OneRemote DabWiFi4

Advanced tuner for Bang & Olufsen systems handling

DAB/DAB+ – FM - Bluetooth - Internet Radio

Spotify Connect- Music Player

Installation Guide

one>remote

ABOUT THIS INSTALLATION GUIDE

This installation guide offers an overview of the OneRemote DabWiFi4 tuner's many options for connection to different Bang & Olufsen systems.

A Bang & Olufsen system may consist of a stand alone Bang & Olufsen radio or a stand alone Bang & Olufsen TV connected to a set of Bang & Olufsen speakers, but it might also be many units interconnected in various ways.

Bang & Olufsen stands out since the early 1980'ies by having developed several linksystems tying together radios, TVs and loudspeakers, allowing not only for sound from the different devices to be distributed all over the home but also enabling control of the devices remotely with a single remote form all these "link rooms".

Furthermore Bang & Olufsen developed equipment that enabled these different systems to be partly or fully integrated.

This installation guide may be used to identify the DabWiFi4 tuner's connectivity to a specific Bang & Olufsen system.

Thus this guide is much more of a reference book than a stepwise connection guide that has to be studied entirely and understood in detail. A DabWiFi4 tuner installation is often straight forward and simple, especially when the Bang & Olufsen configuration has been identified.

THE DABWIFI4 HAS TO BE ADJUSTED TO ITS PLACE IN THE BANG & OLUFSEN SYSTEM

When the DabWiFi4 tuner's location in the Bang & Olufsen system has been established it needs to be programmed to fit that location. It shall be programmed with *an Option*.

The DabWiFi4 tuner is factory programmed with **Option 102** making it possible to switching it on and controlling it by pressing **ATAPE** or **AMEM** on a Bang & Olufsen remote. If the Bang & Olufsen system has a vacant input socket that is activated by pressing **ATAPE** or **AMEM** , all it takes is connecting the DabWiFi4 tuner to this socket, completing the installation that way.

If the Bang & Olufsen system is without a vacant input socket activated by selecting **ATAPE** or **AMEM** ,another vacant input has to be found and the corresponding option added to the DabWiFi4 tuner.

The DabWiFi4 tuner has to know how to be switched on and off.

Contents

THIS GUIDE – ABOUT CONNECTING THE ONEREMOTE DABWIFI4 TUNER.

This guide covers only the connection of the DabwiFi4 tuner to a Bang & Olufsen system.

Check the **User Guide for the DabWiFi4 tuner** for the control with a Bang & Olufsen remote.

The DabWiFi4 tuner is factory programmed with option 102, direct control with ATAPE / AMEM . The example shows connection to a Bang & Olufsen BeoSound in the direct mode, the factory setting.

When switching on the DabWiFi4 tuner with the Bang & Olufsen remote the Bang & Olufsen system is switched on simultaneously and the input with the DabWiFi4 tuner connected is activated.

In brief: The DabWiFi4 tuner just needs connection to the input socket activated by pressing AMEM or ATAPE on the Bang & Olufsen remote.
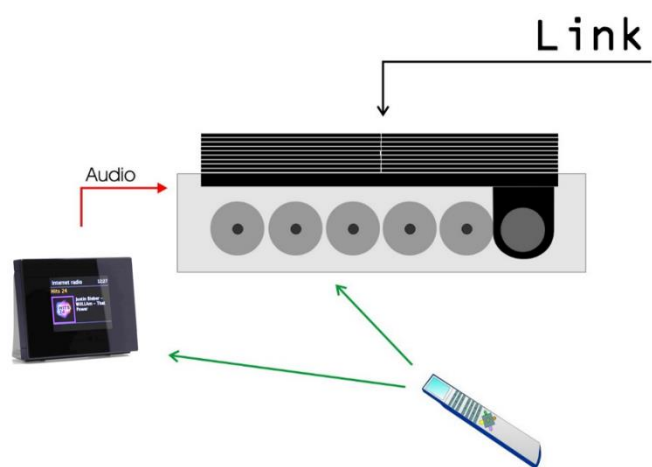
Some Bang & Olufsen devices only have one input socket, but it might be activated via different commands.

Check the lists below to identify sockets and activating sources for various Bang & Olufsen devices.

INSTALLATION

Connection to Bang & Olufsen devices

The OneRemote DabWiFi4 tuner connects to all Bang & Olufsen devices with a vacant audio input socket like BeoSound, BeoCenter, BeoMaster or BeoVision TV and is controlled with a Bang & Olufsen remote. It may also be connected to equipment of all other brands, but it can only be controlled with a Bang & Olufsen remote.

Through the years peripheral inputs have been added, removed or renamed on Bang & Olufsen equipment, and on the newer Bang & Olufsen remotes **NMUSIC** has replaced former **SHIFT** **ATAPE** or **AMEM2** .

In **Bang & Olufsen Equipment and OneRemote Options** inputs, designations and the corresponding opening sources are listed for various Bang & Olufsen units. Thus it is possible for all Bang & Olufsen units listed to select an input, its designation and the opening source corresponding to a DabWiFi4 tuner option and the remote command enabling control of the tuner.

Some inputs allow for the use of the CableLink mode option, but most of the newer Bang & Olufsen equipment requires use of the Direct Mode option, i.e. direct control of the DabWiFi4 tuner. Check **BeoLink Converter 1611/1612** for another alternative.

DIRECT MODE OR CABLELINK MODE

The OneRemote DabWiFi4 tuner connects to Bang & Olufsen equipment with a 7 pin DIN cable or a RCA Phono cable, and via option programming it is controlled as follows :

- **Direct control, "Direct Mode"**
  The DabWiFi4 tuner receives control commands **directly** from an ordinary Bang & Olufsen remote.

- **Indirect control, via connection to the Bang & Olufsen equipment, "CableLink Mode"**
  The CableLink mode may be used with Bang & Olufsen equipment transmitting control data via a 7 pin DIN cable to the DabWiFi4 tuner. *)

*) **Note:** The CableLink mode requires interconnection with a cable with DataLink connection and appropiate connectors.

DIRECT CONTROL, "DIRECT MODE", FACTORY SUPPLIED CABLE

The DabWiFi4 tuner may be connected to any Bang & Olufsen system in the Direct Mode, where the tuner is controlled directly with the Bang & Olufsen remote.

Therefore " Direct Mode". The Bang & Olufsen remote is transmitting commands directly to the DabWiFi4 tuner.

Thus control from a linkroom is not possible using the Direct Mode, but sound from the DabWiFi4 tuner may be distributed to any linkroom, when it has been selected as a source in the main room.

See **UNDOK, an app for...** below.

The OneRemote DabWiFi4 tuner is supplied with a **Jack-DIN 5 audio cable**. Most of the Bang & Olufsen radios connect with that type of cable, but a Jack-RCA Phono cable is included too.

None of the supplied cables can be used in CableLink setups, as they carry only the audio signal.
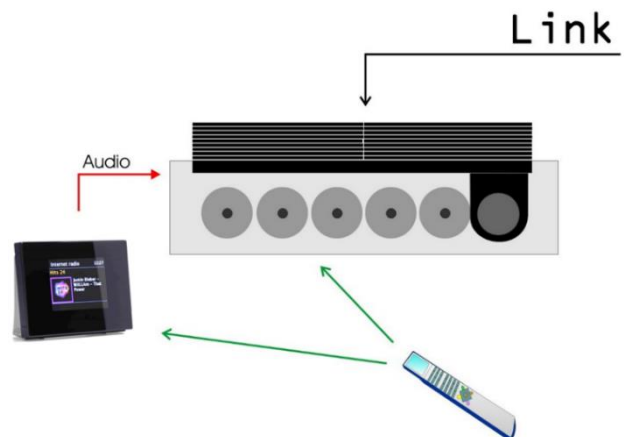
INDIRECT CONTROL, "CABLELINK MODE" – WITH THE APPROPIATE CABLE

The DabWiFi4 tuner may be connected to a Bang & Olufsen system in the CableLink Mode. In the CableLink Mode the tuner is controlled with the Bang & Olufsen remote **via** the connected Bang & Olufsen device relaying control commands via the connection cable.In the CableLink mode the connected DabWiFi4 tuner may be controlled from any linkroom.

Not all Bang & Olufsen devices can relay control commands from a linkroom to its inputs and thus control the DabWiFi4 tuner.

Check below tables to identify the Bang & Olufsen devices that allow for the use of a CableLink installation.

Note: CableLink requires a DataLink cable with appropiate connectors, Jack-DIN 7 or eq.

Check**: Bang & Olufsen Equipment and OneRemote Options** for usable cables.
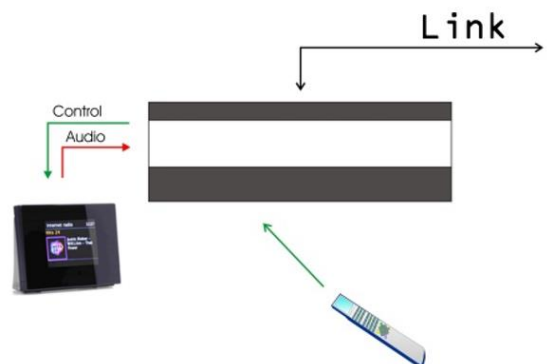
CONNECTIONS

SOUND AND DATA CONNECTION TO THE BANG & OLUFSEN SYSTEM

The cable installed on the DABWiFi4 tuner carries sound from the tuner to the Bang & Olufsen system and possibly link data from the Bang & Olufsen system to control the DabWiFi4 tuner.

This cable connects to the Bang & Olufsen system with an appropiate converter cable. Factory supply is an audio cable for Direct Mode operation with a 5-pin DIN connector for connection to DIN input sockets on Bang & Olufsen equipment. Phono input sockets are covered with the other supplied audio cable with RCA Phono connectors.

Note: CableLink requires a DataLink cable with appropiate connectors, Jack-DIN 7 or eq.

Check: ***Bang & Olufsen Equipment and OneRemote Options*** for usable cables.

ANTENNA CONNECTION

The OneRemote DabWiFi4 tuner needs an antenna signal of sufficient strength and quality.

If both DAB and FM channels are received the antenna shall provide a signal containing both frequences.

If the FM signal does not provide sufficient strength the reception is noisy and very poor.

If the DAB signal is of a poor quality sound disappears intermittently.

WIRELESS INTERNET CONNECTION, WIFI

Lacking sufficient WiFi coverage gives problems with reception of Internet Radio and Spotify.

Signal strength is indicated on the tuner's display.

Poor WiFi coverage always means:

- o   Connection to the sound source is not possible
- o   The sound disappears intermittently

THE INPUT SOCKET "BEWARE"

"BEWARE" is reserved for special applications.

This socket **MUST NOT** be connected to an amplifier or any other kind of equipment.

It is solely for OneRemote applications.

OPTICAL OUT

This output might be used for Bang & Olufsen equipment with digital sound input.

MUSIC – SOURCE SELECTION

With more DabWiFi4 tuners installed the Bang & Olufsen system is turned into a multiroom system, and different channels might be listened to in different rooms.

The DabWiFi4 tuners can be controlled individually or in groups. Genuine multiroom.

WITH BANG & OLUFSEN REMOTES

See the **DabWiFi4 User Guide** for the daily operation.

UNDOK, AN APP FOR APPLE IOS – IPHONE, IPAD OG MAC

With the **UNDOK** app for Apple's iPhones, iPads and MAC computers complete control of the DabWiFi4 tuner is possible via WiFi from all over the home. **UNDOK** may be downloaded for free from the App Store. iOS 8.0 or higher is required.

If more DabWiFi4 tuners have been installed in the home, they may all be controlled via this app, individually or in groups.

Start the **UNDOK** app and select the DabWiFi4 tuner to be controlled. If the name has not been changed during the installation, it is identified as **DigitRadio 110 IR**.

If more DabWiFi4 tuners have been installed in the home, they have been renamed to be identifiable.

Check www.frontier-silicon.com for further info on UNDOK.

UNDOK, AN APP FOR ANDROID

Via the app **UNDOK** for Android smartphones tablets and other Android devices the DabWiFi4 tuner may be controlled completely using a WiFi network. **UNDOK** is available for free from Google Play.

All installed DabWiFi4 tuners may be controlled via this app.

Start the **UNDOK** app and select the DabWiFi4 tuner to be controlled. If the name has not been changed during the installation, it is identified as **DigitRadio 110 IR.**

If more DabWiFi4 tuners have been installed in the home, they have been renamed to be identifiable.

Check www.frontier-silicon.com for further info on **UNDOK.**

WITH THE SPOTIFY APP

The DabWiFi4 tuner is using the original Spotify app, no special app required.

When Spotify has been selected via a smartphone, this phone may stil be used for phoning simultaneously or even powered down. The music continues.

ONLINE EDITTING OF PERSONAL LISTS OF RADIO CHANNELS

On *http://www.wifiradio-frontier.com* online creation, deletion and editting of channel lists directly in the DabWiFi4 tuner is possible.

An account may be set up free of charge by registering the serial number of the DabWiFi4 tuner. Thereafter the lists are available in the tuner. Whenever the lists are editted, the corrections are found in the DabWiFi4 tuner.

Several DabWiFi4 tuners may be asssociated with the same list, and any change is immediately introduced in everyone. With a DabWiFi4 tuner in the kitchen, in the living room and even in the holiday cottage, all registered to the same account, an update is automatically introduced in all of them at the same time.

![one>remote logo]

OPTIONS

Option programming of the DabWiFi4 tuner is only required during the initial installation. A Bang & Olufsen remote is used for this programming activity.

Programming the tuner with one or more options allow for a correct operation in the actual Bang & Olufsen system.

Some setups call for the DabWiFi4 tuner to be controlled via **ATAPE** . In other cases **A AUX** might be used, maybe as the only option possible in the specific installation.

Options might also be used to activate or de-activate various special functions. Thus more options might be required for a tuner,and when so they are added one by one.

PROGRAMMING OF AN OPTION

Programming is started by pressing **LIGHT** and ended by pressing **▭●** All options have 3 digits entered between the two:

1. Press and hold the power key of the DabWiFi4 tuner down until the blue control light in front starts to blink, after 5-6 secs.

2. Within 8 secs: Press **LIGHT** on the Bang & Olufsen remote. *1
3. Within 8 secs: Press the **first** option digit on the Bang & Olufsen remote.
4. Within 8 secs: Press the **second** option digit on the Bang & Olufsen remote.
5. Within 8 secs: Press the **third** option digit on the Bang & Olufsen remote.
6. Press **▭●** on the Bang & Olufsen remote. *(The power key with a red dot).* Instantaneously the blue control light is switched off.

> Option 106 programming:
>
> **LIGHT** *1* **1** **0** **6** **●**

Valid options are found in the tables below.
When more options are required, repeat the procedure.

*1 if the key **LIGHT** is not available, press SHIFT-LINK (older remotes only)

SPECIAL OPTIONS

Below special options are available for the DabWiFi4 tuner.

See **Programming of an Option** for details.

Option	Factory	ACTIVATE VOLUME AND MUTE
980	X	The DabWiFi4 does not react to volume changes on the Bang & Olufsen remote.
981		The DabWiFi4 reacts to changes in volume and mute from the Bang & Olufsen remote.

Option	Factory	KEEP DABWIFI4 SWITCHED ON
990	X	The DabWiFi4 is switched on and off automatically.
999		The DabWiFi4 ignores the switch off signal and is always on.

CONNECT THE DABWIFI4 TUNER TO BEOLAB 3500

A BeoLab 3500 in a link system may access a DabWiFi4 tuner connected to a Bang & Olufsen radio or TV in the same link system.

As an example the DabWiFi4 tuner may be connected to an ATAPE input socket on a radio or a VAUX socket on a TV.

If a BeoLab 3500 is **NOT** connected in a link system, the DabWiFi4 tuner may be connected via a BeoLink Converter.

See **BeoLink Converter 1611/ 1612** for details.

BANG & OLUFSEN EQUIPMENT AND ONEREMOTE OPTIONS

The following tables show the available input sockets in various Bang & Olufsen audio and video products, how to select them using a remote control terminal and what the corresponding option program of the One Remote DabWiFi4 tuner should be.

The OneRemote DabWiFi4 tuner has to be programmed with the right option to operate in the actual Bang & Olufsen environment.

See *Programming of an Option* above on how to enter the options into the DabWiFi4 tuner from the tables below.
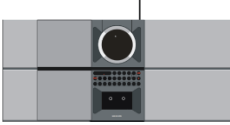
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 5	Masterlink	VTAPE VMEM	-	410	If the MasterLink socket is not used, the DabWiFI4 tuner might be connected and operated via a BeoLink Converter.
		DTV SAT	-	416	See page 15 for details on connection of the BeoLink Converter 1611.
		VAUX	-	412	
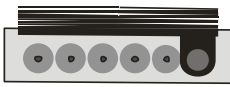
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 5, ENCORE	LINE-IN	AAUX SHIFT RADIO	100	-	The Encore input is a mini jack socket. Use a OneRemote adaptor cable, type 39207437.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOCENTER 2	AUX-IN	AAUX SHIFT RADIO	100	-	The input is RCA phono sockets. Use a OneRemote adaptor cable, type 39207438.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 4	AUX	AAUX SHIFT RADIO	100	-	The input is RCA phono sockets. Use a OneRemote adaptor cable, type 39207438.
	MasterLink	The DabWiFi4 tuner may be added as an audio source in a MasterLink system. If the MasterLink socket in a BeoSound 4 is **vacant**, the DabWiFi4 may be added via a BeoLink Converter 1611 and controlled as described below. Refer to the chapter "The BeoLink Converter connected to a Bang & Olufsen"			

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 1	AUX	AAUX SHIFT RADIO	100	-	
	AUX	AMEM ATAPE	102	-	

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND CENTURY	AUX	NMUSIC AMEM2 SHIFT ATAPE	103	-	
	AUX	NRADIO PHONO	106	-	
	AUX	AAUX SHIFT RADIO	100	-	
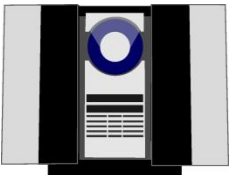
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 9000	AUX	AAUX SHIFT RADIO	100	-	
	AUX	AMEM ATAPE	102	-	
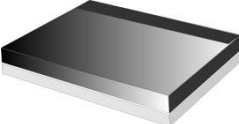
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND 3000 BEOSOUND 3200	AUX	`AAUX` `SHIFT` `RADIO`	100	-	
	AUX	`AMEM` `ATAPE`	102	-	
	AUX	`NMUSIC` `AMEM2` `SHIFT` `ATAPE`	103	-	
	AUX	`NRADIO` `PHONO`	106	-	

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSOUND OUVERTURE	AUX	`NMUSIC` `AMEM2` `SHIFT` `ATAPE`	103	302	In the CableLink Mode numeric commands are not accepted.
	AUX	`NRADIO` `PHONO`	106	206	In the CableLink Mode numeric commands are not accepted.
	AUX	`AAUX` `SHIFT` `RADIO`	100	300	In the CableLink Mode numeric commands are not accepted.
	MasterLink	If the MasterLink socket is not in use, the DabWiFI4 tuner might be connected and operated via a BeoLink Converter, using this socket. The DabWiFi4 can then be accessed using `VMEM` , `VAUX` or another video source. See the chapter BeoLink Converter 1611/ 1612 for details of this advanced connection of the BeoLink Converter 1611. In this connection full operation is available, numeric commands, colored buttens etc.			
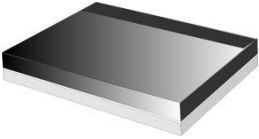
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSYSTEM 2500 **BEOCENTER 2500**	AUX	AAUX SHIFT RADIO	100	-	In the CableLink Mode numeric commands are not accepted.
	AUX	NMUSIC AMEM2 SHIFT ATAPE	103	302	In the CableLink Mode numeric commands are not accepted.
	AUX	NRADIO PHONO	106	206	In the CableLink Mode numeric commands are not accepted.
	AUX	Se the chapter "Advanced connection to AUX/TV socket".			

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOCENTER 2300	AUX	AAUX SHIFT RADIO	100	300	In the CableLink Mode numeric commands are not accepted.
	AUX	AMEM ATAPE	102	302	In the CableLink Mode numeric commands are not accepted.
	AUX	NMUSIC AMEM2 SHIFT ATAPE	103	303	In the CableLink Mode numeric commands are not accepted.
	AUX	NRADIO PHONO	106	306	In the CableLink Mode numeric commands are not accepted.
	AUX	Se the chapter "Advanced connection to AUX/TV socket".			

BEOMASTER 3300

Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
TP	AMEM / ATAPE	102	302	In the CableLink Mode numeric commands are not accepted.
CD	CD	104	204	In the CableLink Mode numeric commands are not accepted.

BEOMASTER 5500

Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
TP	AMEM / ATAPE	102	302	In the CableLink Mode numeric commands are not accepted.
CD	CD	104	204	In the CableLink Mode numeric commands are not accepted.
AUX/TV	Se the chapter "Advanced connection to AUX/TV socket".			

BEOMASTER 3500
BEOMASTER 4500

Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
TP1	AMEM / ATAPE	102	302	In the CableLink Mode numeric commands are delayed.
CD	CD	104	204	In the CableLink Mode numeric commands are delayed.
TP2	NMUSIC / AMEM2 / SHIFT ATAPE	103	302	In the CableLink Mode numeric commands are delayed.
PHONO	NRADIO / PHONO	106		In the CableLink Mode numeric commands are delayed.
AUX/TV	Se the chapter "Advanced connection to AUX/TV socket".			

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOMASTER 6500 **BEOMASTER 7000**	TP1	AMEM ATAPE	102	302	
	CD	CD	104	204	
	TP2	NMUSIC AMEM2 SHIFT ATAPE	103	302	
	PHONO	NRADIO PHONO	106		
	TV/AUX	Se the chapter "Advanced connection to AUX/TV socket".			

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOCENTER 8000	TAPE2	NMUSIC AMEM2 SHIFT ATAPE	103	302	In the CableLink Mode numeric m commands are not accepted.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOCENTER 8500, **BEOCENTER 9000,** **BEOCENTER 9500**	TAPE2	NMUSIC AMEM2 SHIFT ATAPE	103	302	In the CableLink Mode numeric commands are not accepted.
	TV/AUX	Se the chapter "Advanced connection to AUX/TV socket".			

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOCENTER 9300	PHONO	`NRADIO` `PHONO`	106		In the CableLink Mode numeric commands are not accepted.
	TAPE2	`NMUSIC` `AMEM2` `SHIFT` `ATAPE`	102	302	In the CableLink Mode numeric commands are not accepted.
	TV/AUX	Se the chapter "Advanced connection to AUX/TV socket".			

ADVANCED CONNECTION TO AUX/TV SOCKET

Some B&O Audiomasters are able to directly connect with Videomasters like a TV, using its AUX/TV socket. Refer to the tables above.

If the AUX/TV socket is able to control Videomasters, it can also control the DabWiFi4. It even brings optimal control with numeric, colored an Exit buttons.

In order to make it work, a VSNUT cable has to be inserted in the connection.

VSNUT Adaptor
type 39207434

This is an advanced setup that calls for a technician.
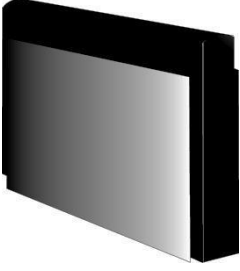
The DabWiFi4 must then be Option programmed to wake as a video source, i.e. `VAUX` . The chosen video source **has to be one**, not used by other B&O devices in the **room**!

The Audiomaster can then call and control the DabWiFi4 by pressing `AV` - `VAUX` . Alternatively the Audiomaster can be programmed to work in Option 2, and the DabWiFi4 can then be called directly with `VAUX` .

Source selected	Cablelink option
`VMEM`	410
`DVD`	414
`VAUX`	412

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BEOSYSTEM 2 **BEOSYSTEM 3**	AV1 AV2 AV3	VMEM DVD VAUX	-	410 414 412	The input is a scart socket, 21 pin AV socket. Use a OneRemote adaptor cable, type 39207496.
	AV4 AV5 AV6	VMEM DVD VAUX	-	410 414 412	The input is RCA phono sockets. Use a OneRemote adaptor cable, type 39207438.
	Masterl.	RADIO m.f.	-		If the MasterLink socket is not used, the DabWiFI4 tuner might be connected and operated via a BeoLink Converter. See page 22 for details on connection of the BeoLink Converter 1611.

CONNECTION TO A 21 PIN AV SOCKET ON ANY BANG & OLUFSEN TV.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
All B&O TV models with a Scart socket **TVBeoVision 10** **BeoVision 8** **BeoVision 7** **BeoVision 6** **BeoVision 4** **BeoVision 3** **BeoVision 1** **BeoSystem 3** **Old Avant models** **LX, LE, L, LS, MX, ME**	Scart AV1 - AV6 *NOT the DECODER input!!*	`VMEM` `VTAPE`	110	410	The input is a scart socket, a 21 pin AV socket. Use a OneRemote adaptor cable, type 39207496. Check the TV user guide for programming of the AV connections.

		`VMEM2`
		`VTAPE2`
		`SHIFT` `VTAPE`
			110	410	

		`DTV` `SAT`	116	416	
		`VAUX`	112	412	
		`DVD`	114	414	

BEOLINK CONVERTER 1611/ 1612

The OneRemote DabWiFI4 tuner may be connected to a Bang & Olufsen stand-alone audio or video master, TV, via a BeoLink Converter using MasterLink and the AAL inputs.
Connected to an audio master and programmed as a "video source" the DabWiFI4 may be selected as that, VMEM as an example, provided it does not conflict with a TV. Connected to a video master and programmed as an "audio source" the DabWiFI4 may be selected as that, ATAPE as an example. Notice that the Bang & Olufsen equipment has to be programmed in option 2 or alternatively addressed via an AV-command. See the relevant Bang & Olufsen user guide.

THE BEOLINK CONVERTER CONNECTED TO A BANG & OLUFSEN RADIO

If a MasterLink socket in a Bang & Olufsen radio is connected to a BeoLink Converter alone, a DabWiFi4 tuner may be connected to the Converter's AAL input socket.

Programmed as a video source, **VTAPE**, or eq. the DabWiFi4 tuner may be controlled with the radio's remote.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BeoLink Converter 1611 or 1612 used with a Bang & Oluf-sen audio master and the DabWiFI4.	AAL	**VMEM** **VTAPE**	-	410	The DabWiFI4 connects to the BeoLink Converter with a OneRemote VSNUT adaptor cable, type 39207434.
	AAL	**VAUX**	-	412	
	AAL	**DVD**	-	414	
	AAL	**DTV** **SAT**	-	416	
	The BeoLink Converter 1611 connects to a stand-alone Bang & Olufsen audio master with a MasterLink cable. Connection of more Bang & Olufsen equipment might create control conflicts.				

THE BEOLINK CONVERTER CONNECTED TO A BANG & OLUFSEN TV

If a MasterLink socket in a Bang & Olufsen TV is connected to a BeoLink Converter alone, a DabWiFi4 tuner may be connected to the Converter's AAL input socket.

Programmed as an audio source, **ATAPE** , or eq. the DabWiFi4 tuner may be controlled with the radio's remote.
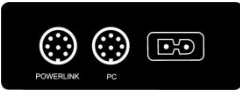
	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BeoLink Converter 1611 or 1612 used with a Bang & Olufsen TV and the DabWiFI4.	AAL	**AMEM** **ATAPE**	-	402	The DabWiFI4 connects to the BeoLink Converter with a OneRemote ASNUT adaptor cable, type 39207432.
	AAL	**CD**	-	404	
	AAL	**NRADIO** **PHONO**	-	406	
	AAL	**RADIO**	-	408	
	The BeoLink Converter 1611 connects to a stand-alone Bang & Olufsen TV with a MasterLink cable. Connection of more Bang & Olufsen equipment might create control conflicts.				

BEOLINK ACTIVE – CONNECTION VIA A BEOLINK ACTIVE IN ANY LINK ROOM

CONNECT THE DABWIFI4 TUNER VIA THE PC INPUT SOCKET

The OneRemote DabWiFI4 tuner may be connected to a Bang & Olufsen BeoLink Active with a vacant 'PC' socket.

Thus active speakers in any link room allow for the installation of the DabWiFI4 tuner and the opportunity of having a local radio source, like DAB, Internet Radio, Spotify or FM, controlled directly with the Bang & Olufsen remote control terminal.

	Input Socket	Source Selected	Direct Option	CableLink Option	Remarks
BeoLink Active				-	
POWERLINK PC	PC	**PC** **SHIFT** **STORE**	118	-	The DabWiFI4 connects to the BeoLink Active with a OneRemote PCSNUT adaptor cable, type 39207436.

LINKSYSTEMS - BANG & OLUFSEN CABLE CONNECTIONS

Bang & Olufsen equipment interconnects with different types of cable letting sound signals and data flow between the various pieces of equipment. Data varies, and cables depend on the specific application.

SIMPLE DATALINK, 7-PIN DIN

Simple DataLink is used to interconnect Bang & Olufsen audiomasters like BeoMaster, BeoCenter or BeoSound with peripherals like taperecorders, CD-players, turntables and other auxiliaries. The input sockets are named TP/A.TAPE, CD, PHONO and AUX/A.AUX.

DataLink was developed to enable control of fairly simple pieces of equipment like taperecorders and turntables requiring relatively limited functionalty like start, stop and spooling.

The cable connector is 7-pin DIN required to transmit data. Thus a 5-pin DIN connector may be used when control data is not used.

Please note that newer Bang & Olufsen equipment does not have control of peripherals implemented and thus no DataLink sockets.

See *Bang & Olufsen Equipment and OneRemote Options* for details.

The DabWiFi4 tuner connects to an input with Simple DataLink in two ways:

1. In CableLink Mode with limited control via the connected Bang & Olufsen device.

2. In Direct Mode with complete control communicated directly from the remote.

ADVANCED DATALINK

Advanced DataLink carries more data and enables complete control.

This DataLink format is used when interconnecting radios and televisions in older installations. The format is also used in remote control units and in links to speakers and link rooms.

The interconnection of radios and televisions was developed further with the introduction of the MasterLink system. Advanced DataLink is used in various applications and with many cable connectors, like DIN, DIN speaker, SCART and others.

MASTERLINK, 15 PIN MODULAR CONNECTOR

MasterLink is used for connection between radio and television devices, socalled audio-video integration, in newer installations.

POWERLINK, 8-PIN DIN

PowerLink is solely used for connection of Bang & Olufsen active speakers to Bang & Olufsen devices delivering sound signals. The cable connection carries both the right and left stereo channel.

Additionally DataLink data might be present to control speaker displays if required.

CABLELINK CABLING AND ADAPTORS (SNUTS)

The DabWiFi4 tuner is supplied with two standard cables covering most applications. Connections possible are :

- Direct Mode
- Input socket for 7-pin DIN. *The supplied 5-pin DIN carries only sound signal.*
- Input with RCA Phono plugs

When the DabWiFi4 tuner connects via CableLink an appropiate cable and/or adaptor (snut) need to be ordered as an accessory.

CABLELINK MODE, COMPLETE OR LIMITED CONTROL

When the DabWiFi4 tuner is connected in the CableLink Mode, the control signals arrive at the tuner via the connection cable to the connected device. This signal path allows for control from a link room or via other devices in the link system.

Music from the DabWiFi4 tuner may always be LISTENED to in a link room whether installed in the CableLink Mode or in the Direct Mode, but the control differs:

- CableLink Mode – the DabWiFi4 may be controlled from the link room.
- Direct Mode – the DabWiFi4 may only be controlled in the main room.

Some older Bang & Olufsen audio units are equipped with input sockets containing DataLink, other ones do not.

Check below tables for the connection options for any specific device.

Please note that most of the Bang & Olufsen audio units with the CableLink option only offer limited control, i.e. power on/off plus selection of presets.

When connected to an AV-input on a TV in a link system the DabWiFi4 may not only be listened to on the link speakers, but even offer complete control.

CABLES AND SNUTS FOR THE DABWIFI4 TUNER

Type	Connector A	Connector B	Nickname	Length cm	Application
39207432 *1	DIN7 Fem	DIN7 Mal	ASNUT	20	BeoLink Converter for audio sources
39207434 *1	DIN7 Fem	DIN7 Mal	VSNUT	20	BeoLink Converter for video sources
39207436 *1	DIN7 Fem	DIN7 Mal	PCSNUT	20	BeoLink Active PC socket
39207437 *2	DIN7 Fem	Jack 3.5 Mal	JACKSNUT	20	Beosound 5 and others
39207438 *3	Jack 3.5 4-pole Mal	2 x RCA Mal	RCASNUT	20	Beosound 4 and others
39207440 *4	Jack 3.5 4-pole Fem	Jack 3.5 4-pole Mal	CLEXT	250	CableLink extender
39207448 *5	Jack 3.5 4-pole Mal	DIN7 Mal	CableLink 4-pole	200	CableLink connector **WITH** link
39207449 *6	Jack 3.5 Mal	DIN7 Mal	CableLink 3-pole	150	Cablelink connector **WITHOUT** link. *Supplied with the DabWiFi4 tuner*
39207496 *7	DIN7 Fem	Scart Mal	SCARTSNUT	20	CableLink converter Scart

Mal = male

Fem = female

*1   *2   *3   ***4**   *5

*6   *7

OLDER BANG & OLUFSEN REMOTES

All Bang & Olufsen system remote controls can control the DabWiFi4 tuner.

Through the years Bang & Olufsen has supplied various models, where keys have been added or removed. Other keys have been renamed.

The key called **PLAY** on the first models was renamed **GO** on later models, but with unchanged functionality.

If the remote does not have a **GO** key or a small joystick, the DabWiFi4 is controlled in accordance with the table "Older Bang & Olufsen Remotes" in the User Guide.