SLX

14 Element Wideband Digital Aerial

27880D4   ## USER GUIDE

4G Ready

Congratulations on the purchase of your high gain wideband aerial which is designed to receive locally available digital TV signals.
This aerial is also 4G ready - the design restricts bandwidth to prevent interference & channel loss on your TV caused by signals from 4G transmitters.
This aerial has been manufactured to the standard required to get the best reception of digital terrestrial TV services (such as Freeview™).
To check coverage or find out where your nearest transmitter is visit: **http://www.digitaluk.co.uk/coveragechecker/** and enter your postcode and house number. Check the detailed view box to find out the distance to your nearest transmitter and it's compass bearing.For optimum results install the aerial using double screened digital coax cable and screened coax outlets.

Main Features

- Wideband - suitable for all UK TV reception areas, covering frequency range 460-790MHz
- Suited for *strong* signal strength areas only

The aerial requires some assembly -
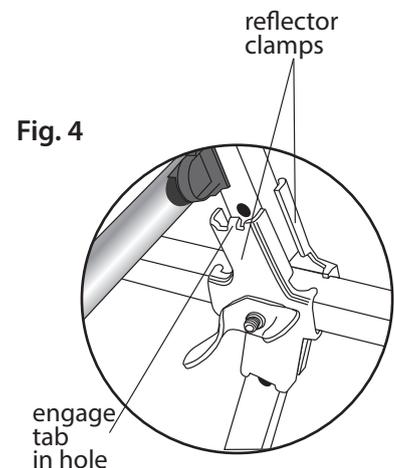**please read these instructions carefully before beginning.**
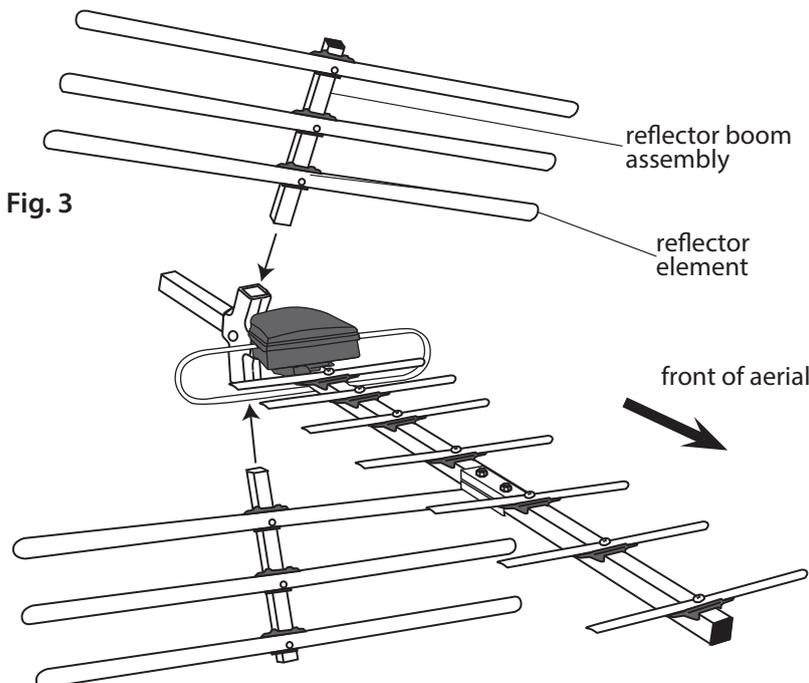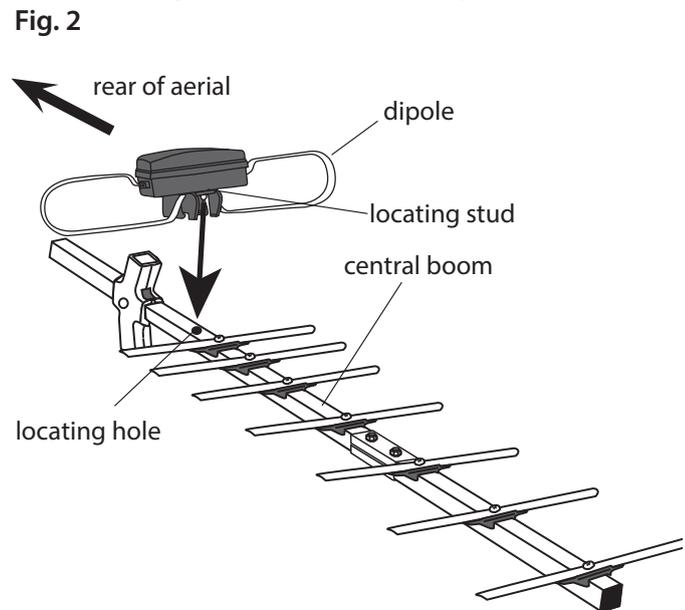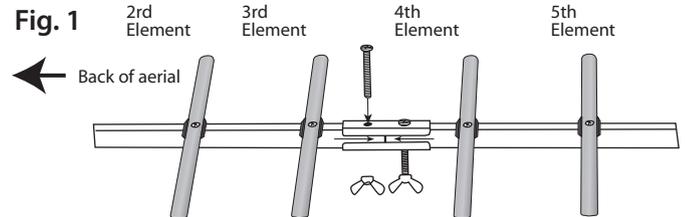
A. Boom assembly

1. The central boom comes in two sections using the bracket and screws supplied and the holes drilled in the boom sections join these two sections as shown in Fig. 1.

B. Fitting the dipole assembly

The dipole clips onto the central boom. Ensure that the cable exit hole (from the terminal box) faces the rear of the aerial and that the locating stud fits into the locating hole on the boom as shown in Fig. 2.

C. Fitting the reflectors

1. Using the reflector clamps, screw and large wing nut, fix the reflector assemblies to the main aerial boom as shown in Fig. 3 & Fig.4.
2. Check that the reflector clamp tabs locate in the holes of the reflector boom sections and that the wing nut is tight as shown in Fig. 4.
3. Ensure that the reflector elements are facing towards the front of the aerial (convex surface forward).

Fig. 1

2rd Element   3rd Element   4th Element   5th Element

Back of aerial

Fig. 2

rear of aerial

dipole

locating stud

central boom

locating hole

Fig. 3

reflector boom assembly

reflector element

front of aerial

Fig. 4

reflector clamps

engage tab in hole

Please Note: Coaxial cable, mountings and masts are not supplied with this aerial. You will need to select these from the range available according to the specific requirements of your installation. The quality of the coaxial cable used is as important as the quality of the aerial and you should make sure that if it is not specifically marked as suitable for digital TV it is of the same quality as that used for digital satellite installations.

C. Connecting coaxial cable

1. Before preparing and stripping the cable ready for connection, feed the coaxial cable through the hole in the terminal cover.
2. Prepare cable as shown in Fig. 5..
3. Feed prepared cable through the braid clamp and thread the centre wire through the hole in the central terminal as shown in Fig. 6.
4. Clamp the cable braid securely first, then tighten the screw on the central terminal. Trim any stray braid that might come into contact with the centre wire or central terminal.
5. Replace terminal cover carefully and securely making sure that the cable is not trapped or kinked.
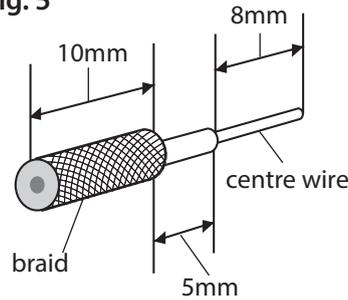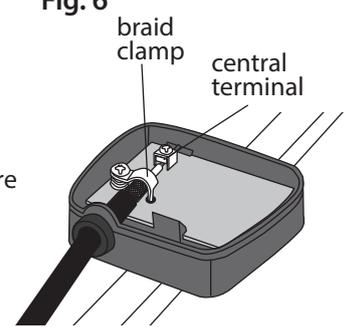
Fig. 5

8mm
10mm
centre wire
braid
5mm

Fig. 6

braid clamp
central terminal

D. Cable routing & fixing aerial to a mast

For optimum performance it is very important that the coaxial cable should be routed as shown in Fig. 7.
DO NOT ALLOW THE CABLE TO TOUCH THE AERIAL BOOM AT ANY POINT.
PVC insulation tape can be used as shown to hold the cable in place.

For best results the aerial should be mounted on an outdoor aerial mast and pointed in the direction of the nearest transmitter* making sure it is in a position where the transmitter signal will not be obstructed by nearby trees and buildings. If you are in any doubt about the direction in which the aerial should be pointing or the orientation of the aerial (horizontal for main transmitter, vertical for relay transmitter) check your neighbours' aerials.
If mounting on an existing mast check that the mast is in good condition and firmly fixed.

1. Using the clamp supplied fix the aerial to the mast - see Fig. 7 & 8.
2. After the aerial direction has been fine tuned for best reception tighten nuts firmly until the aerial is securely fixed to the mast.

Can also be loft mounted.

CAUTION: When mounting the assembled aerial, always observe safety precautions and use the correct equipment. Unless you are competent in the use of ladders and other access equipment, do not work outdoors at roof height. If in any doubt, refer to a qualified aerial installer.
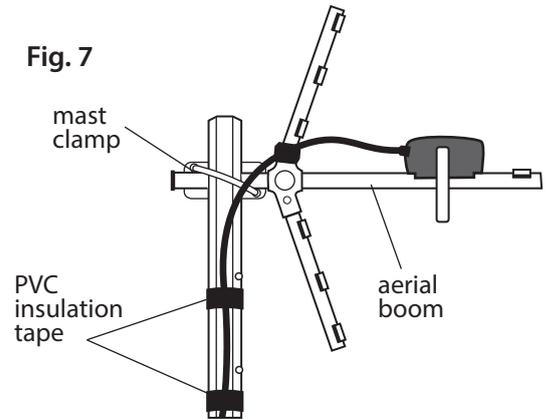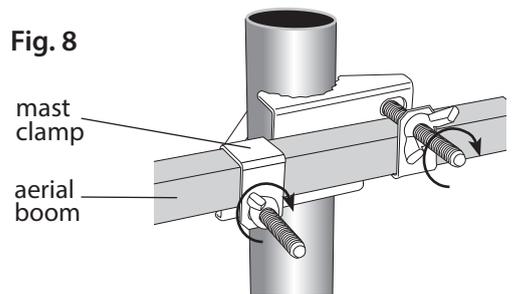
Fig. 7

mast clamp
PVC insulation tape
aerial boom

Fig. 8

mast clamp
aerial boom

PLEASE NOTE: A coax plug is not included with this aerial. If you need to fit one please follow the wiring instructions shown below.

Box contents

1x **Central boom: assembly square aluminium (L) approx 865mm assembled with 7x curved aluminium elements**
2x **Reflector booms: Square aluminium (L) approx 160mm with 3x reflector elements each: curved aluminium (L) approx 425mm**
1x **Bow tie shaped dipole and printed circuit balun**
1x **Aerial clamp**

Coax plug wiring instructions

1 Unscrew coaxial 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. Reassemble plug
5 Trim inner wire flush with plug.

Troubleshooting

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.

Customer Careline: 08457 573 479
Local rate UK only

Technical Website: www.philex.com/support

E-mail Support: technical@philex.com

Useful Websites for Digital Advice:
To check coverage or find out where your nearest transmitter is visit: **http://www.digitaluk.co.uk/coveragechecker/** and enter your postcode and house number. Check the detailed view box to find out the distance to your nearest transmitter and it's compass bearing.