PowerLink Speaker Adaptor

OneRemote Type 30017744

User Manual
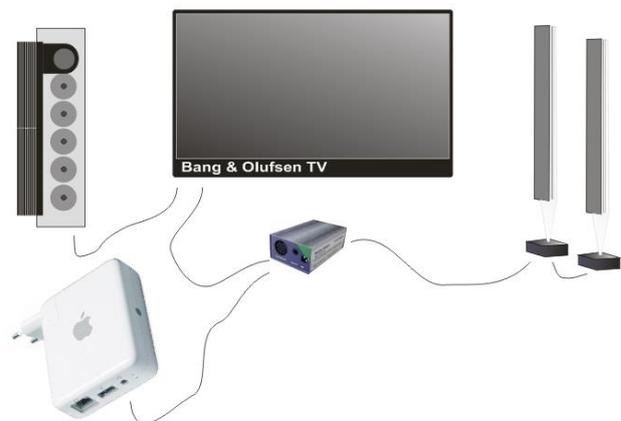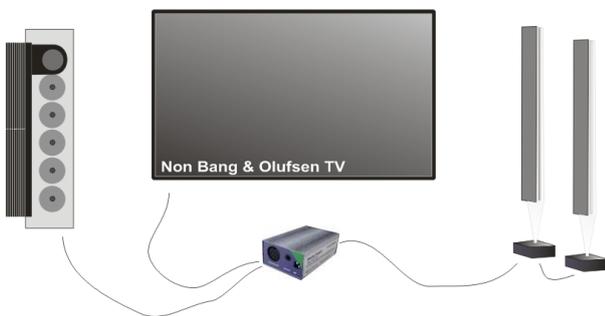
Content

The PowerLink Speaker Adaptor makes it possible for two different sound sources to share one set of active (powered) speakers, like Bang & Olufsen PowerLink speakers.

Input Sources:

- Any B&O radio or TV speaker out source.

- Any analog audio source like a TV, a Sonos system, an Apple AirPort Express, a Bluetooth receiver, a DAB receiver or similar.

PLUG & PLAY OPERATION

There is no programming needed to make the adaptor work. When connected sound from one connected device is lead to the speakers in accordance with below truth table.

The PowerLink source will always have priority over the AUX source. See the truth table.

When detection of sound on the AUX input, the Speaker Adaptor will power on the speakers and loop the AUX source to the speaker.

The speakers will remain powered on, until no sound has been detected on the AUX source for about a minute.

PowerLink Source	AUX	PowerLink Out
ON	OFF	PowerLink source
ON	ON	PowerLink source
OFF	ON	AUX *1
OFF	OFF	Speaker off *1

*1 The speakers remain powered on for a minute after sound disappears from the AUX source.

GALVANIC ISOLATION

Using galvanic isolation the input signals are completely kept separate from each other.
This prevents problems with floating grounds and the two separate ground potentials for data and audio.

- Signal switching is made with a mechanical relay.
- Data ground signal is switched with a mechanical relay.
- Analog ground signal is switched with a mechanical relay.
- Digital data signal flow via galvanic isolating optocoupler.

LOSSLESS POWERLINK AUDIO PASS

The PowerLink audio signals pass without any modification; the output of the switch is the same as the input.

DATALINK PASS

Datalink signals are passed to the output when the PowerLink source is active.

INSTALLATION

The OneRemote PowerLink Switch is easily installed.

1. Connect the speakers with PowerLink cable(s). *Not included.*
2. Connect the two sound sources with appropriate cables. *Not included.*
3. Connect the mains adaptor.

CABLE QUALITY

Make sure to use good quality PowerLink cables, preferably double-shielded types, especially if long cables are used. Do not use un-shielded cables for any connection.

PowerLink MKII with 4-wire mounted is not recommended.

Badly or non-screened cables pick up noise from the surroundings.

AUX SOURCE NOISE REDUCTION

The AUX input can connect to any audio source. A regulated line output from a preamplifier is one type of signal, a headphone output on a TV is another type.

Use the two NR DIP switches on the PowerLink Adaptor to match the source, and thereby reduce noise. The switches must both be either up or down. Use the position with the best result.

If noise disappears when pulling out the AUX plug, the noise is either being picked up from cables, or the quality of the source may be poor.

In rare setups a humming low pitched noise can appear due to problems with ground planes. If this occurs, an audio transformer can solve the problem.

AUX SOUND LEVEL

Use the two adjustments to align the level of the PowerLink and the AUX source.

This adjustment also sets the maximum volume for the AUX source.

TECHNICAL SPECIFICATIONS

Dimensions   25 x 45 x 74 mm

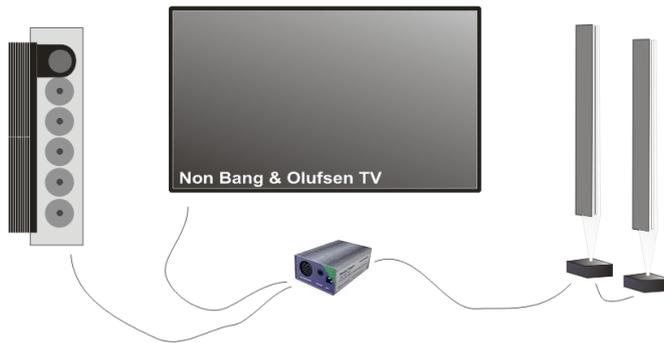**Included accessories**   Power Adaptor 12VDC @ 400mA Euro

CONNECTIONS

Sockets:

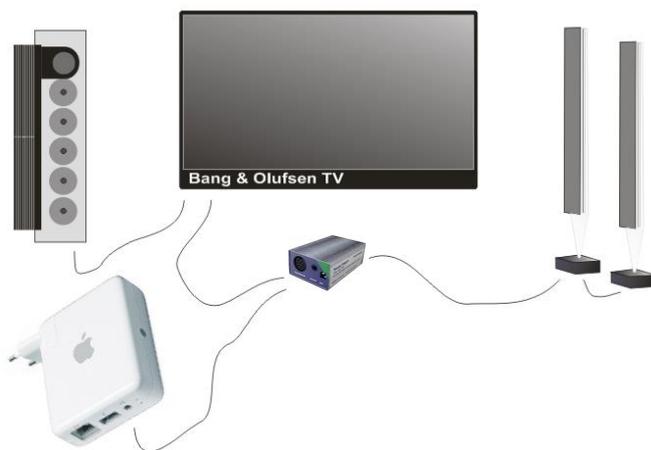|	
PowerLink IN	DIN 8-pin PowerLink
Powerlink OUT	DIN 8-pin PowerLink
AUX in	3.5 mm stereo jack
Power	12V DC 300mA

Non B&O TV, all **Beo4** controlled

When the B&O radio is powered up, sound from the radio is automatically routed to the speakers.

When only the TV is powered up,

TV sound is routed to the speakers.

If Beo4 is modified with a OneRemote RMB4 converter, it can operate both the TV and the radio.

B&O system with PowerLink Speaker Adaptor connecting:

AirPort Express, Bluetooth adapter, DAB+ tuner ….

Add music to any Bang & Olufsen system wirelessly using Apple Airplay, Bluetooth or cabled:

- **Wirelessly from any mobil phone with Bluetooth using a Bluetooth Music Receiver**

- **Wirelessly from an Apple iPhone, iPad, Mac computer etc using Airplay .**

- **Wirelessly or cabled from any PC.**

- **Cabled from an Internet radio or DAB+ receiver.**

If Beo4 is modified with a OneRemote RMB4 converter, it can operate a OneRemote DAB+ or WiFi receiver too.