Introduction

This Idea Catalogue is designed to give Bang & Olufsen retailers inspiration and ideas to what is possible when it comes to integrating third party products and create exiting solutions for our customers.

It serves as illustration only, and we recommend that you attend integration training courses regularly to achieve knowledge about the solutions shown. You can find and book courses in BEOCADeMY.

Our contact to retailers, installers and system integrator worldwide ensure we have and are able to share the latest knowledge or best practice with you globally.

You can find additional information on BeoWise under the '3rd party products' section and if you have questions or need more information, you can contact the Project Sales Support team, check out the suggested website or find instructional videos in the dedicated YouTube section.

E-mail: beoliving@bang-olufsen.dk
Website: www.beointegration.com
YouTube: Beointegration.com
Integration with third party products and special set-ups:

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Apple AirPlay

Use your iPod/iPhone/iPad as your music server and push content from your device to any AirPlay device you have.

Push to TV

Push to Speakers

Swipe up from the bottom of your AirPlay device and the AirPlay icon is shown if any AirPlay devices are on the same LAN. Select the device of your choice, and the sound will start playing.

Linked via Network

Linked via network operates in a very similar way as the above, except that all content is "pulled" from your iTunes application.

Description

You can push both video and music from your handheld device to your TV or speaker setup. The limitation is that only one device can be used at the time, and only one linked AirPlay device can be pushed to at any one time. See additional information under Apple TV or Apple Airport Express.

Apple System

Apple iTunes must be running on your computer if you want to see/hear music, photo or video from your computer. This system works by 'pulling' content from the iTunes computer to the device that you are using. The main benefit is that you can pull different content to different devices at the same time.

*Powerline is an option.

PUC filename: Apple Remote

www.apple.com/airplay/
Apple TV
On-screen access to your digital Apple library of music, photos, videos and podcasts. Controlled from your preferred Bang & Olufsen remote control.

Description
Apple TV allows you to access internet TV like Netflix content directly on your Bang & Olufsen TV

Access to:
Netflix, YouTube streaming, Podcasts and other internet services.
iTunes music, photos and movies from your computer
AirPlay streaming from your iOS devices

PUC file name: Apple remote

www.apple.com/airplay

NB.*Powerline is an option.

Accessories needed:
– Apple TV
– IR blaster (mini-jack) 8330352
– IR blaster RJ45 x1 IR blaster = 6271234
– IR blaster RJ45 x 2 IR blaster = 6271204
– IR blaster RJ45 x 2 minijack (i.e. for OPPO) = 6271214
– HDMI cable
– Ethernet cable (recommended) or WiFi
– B&O recommended router

There is no storage capacity on the Apple TV. It cannot access content from NAS directly or through the iTunes server feature available on some NAS drives. The iTunes application should be running on your PC/MAC on the same network to facilitate this functionality.
Apple Airport Express

Allows you to listen to your favourite content from your Apple mobile devices.

This functionality can also be obtained by using the Bang & Olufsen BeoSound Essence.

Description
Airport Express / BeoSound Essence easily adds extra zones or rooms to your house. Use your iOS device to control the sound experience. You can push audio to the Airport Express directly from your iOS device or you can use iTunes from your Mac/PC and remote control it with the Remote app from the app store. The last mentioned option will allow you to distribute to more rooms simultaneously.

www.apple.com/airplay

Accessories needed:
- Apple Airport Express or BeoSound Essence
- Stereo mini-jack to 2 x Power Link DIN 6270642
- Stereo mini-jack to Power Link RJ45: 6270433 + 6271216
- ML/PL splitter 3x RJ45: 3130047
- Ethernet cable (recommended) or WiFi
- Bang & Olufsen recommended router

or BeoSound Essence

Router

Airport Express for example in the bedroom. See AirPlay explained elsewhere.
Belkin bluetooth music receiver

Stream music from any bluetooth enabled portable device to the music receiver wirelessly

Description
The music receiver converts the music stream to analogue signal in high quality.

Connection settings:
- AV Input: Line input
- Adapter from RCA/phono plug to DIN may be required depending on the audio system used.

http://www.belkin.com

Accessories:
- Belkin bluetooth music receiver (find at www.amazon.com) Comes with both stereo, mini jack and RCA/phono plugs

TIP:
- Line input on the audio system should be used
- Adapter from RCA/Phono plugs to DIN may be required
- If a BeoLink Gateway is connected to the Bang & Olufsen system, it is possible to control the Bang & Olufsen music system from the BeoLink app (Apple iOS)
  Navigate to: BeoWise/3rd party products/Portable Devices/Belkin BT receiver/Apple AirPort Express

Note: Diagram is for illustration purpose only. Only one device can be used at a time.
Apple AirPort Express as Wi-Fi music receiver (AirPlay)

Stream music from your portable Apple device and connect to the wireless home network.

This functionality can also be obtained by using the BeoSound Essence

**Description**

The Apple AirPort Express converts the music stream to an analogue signal in high quality. If a wireless home network exists, the Apple AirPort Express should be connected to this. If no wireless network exists, the Apple AirPort Express must be configured as an access point.

**Connection settings:**
- Beo4 command (A. AUX)

**Accessories:**
- Apple AirPort Express
- Adapter from RCA/phono plug to DIN may be required depending on the audio system used.
- AUX DIN male to stereo RCA/phono female 20 cm: 6270302

www.apple.com/airplay

Note: Diagram is for illustration purpose only. Only one device can be used at a time.
DLNA (Digital Living Network Alliance)

Is a standard used by a large number of manufacturers of consumer electronics to allow entertainment devices within the home to share their content with each other across a home network. It is a ‘connecting’ standard for photo, video and audio content stored on a digital media.

NAS drive Digital Media Server (DMS)
These devices store content and make it available to networked digital media players (DMP) and digital media renderers (DMR). Some digital media servers can also help protect your content once stored. Examples: PCs, MAC’s and network attached storage (NAS) devices.

Digital Media Player (DMP):
These devices find content on digital media servers (DMS) and provide playback and rendering capabilities. Examples: TVs, stereos and home theaters, wireless monitors and game consoles.

Digital Media Renderer (DMR):
These devices are controlled from a digital media controller (DMC), which will find content from a digital media server (DMS). Examples: TVs, audio/video receivers, video displays and remote speakers for music.

Digital Media Controller (DMC):
These devices find content on digital media servers (DMS) and play it on digital media renderers (DMR). Examples: Internet tablets, Smart Phones (Android and iOS devices), PC’s, MAC’s, Wi-Fi enabled digital cameras.

DMR can be controlled by a DMC to play content from DMS.

Request for information:

Main data flow:

Wireless data flow:

Description

You need a home network. We prefer wired networks to co-exist with the Network Link infrastructure which is recommended by Bang & Olufsen. Wireless links or Powerline are optional. DLNA certified devices today connect, discover and communicate with each other over a network such as Network Link.
Western Digital WD TV

Western Digital WD TV allows you to watch and listen to content from your NAS drive directly at your Bang & Olufsen TV.

This feature is already available in the newer televisions using the HOME-MEDIA source, but for older TV's the WD TV is a good solution.

Description
Western Digital HD TV is a DMP (Digital Media Player). It uses the DLNA system to allow quick and easy connection to your existing network.

Western Digital HD TV is also a DMR (Digital Media Renderer). You can 'push' content from a Digital Media Server using a Digital Media Controller.

PUC file name    WD - TV Live Hub
www. wdc.com

Accessories needed:
- Western Digital TV Live
- NAS drive
- Internet Connection (minimum broadband)
- HDMI cable
- Ethernet cable
- IR blaster (mini-jack) 8330352
- IR blaster RJ45 x1 IR blaster = 6271234
- IR blaster RJ45 x 2 IR blaster= 6271204
- IR blaster RJ45 x 2 minijack (i.e. for OPPO)= 6271214
- Bang & Olufsen recommended router
PlayStation 3 with RE-BL control

Control your playstation with your Bang & Olufsen remote control and get full DVD/Blu-ray disc control as well.

NOTE: This solution does, at present time, not work with PlayStation 4.

Description
This option also gives full support to on and off commands. It is necessary to pair the RE-BL with the PlayStation 3. Look in the attached guide how to do this.

Find guide at www.re-bl.com

PUC file name: WB Elec. RE-BL PS3

Accessories needed:
- Sony PlayStation 3
- RE-BL
- RE-BL B&O kit includes mini-jack to mini-jack cable, and RE-BL PSU
- HDMI cable
- Ethernet cable (recommended) or WiFi
- B&O recommended router

Note: Only use SW Build 6xx or higher on A1-based products (BeoSystem 3/BeoVision 7) to achieve stable power management.

www.re-bl.com/bol
Find dealer/webshop/guide on http://www.re-bl.com
BeoSound 5/BeoMaster 5 as source center

Description
This set-up offers you two new sources (N.Music and N.Radio) on the Master Link system.

Basic operation:
- N.MUSIC = BeoSound 5 stored music
- N.RADIO = BeoSound 5 Internet Radio
- CD = Audio master CD
- RADIO = Audio master radio
- A.AUX = Audio master (BeoSound 9000) AUX Input

Setup:
- BeoVision – option 1/2
- Audio master (e.g. BeoSound 9000. Check BeoWise for relevant sw levels) – option 0/1/2.

BeoMaster 5 audio master option can be found here:
(SERVICE MENU – ROLES – AUDIO MASTER – NO)
BeoSound 5 A.AUX input

Behringer UCA222 (USB – A-AUX adaptor). Get music from an external device on your Bang & Olufsen music system.
- DLNA - is built-in
- Bluetooth - use the Belkin device
- AirPlay - use AirPort Express

Additional music from 'Line-in' connection
You can now listen to music from an external device on your Bang & Olufsen music system. The BEHRINGER UCA 222 is a USB-to-Audio interface that allows this seamlessly.

Plug the UCA222 directly into the USB port on your BeoMaster 5
Plug your external device into RCA input on the UCA 222
Select A.AUX from the 'mode' section on BeoSound 5
Sit back and enjoy.

Note, if sound from a 3rd party TV is added to AUX input, delay will occur (lip sync problem).

Basic operation
- N.MUSIC = BeoSound 5 stored music
- N.RADIO = BeoSound 5 Internet Radio
- A.AUX = External device connected via Behringer
- BeoSound 5/BeoMaster 5 must be selected and setup as audio master.
Kaleidescape (high-end A/V distribution)

Description
This solution offers a complete digital audio/video library to be accessed throughout the entire Bang & Olufsen video range in your home. All controlled by your preferred Bang & Olufsen remote control.

It is also possible to share one or more players to all the TV’s using an Atlona HDMI matrix switcher instead of having a player for each TV.

PUC file name: G Kaleidescape

Accessories needed:
- Kaleidescape system*)
- IR blaster (mini-jack) 8330352
- IR blaster RJ45 x1 IR blaster = 6271234
- IR blaster RJ45 x 2 IR blaster = 6271204
- IR blaster RJ45 x 2 minijack (i.e. for OPPO) = 6271214
- HDMI cable
- CAT7 cable (500m reel 6250027)

*) Find dealer on http://www.kaleidescape.com/buy/
**Video Library (TViX)**

Storage of entire digital video library and Bang & Olufsen remote control

**Description**
This solution offers you a video server solution, for storage of your entire digital video library. All simply controlled by your preferred Bang & Olufsen remote control.

www.tvix.co.kr

**PUC file name:** TViX 3D S2

**Accessories needed:**
- TViX M6500, 6600, S1, 3D S2 or N1 without HDD
- IR blaster (mini-jack) 8330352
- IR blaster RJ45 x 1 IR blaster = 6271234
- IR blaster RJ45 x 2 IR blaster = 6271204
- IR blaster RJ45 x 2 minijack (i.e. for OPPO) = 6271214
- HDMI cables
- Ethernet cables
- Bang & Olufsen recommended router
- NAS drive (optional if no built-in HDD in TViX)

Find nearest dealer on http://www.tvix.co.kr/
Bang & Olufsen Video Distribution

In a multi-screen installation, you get Full-HD/4K distribution, access and control of centrally placed media sources from your Bang & Olufsen remote.

Full HD models available:
- Atlona 4X4 HDMI Matrix. AT-PRO3 HD44 M
  Bang & Olufsen part number 8780316 (EU)
- Atlona 8x8 HDMI Matrix AT-PRO2HD88M.
  Bang & Olufsen part number 8780318 (EU)
- Atlona 16x16 HDMI Matrix AT-PRO2HD1616M.
  Bang & Olufsen part number 8780319 (EU)

UHD/4K models available:
- Atlona 6x6 HDMI Matrix AT-UHD-PRO3-66M.
  Bang & Olufsen part number 8780343 (EU)
- Atlona 8x8 HDMI UHD Matrix AT-UHD-PRO3-88M.
  Bang & Olufsen part number 8780344 (EU)
- Atlona 4x4 and 16x16 HDMI UHD Matrix. Coming soon.

Description
Each TV can receive all the HDMI sources.
With a full HD matrix up to 70 metres on CAT7 distribution. With a UHD/4K matrix up to 100m on CAT7 distribution (dependent on selected output on matrix and receiver box used.)
Full IR and PUC control for every source from every TV.
This solution works using the Bang & Olufsen BeoRemote One, Beo4 as well as the BeoRemote and BeoLink app.

- Feature Activation key needed for BeoVision 7, BeoVision 10, BeoSystem 3 and BeoPlay V1
- PUC tables in “each” TV for control
- Takes up 1x HDMI and 1x PUC for each TV
- For perfect control, use BeoRemote One or BeoLink app

For more information see www.atlona.com/bang-and-olufsen/

Accessories needed:
- Atlona Matrix (see available models above)
- Receiver box for each TV
- PUC cable for connection to B&O TV
- HDMI cables from receiver box to TV and from source to matrix
- CAT7 installation cable (500m reel 6250027)

Ordering from Europe, Africa and Russia via Bang & Olufsen
(Retail System/DAILY OPERATION/Ordering 3rd party products
/How to order Atlona products)

For ordering outside EU, see:
www.atlona.com/bang-and-olufsen/
Add additional HDMI inputs to your TV (HDMI Expander)

With an Atlona HDMI switch you can expand the number of HDMI inputs you have on your TV. The switch can be PUC controlled from the TV. Please make sure that there is enough PUC outputs from the TV for the sources needs to be controlled.

Description
Inputs for 4 HDMI sources
Supports 3D.

Accessories needed:
- Atlona HDMI Switch AT-HD4-V41
- Atlona Optocoupler cable AT-BO-PRO2HD-1MIR (PUC connection from TV to HDMI Switch)
- Both the above can be ordered from Atlona US (email to: michael@atlona.com)
- HDMI cables to all sources and from TV to HDMI Switch. Find part no. under "Cables" in the "Catalogue" in the Retail System or in the BeoLink Handbook.
- PUC-IR blaster or PUC mini-jack cables to controllable sources. Find part no under "PUC" in the "Catalogue" in the Retail System or in the BeoLink Handbook.
HDMI over CAT 7 HDMI Extender (long cable solution)

For connection of HDMI sources that are placed more than 10 m away from the TV. Connecting a TV monitor or Projector that are more than 10 m away from BeoSystem 4.

**Description**
Can transmit HDMI over one CAT 7 cable (up to 100 m). Supports 4K/UHD/3D

**Accessories needed:**
- Atlona HDMI Extender: AT-UHD-EX-70C-KIT (Max. 70 m)
  B&O partnr. 8780348
  AT-UHD-EX-100CE-KIT (Max. 100 m)
  B&O partnr. 8780349
- Atlona Optocoupler cable AT-BO-HD4V110-1MIR (PUC connection from BeoSystem 4 to Sender box (AT-HD-V110S))
- HDMI cables from BeoSystem 4 to box and from box to Monitor/Projector (or from source to box and from box to TV). Find part no under "Cables" in the "Catalogue" in the Retail System or in the BeoLink Handbook).
- PUC-IR blaster or PUC minijack cables to controllable sources (find part no under "PUC" in the "Catalogue" in the Retail System or in the BeoLink Handbook)
3rd party control systems

Alternative control interface to Bang & Olufsen audio/video setups, typically involving large scale home automation installations. For control of Master Link products a BeoLink Gateway / MasterLink Gateway is needed. If the setup consists only of Network Link products it is possible to talk directly to the products without a gateway, using the drivers available via www.beointegration.com.

MLGW/BLGW drivers are available for the following manufacturers: Crestron, AMX, Control4 & Beckhoff

Direct IP drivers are available for the following manufacturers: Crestron, Control4 & Savant

Important settings:

**Network Link TVs:**
- Enable Quick Start Timers and Wake on LAN
- Set a fixed IP address for NL products or make a DHCP reservation in the router.

**Master Link TVs:**
- In the ‘Customer Service Menu’ -> ‘ADJUSTMENTS’
  - set STAT TO MLGW ON
  - set CMDS TO MLGW ON
- Make sure POWER SAVING is disabled in the main menu

**BLGW / MLGW:**
- Enable MLGW Protocol over IP or RS232 (dependent on setup)
- Perform product assignment as guided in the menu (MLN Node number)

Accessories needed:
- Recommended Internet router/switch
- MLGW or BLGW (if any Master Link products) *)
- Drivers and demo program **)
- Ethernet cables

*) Check BeoWise/Link/ML Gateway/Tips for MLGW/BLGW compatible products

**) Download from http://www.beointegration.com

Stay updated about new drivers and functionality from www.beointegration.com
BeoLink control system

This solution offers remote access and control of both your A/V and Home Automation systems, utilising your local Wi-Fi network. Secure remote access to the system is also possible when using the Khimo online service*).

**BLGW**
- Set-up Areas & Zones (rooms), systems, resources and sources to get started with basic operation.
- Capture the products on the different systems that should be part of the BeoLink system and give them names.
- Program Macros for more detailed operation

**Network Link TVs**
Enable forwarding of Light/Control commands to BLGW here:
SERVICE MENU -> SETTINGS -> FORWARD LIGHT/CTRL -> Select Product (MLGW/BLGW)

**Master Link TVs**
In the ‘Customer Service Menu’ -> ‘ADJUSTMENTS’ set
STAT TO MLGW OFF
CMD TO MLGW ON

**Accessories needed:**
- LAN network components
- Supported Home Automation system(s)**)
- Apple iPod Touch, iPhone or iPad
- BeoLink App***
- A USB -> RS232 converter may be needed for some systems. Use same as used with Servicetool.

*Khimo is free of charge the first month, but is a paid service after the trial period. See www.khimo.com for more information.
**)}Find the updated list of supported systems/partners on www.beointegration.com
***Available in Apple App Store

See the BeoLink Gateway Installation guide on BeoWise and www.beointegration.com for for more information.
Mirror TV with BeoSystem 4 (Aquavision)

TV integrated in the mirror in wet rooms connected to BeoSystem 4 offering full Bang & Olufsen remote control and linking to your home automation system via BeoLink Gateway.

Settings:
- Make sure the Aquavision TV supports Full-HD
- See the BeoLink Handbook for connection/wiring details regarding the IR eye and IR Blaster
- Set it up as a monitor and download the AquaVision IR codes to BeoSystem 4
- Set remaining BeoSystem 4 settings up as you would any other normal system.
- The external speakers should be connected to BeoSystem 4’s Power Link outputs. This way they can be used for both BeoLink Multiroom and for TV viewing.

Accessories needed:
- AquaVision monitor*
- IR blaster cable 6271234
- IR eye 8087030
- CAT7 Product Cable
- Atlona HDMI Extender: AT-UHD-EX-70C-KIT (Max. 70 m) B&O partnr. 8780348
  AT-UHD-EX-100CE-KIT (Max. 100 m) B&O partnr. 8780349

*)Purchase locally
Alternative stand and bracket solutions (STB Brackets)

Company information
STB Brackets has been making brackets complimentary to Bang & Olufsen since 1998. It has been recognised that STB supplements the stand program and delivers excellent solutions to the distribution. These solutions give increased flexibility when dealing with customer’s needs.

STB Brackets holds an official status as Bang & Olufsen’s preferred partner for brackets and stands.

Contact details
Webpage: http://www.stbbrackets.co.uk
Please e-mail your questions to: contact@stbbrackets.co.uk
You can contact them on the telephone during normal office hours (9 am - 5.30 pm) (GMT) Monday to Friday
Tel: +44 1 522 522 400

Note: STB brackets only have EU approval despite selling outside of Europe.
Lifts for projectors (Future Automation)

Description
Experience and a background in custom installation gives Future Automation an unrivalled understanding of the challenges you face. It is this insight that has allowed them to develop the most comprehensive product range of its kind which, when combined with their bespoke service, means that they can deliver a solution for every project; whatever the size and however challenging.

They also deliver the projector lift used for BeoLiving rooms and a ceiling bracket for projectors.

Contact details
Accounts/sales/orders: info@futureautomation.co.uk
or graham@futureautomation.co.uk

North America / Marine: ollie@futureautomation.co.uk
3D Blu-Ray disc player for Bang & Olufsen TV’s (OPPO BDP-103/105D)

3rd party DVD/Blu-Ray player (OPPO BDP-103/105D) to support Bang & Olufsen televisions that need a 3D and/or 2D disc player connected.

Description

With a IR PUC cable from the Bang & Olufsen televisions PUC output to the OPPO BDP-103/105D IR connector at the backside, the customer can operate the Blu-ray player using a Bang & Olufsen remote control.

See the installation guide on BeoWise for more details.

Order special B&O version without OPPO startup and pause logo.
EU version: BDP-103EUBO www.oppodigital.co.uk
mail to: harriet@oppodigital.co.uk
US/ROW version: BDP-103USB0 www.oppodigital.com
mail to: kevin@oppodigital.com

Accessories:
– IR mini jack pn 6271086 (2.5 m), 6271097 (10m)
– IR mini jack/RJ45 part no 6271214 (7.5 m)

NOTE: If OPPO Blu-ray is connected to an Atlona HDMI matrix, a special PUC cable is needed. Please see service tip on BeoWise.

OPPO EU mains cord
UK and standard EU mains cords will be delivered along with the product. For Denmark, Switzerland and Italy, a separate mains cord must be purchased for proper installation with earth.
• Denmark (no. 6100036)
• Switzerland (no. 6100426)
• Italy (no. 6100429)
Solution for ripping CD’s to a NAS drive (RipNAS Solid E)

When needing a solution for ripping a customers CD to a NAS drive we have found the below product to perform well. With fanless design the RipNAS is more reliable and noiseless. It has a very small form factor and a very low power consumption.

Description
If you need to rip many CDs, then the RipNAS Solid E is a good choice. It is delivered with a 1 TB HDD preinstalled. Storage can be expanded or backed up using USB HDD connected to the RipNAS. Metadata is received from 5 different online databases.

For more details and where to buy please see:
http://www.hfx.at/

NOTE: In some countries it might be illegal to RIP CD’s even for personal use, i.e. United Kingdom (July 2015)
Simple light control solution (Philips Hue)

Philips Hue lighting is a great way to make a simple light control solution and get started selling the BeoLink Gateway and all its features to a customer. It is cheap to get started with and is very easy to install as the bulbs communicate wirelessly via ZigBee to the bridge.

Description
The Philips Hue system can now be purchased in many countries around the world and they have quite an extensive product range with many types of lamps and sockets for different purposes. You can connect up to 50 Hue light bulbs to a single system all wirelessly, while using as much as 80% less energy than traditional bulbs.

Just setup the Hue system with the Hue App and name the lamps. Then it is easy to import them into the BeoLink Gateway. It takes approx. 10 minutes to get the lamps programmed for basic control, once the process of adding the lamps in the BLGW has been started.

The lamps can be controlled either via the Home Control menu on the TV screen, the BeoLink App or via the Bang & Olufsen remote if some macros are made to adjust the lamps or trigger some scenes.

Accessories
BeoLink Gateway
Philips Hue Starter Kit
Philips Hue App

See the installation guide for Philips Hue on BeoWise or read the internal help file in the BLGW for more information on setting it up and using the system.
Chromecast content from Mobile Devices to TV screen

With Chromecast it is possible to “cast” a wide variety of content from iOS and Android devices to the television screen. It is simply a HDMI dongle connected to the TV’s HDMI inputs and it is powered by a USB connection.

Description

The Mobile device acts as the controller of the casting, but the actual streaming is done by the Chromecast device directly from the internet which conservers the battery of the mobile device.

Many Apps has now built-in support for Chromecast and the list keeps growing.

Accessories

Chromecast
HDMI extension cable for getting better WiFi signal (Optional)
Cabled LAN adaptor for faster connection (Optional) *)

*) Check availability in your country. Only available in US (as of July 2015)
PowerLine infrastructure (Devolo)

Bang & Olufsen has chosen to offer Powerline products from Devolo as Devolo is the technology leader within Powerline technology. Below please find a short description of the product and usage.

Description
Powerline is a technology that allows a data signal to be transmitted on the power cables (120/230V) that already are installed in all private homes.

It can be used as an alternative to Wi-Fi in installations where it is not possible to use CAT7 cables. In homes with e.g. concrete walls, floor or ceiling where Wi-Fi can be problematic.

In many cases Powerline has been seen as more stable than a Wi-Fi connection, however like with Wi-Fi there will be situations where Powerline may also have problems.

It can also be used as an easy way to enhance Wi-Fi coverage in a home. For more information see www.devolo.com or BeoWise > 3rd party products > Active Network Components > devolo

Accessories
- dLAN 650 triple+ (Ethernet cable replacement, 3x LAN)
- dLAN 500 duo (Ethernet cable replacement, 2x LAN)
- dLAN 500 AV Wireless+ (Wireless AP via Powerline, 3x LAN)
- dLAN 500 WiFi (Wireless AP via Powerline, 1x LAN)

Devolo products can be ordered from Bang & Olufsen in Europe only. Outside Europe we refer to source similar products locally.

- dLAN 650 triple+, Starter Kit EU 8780101 / UK 8780102
- dLAN 500 duo, Starter Kit EU 8780052 / UK 8780053
- dLAN 500 AV Wireless+, Starter Kit EU 8780056 / UK 8780057
- dLAN 500 WiFi, Starter Kit EU 8780058 / UK 8780059
- dLAN 500 WiFi, Single Unit EU 8780060 / UK 8780061
Playing CD’s on a Bang & Olufsen TV (OPPO BDP-103/105D)

If not possible to use a Bang & Olufsen CD player, the next best thing is to utilize an Oppo player as a CD player connected to a Bang & Olufsen Television.

Description
Because it can be controlled by PUC it is possible to change tracks in a multiroom setup. If the TV is on while playing CD it will automatically get the coverart and metadata from Gracenote and show it on the screen.

Order special B&O version without OPPO startup and pause logo.
EU version: BDP-103EU BO www.oppodigital.co.uk
mail to: harriet@oppodigital.co.uk
US/ROW version: BDP-103USBO www.oppodigital.com
mail to: kevin@oppodigital.com

Accessories:
– IR mini jack pn 6271086 (2.5 m), 6271097 (10m)
– IR mini jack/RJ45 part no 6271214 (7.5 m)

NOTE: If OPPO Blu-ray is connected to an Atlona HDMI matrix, a special PUC cable is needed. Please see service tip on BeoWise.

OPPO EU mains cord
UK and standard EU mains cords will be delivered along with the product. For Denmark, Switzerland and Italy, a separate mains cord must be purchased for proper installation with earth.
• Denmark (no. 6100036)
• Switzerland (no. 6100426)
• Italy (no. 6100429)
Controlling the Home Automation from the TV screen

One of the new features of the BeoLink Gateway is the option to access and control your home automation resources directly from the TV screen.

Description

With this new feature it is possible to get an overview of all the home automation resources added to the BeoLink Gateway configuration.

Using just a few clicks on the BeoRemote One you can see if anyone has forgotten to switch off the lights somewhere in the house or even see who is outside the door getting the image from an IP camera directly on the TV screen.

The menu just overlays whatever content that is shown on the TV and it even works on 4K content.

Accessories:
BeoLink Gateway
Home Automation resources supported by BeoLink Gateway
See list of supported systems in the BeoLink Gateway installation guide.
Android based UHD player for in-store video

Directly out of the box you have a video player that supports UHD/4K. The box runs on Android 4.4.2 (aka KitKat).

It has built-in IR sensor and the remote control is very basic. PUC codes have been made and is available to download from BeoPortal.

Description
MX3 Android 4.4 Quad Core 2G/8G XBMC 4k TV Box

Features:
- HDMI 2.0
- H.265 and HEVC
- Ethernet LAN 1 Gigabit
- Quad core
- Built in IR receiver

Please note that Netflix with 4K will never be available on this, because it come directly rooted (not locked) and Netflix doesn’t allow 4K on rooted device.

Available from Amazon. In order to get the correct power adaptor, please order it locally.

PUC filename: Android TV BOX MX3

Set HDMI output manually: Settings/Display/HDMI Output mode settings/4K2-30Hz
Connecting wireless Bang & Olufsen speakers to a 3rd party TV

RCV3000 makes it possible to connect a Samsung, LG or Sony TV to the BeoLab Transmitter 1 while still using the TV’s own remote to control the volume level.

**Description**

The TV can be connected to the BeoLab Transmitter 1 via TOSLINK or fixed line-out.

RCV 3000 key features
- Is connected directly to the BeoLab Transmitter 1 via the included USB cable
- Requires no batteries to operate as the power is provided directly from the USB interface
- Captures IR signals from the latest generation of Samsung, LG and Sony remote controls**
- Passes on the following volume commands to BeoLab Transmitter 1: Volume up / volume down / mute / de-mute

**Specifications and prices**

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<th>Dimensions</th>
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* Requires SW v1.1 in BeoLab Transmitter 1
** Check BeoWise for further information on compatibility
Using a 3rd party TV with BeoSystem 4

When customers are demanding a TV smaller than 40 inches or bigger than 85 inches it may be required to integrate with a 3rd party television.

**Settings:**
- Make sure that the TV supports Full-HD resolution
- See the BeoLink Handbook for connection/wiring details regarding the IR eye and IR Blaster
- Set it up as a monitor and download the IR codes matching the TV manufacturer to BeoSystem 4. If none of the existing codes are working, they can be made by you using PUCtool3 or alternatively send the remote to your local PUC representative to learn the IR codes.
- Set remaining BeoSystem 4 settings up as you would any other normal system.
- The external speakers should be connected to BeoSystem 4's Power Link outputs. This way they can be used for both BeoLink Multiroom and for TV viewing.

**Accessories needed:**
- 3rd party monitor*
- IR blaster cable 6271234
- IR eye 8087030
- CAT7 Product Cable

*)Purchase locally

**Limitations:**
- Not possible to get the sound from the Built-in apps on the TV i.e. YouTube to the Bang & Olufsen speakers connected
- All sources has to be connected to BeoSystem 4 in order to get sound from them
- The TV’s own speakers cannot be used for audio. Speakers connected to BeoSystem 4 has to be used.
Netflix 4K on the BeoVision Avant-55/75/85 (Sony FMP-X5/X10)

Since BeoVision Avant does not have the built-in capabilities to decode H.265 HEVC codec that is required to for viewing Netflix 4K, we have come up with solution that enables the customer to watch Netflix 4K content on their BeoVision Avant.

**Description:**
The Sony FMP-X5 / FMP X-10 is a media player that comes pre-installed with Netflix with the possibility to show 4K content. We have made the PUC codes available for it, so that you will be able to control it with the Bang & Olufsen remote as if it was built into the TV. It is also possible to use this through the Atlona UHD matrix line, but be aware that UHD TV’s can not watch the player at the same time with Full-HD TV’s. A dedicated player is required for UHD TV’s in that case.

**Requirements:**
- B&O SW 1.0.10 or higher is required for BeoVision Avant 55/75/85
- Connect it to HDMI 1 on the Avant. Only this input supports HDMI 2.0 and HDCP 2.2 which is required for Netflix 4K.

**Accessories needed:**
- Sony FMP-X5 / X10 (Purchase locally)
- UHD capable HDMI cable
  - HDMI 0.5 m class 2 (UHD capable) 6271258
  - HDMI 0.75 m (UHD capable) 6270940
  - HDMI 1 m fully shielded (UHD capable) 6271254
  - HDMI 1 m (UHD capable) 6270942
  - HDMI 1.2 m (UHD capable) 6270957
  - HDMI 5 m class 2 (UHD capable) 6271256
  - HDMI 10 m (UHD capable) 6271257
- IR blaster cable 6271234

**NOTE:** The player does not fit into the socket panel of any of our TV’s.