

# SLx4 Aerial Amplifier 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 and distributing the signal to multiple locations around the home. The SLx4 can also be used to distribute a VCR, Digital Television and Sky™/ Sky+™ signal around the home.

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 SLx4 aerial amplifier is both quick and easy.

## INSTALLING THE SLx4 AERIAL AMPLIFIER

### METHOD 1

#### TV SIGNAL DISTRIBUTION

##### CONNECTION DIAGRAM

1. Connect your UHF aerial downlead to the **IN UHF** socket and connect your FM aerial downlead (if applicable) to the **IN FM** socket on the SLx4.
2. Connect your TVs and FM tuners to any of the SLx4 **TV** sockets in any combination.

### METHOD 2

#### TV/VCR SIGNAL DISTRIBUTION

##### CONNECTION DIAGRAM

1. Connect your UHF aerial downlead (typically via an aerial wall socket) to the aerial input on your VCR and connect your FM aerial downlead (if applicable) to the **IN FM** socket on the SLx4.
2. Connect an aerial fly-lead from the aerial output on your VCR to the **IN UHF** input on the SLx4.
3. Connect your TVs and FM tuners to any of the SLx4 **TV** sockets in any combination.

Once connected, you can tune each television to traditional terrestrial channels and a channel for VCR viewing.

If you want to connect independent VCRs in each location, connect using METHOD 1 but connect the SLx4 **TV** output/s to your VCR/s, then connect your VCR/s to your television/s.

### METHOD 3

#### TV/VCR/SATELLITE DISTRIBUTION

##### CONNECTION DIAGRAM

1. Connect your UHF aerial downlead to the aerial input on your VCR and connect your FM aerial downlead (if applicable) to the **IN FM** socket on the SLx4.
2. Connect an aerial fly-lead from the aerial output on the VCR to the aerial input on the satellite receiver.
3. Connect an aerial fly-lead from the RF2 output on the satellite receiver to the **ANT** input on the amplifier.
4. Connect your TVs and FM tuners to any of the SLx4 **TV** sockets in any combination.

Once connected, you can tune each television to traditional terrestrial channels, a channel for VCR viewing and a channel for satellite viewing.

Note. Only one satellite channel can be viewed at any one time without the use of additional satellite receivers and subscriptions.

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/DTT (DIGITAL TERRESTRIAL TELEVISION) DISTRIBUTION.

#### **CONNECTION DIAGRAM**

1. Connect your UHF aerial downlead to the aerial input on the DTT receiver and connect your FM aerial downlead (if applicable) to the **IN FM** socket on the SLx4.
2. Connect an aerial fly-lead from the aerial output on your DTT receiver to the aerial input on your VCR.
3. Connect an aerial fly-lead from the aerial output on your VCR to the **IN UHF** input on the SLx4.
4. Connect your TVs and FM tuners to any of the SLx4 **TV** sockets in any combination.

Once connected, you can tune each television to traditional terrestrial channels, a channel for VCR viewing and a channel for DTT viewing.

Note. Only one DTT channel can be viewed at any one time without the use of additional DTT receivers.

If you are receiving poor DTT reception you can connect the SLx4 before your DTT receiver to help 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.

#### **ADDITIONAL FEATURES**

##### *Line Powering*

The SLx4 has built-in full line powering which can be used to provide power to masthead amplifiers. When connected to a masthead amplifier, the SLx4 will send the required power out of the **IN UHF** socket up to the masthead amplifier. Please see your masthead amplifier operating instructions for more details.

It is important to ensure that there is no equipment between the **IN UHF** socket and the masthead amplifier output socket in order to provide a non-interrupted 12V power supply to the masthead amplifier. When connected after any equipment, the amplifier will automatically detect that no masthead amplifier is present and so will not output 12V.

##### *Short circuit protection*

For added safety the SLx4 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, all outputs 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. You should then reconnect the amplifier outputs one by one until you can find which output is causing the short circuit.

#### **TROUBLESHOOTING**

**If you are still experiencing reception problems after installing the SLx4, 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 SLx4) and that all coaxial connectors have been fitted correctly.

**Snowy picture**

Your signal strength is still too weak. 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. 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 SLx4 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 SLx4 aerial amplifier, 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	2
Outputs	4
Frequency range	UHF 470 - 862MHz VHF 47 - 230MHz
Max output level	90dB $\mu$ V
Gain	12dB per split
Noise	3.5dB
Isolation loss	23dB
Weight	518g
Dims (w x d x h)	178 x 85 x 46mm