

# SLx1 Signal Booster instruction manual

## **INTRODUCTION**

The SLx range of aerial amplifiers from Philex is designed to improve picture and sound quality by amplifying weak UHF, VHF and FM radio (selected models only) signals.

Designed with style, sophistication and value in mind, the SLx range is the preferred choice for both the professional aerial installer and the home user wanting to get the very best performance from their AV equipment.

We have integrated the very latest in digital-ready signal amplification technology, the very best in UK-designed product styling and highest levels of safety to produce a class-leading product.

With full instructions and wall mounting template, installing the SLx1 signal booster is both quick and easy.

## **INSTALLING THE SLx1 SIGNAL BOOSTER**

### METHOD 1

TV Only

#### **CONNECTION DIAGRAM**

1. Connect your UHF aerial downlead (typically via an aerial wall socket) to the **ANT** input of the SLx1.
2. Connect an aerial fly-lead from the **TV** output of the SLx1 to the aerial input of the TV.

### METHOD 2

TV and VCR

#### **CONNECTION DIAGRAM**

1. Connect your UHF aerial downlead (typically via an aerial wall socket) to the **ANT** input of the SLx1.
2. Connect an aerial fly-lead from the **TV** output of the SLx1 to the aerial input of the VCR.
3. Connect an aerial fly-lead from the aerial output of the VCR to the aerial input of the TV.

### METHOD 3

TV, VCR and SATELLITE

#### **CONNECTION DIAGRAM**

1. Connect your UHF aerial downlead (typically via an aerial wall socket) to the **ANT** input of the SLx1.
2. Connect an aerial fly-lead from the **TV** output of the SLx1 to the aerial input of the satellite receiver.
3. Connect an aerial fly-lead from the aerial output of the Sky receiver to the aerial input of the VCR.
4. Connect an aerial fly-lead from the aerial output of the VCR to the aerial input of the TV.

Note. It may be necessary to retune your VCR when used with a satellite receiver. Please consult your VCR owners manual for details.

Note. This amplifier will not allow for any voltage to pass through for the purpose infrared link products. The amplifier must be used in conjunction with a digital bypass kit (Philex model 27829R – SLx Digital Bypass Kit) in order to use with these types of products.

### METHOD 4

TV, VCR and Digital Terrestrial Television (DTT) receiver

#### **CONNECTION DIAGRAM**

1. Connect your UHF aerial downlead (typically via an aerial wall socket) to the **ANT** input of the SLx1.
2. Connect an aerial fly-lead from the **TV** output of the SLx1 to the aerial input of the DTT receiver.
3. Connect an aerial fly-lead from the aerial output of the DTT receiver to the aerial input of the VCR.
4. Connect an aerial fly-lead from the aerial output of the VCR to the aerial input of the TV.

If you are receiving poor DTT reception then connect the SLx2 before your DTT receiver to boost the signal strength. In most cases, poor DTT reception can only be cured by acquiring a suitable aerial (see troubleshooting) or waiting until DTT coverage improves in your area.

### **ADJUSTING THE GAIN LEVEL**

The SLx1 has an adjustable gain control. You can adjust the gain level depending on your signal strength. Use a flat-headed screwdriver to adjust the gain.

1. Turn clockwise to increase the gain level (max 14dB)
2. Turn anticlockwise to decrease the gain level (min 0dB (*no signal amplification*))

### **ADDITIONAL FEATURES**

#### *Short circuit protection*

For added safety the SLx1 has **built-in short circuit protection**. Should a short circuit be detected, the amplifier will only shut down the amplifier in order to prevent any possible damage. Should this occur, the output will be switched off but the power LED will remain lit.

To reset the system following a short circuit, simply remove all outputs and inputs, switch off the amplifier and remove the power cable from its socket for approx 30 seconds. Check all cabling before your reconnect.

### **TROUBLESHOOTING**

**If you are still experiencing reception problems after installing the SLx1 Signal Booster, please refer to the below troubleshooting guide:**

#### **No picture or sound**

No signal is reaching your television due to a possible break in the aerial signal path. Ensure that all equipment has been switched on (including the SLx1) and that all coaxial connectors have been fitted correctly.

#### **Snowy picture**

Your signal strength is still too weak. Increase the gain of the SLx1 using the gain control. If your signal is still too weak then you may have to use a masthead aerial amplifier improve the signal quality from the UHF aerial downlead. Also ensure that your aerial is positioned correctly (pointing at your local TV transmitter). For details of your local television transmitters, visit [www.bbc.co.uk/reception](http://www.bbc.co.uk/reception). Aging aerials become corroded by the weather, which may need to be replaced. Also check that the position of the aerial has not been misaligned by weather, birds, or loft activity.

#### **'Herringbone' pattern**

'Herringboning' is generally caused by too strong signal or possibly by local high power transmitters such as CB, amateur or taxi radios. Your TV sound may be affected as well as the picture. Reduce the gain of the SLx amplifier using the gain control. If this does not help, your original signal may already be too strong. Use a signal attenuator (available from your local electrical retailer) to reduce the gain of your aerial signal and improve your picture. If you are

located very close to your local television transmitter, point your aerial at an alternative transmitter in order to receive a more suitable level signal.

### **Problems with DTT**

Unlike analogue terrestrial television, it is not possible to view DTT channel under weak signal strength conditions. Therefore, typically you will either receive DTT channels with a clear picture and sound or you will not receive any channels at all.

Sometimes, an insufficient digital signal can cause occasional blocking, freezing or complete loss of picture. Some roof aerials may not be suitable for digital terrestrial television. Ensure that you have fitted a suitable wideband, high gain aerial to help improve signal quality to a suitable level for clear DTT reception

Blocking, freezing or complete loss of picture can also occur when a digital signal is too strong, If your signal is too strong then connect your DTT receiver directly to the UHF aerial downlead, then connect the SLx1 to your DTT receiver output followed by your remaining equipment. If the signal is still too strong, fit a signal attenuator between the aerial downlead and DTT receiver to help reduce the signal strength.

For specific help with digital terrestrial television reception problems, visit [www.dtg.org.uk](http://www.dtg.org.uk)

### **Problems with satellite television**

If you are experiencing any problems with your satellite television picture, check that all cables and connectors have been fitted correctly. If the problem persists it is probably due to the dish alignment or a temporary problem with the channel transmissions. Please contact your local satellite dealer if the problem persists.

### **Technical Support**

If you are experiencing problems setting up your SLx1 Signal Booster, or have any questions regarding this product or any other product within the Philex range, please call the Philex Customer Care Line on 08457 573 479 (UK only). Calls are charged at local rate. Mobile call charges may vary, please contact your network provider for details.

Alternatively, please visit our technical website at <http://technical.philex.com>

### **TECHNICAL SPECIFICATIONS**

Inputs	1
Outputs	1
Frequency range	UHF 470 - 862MHz VHF 47 - 230MHz
Max output level	94dB $\mu$ V
Gain	0-14dB
Noise	4dB
Isolation loss	22dB
Weight	330g
Dims (w x d x h)	130 x 75 x 45mm