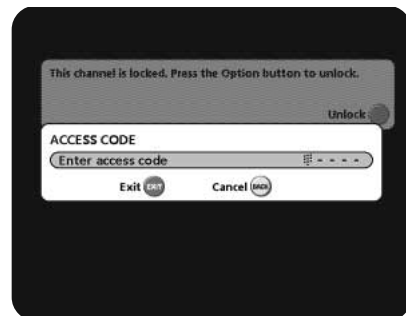
Rename channels

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

Delete the present name by using ◄. To enter the new name, please follow the instructions under the headline "**How to give a specific name**" on page 41.

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

GB 42
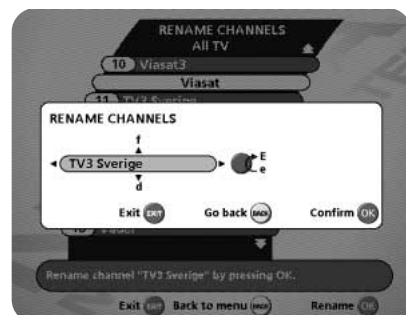
MAIN MENU

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 or channels you want to delete by selecting the channel and pressing **OK**.
- Press **BACK** to delete the selected channels.

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 **"Free TV" or a favourite list** is selected in the "Edit channels" menu, you can remove channels from those lists.

To remove channels:
- Mark the channel or channels you want to remove by selecting the channel and pressing **OK**.
- Press **BACK** to remove the selected channels.

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

Update channels

When new TV and radio channels are added to the different satellites, you can check and automatically update the channel lists.

New channels will be marked with a star ★ in the channel lists. After each download, check the channel lists for new channels marked with ★.

During the search procedure the old channels will be coloured light blue, and new channels found will be coloured black in the "Channel search progress" menu.

The following alternatives are selectable:

1 **All configured satellites**: Will search and update the lists from those satellites you use to watch channels from. If you, for example, have downloaded channels from ASTRA, THOR and SIRIUS, those three satellites will be updated.

   Note: This alternative is only possible for fixed antennas. If your antenna is controled by motor, the first line will not be selectable.

2 **Current satellite**: Will search and update the lists from the satellite you right now are watching TV.

3 **Current network**: Will search and update the lists from the network the present channel belongs to.

4 **Current transponder**: Will search and update the lists from the transponder the present channel belongs to.

You can find out which satellite and network the channel you are watching right now belongs to:

While watching a channel, first press **OK**, then the **"i"** button.
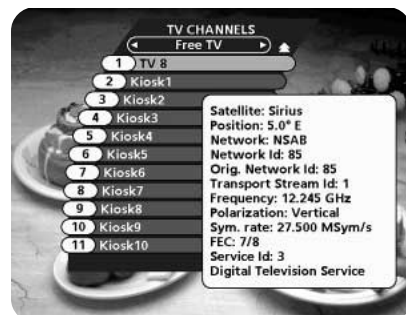
Update channels via a PC

It is also possible to update new channels via internet and a PC. You will find information how this is done on the URL http://www.lyngsat.com/nokia

GB 44

MAIN MENU

System configuration

You will be asked to enter your access code before you can enter this menu. The code is preset to 1234 from the factory.
(The code can be changed from the Parental control menu. Refer to page 50.)

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."
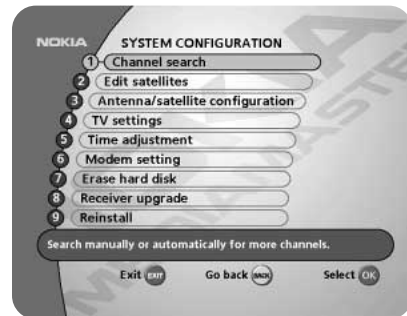
Channel search

The procedure is the same as performed during the First Time Installation. Please refer to page 18-19.

Edit satellites

When a new satellite has been sent into orbit, or if you select a not preprogrammed satellite, you can add it to the existing satellite list.

To add a new satellite

- Select the line "New satellite".

- Press **OK**.

- Enter the name of the new satellite. (How to enter a name is described on page 41.)

- Enter the position (in degrees) with the numeric buttons on the remote control. (Use the left arrow button to erase digits.)

- Select orientation; East or West.

- Press **OK** to save these settings.

Before you can watch channels from that new satellite you must also carry out the following steps:

For a fixed antenna:

- Select "Antenna/Satellite configuration" in the "System configuration" menu.

- Follow the instructions on page 15. From the menu "Antenna adjustment" select the **new** satellite name.

GB 45

MAIN MENU

- Adjust the antenna towards the new satellite. Look at the Signal strength (AGC) and Signal quality (SNR) bar indications to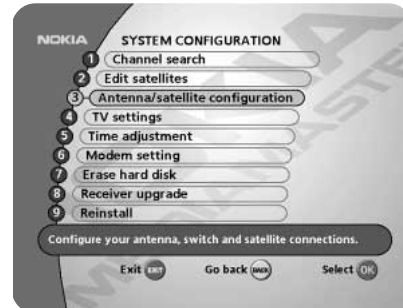 check the levels. **Please note**: In this case, (a brand-new satellite), you do **not** get a TV picture in the background on the screen, even when the SNR indication is good! When both indication bars (AGC and SNR) are good:

- Press the **BACK** button until you return to the "System configuration" menu.

- Select "Channel search".

- Select "Manual" or "Advanced" search.

- Select the new satellite name.

- Enter the settings for Transponder frequency, Polarization etc. for the new satellite.

- Press **OK** to start the channel search procedure in order to download channels from the new satellite.

- When you get the message on the screen that "you have found X new TV-channels and X new radio channels", press **OK** to save the new channels.

The new channels will be saved in the channel list they belong to.

At the same time as you save the new channels, also the settings for the new satellite will be saved.

When your antenna is controlled by a motor:

- Enter the "Channel search" menu.

- Select "Manual" or "Advanced" search.

- Select the new satellite name.

- Enter the settings for Transponder frequency, Polarization etc. for the new satellite.

- Select the last line, "Adjust motor", from where you now, by pressing the ◄ ► buttons on the remote control, can move the antenna to the position for the new satellite.
  Look at the Signal strength (AGC) and Signal quality (SNR) bar indications to check the levels. **Please note**: In this case, (a brand-new satellite), you do **not** get a TV picture in the background on the screen, even when the SNR indication is good! When both indication bars (AGC and SNR) are good:

- Press **OK** to start the channel search procedure in order to download channels from the new satellite.

- When you get the message on the screen that "you have found X new TV-channels and X new radio channels", press **OK** to save the new channels.

The new channels will be saved in the channel list they belong to.

The position of the new satellite will be added to the preprogrammed satellite positions in the antenna motor.

GB 46
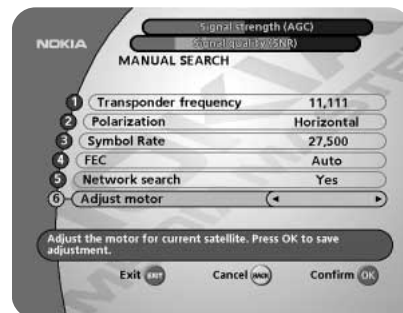
MAIN MENU

View attributes

Chech position and orientation for different satellites by selecting the line "View attributes".

Delete satellite

You can also delete an added satellite. (This is not possible for the factory preprogrammed satellites.)

If you want to delete the satellite from which you right now are watching a channel, you will get a screen message about how to proceed.

When you delete a satellite you also delete its channels from the channel lists.

Antenna/Satellite configuration

Set up and adjust motor

The procedure is the same as performed during the First Time Installation. Please refer to page 16.

East/West limit setup

You only have to set one or both of these limits if the antenna is prevented from reaching its East/West limit positions. This could be the case e.g. if the antenna is mounted to close to a wall or in any similar situation.

• To set these limits, select East or West limit setup and press **OK**.

• Adjust the antenna using the ◄ ► buttons.

Watch the antenna movement, and when it has reached its possible limit, press **OK**. The other limit is set in the same way (if needed).

Remove limits

In case you need to remove limits.

When you perform this command you do not just remove the limits. The motor will also turn itself to the 0° (Zero) position. However, next time you select a channel the motor will turn to its proper position.
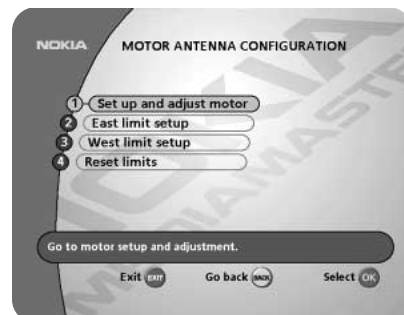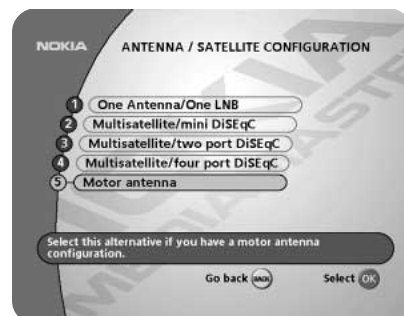
TV settings

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.
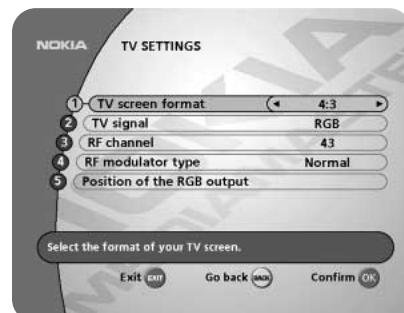
MAIN MENU

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, you must also change it to the same value on the TV. If you do not, the picture will become black.

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

RF modulator type

If the Mediamaster is connected to the TV by an RF cable, 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 "**Normal (PAL B/G)**" for all countries except the UK.

Select "**UK (PAL I)**" when the box is used in the UK.

Position of the RGB output

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

Time adjustment

The time is adjusted by using the ▼ ▲ buttons, ±1/2 an hour at a time.
You can also adjust the minutes by using the ◄ ► buttons.
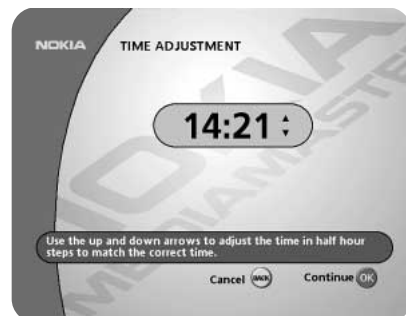
Modem Setting

The modem function is only valid in Scandinavia.

The Mediamaster is equipped with a built in telephone modem. Via the modem so called "interactive services", such as e.g. ordering movies, can be performed.

You will get more information concerning this service by your service provider. More information may also be available in the "System information" menu, ref. to page 54.

When configuring the modem, the following parameters have to be set.

Country: Select the country where the box is installed.

Pulse or tone: Select the alternative valid for your system. If in doubt, please contakt your phone operator.

Prefix: If the connection has to pass a switch board, enter the figure that will open the line.

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MAIN MENU

Information about the modem

This equipment has been approved pursuant to Council Decision 98/482/EC [CTR 21] for pan-European single terminal connection to the Public Switched telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point.

In the event of problems, you sholud contact your equipment supplier in the first instance.

Erase hard disk

When you feel that the hard disk is a bit too cluttered, a good advice is to clean it up totally. Select "**Erase hard disk**" and everything on it will be wiped out.

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.

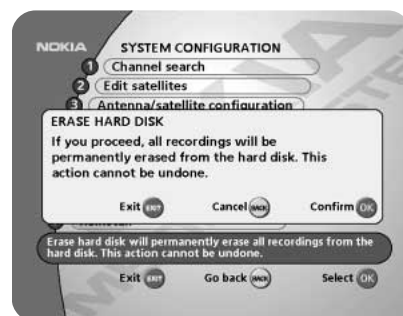Enter this menu to check for new software. If new software is available you will get information in the menu on how to proceed.

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 will damage the software and the receiver will have to be sent in for service!
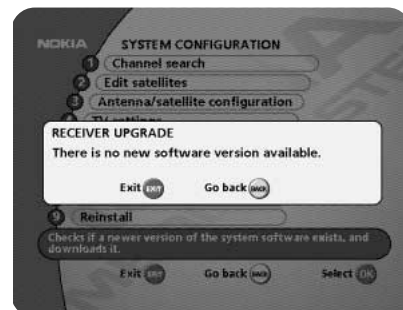
Reinstall

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 perform a reinstallation you can leave this menu when the warning is displayed by pressing BACK.

GB 49
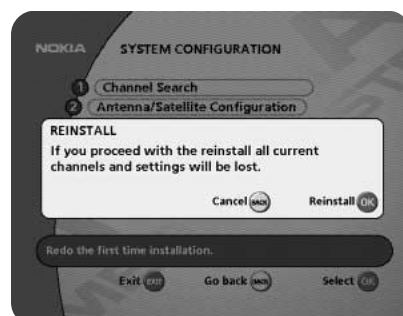
MAIN MENU

User preferences

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

Language preferences

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

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.
In case you want to control the Teletext function with your TV remote control, this parameter must be set to "Invisible".

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 standby.

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.

Do not use this Age rating control function if you are using the Age rating control provided with your Smartcard. See page 56.

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!
If you forget it, you have to contact an Authorized Nokia Service Center to get help.**

GB 50
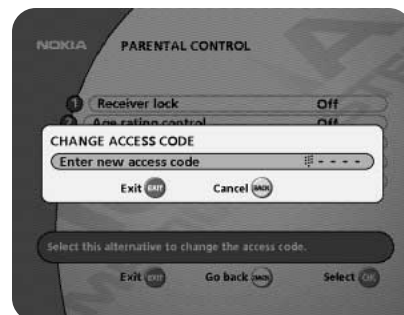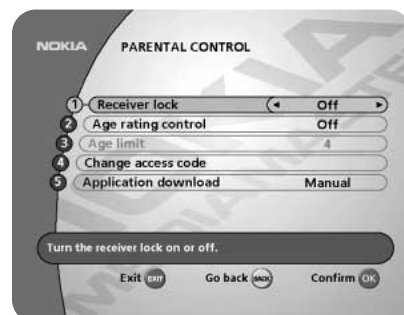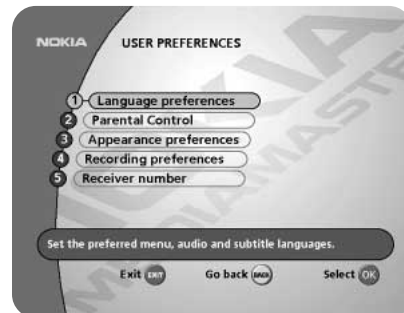
MAIN MENU

Application download ("Open TV" applications)

From some channels it is possible to download specific pro-
gramme applications such as games and various information.
When you select the alternative "Manual" below, channels which
provide these services will show a symbol in the upper left cor-
ner of the screen. By pressing the red button on the remote con-
trol you start the download of the application.

Manual: You select to download the application manually. A Sym-
bol will be shown on the screen.

Automatic: When you select a channel containing a
downloadable application, it will automatically be downloaded
when you select the channel.

Off: It will not be possible to download applications. No symbol
will be shown on the screen.

To close an application and return to watch TV, press the **P+** or
P- button on the remote control.

Symbol on screen

During an application download
the picture above will be shown
on the TV screen

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.
In case you want to control the Teletext function with your TV re-
mote control, this parameter must be set to "Invisible".

Picture format

If you have a TV set with the 4:3 picture format and the transmis-
sion 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.
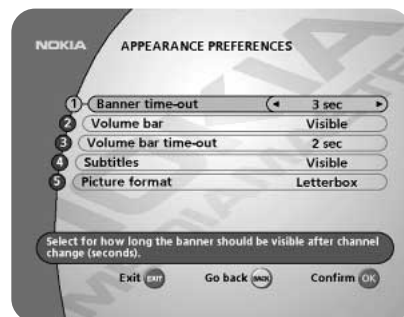
'fullscreen'   'letterbox'

GB 51

MAIN MENU

Recording preferences

Changes made here will be the new default settings and will affect recordings made to the disk.

Make new recordings

The settings made here will affect Normal and Timer recordings only. Pause recordings are always erasable.

Recordings with the **Erasable** property will automatically be erased in order to make space for new recordings. Refer to line 6, "Erase before record (hours)".

If you select **Permanent** you can only erase recordings manually. This means, that if you fill up the disk with **Permanent** recordings, no new recordings can be made until you clean the disk from at least some of them. This could mean the difference between success and disaster when you e.g. make a Timer recording.

The default and also recommended setting is **Erasable**.

Saved pause recordings

If you select e.g. 10, there will never be more than 10 **pause recordings** stored at the same time on the disk. For every new **pause recording** you make, the oldest of them will automatically be erased.

Please note, that this will only affect pause recordings, not the "normal" recordings. Pause recordings have the word **Pause** as an extension at the end of the line in the "List of recordings". See the figure to the right.

Subtitles

Select "**Yes**" if you want the subtitles in e.g. a movie to be recorded, or "**No**" if not.

Repeat playing

Normally you would want a playback to stop when it has reached its end. If so, select "**No**".

If you want the playback to automatically restart every time the end is reached, select "**Yes**".

Stop recording

While a **Pause recording** (not a normal recording) is still in progress you can start the playback of it (= start watching it). In the playback mode it is possible to use the "fast forward" function in order to catch up the live part of the programme.
When you do that, and you reach the end of the recording, one of the two following things will occur.

• If you select "**Yes**", which is the default setting, on line 5, : When the end of the recording is reached by "fast forward" , the recording will automatically stop and the live programme will be shown.
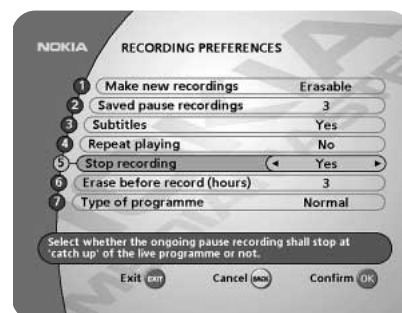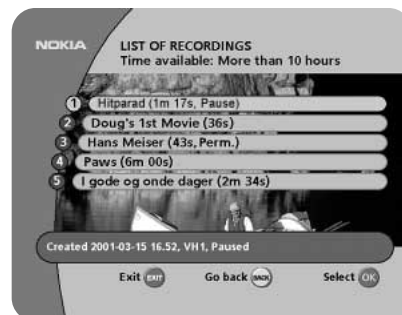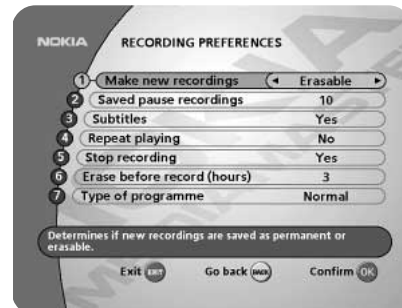
MAIN MENU

- If you select "**No**" on line 5:
  A few seconds before the live programme is caught up, the "fast forward" will slow down to normal speed. Due to the fact that the recording is still going on, you will now still be watching the recorded programme, but with just a few seconds delay from the live version.
  However, in this situation you can stop the recording manually to watch the programme live instead.

Erase before record (hours)

Select how many hours you want to be automatically erased from the disk each time a new recording is about to start. Only erasable recordings will be deleted.

When you get a message saying that it is not possible to erase the requested time, it is high time to clean up the disk.

Note, that the settings here are highly associated with the following subject, about **Type of programme**.

Type of programme

Different types of programmes will take up more or less space on the disk when they are recorded. A recording of e.g. a pop programme where one billion different colours will explode on the screen each and every second (or any other programme with high activity) will take considerable more disk space than e.g. the latest news read to you aloud from the local TV studio.

Be aware that settings made in this menu has nothing to do with, and does not affect, the recording quality.
High does not mean that the recording quality is set to high and Low is not the same as low recording quality.

You must rather look upon this function as an assistance for the box to estimate the free recording space (in hours) available on the disk. This estimated time will be shown as "**Time available**" in the "**List of recordings**". The function also affects the previous subject "**Erase before record (hours)**".

The four alternatives are:

High: For programme types with very high activity contents.

Normal: This corresponds to most programme types. It is therefore the default setting.

Low: For programme types such as news broadcast and similar.

Radio: For recording of programmes when the box is in Radio mode.

It is not necessary to make changes in this menu every time you are going to make a recording.
You should select one of the alternatives that corresponds to the type of recordings **you most frequently** make.

As long as you always keep the disk almost clean, settings in this menu are less important. But as the disk is running out of space the settings will be more and more important.
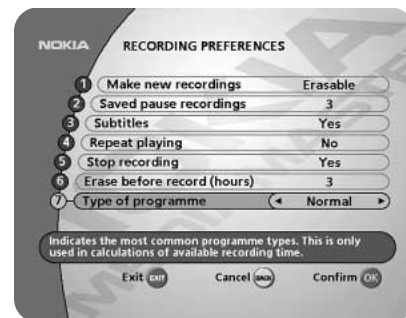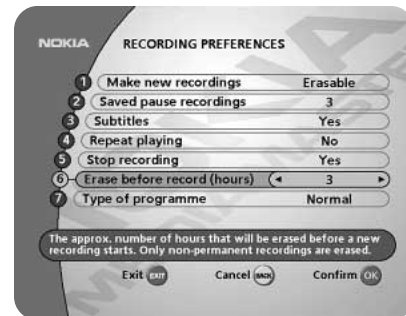
MAIN MENU

The following extreme example

will show what might happen when the setting does not correspond with the reality, and the disk is getting filled up.

You are going to visit a concert, but do not want to miss the football championship that will be shown during your visit. You intend to watch it when you come back home.

A Timer recording is perfect in this case. You are as usual in a hurry and just throw an eye at "Time available" in the "List of Recordings ". It will let you know that "Approx. 3 hours" are available. Good! More than enough.

As soon as you return back home you start the playback and everything is OK in 6 minutes and 12 seconds. That is when the playback ends. We will skip your comments and instead find out what went wrong.

As you are a music lover and often record music, the setting in this case was **Radio**. It should have been set to **High** instead.

Conclusion: Keep the disk clean and pay some attention to settings from this menu.

Receiver number

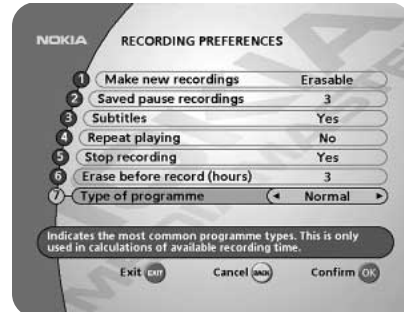If you have more than one digital satellite receiver using the same IR protocoll, you can use the same remote control to control them. To do that you have to give each receiver a specific number. There are four numbers to choose from.

To access a specific receiver, press ◄ ▼ ► **X** on your remote control simultaneously, where X is the number you have chosen for the specific receiver.
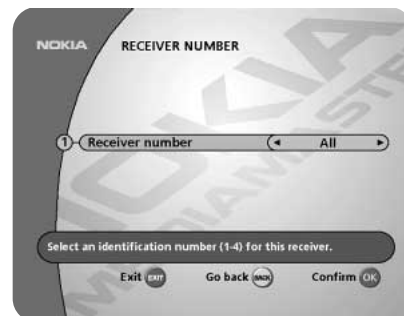
System information

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.

MAIN MENU

Release info

The alternative "Release info" will only be available when the new downloaded software contains information.

If so, by pressing the **i** button you will get a message describing the new functions in the latest software release you have downloaded to the Mediamaster.
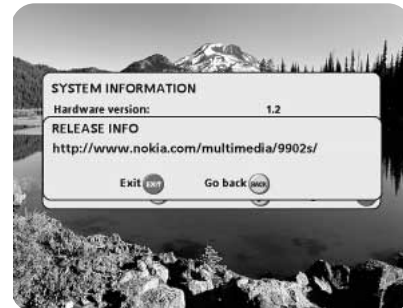
Diagnostics

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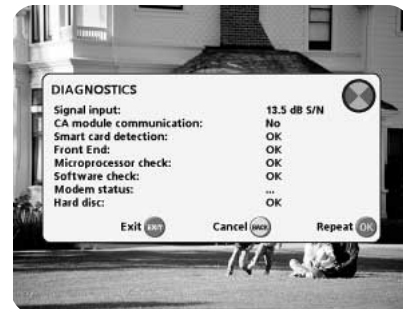
Conditional Access

This menu will only be activated if you have inserted a valid Smartcard 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.
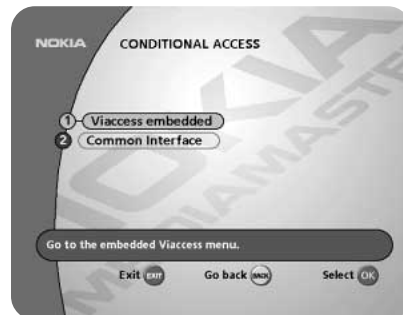
Viaccess embedded

From here you get subscription information from a Smartcard supplied by a Viaccess Service Provider.

MAIN MENU

Smartcard settings

Age rating control

This is an age rating control function which is connected to your smartcard. It will only affect the channels you have subscribed to. Choose "On" if you want to activate the age rating.
This means that you have to enter your smartcard PIN code to be able to watch the age rated channels. The age rating of each programme is controlled by your Service Provider.

Do not use this Age rating control if you are using the Age rating control within the Parental control menu. See page 50.

Age limit

Select an age limit. Programmes transmitted with a lower limit age will not need the access code.

Change Smartcard code

In this menu you can change the code on your Smartcard.
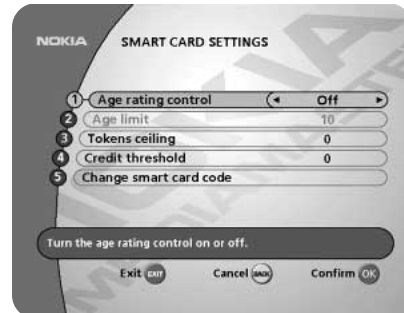
Common Interface (CI)

These menus are provided by the CA module and its Smartcard.

Timer

General

You can program the Mediamaster to start and stop at a predefined time.

The function is very useful when you want to record a programme and you are unable to start/stop the recording event yourself.
Or when you just want to be reminded of the start of a programme you do not want to miss.

A programme that already has been started by this Timer function will lock the box. The display on the box will indicate "**t   x**" (where x is the channel number) while you are watching a programme you have been reminded to watch. During a digital recording event the display will show "**r E C**".

You can not change channels or call up a menu until the stop time is reached. However, you can interrupt the event (e.g. stop a recording) by pressing the **MENU** button (about 5-10 seconds) until a channel number appears in the display. Please note, that **this is the only way to stop a recording that has started** (apart from pulling the plug from the mains, which is **not to** recommend.)

MAIN MENU

Important information related to the timer recording

If you program the box to perform a timer recording e.g. in the middle of the night (or at any other unsuitable time), be sure to turn the TV set off with the mechanical switch located on the TV! If you turn the TV set off by just putting it into standby mode with the remote controll, it will be turned on at the time for the recording!

Timer setup

• Select **Timer** from the Main Menu.

• Press **OK** to enter the **Timer Setup** menu from where you make the settings.

• First, select **Channel List** with the ◄ ► buttons.

• Then, step to Channel to select desired TV/Radio channel.

• The present date (month/day) will automatically be preset. When you change month and day, always use two digits for each of them.

• If you enter a wrong digit you can erase it with the ◄ button.

The different start times may never overlap each other. If you try to enter a start or stop time within an already occupied period of time you will get a warning message about it.

• On the last line you select the **Action**. When you want an event to be recorded **on the built in hard disk** at the date and time you entered, select **Record**. Events that you want to be recorded this way will be marked with a red symbol in the Timer list.
Do not forget to ensure that you have enough space on the disk at the time for the recording to take place.

• If you just want to be reminded of a programme start,or when you want to make a traditional analogue (VCR) recording, select **View**.

Up to 9 different events can be predefined. The events will be sorted in start time order.
At each stop time the box will return to the state it had before it started.

You can erase a predefined event by pressing the ► button twice.

(If you regret the command after the first press, go to another line by pressing either ▼ or ▲ and the event will not be erased.)
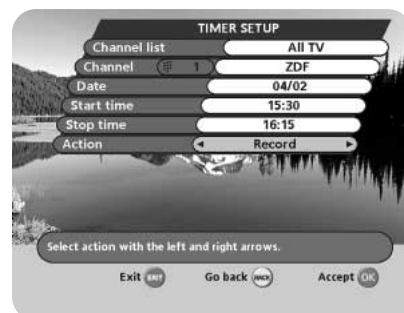
Indicates a recording event
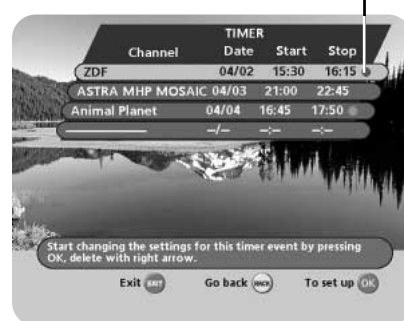
GLOSSARY OF TERMS

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

AGC
Automatic Gain Control.

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.

FEC
Forward Error Correction. Correction of faulty bits in the received signal.

GHz
The prefix giga means billion, and Hertz means cycles per second. Signals in the GHz range are often called microwaves.

LNB (low-noise block converter) or LNBF
An electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by the Mediamaster.

L.O.
Local oscillator part of the LNB. It converts from the satellite frequency down to a frequency acceptable for the Mediamaster.

Mediamaster
A unit that converts the digital satellite 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. 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.

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.

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

PCR
Program Clock Reference.

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.

Polarization
Polarization allows several programmes to be fit into the same frequency band. The signals from a satellite are transmitted either with linear (vertical or horizontal) polarization or circular (right or left) polarization.

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 programms/services and distributes them to customers.

SNR
Signal to Noice Ratio. Signal quality measure.

S/PDIF
Sony/Philips digital interface format. Digital audio output.

Symbol rate
Speed of the digital transmission

SW
Software. Programme code.

Timer
A timer signals, starts or stops equipment at a preset time.

TS
Transport stream.

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 into 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 Media-master out of standby mode.
No sound or picture.	The satellite dish is not pointing at the satellite.	Adjust the dish. Check the signal level indicator in one of the channel search submenus.
	No signal or weak signal.	Check the cable connections, LNB and other equipment connected between the LNB and the receiver, or adjust the dish.
No sound or picture on horizontal modulated transponder.	The LNB is faulty.	Replace the LNB. Increase the LNB voltage with 0,5 V from the System Configuration menu if you have a long cable.
Bad picture/blocking error.	The satellite dish is not pointing at the satellite.	Adjust the dish.
	Signal too strong.	Connect a signal attenuator to the LNB input.
	Satellite dish is too small.	Change to a larger dish.
	LNB noise factor too high.	Change to an LNB with lower noise factor.
	The LNB is faulty.	Change the LNB.
There is no Welcome menu on the screen after you switched on the Mediamaster for the first time.	The system is connected by SCART cables and the TV is not in AV/EXT mode.	If the system is connected by SCART cables, switch the TV to the appropriate AV input.
	The system is connected by RF cables and the TV is not set to the channel tuned for digital satellite TV.	If the system is connected by RF cables, switch the TV to the channel for digital satellite TV. If you have not tuned in the TV you may do this first. Please look in the TV manual for instructions. You can also change the RF-channel in the Mediamaster. See TV settings.
There is interference on your digital satellite channels, an existing terrestrial channel or video signal.	The system is connected by RF cables and the output channel of the Media-master interferes with an existing terrestrial channel or video signal.	Change the Mediamaster output channel to a more suitable channel between 21-69, or connect the system by SCART cables.
You made a video recording of a digital satellite channel and whole or parts of the programme was not recorded.	The Mediamaster was not left on the appropriate channel.	If you make a recording of digital satellite TV your Mediamaster has to be left on the channel you want to record.
	The system is connected by SCART cables and the VCR is not in AV/EXT mode.	If the system is connected by SCART cables, switch the VCR to appropriate AV input.
	The system is connected by RF cables and the VCR is not set to the channel tuned for digital satellite TV.	If the system is connected by RF cables, switch the VCR to the channel for digital satellite TV. If you have not tuned in the VCR you may do this first. Please look in the VCR manual for instructions.

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PROBLEM SOLVING

Problem	Possible causes	What to do
The remote control is not working.	Battery exhausted. Remote control is incorrectly aimed. The Mediamaster is in standby mode. You have set a receiver number and then changed batteries in the remote control.	Change the batteries (both). Aim the remote control at box. Check that nothing blocks the front panel. Check if (.) is flashing on the front panel display when you press a button. If not replace the batteries (both). Press ◄ ▼ ► X on your remote control simultaneously, where X is the number you have chosen for the specific receiver. If you don´t remember what number you have used, try 1-4.
You see the on-screen message. Viewing card error.	The Mediamaster can't recognise your Smartcard.	Check that you are using the proper Smartcard. Check that the Smartcard has been correctly inserted with the gold chip downwards. If the problem persists, you may have a problem with the card. Contact your dealer or Service Provider.
You have forgotten your secret PIN code.		Contact your Service Provider. They will help you set it up again.
CA Module is not working.	CA module is not installed. CA module is not correctly inserted.	Check that the CA module has been correctly inserted. Contact your dealer or Service Provider.
Black picture.	CA module is inserted but not working correctly.	Eject the CA module and reinsert it again.

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

`9902`	When power-up, boot version, product family and system software version is shown.	`CJ`	In TV mode.
`Ad2.0`	When starting from standby, product variant and system software version is shown.	`AU`	In video mode.
`50`	Remaining time in percent during the download procedure.	`odL`	When downloading new software via the air.
`08:30`	The Mediamaster is in standby mode, and current time is shown.	`SdL`	When downloading new software via the Serial RS232 socket.
`140`	Channel number in TV mode.	`E123`	Error messages. For service personnel
`A 30`	Channel number in radio mode.		Lights when no signal is being received.
`CH43`	RF channel in tuning mode.		Flashes when pressing a button on the remote control.

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TECHNICAL SPECIFICATIONS

Transmission standards

DVB, MPEG 2

LNB / Tuner input

Connector	1x F-type (LNB)
RF input frequency	950-2150 MHz
RF input power level	-25 to -65 dBm
Supply voltage	13 /18 V ±5%
Max. current	500 mA, overload protected
Control voltage	22 kHz, 0,65 V_{pp}
DiSEqC	Tone burst A/B or Level 1.2
RF impedance	75 Ω

RF modulator

In/out connector	IEC female / IEC male
Modulator frequency	470 to 862 MHz
Output level	70 ± 5dBV
Output channel	21-69
Preset channel	43
Output signal	PAL B/G orPAL I

TV SCART

Video output	1 V_{pp} (±1 dB) / 75 Ω
Audio output	0,5 V_{rms} / R_L >10 kΩ
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 kΩ

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 kΩ
Audio input	0,5 Vr_{ms} / R_L >10 kΩ
Status input	0/6/12 V / R_L >10 kΩ
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} ± 0,5 dB/ R_L 10 kΩ

SERIAL (RS 232) serial data

Connector	9-pin D-sub male	
Signals	RS232, max. 57600 bit/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 on the phone line)

Contact	modular 6-pin jack
Protocol	V22, 1200 bits/sec

Security information

The modem connection is made according to the TNV 3 circuit type. All other connections are made according to the SELV circuit type.

Conditional Access system

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

Smartcard Interface

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

Front panel

4x7 segment numeric LED display, Buttons: ⏻ , ▼ ▲ (standby, progr. number up and down)

Other data

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

Hard disk	40 Gigabyte
Supply voltage	95-250 V AC, 50-60 Hz
Power consumption max	27 W at 500 mA LNB load
Power consumption in standby	7,5 W
Operating temperature	+5° C to +40° 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 69 mm
Weight	2,4 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)

Important Information

Wiring the plug (UK and Eire only)

The mains lead on this product is already fitted with a non-rewireable (moulded) plug incorporating a fuse, the value of which is indicated on the pin face of the plug.

Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 of the same rating fuse must be used. If the fuse cover is detachable, always refit the cover after replacing the fuse.

NEVER use the plug with the fuse cover omitted. If the fitted plug is not suitable for your socket outlets, it should be cut off, after having first removed the fuse, and an appropriate plug fitted in its place. If this new plug contains a fuse, its value should be the same as that removed from the non-rewireable plug.

The severed plug must be destroyed immediately to avoid possible shock hazard. If you need to replace the mains plug, follow the instructions given below:

The wires in the mains lead are coloured in accordance with the following code:

BLUE - Neutral (N):

BROWN - Live (L). As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED. On no account should either of these wires be connected to the terminal marked E or coloured GREEN or GREEN and YELLOW.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead: not simply over the two wires.

If in doubt, consult a qualified electrician.
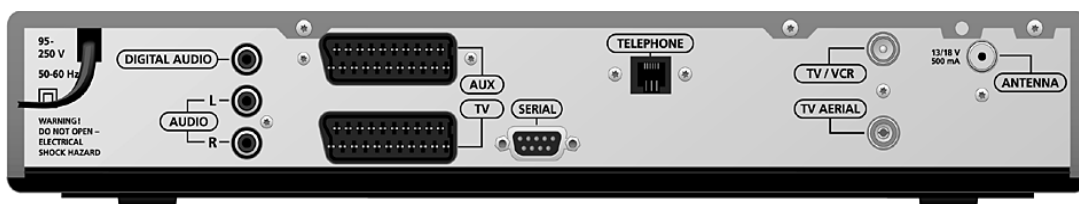
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