

# DVB-HD

## Guide

# Contents

## **Introducing the module and remote control, 3**

Find out how to use your remote control with the DVB Module.

## **Daily use, 6**

How to bring up and use the menus on the screen.

## **See programme information, 8**

How to bring up and use the Programme Guide and information display, which options are available from the Programme Guide and information display on the screen.

## **Timer recording, 10**

How to program a recording directly from the Programme Guide.

## **Setup menu, 11**

Find out details about the SETUP menu; how to make your preference settings such as language, check for new software, and set a parental lock and maturity rating. You can also find out how to tune in and edit channels and stations, and change your setup.

## **First-time setup, 17**

See what the first-time setup sequence consists of.

## **Connections, 18**

How to connect the Conditional Access Module and insert Smart Cards.

## **What to do if ..., 20**

Find answers to frequently asked questions, such as how to find new channels or stations, how to check the signal strength and more.

## **Glossary, 22**

Find a list of commonly used DVB terms.

# Introducing the module and remote control

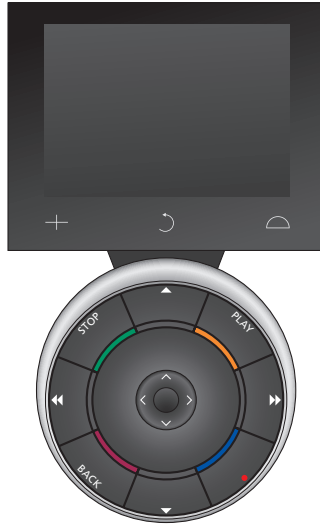
When your television is equipped with the DVB Module, you can receive digital terrestrial, cable and satellite programmes depending on your module options.

This Guide may contain features and functions that are not available in your product yet. You will have access to new functions when new software is available. Also the Guide contains information which may not be supported by your module. Contact your Bang & Olufsen retailer for further information.

The instructions in this Guide are based on the Beo5 remote control with the navigation button enabled. To ease operation of the module with a Beo4 remote control, Beo4 based instructions are inserted in parentheses when needed.

For information about the navigation button, see the guide enclosed with your television. For general information about remote control operation, refer to the guide enclosed with your remote control.

## Remote control



*Your Beo5 must be configured on the base of a favourite list created in the DVB Module. If the channels in the favourite list are rearranged, your Beo5 must be reconfigured*

### Beo5 sources and functions

#### Select zone ...

In the Zones screen you select the area in which your television is placed.

#### View your sources ...

When you have selected a zone, the audio and video sources available in this zone appear as buttons on the screen. Select a source and activate it by a press.

#### Activate source controls ...

Once a source is activated, the functions related to this source appear as buttons on the screen. If you select TV for example, you will be able to activate functions such as Text or Menu.



Displays digits to select, for example, a television channel. Press again to return to the previous Beo5 screen.



Backs up through Beo5 display screens.



Accesses buttons to 'set the scene' around your Bang & Olufsen setup, for example to control speakers and stand positions - and to select zone. Press again to return to the previous Beo5 screen.

*To use the coloured buttons press the volume wheel next to the specific colours.*

### Beo4 sources and functions

#### Source buttons ...

The source buttons are used for switching on your Bang & Olufsen audio and video products, other audio/video integrated systems and the Bang & Olufsen light control. Some externally connected products may have to be switched on via the **LIST** button. Pressing **LIST** repeatedly displays extra "buttons" for functions or sources in the Beo4 display. Press the **centre** button to activate the chosen functions.

#### Control buttons within the star-shaped button ...

The arrow buttons, the navigation button, the centre button and the coloured buttons are used for generic source operation and menu operation.



- DTV** Switch on your television and activate the DVB Module
- 0-9** Select channel or station numbers or menus, or enter numbers in menus
- TEXT** Bring up teletext, if provided by the channel you are currently watching
- MENU** Bring up the DVB menu overlay as described on [page 6](#). Press twice to bring up the TV menu. You can also bring up the menu overlay with the yellow button
- ↕** Step between channels or stations
- ◀ ▶** While DTV is selected as source, you can use the buttons to step between your Channel/Station Groups and the Channel/Station Lists
- < > ↕** Navigation button left, right, up and down <, >, ^ and v – move in menus by pressing the button in the direction you need
- Centre button – select and activate a function or confirm a choice in a menu. Press and hold while watching television via the DVB Module to bring up a Channel/Station List
- BACK** Move backwards through menus. Long press to exit menus completely
- Coloured buttons** The coloured buttons are used as "shortcuts" to functions as described on [page 6](#), or used as indicated in the DVB menus

For special Digital Text/IMHEG operation, [see page 5](#).

**IMPORTANT – Digital Text/MHEG operation!**

Your DVB module supports Digital Text/MHEG, which is required by some countries and CA modules. Digital Text can be enabled in the SETUP menu, [see page 14](#). When Digital Text is enabled, operation of the DVB module with a Beo4 will differ in some aspects from otherwise described in this Guide:

- > When no menu is shown on the screen, you must press **MENU** before a coloured button. If you are in a link room, you must press and hold **BACK** before a coloured button.
- > If you are in a link room, you must press and hold **BACK** immediately followed by **0** instead of **TEXT**.
- > If you have a Beo4 without a navigation button, or if the navigation button is disabled, you may need to press **EXIT** or **BACK** before **▲** and **▼**.

# Daily use

In the Beo5 source display for the DVB Module you can access all the main functions of the module.

If you have a Beo4, a menu overlay gives access to all the main functions of the DVB Module. Bring up the overlay with the **MENU** button. The overlay contains sub-menus which can be accessed directly by means of the coloured buttons or the number buttons.\*<sup>1</sup>

In a link room, it is only possible to bring up the menu overlay by means of the **yellow** button.\*<sup>2</sup>

\*<sup>1</sup> If Digital Text is enabled, you must press **MENU** before a coloured button on Beo4.

\*<sup>2</sup> If Digital Text is enabled and you are in a link room, press and hold **BACK** then the **yellow** button on Beo4 to bring up the menu overlay. To access the functions without bringing up the overlay, press and hold **BACK** then a coloured button. To use functions associated with number buttons, you must bring up the menu overlay first.

## Display or menu overlay

### The Beo4 menu overlay ...

Press to switch between Radio and TV mode

Press to bring up the Programme Guide with information on current and next programmes

Press to bring up or remove the DVB menu overlay

Press to bring up information on the programme you are currently watching or on a highlighted programme

Press to bring up your Channel or Station Groups

Press to bring up the menu for selecting subtitles language for the current channel

Press to bring up the menu for selecting audio language for the current channel

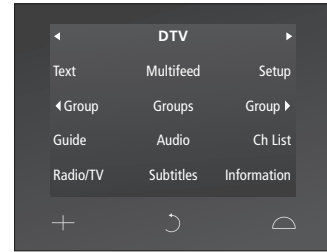
Press to bring up the SETUP menu. The SETUP menu is described in more details on [pages 11-16](#)

Press to bring up a list of Channels or Stations

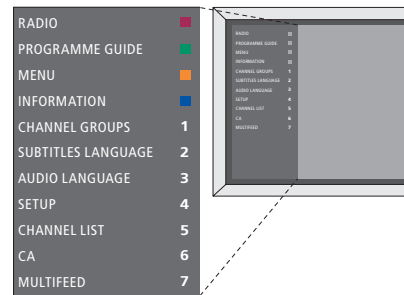
Press to bring up the CA menu

Press to bring up the MULTIFEED menu\*<sup>3</sup>

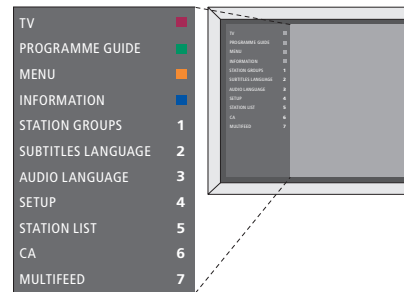
\*<sup>3</sup> MULTIFEED is only available if supported by your programme provider.



The Beo5 source display.



The DVB menu overlay in TV mode.



The DVB menu overlay in Radio mode.

## Channel and station groups

Select a channel group. Channel groups can be groups that you have made yourself or programme list. Programme lists are sent out by some programme providers. They appear and function in much the same way as groups and can be brought up and seen just like groups.

- > While watching television, press ◀ or ▶ to step between groups. The last activated channel in the group is shown, or ...
- > ... press **Groups** to bring up an overview of the channel groups. (Beo4: Press **MENU** then 1).
- > Use the navigation button up and down to step through the groups.
- > Press the **yellow** button to show or hide the highlighted group.
- > Press the **centre** button to bring up the highlighted group.

### Add a channel or station to a group ...

- > Select an empty group in the menu, or ...
- > ... select an existing group.
- > Press the **yellow** button to open the **COPY FROM** menu.
- > Select a channel from the list using the navigation button up or down.
- > Press the **yellow** button to copy the selected channel to the group.
- > Continue to add other channels if you wish, or ...
- > ... press the **centre** button to store the selection.

## Channel and station lists

Bring up a channel list and select a channel.

- > Press **Ch List** to bring up a list of channels in the current group. (Beo4: Press and hold the **centre** button).
- > Use the navigation button up or down to highlight the desired channel in the group or press a number button to bring up the channel positioned at the chosen number in the group.
- > Use the navigation button left or right to go to the previous or next page of the channel list.
- > Press ◀ **Group** or **Group** ▶ on Beo5 to step between groups including the main list.\*1
- > Press the **centre** button to bring up the highlighted channel.
- > Press **BACK** to exit the list.

*Press the **green** button to switch between alphabetical and numerical sorting of the channels.*

*\*1 To go to another group's list with Beo4, you must press the **yellow** button.*

## Remove or restore channels

Remove selected channels that you do not want in your channel list or restore selected channels that you have removed from your channels list.

### Remove channels ...

- > From the channel list, use the navigation button up or down to highlight the channel you wish to remove.
- > Use the navigation button left or right to go to the previous or next page of the channel list.
- > Press the **yellow** button twice to remove the selected channel from the list.

### Restore channels ...

- > Press **Setup** to bring up the DVB SETUP menu. (Beo4: Press **MENU** then 4).
- > Press the **centre** button to bring up the CHANNELS/STATIONS menu.
- > Use the navigation button down to highlight EDIT and press the **centre** button.
- > Use the navigation button down to highlight the REMOVED CHANNELS menu and press the **centre** button.
- > Enter your access code. [Refer to page 16.](#)
- > Use the navigation button up or down to highlight the channel you wish to restore.
- > Use the navigation button left or right to go to the previous or next page of the removed channels list.
- > Press the **yellow** button to restore the selected channel. The channel is added to the channel list.

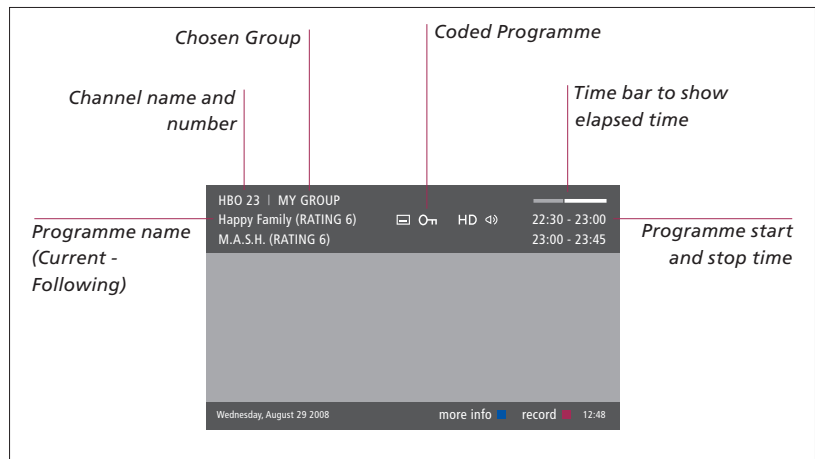
## See programme information

An information display appears briefly on the screen every time you change channels or stations.

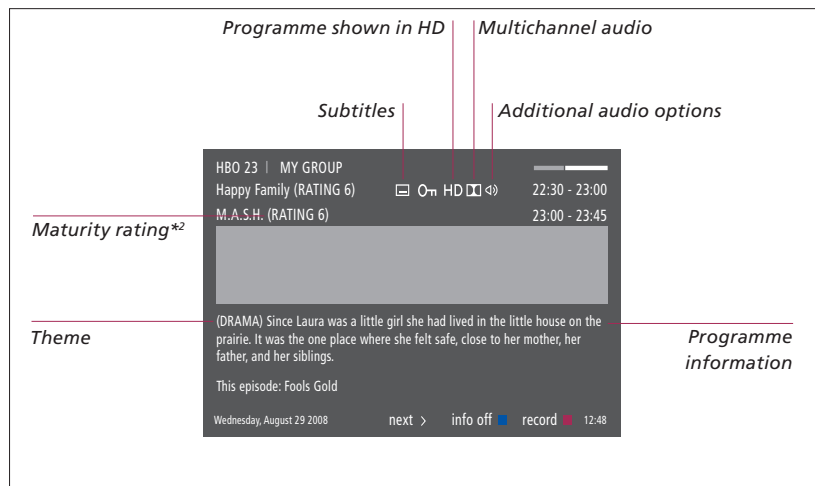
You can specify how long the information display remains on the screen, for further information, [see page 14](#).

You can bring up a display on the screen with the **blue** button to see programme information.\*<sup>1</sup>

\*<sup>1</sup> If Digital Text is enabled, you must press **MENU** before the **blue** button on Beo4.



To see further programme information, press **Information** while the display is shown. (Beo4: Press the **blue** button)\*<sup>1</sup>. Press **BACK** to leave programme information.



When the extended display is shown on the screen and the information exceeds one page, you can scroll down the page using the navigation button down.



Subtitles and additional Audio options are shown by the icons at the top. Note: This service is not offered by all channels.

\*<sup>2</sup> Maturity rating is only visible if available from your programme provider.



>> See programme information

## Subtitles and Audio

The icons  and  indicate that either additional audio or subtitle options are available.

*When no menu is shown on the screen ...*

- > Press **Subtitles** to bring up the Subtitles menu. (Beo4: Press the **MENU** button then **2**), or ...
- > ... press **Audio** to bring up the Audio menu. (Beo4: Press the **MENU** button then **3**).

Also the audio options may have the extension AC3 or AAC, for example, English AC3, which indicates different sound systems.

*AUDIO LEFT and AUDIO RIGHT allow you to direct left or right audio to the front speaker.*

## Programme Guide

You can bring up a Programme Guide that contains information about current and following programmes on all available channels. You can also change to a different channel via the Programme Guide.

- > Press **Guide** to bring up the Programme Guide. (Beo4: Press the **green** button).<sup>\*1</sup>
- > Use the navigation button up and down to step between channels.
- > Use the navigation button left and right to step in time.
- > Press the **centre** button to bring up information on a specific programme.
- > Press the **centre** button twice to select a highlighted programme.
- > Press the **green** button to switch between the current page and the Channel Programme Guide with programmes for the selected channel.
- > Press the **blue** button to update the Programme Guide if information is missing.<sup>\*2</sup>
- > Press **BACK** to remove the Programme Guide from the screen.

<sup>\*1</sup> If Digital Text is enabled, you must press **MENU** before the **green** button on Beo4.

<sup>\*2</sup> Note that sound may be muted while the Programme Guide is updated.

*From the Channel Programme Guide ...*

- > Press the **centre** button to bring up information on a specific programme.
- > Press the **centre** button twice to select a highlighted programme.
- > Press **BACK** to remove information from the screen.
- > Press the **green** button to return to the Programme Guide – Overview.

*From the specific programme information ...*

- > Press the **centre** button to select the channel.
- > Press **BACK** to return to the previous level.
- > Press and hold **BACK** to remove information from the screen.

*Pressing the **yellow** button while a channel is highlighted in the Programme Guide brings up the Programme Guide for the next group.*

*Pressing the **red** button while a channel is highlighted in the Programme Guide allows you to set a Timer recording.*

# Timer recording

When the Programme Guide is shown on the screen, you can program a recording directly if a recorder is connected to your television.

## *Timer recording ...*

- > When the programme information of the programme you want to record is shown on the screen or the programme is highlighted, follow on-screen instructions.
- > When the recording information is shown in the menu, you can change the start and stop time or date, if you want to.
- > Follow on-screen instructions to accept your recording settings and leave the menu.

*The channel number and name indicated in the Timer index in both HDR 2 and HDR 1 are the number and name from the TV list.*

*It is not possible to program a Timer recording for radio stations.*



# Setup menu

The SETUP menu is part of the complete menu system of the DVB Module. The SETUP menu contains sub-menus that you can use to make your own settings, enter information on your current setup and make channel tuning.

The ACCESS CONTROL menu within the SETUP menu allows you to restrict access to particular channels and stations and set a maturity rating.

Not all markets have the options of both cable and terrestrial at the same time.

Depending on the type of module you have, the functions will vary.

In order to bring up the SETUP menu for TV channels, you must be in TV mode, and in order to bring up the SETUP menu for Radio stations, you must be in Radio mode.

Depending on your programme provider, some settings are made automatically.

## The Channels and Stations menus

You can store digital TV channels and digital radio stations. Once you have tuned in the channels and stations, you can edit the Channel and Station Lists. This means that you reduce the time you spend looking for specific channels and stations by creating favourite groups.

You can make up to ten different Channel Groups and ten Station Groups containing only the channels and stations you choose, and you can name each of these Groups.

### TUNING ...

#### TERRESTRIAL

- > Press **Setup** to bring up the DVB SETUP menu. (Beo4: Press **MENU** then 4).
- > Press the **centre** button to bring up the CHANNELS/STATIONS menu.
- > Use the navigation button up or down to highlight TUNING and press the **centre** button.
- > Select TERRESTRIAL and press the **centre** button.
- > ACTIVE ANTENNA is highlighted. Use the navigation button left or right to indicate active antenna. Options are ON and OFF.
- > Use the navigation button down to highlight SEARCH FILTER and left or right to select which channels to search for. Options are FREE (excludes pay-channels) and ALL.
- > Use the navigation button down to highlight SEARCH MODE and left or right to select automatic or manual search. If you select manual search, see '*If you have chosen manual tuning*' under '*TERRESTRIAL*'. Otherwise ...
- > ... press the **centre** button to start the search.
- > Press and hold **BACK** to leave the menu.

*If you have chosen manual tuning ...*

- > Use the navigation button down to highlight FREQUENCY, if you have set SEARCH MODE to MANUAL. Use the number buttons to enter a frequency and use the navigation button left or right to step back and forth.
- > Use the navigation button down to highlight BANDWIDTH and left or right to select the bandwidth.
- > Use the navigation button down to highlight CHANNEL NUMBER ID and left or right to select a channel number ID.
- > Use the navigation button down to highlight CHANNEL NUMBER and left or right to select a channel number.
- > Press the **centre** button to start the search.
- > Press and hold **BACK** to leave the menu.

## >> SETUP menu

### CABLE

- > Press **Setup** to bring up the DVB SETUP menu. (Beo4: Press **MENU** then **4**).
- > Press the **centre** button to bring up the CHANNELS/STATIONS menu.
- > Use the navigation button up or down to highlight TUNING and press the **centre** button.
- > Select CABLE and press the **centre** button.\*<sup>1</sup>
- > SEARCH FILTER is highlighted. Use the navigation button left or right to select which channels to search for. Options are FREE (excludes pay-channels) and ALL.
- > Use the navigation button down to highlight NETWORK ID and use the number buttons or the navigation button left or right to enter the net identification number.\*<sup>2</sup>
- > Use the navigation button down to highlight SEARCH MODE and left and right to select automatic search or search via homing channel. If you select SEARCH VIA HOMING CHANNEL, see 'If you have chosen SEARCH VIA HOMING CHANNEL mode' under 'CABLE'. Otherwise ...
- > ... press the **centre** button to start the search.
- > Press and hold **BACK** to leave the menu.

### If you have chosen SEARCH VIA HOMING CHANNEL...

- > Use the navigation button down to highlight FREQUENCY. Use the number buttons to enter a frequency and use the navigation button left or right to step back and forth.
- > Press the **centre** button to start the search.
- > When the search is completed, CHANNELS AND STATIONS STORED appears in the display.
- > Press and hold **BACK** to leave the menu.

\*<sup>1</sup> In some countries a PROVIDER menu may be brought up. Here, you must select a programme provider. The following menu and the first-time setup menu may be adapted to the selected provider.

\*<sup>2</sup> If you cannot find your NETWORK ID, you can select 0 which will tune in all available channels. Note that using this solution may result in poor quality and signal strength.

If you have enabled both TERRESTRIAL and CABLE in the INPUTS menu and set ACTIVE ANTENNA to ON, you may not be able to see cable channels. In this case you must set ACTIVE ANTENNA in the EDIT TERRESTRIAL menu to OFF.

### SATELLITE

- > Press **Setup** to bring up the DVB SETUP menu. (Beo4: Press **MENU** then **4**).
- > Press the **centre** button to bring up the CHANNELS/STATIONS menu.
- > Use the navigation button up or down to highlight TUNING and press the **centre** button.
- > Select SATELLITE and press the **centre** button.
- > Use the navigation button up or down to select which satellite position to set up. Each satellite can be given a DiSEqC address and activated using the **green** and **yellow** button. Press the **centre** button to accept.
- > SEARCH FILTER is highlighted. Use the navigation button left or right to select which channels to search for. Options are FREE (excludes pay-channels) and ALL.
- > Use the navigation button down to highlight SEARCH MODE and left or right to select automatic or manual search. If you select manual search, see 'If you have chosen manual tuning' under 'SATELLITE'. Otherwise ...
- > ... press the **centre** button to start the search.
- > Press and hold **BACK** to leave the menu.

If you have chosen manual tuning\*<sup>3</sup> ...

- > Use the navigation button down to highlight FREQUENCY. Use the number buttons to enter a frequency and use the navigation button left or right to step back and forth.
- > Use the navigation button down to highlight POLARITY and left or right to select reception of horizontal or vertical polarity.
- > Use the navigation button down to highlight SYMBOL RATE and left or right to specify the number of symbols that are carried across the channel.
- > Use the navigation button down to highlight NET SEARCH and left or right to search for a frequency. Options are ON and OFF.
- > Use the navigation button down to highlight SYSTEM and left or right to select a system. Options are S and S2.
- > Press the **centre** button to start the search.
- > Press and hold **BACK** to leave the menu.

\*<sup>3</sup> When tuning channels manually you must enter detailed information for the selected service. This includes FREQUENCY, SYMBOL RATE, POLARITY, NET SEARCH and SYSTEM (S or S2). Contact your programme provider for further information.

**INPUTS**

Enable or disable the terrestrial, cable or satellite inputs.

**REINSTALL ALL**

In this menu you can reinstall all channels. Note that this will delete the settings you have made for CHANNEL and STATION LISTS and GROUPS. To access this menu, you are asked to enter your access code. [Refer to page 16.](#)

**EDIT ...**

**CHANNEL or STATION LIST**

Shows channels or stations in the list. [Refer to page 7.](#)

**REMOVED CHANNELS**

Shows removed channels or stations. [Refer to page 7.](#) To access this menu, you are asked to enter your access code. [Refer to page 16.](#)

**CHANNEL or STATION GROUPS**

Add to or remove channels from Groups, rearrange the order of channels, and name your Groups. You can also copy channels to a group. [Refer to page 7.](#)

**PREFERRED LIST**

Arrange your channels NUMERICAL or by NETWORK. Only available with terrestrial channels.

**NETWORK LIST**

Switch to a different network. The channels in your lists may change as well. Only possible if several networks are available when tuning terrestrial channels.

**SIGNAL INFORMATION ...**

In the SIGNAL INFORMATION menu you can see various information about the signal received from the provider. This may be useful if you have a poor signal and want to check it.

## The OPTIONS menu

In the OPTIONS menu, you set up your personal preferences for the DVB Module. You can select a menu language to be used in the module menus. When you select a preferred language for audio and subtitles, this language will be used when available from the programme provider.

Settings performed here are permanent until you change them again as opposed to changes made via the Beo5 display or the menu overlay, which are remembered only until you switch to another channel or the television is switched to standby.

### LANGUAGE ...

*MENU* ... Select the language to be used in the menus.

*AUDIO (1. PRIORITY)* ... Select the preferred audio language to be used, if available from the programme provider.

*AUDIO (2. PRIORITY)* ... Select the audio language to be used if your first choice is not available.

*SUBTITLE (1. PRIORITY)* ... Select the preferred subtitle language to be used, if available from the programme provider.

*SUBTITLE (2. PRIORITY)* ... Select the subtitle language to be used if your first choice is not available.

*HEARING IMPAIRED* ... Enable or disable a help function for hearing impaired.

### COUNTRY ...

Select your country from the list of available countries, for example if you have moved. Be aware that if you choose a different country, all your DVB settings are reset to default. All your settings will be deleted and first-time setup is necessary. [Refer to page 17.](#)

### DISPLAY DURATION ...

Select how long the information display should remain on the screen.

### MULTICHANNEL AUDIO ...

Choose whether the module should automatically select multichannel audio. The default setting from the factory is AUTOMATIC. You can select MANUAL to listen to stereo instead. Look for the icon in the information display, [see page 8.](#)

### CLOCK SETTINGS ...

*TIME ZONE* ... Set the time zone you are in.

*DAYLIGHT SAVING TIME* ... Select the daylight saving time or set it to change automatically. You can also deactivate daylight saving time.

### HDMI ...

In this menu you can disable HDCP (High-bandwidth Digital Content Protection). This can be useful if you have connected a projector or an external television screen. HDCP encrypts the signal from a source to protect the content from being copied.

### DIGITAL TEXT ...

In this menu you can enable or disable Digital Text/MHEG operation, which is required by some countries and CA modules. When Digital Text is enabled, operation of the DVB module with a Beo4 will differ in some aspects from otherwise described in this Guide. For more information, [refer to page 5.](#)

### REINSTALL ALL ...

In this menu you can reinstall all channels. Note that this will delete the settings you have made for CHANNEL and STATION LISTS and the contents of GROUPS. To access this menu, you are asked to enter your access code. [Refer to page 16.](#)

### MODULE INFORMATION ...

Use this menu to see the current version and release date.

**SOFTWARE UPDATE ...**

You can download available software updates from [www.bang-olufsen.com](http://www.bang-olufsen.com) onto a USB memory stick. Connect the USB memory stick to the USB port placed next to the slot for Smart Card and CA module on your television, then open the SOFTWARE UPDATE menu. On some markets it is also possible to update the software via the antenna signal (OAD). In this case the module automatically checks for new software every time it is switched on. If new software is available, press the **green** button to start the update. To cancel the download, press the **red** button. When updating via the antenna signal, some updates are required and not possible to cancel. Contact your Bang & Olufsen retailer for further information about software updates.

## The ACCESS CONTROL and CA menus

The ACCESS CONTROL menu\*<sup>1</sup> allows you to activate a parental lock for you to be able to lock specific channels. You can also set a maturity rating that determines which programmes require the entering of an access code.

When you enter the EDIT CHANNEL/STATION LIST menus or bring up a channel/station list, you can lock (and later unlock) channels in the lists to avoid others from watching these channels. Select the channels you wish to lock. If a channel is present in, for example, more than one GROUP and you lock it in the CHANNEL LIST, it will be locked in all groups automatically. Whenever you try to access locked channels, you are asked to enter your access code.

From the factory parental lock is not activated. In order to use the parental lock function, you must enable the access code. You can then select the specific channels that should be locked.

The access code system of the DVB Module is not the same as the pincode system for your television, but it may be easier for you if you choose to use the same code for both systems.

\*<sup>1</sup> The first time you enter the ACCESS CONTROL menu, you are asked to select a new access code.

### Contents of the ACCESS CONTROL menu ...

**PARENTAL LOCK** ... Enable the access code.

You can lock the channels you wish to be locked when you bring up the EDIT CHANNEL/STATION LIST menus or a channel/station list and bring up information on the chosen channel by means of the **blue** button. When you lock the channel, you can also set the time period you want the lock function to be activated. If you do not change the time period, it is locked all the time.

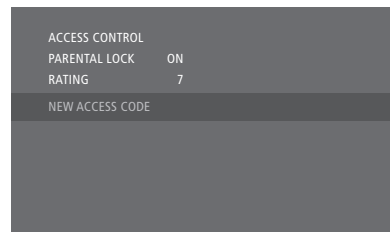
**RATING (YEARS)** ... Set a maturity rating for the TV programmes. This means that programmes exceeding the maturity rating chosen by you can only be watched when the access code is entered. Only if available from your programme provider.

*When the access code is activated and a channel is locked due to maturity rating, some programme providers require you to enter the access code each time you select the channel, and not just the first time the channel is selected after the television has been in standby mode.*

### Should you forget your code ...

If you forget your access code, enter the ACCESS CONTROL menu and key in '9999' three times. The parental lock is then disabled and you must enable the code again and enter a new personal code.

*Note: The access code described here is not the same as the pincode you may receive with your Smart Card. For information about Smart Card pincode, consult your programme provider.*



### Contents of the CA menu ...

**CA** ... Use this menu to access the inserted CA Module or card. The contents of the menu depend on your programme provider. You can also access the CA Module or card via the Beo5 display or the menu overlay.

**CAM ACTIVE**... Use this menu to activate or deactivate the CA module for terrestrial, cable or satellite. In some countries, it may be useful to disable the CA module for satellite to get an optimal performance from the terrestrial CA module.



# First-time setup

When your television is equipped with the DVB Module and you switch on the module for the very first time, you are guided through the first-time setup sequence. Some menus may not appear depending on your setup.

If your programme provider supports Digital Text/MHEG, switch off the television after first-time setup is completed, then switch it on again.

## *The sequence of menus in first-time setup:*

**COUNTRY ...** Select your country from the list of available countries.\*1

**LANGUAGE ...** Select your preferred language for the menus shown on the screen and select your first and second preferred language for audio and subtitles from the list of available languages. Press the **centre** button to store the setting.

**INPUTS ...** Enable or disable the terrestrial, cable or satellite inputs.

**EDIT TERRESTRIAL ...** Here you can select the type of antenna to use and which terrestrial channels to search for. Only available if enabled in INPUTS.

ACTIVE ANTENNA.  
SEARCH FILTER.  
LIST SORTING.

**EDIT CABLE ...** Here you can select the cable network provider. Only available if enabled in INPUTS.

SEARCH FILTER.  
NETWORK ID ... Default 0. All available channels will be tuned in.

**SATELLITE POSITIONS ...** Enable or disable a satellite position. Only available if enabled in INPUTS.

**EDIT LNB ...** Here you set the DiSEqC address.  
... Now you can make an automatic search by pressing the **centre** button.

\*1 If AUSTRALIA is selected, a submenu with regions appears.

*All settings you make during first-time setup can be changed via the menus at any time. However, if you select another country, you have to reset to default. Contact your Bang & Olufsen retailer for further information.*

*Depending on country and provider, the integrated DVB receiver supports High Definition (HD) and/or Standard Definition (SD) signals. Contact your local Bang & Olufsen retailer to clarify if the DVB SD and HD signals in your area are supported by the integrated DVB receiver.*

# Connections

The installation of satellite dishes, terrestrial antenna and cables is not described in this Guide as we expect this to be done by an installer.

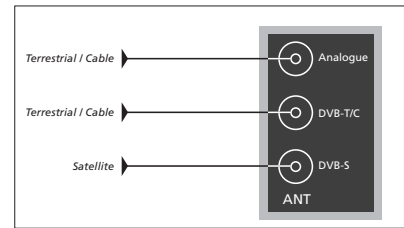
The Conditional Access (CA) Module is the module you can insert in the slot on your television. For information on the placement of the slot, refer to your television's own Guide. The module acts as 'card reader' for your Smart Card which decodes the encoded signals sent out by the programme provider.

The DVB Module is equipped with CONAX CA software. You can insert a CONAX Smart Card directly into the built-in Smart Card reader. CA module pairing is not supported.

## LNB and antenna

The illustration to the right shows how to connect your SAT antenna, the cable input and the terrestrial antenna to your television.

Only uncoded digital channels, also known as 'free-to-air' channels, are available without Smart Cards or CA Modules.



Connect your LNB and terrestrial antenna to the available aerial sockets on your television.

The number and type of sockets vary depending on your module.

## About Smart Cards ...

If you want to watch coded channels, contact your programme provider. The programme provider will register you as an authorised viewer, usually requiring payment. You will then be provided with a Smart Card. Note that a Smart Card is only valid for one programme provider and therefore only works with certain channels.

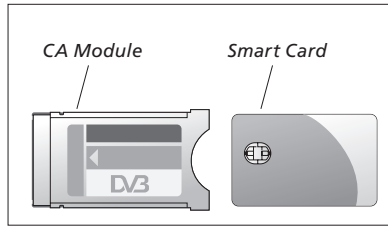
Smart Cards and CA Modules may also give access to special menus which are not described here. If this is the case, follow the instructions from your programme provider.

In order to view a coded service, you need to have a valid Smart Card.

Insert a Smart Card carefully into the CA Module.

You can insert a CONAX Smart Card directly into the built-in Smart Card reader.

Contact your Bang & Olufsen retailer for information about compatible CA Modules.



*To place the CA Module and the Smart Card correctly, refer to the Guides enclosed with your television.*

*Smart Cards or CA Modules are distributed from your programme provider. The cards must remain in the CA Modules, unless your programme provider asks you to remove it. This is important in case your programme provider wishes to send new information to your Smart Card.*

## What to do if ...

The table to the right describes some of the situations you may experience with the DVB Module, and what to do to resolve these situations.

On the Bang & Olufsen website, [www.bang-olufsen.com](http://www.bang-olufsen.com), you can find further information and FAQs about your product.

If ...	Then ...
You hear of a new channel and wish to find it ...	Check to see if the channel should be at the bottom of the Channel list. If it is not, check for information from the programme provider and make a channel search. Bring up the DVB SETUP menu > CHANNELS > TUNING. Note that when you find new channels, they will be placed under the relevant programme provider.
When you choose a channel number, the screen is black ...	a) The programme provider has probably moved the channel. Check for information from the programme provider and do a manual search for a specific channel if you have information about, for example, a new frequency. Otherwise make an automatic channel search. Bring up the DVB SETUP menu > CHANNELS > TUNING. Note that when you find new channels, they will be placed under the relevant programme provider. b) If an error message appears, your subscription is most likely outdated. Check that your Smart Card is still valid and updated.
When you choose a channel number, the information display shows "CHANNEL NOT FOUND" ...	It could be that you have selected a channel that does not broadcast around the clock. When no programme is broadcast, the information display will show "CHANNEL NOT FOUND".
You want to use DTV as the source in a Timer Play ...	Follow the procedure described in the Guide for your television. Choose DTV or DTV-RADIO as the source of your Timer Play.
You have forgotten your code for the parental lock function ...	Bring up the DVB SETUP menu > ACCESS CONTROL and enter '9999' three times (for further information, <a href="#">see page 16</a> ).
You want to restrict the access to certain channels, (ACCESS CONTROL) ...	Bring up the DVB SETUP menu > ACCESS CONTROL. Set the access code. In the channel lists you select the channels that should be 'locked' (for further information, <a href="#">see page 16</a> ).
There is no signal, the picture is poor, or several channels are missing ...	Check the signal strength and quality in the DVB SETUP menu > SIGNAL INFORMATION. If the strength and quality is too poor, that is a Bit Error Rate less than E-6, check your installation or contact your installer.

If ...	Then ...
Channels with the preface SID and a number appear in your Channel List ...	If you have carried out a manual search, you may have found “hidden” channels. These channels are identified with the Service ID number in the Channel List (SID XX). The channels are used by some programme providers to send out for example a football match on different channels, each with its own camera angle. The channels transmit the same programmes at the same time.
There is no picture when you switch to DTV or the system seems to ‘lock’ on one channel ...	Switch your television to standby and wait until the standby indicator turns red, then switch on again. If the problem persists, disconnect your system from the mains and check connections, then reconnect to the mains. If this does not solve the problem, contact your Bang & Olufsen retailer.
There is no sound while watching a programme ...	If the module is set up for automatic reception of multichannel audio and the programme is broadcast without multichannel audio, there is no sound in the speakers. Bring up the DVB SETUP menu > <i>OPTIONS</i> > <i>MULTICHANNEL AUDIO</i> . Change the setting from ‘AUTOMATIC’ to ‘MANUAL’. You can still change to multichannel audio when watching a programme transmitted with multichannel audio.
Groups appear in the Groups list, that you have not created ...	Some programme providers send out ‘programme provider lists’ which appear in the DVB Module as groups, if you do not use these groups you can choose to “hide” them via the EDIT GROUPS menus. Press <b>Groups</b> for <i>CHANNEL GROUPS/STATION GROUPS</i> > <i>hide</i> . (Beo4: Bring up the menu overlay and select 1). (For further information, <a href="#">see pages 7 and 13</a> ).
All your channels have disappeared ...	Try to reinstall your channel. <a href="#">Refer to pages 11–14</a> . All the settings you have made for CHANNEL and STATION LISTS and GROUPS will be deleted.
A wrong channel appears, when you select a Beo5 channel logo ...	Your Beo5 may not be configured on the base of a favourite list, and the programme provider has moved the channel to a different channel number. To set up Beo5 to send the correct channel number, when you press a logo, see the guide enclosed with your Beo5 or contact your retailer.

# Glossary

Term	Explanation
Conditional Access (CA)	A system for restricting access to a particular service to authorised users only (e.g. subscribers to a particular digital bouquet, purchasers of individual pay-per-view events), by means of encryption and authorised decoding.
Conditional Access Module (CA Module)	Decrypting and descrambling module that acts as card reader for Smart Cards.
DiSEqC switch	The DiSEqC switch enables the user to select one LNB signal between different LNBS. You can control up to 16 LNBS in total.
DVB – Digital Video Broadcasting	Broadcast standard for digital radio and television.
DVB-C – Digital Video Broadcasting- Cable	Digital Video Broadcasting: A coherent set of European standards for transmission and reception of digital television signals. Although European, the standards have been adopted in many countries worldwide. There are many standards within the DVB family, including specifications for satellite (DVB-S), cable (DVB-C) and terrestrial (DVB-T) transmission and reception.
DVB-S – Digital Video Broadcasting- Satellite	
DVB-T – Digital Video Broadcasting- Terrestrial	
Frequency	Physical quantity, indicates the number of cycles per second, measured in Hertz (Hz).
HDCP – High-bandwidth Digital Content Protection	HDCP encrypts the signal from a source to protect the content from being copied. Activate HDCP to enable fast channel changing. Your programme provider determines if a programme is encrypted. If you want to connect a projector, make sure it supports HDCP encrypted content.
LNB (Low Noise Block down-Converter)	Converts microwave frequency blocks to the intermediate frequency range covered by the tuner.
Maturity rating	Allows the user to set a maturity rating for the TV programme. This means that programmes exceeding the maturity rating chosen by you can only be watched when the access code is entered. Only if available from your programme provider.
NET SEARCH	The NET SEARCH is used to define whether the selected values on a frequency or all available values on a frequency should be searched.
NETWORK ID	The NETWORK ID is used by your programme provider to group your channels. Contact your programme provider for further information.
Parental lock	Allows the user to set a password to control access to programmes based on channel, rating (based on the motion picture rating system) or content.

Term	Explanation
Polarity	For better utilisation of the available frequency bands, the satellites transmit adjacent programmes, with opposite polarity (horizontal and vertical). Reception of both horizontal and vertical polarity is covered by the universal LNB.
Programme Guide or Electronic Program Guide (EPG)	This interactive feature allows the user to access and scroll through complete programme listings covering current and following programmes on the television screen.
Programme provider	Company or corporation that supplies audio or video programmes.
Smart Card	A removable credit-card-sized plastic card issued by a programme provider. The card is necessary to receive coded programmes.
Symbol Rate	The rate at which the transmitter is sending information. The symbol rate specifies how many symbols per second are carried across the channel.
Theme	You can see the theme for a programme in the extended programme information if available from your programme provider.