



# 4 Room Signal Distribution Kit

27874RG

USER GUIDE

## Introduction

Congratulations on the purchase of your aerial signal distribution kit. The kit is designed to receive and distribute digital terrestrial signals around your home to up to 4 TVs without loss of signal strength. The 4 way signal booster is 4G ready - which means it removes interference and channel loss from your TV caused by 4G mobile phone signals. Please Note: To receive output from the satellite RF2 output you will need a TV with an analogue tuner.

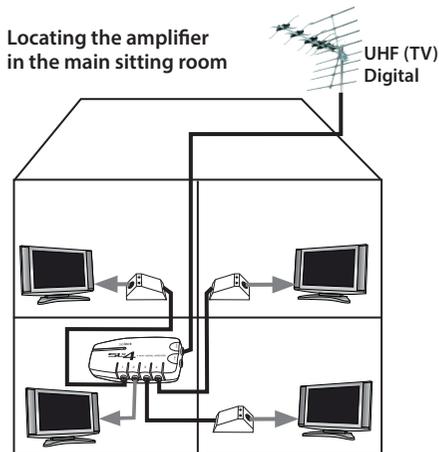
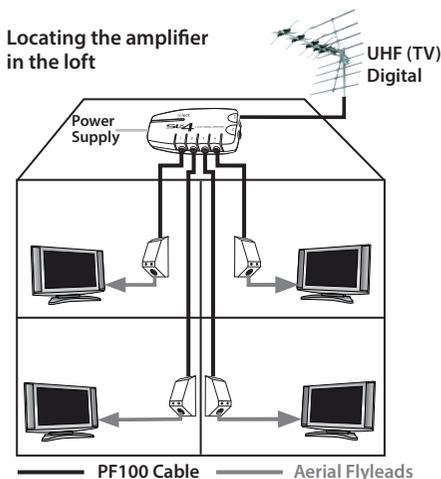
## Distributing the aerial signal around your home

### Planning your distribution system - Choosing a location for the amplifier

The 4-way amplifier may be fitted in any convenient position the most popular being either the loft or the sitting room near the main TV. In choosing a location, consider the following:

- The amplifier needs to be plugged into the mains, so it must be near a socket.
- You will need to run cables from the amplifier to each outlet point.
- You must be able to get the cable from the aerial to the input of the amplifier (via the VCR or DVD recorder if you wish to distribute VCR/DVD signals).

**Fixing** - The amplifier is best fixed to a wall or other suitable hard surface, using suitable screws and masonry plugs (not supplied). The amplifier 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 and must be placed where it will not be smothered by curtains or other fabrics, etc, or thermal insulation materials in a loft. A ventilation gap of at least 25mm should be left around the front and sides of the unit.

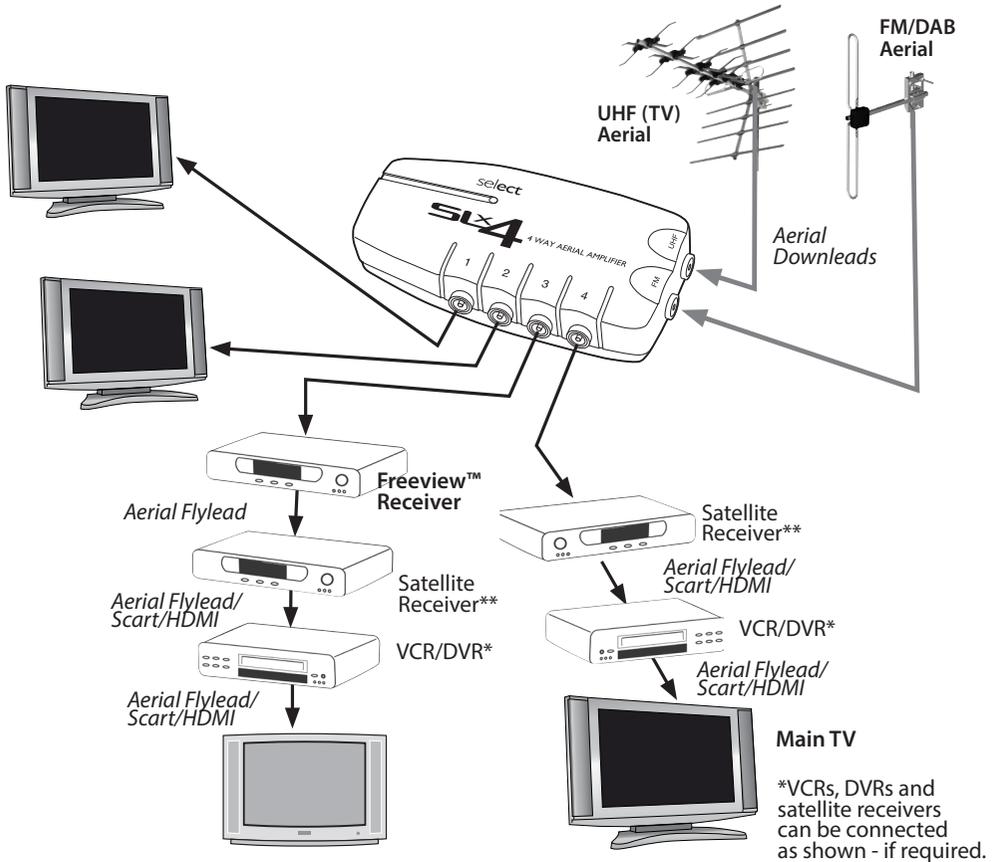


### Freeview™ Reception

Please note that the aerial will receive digital TV signals and the amplifier supplied will distribute them but each TV will require a suitable set top box to view Freeview™ channels (unless the TV has a built-in Freeview™ digital tuner).

# Amplifier Connections

## TV Distribution plus optional VCR or DVR connection



1. Connect your UHF aerial download to the input on your SLx amplifier.
2. If connecting to a digital TV with built in Freeview™ receiver connect one end of a TV aerial flylead to any of the TV signal outputs 1, 2, 3, 4 on your SLx amplifier and the other end to the **ANTENNA IN (ANT IN, UHF IN)** coax socket on your TV. This applies when the TV is in the same room as the amplifier.
3. For TVs situated in remote rooms connect the cable running to the remote coax outlet to any of the outputs 1, 2, 3, 4 on your SLx amplifier. Connect one end of a TV aerial flylead to the surface socket and the other end to the **ANTENNA IN (ANT IN, UHF IN)** coax socket on your TV.
4. For older TVs a separate Freeview™ set top or plug in receiver will be required. This should be connected to the surface outlet by a TV aerial flylead to the **ANTENNA IN (ANT IN, UHF IN)** coax socket on your Freeview™ receiver. The Freeview™ receiver will then usually be connected to a TV via a Scart lead.
5. If a video recorder or DVD recorder is to be included in the system this should be connected between the amplifier/aerial outlet and the digital TV or for older TVs between the Freeview™ receiver and the TV.

\*\*Please note that although satellite signals can be distributed using this kit, it will not be possible to control your Sky™ box from the remote locations as the SLx amplifier doesn't have a digital bypass.

Sky™ boxes can be connected locally to any of the TVs providing they have an individual feed from a satellite dish. Sky™ box should be connected between Freeview™ receiver (if present) and TV or between Freeview™ receiver and VCR/DVR (if present) - see above.

\*VCRs, DVRs and satellite receivers can be connected as shown - if required.

# Wiring Coax Plugs and Coax Outlets

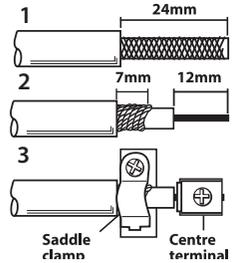
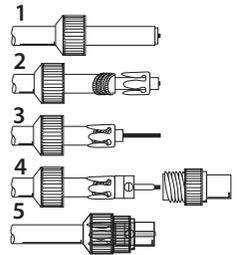
## Wiring Coax Plugs and Coax Outlets

You will need to fit coax plugs to the aerial lead and to each of the leads running to TV outlets so that they can be connected to the aerial amplifier.

1. Unscrew coax plug housing and slide cap over cable.
2. Strip 23mm of cable outer sheath. Gather copper braid, wrap around outer sheath, slide claw over braid and crimp.
3. Strip 18mm of inner insulation to leave 5mm exposed.
4. Undo screw on plug/clamp, slide clamp over inner wire & tighten screw.
5. Reassemble plug and trim inner wire flush with plug.

Next run the cables from the amplifier to the surface outlet positions, if drilling through walls be careful to avoid pipes and other cables. Use the cable clips supplied to secure cables. Wire the surface outlets as shown below and use the screws supplied to fix to a suitable surface such as a skirting board.

1. Strip 24mm of the outer sheath, pull back braid and tear off or cut off foil.
2. Twist braid together and wrap around inner insulation as shown, strip 12mm from inner insulation to expose central conductor.
3. Loosen terminal and saddle clamp screws and insert cable as shown in Fig. 3. Tighten all screws and trim away any loose strands of braid.



## Troubleshooting

Digital terrestrial signals blocking/freezing and/or loss of digital picture and sound can be caused by insufficient digital signal and carrier to noise ratio.

Similarly blocking and even a completely blank screen with no sound can result if the input signal to the set top box is too high. The digital cliff refers to the rapid change from the picture and sound being perfect, to disappearing altogether.

For specific help with DTT reception problems, log onto [\\*www.digitaluk.co.uk/](http://www.digitaluk.co.uk/)

**No picture:** Check all connections from aerial to TV.

**Poor picture:** Check all connections from aerial to TV.

Check aerial is properly aligned to the correct transmitter.

If the aerial has been loft mounted try mounting outside.

Make sure new digital coax cable has been used throughout the installation.

Check the transmitter signal is not obstructed by nearby trees or buildings.

If in a very weak signal area or for long cable runs, installing a masthead amplifier will improve the signal.

If in a strong signal area the signal strength may need to be reduced by fitting an attenuator.

**Intermittent Picture:** Make sure all RF cable to connector joints are tight (both inner and outer) including all flyleads and surface outlet connections.

# General Safety Precautions

## To Prevent Overheating

The recommended clearances and other precautions given in the installation section of these instructions must be observed to prevent overheating.

In addition, the amplifier should not be fixed where it is likely to become smothered by curtains or other fabrics, etc, or other thermal insulation materials in a roof space or similar building void. The unit should not be left resting on a carpet.

## Cable Installation

**Do not install cable** - Closer than 50mm to mains or telephone wiring.

Under carpets in areas likely to be walked on regularly.

With sharp bends at corners.

## Other Precautions

Apart from the aerial and cable all other parts of the kit are not waterproof and are for indoor use only.

They must not be fixed where they could be exposed to dripping or splashing water. Objects containing liquids should not be placed on or near the appliance.

To prevent risk of fire, no object with a naked flame should be placed on or near the appliances or the wiring to them.

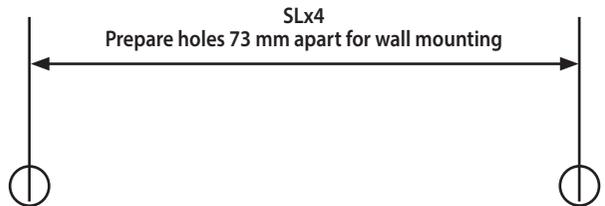
## Fitted Mains Plug

The amplifier is supplied with a standard fixed plug already fitted. In the unlikely event that you need to change the fuse in this plug, 3Amp fuse to BS1362 carrying the ASTA or BSI approved mark must be used.

# Wall mounting your amplifier

Your SLx aerial signal amplifier has two keyhole slots on the reverse allowing you the option of wall mounting your booster.

You will need suitable screws (2.5mm diameter) and wallplugs (not supplied).



**Technical Website:** [www.philex.com/support](http://www.philex.com/support)

**E-mail Support:** [technical@philex.com](mailto:technical@philex.com)



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