SLx

4 Way Signal Booster

27820HSR
User Guide

2 Inputs

4G Filtering

ALP Auto Line Powering

Introduction

Congratulations on the purchase of your new SLx Booster. SLx is renowned for producing high quality electrical accessories and signal distribution products. SLx Amplifiers benefit from a number of features which assist with high quality distribution of your TV/ Radio Signal around your home such as:

- More efficient Switch-Mode Power Supply - these run cooler saving energy whilst also making them safer in your home

- Improved gain flatness delivering a better balance across the performance range

- Lower noise figure for optimimum picture and sound quality

- Greater signal handling capacity to cope with more channels

- 4G Filtering – provides a typical 45DB protection from 4G mobile phone signals reducing interference

- Coaxial connectors – simple to plug in to standard aerial connections

We are sure you will enjoy using your SLx amplifier, the amplifiers are easy to install and fully automatic in operation, meaning that no user adjustment is required and the low running cost permits continuous operation. If you have any queries please get in touch with our technical department at **www.slxtechnology.com/support**

Additional Features
Dual Inputs – With separate inputs for UHF TV and VHF (FM and or DAB) Radio and a built-in signal combiner your signal distribution system can easily be expanded to include high quality radio signals in every room.

If you have a long cable run from the aerial to the booster you can use a masthead pre-amp near the aerial which the Auto Line-Power will detect and supply 12V to power it.

All SLx aerial boosters comply with RED (The Radio Equipment Directive 2014/53/EU).

General Safety Precautions

To Prevent Overheating
The recommended clearances and other precautions given in these instructions must be observed to prevent overheating. In addition, units should not be positioned where they are likely to become covered by curtains, fabric or insulating material. The amp should not be left resting on a carpet.

Other precautions
These appliances are not waterproof, they are intended for indoor use only and must not be positioned where they could be exposed to dripping or splashing water. Objects containing liquids should not be placed on or near the booster.
To prevent fire, make sure the unit and attached cabling is installed well away from naked flames and other heat sources.

Mains Plug
Your booster is supplied with a standard mains plug already fitted, if you need to change the plug use a competent professional (ELECSA or NICEIC) to make the connection.
If you need to change the fuse use a 3 Amp fuse to BS1362 carrying the ASTA or BSI approved mark and refit the plastic fuse carrier.

Before Installing Please Note

Applications
SLx Boosters incorporate a Class 3 filter to reduce 4G interference and are suitable for digital TV signals Ch21-59 (470-782MHz) however if you wish to receive TV on Ch60 you should use an SLx Booster with IR Bypass. In this case you may need a Ch60 filter if you are affected by 4G interference (currently available from at800 free of charge).

Installation
Important note: attention is drawn to the General Safety Precautions Panel above which contains advice on safe installation and operation of these products.

Location
Choose a location for the booster from which it is convenient to run cables from the antennas and to the system outlets. Typical examples of suitable locations are a loft space or a cupboard. In weak signal areas it is best to keep the aerial cables as short as possible.

Select a cool, dry location to install the booster. This means a location where the ambient temperature will remain between -10°C and +40°C, and which is free from risk of dripping or splashing water.

The fixing location should allow adequate access to the equipment for wiring and maintenance. Clearance of at least 25mm should be allowed around the left hand side and top of the unit for ventilation. More clearance will be needed on the other sides to allow access for cables.

Fixing
The booster should be fixed to a wall or other suitable hard surface using the keyhole slots on the back of the housing and suitable screws and wall plugs, a template is provided on page 4.

The booster should not be left supported by its own wiring, nor should it be left resting on a carpet or other insulating and/or inflammable surfaces.

Signal Connections
Input and output signal connections are made using IEC coax connectors. Good quality plugs and digital quality double screened coaxial cable should be used to ensure optimum performance from your booster.

Line Powering
The SLx4 has built-in full line powering which can be used to provide power to masthead boosters. When connected to a masthead amplifier, the SLx4 will send the required power out of the UHF socket up to the masthead amplifier (up to 25mA). Please see your masthead amplifier operating instructions for more details.
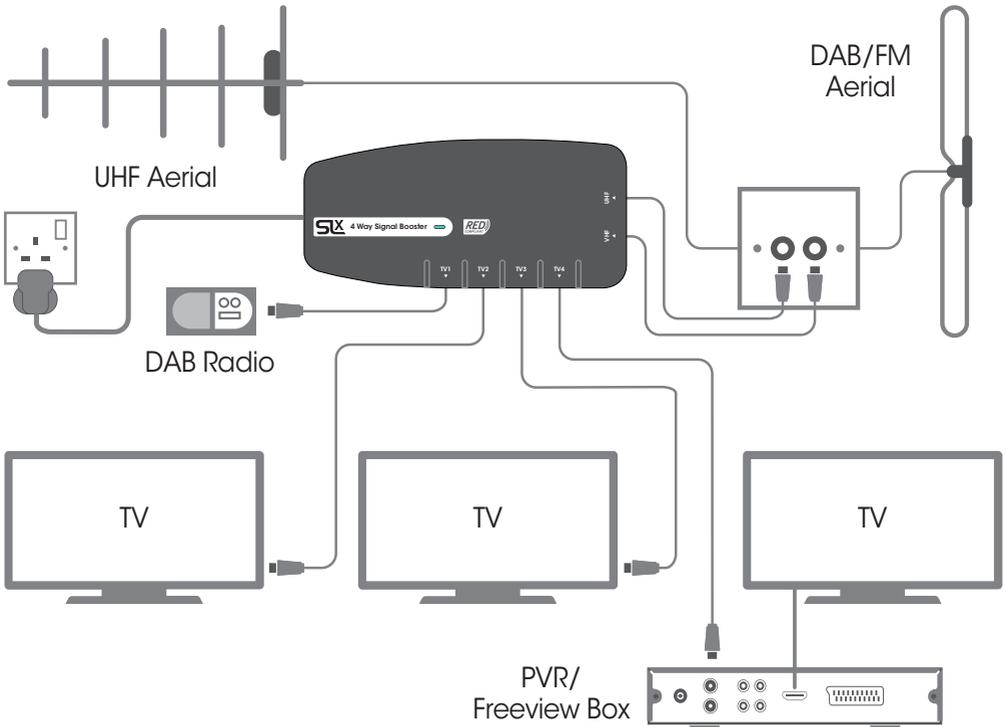
In order to provide a non-interrupted 12V power supply to the masthead amplifier. it is important to ensure that there is no equipment between the UHF socket and the masthead amplifier output socket.
If equipment is connected in between, the booster will not be able to detect the masthead amplifier and so will automatically not output 12V.

Installing your Booster

Aerial signal distribution:

1. Connect your UHF aerial downlead to the UHF socket and connect your FM/DAB aerial downlead (if applicable) to the FM socket on your booster.

2. Connect your TVs and DAB/FM tuners to any of your booster"s TV sockets in any combination.

If your TV does not have a built-in Freeview™ receiver you will need to connect your TV to the booster via a Freeview™ of PVR set top box.

UHF Aerial

DAB/FM Aerial

SLX 4 Way Signal Booster   RED

UHF

VHF

TV1 TV2 TV3 TV4

DAB Radio

TV

TV

TV

PVR/
Freeview Box

Specifications

Booster	In	Out	Frequency VHF Signal UHF Signal	Suitable for	Max Gain	Noise	Isolation Out/Out	Max Output	Typ. 4G Protection
27820HSR SLx 4	2	4	87-230MHz 470-782MHz	FM/DAB/ TV Ch 21-59 Freeview	11dB	<3dB	20dB	90dBμV	>45dB

Philex reserve the right to modify their designs or specifications, In the light of future developments, without prior notice. Performance figures quoted are typical and subject to normal manufacturing and service tolerances.

Troubleshooting

If you experience reception problems after installing your SLx booster, please see below:

No picture or sound
Is the signal reaching your TV? Check:

- Everything, including the booster is plugged in and switched on
- Coaxial connections are correctly made (no braid or foil is touching the inner core
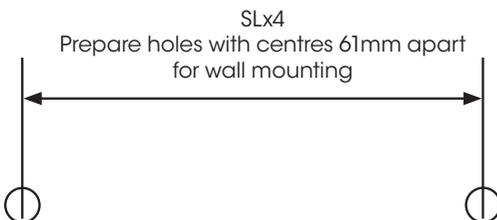
Picture or sound breaking up
- Use the best wideband aerial ideally fitted outdoors
- Use good quality coax cable, poorly screened cable can pick up noise
- In some cases too much signal can cause signal break-up which can be solved by fitting an attenuator to the input to the booster

For specific help with digital TV reception problems, visit **www.digitaluk.co.uk** or **www.bbc.co.uk/reception/television/ freeview/reception_problems**

Declaration of Conformity

Hereby, Philex declares that this booster/ amplifier for TV broadcast reception in domestic premises is in compliance with the Radio Equipment Directive 2014/53/EU. The full Declaration of Conformity is available by contacting the following internet address: www.slxtechnology.com/DoC

RED))
COMPLIANT

Standard: EN 303 354
Product Type: D Signal Distribution Amplifier
Filter Class: 3 Mitigates 4G interference

Suitable for digital TV signal distribution Ch21-59 in the UK and EIRE.

Freeview

Technical Support

If you experience problems setting up your aerial, please visit our technical website at **www.slxtechnology.com/support** you can send us a message or **live chat** during office hours.

Waste electrical and electronic products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority for recycling advice.

CE

Wall Mounting Drilling Template

SLx4
Prepare holes with centres 61mm apart for wall mounting

Waste electrical and electronic products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority for recycling advice.

CE