

Labgear LDL102R Line Powered Compact Distribution Amplifiers



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Labgear

Labgear LDL102R Line Powered Compact Distribution Amplifiers



Installation Instructions Introduction

These fully screened 2 and 4 way compact aerial amplifiers are compatible with Labgear and other Digilink remote control systems.

This makes them ideal for use in Sky™ digital satellite home installations, where the output from a digibox can be distributed to several rooms with the capability for full remote control of the Sky™ box from these rooms. The amplifiers are also designed to be line powered by the RF2 output.

Please Note: To view output from the satellite RF2 output you will need TVs with analogue tuners.

The addition of a number of MRX930 TRD or MRX955 (compact) Digilink remote'eyes' in the relevant rooms completes the installation.

Alternatively the products may be used as traditional aerial amplifiers without making use of the infrared capability, providing they are connected to a 9VDC power supply.

All amplifier outputs are line powering at 9V DC to supply remote infra-red receivers.

Applications

Applications include the following:

- Simple multipoint distribution of radio and TV signals, without remote control.

This will allow quick and easy addition of an IR control at a later date;

- Use in conjunction with a Sky Digibox or other unit with an IR-return enabled RF output.

An MRX390 TRD Digilink room kit will be required for each room from which remote control is needed (because the Digibox can decode the IR return signals directly, this application does not require any base unit or IR re-emitters).

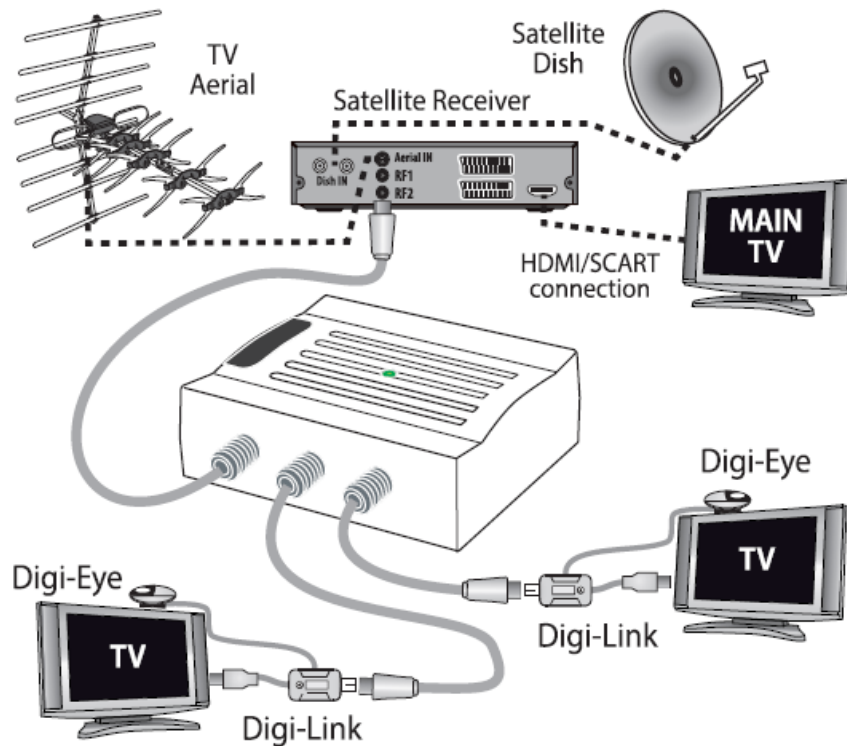
Example application diagram is shown on page 2.

Please Note: when using these amplifiers with a Sky Digibox, the amplifier must be fed from RF OUT-2 socket of the Digibox. However if the RF Channel is set to 59 or above (68 is usually the default channel) you will need to reset it to a channel from 21-58 in the Digibox Setup Menu (see bottom of page 3).

Later Digibox models such as the Sky+HD 2TB are not fitted with an RF OUT2 output and you will need an 1/0 converter such as the MRX600K to distribute signals from the Digibox to other TVs.

Also to view satellite RF2 output TVs require an analogue tuner.

Distributing signals from a satellite RF2 output



Installation

Important note: attention is drawn to the General Safety Precautions Panel on page 4 which contains advice on safe installation and operation of these products.

Location

Choose a location for the amplifier 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 antenna cables as short as possible.

Select a cool, dry location to install the amplifier. This means a location where the ambient temperature will remain between -10°C and $+40^{\circ}\text{C}$, 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 top and left hand side of the unit for ventilation. More clearance will be needed underneath and to the right of the amplifier to allow access for cables.

Fixing

The amplifier should be 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 flammable surfaces.

Signal Connections

Input and output signal connections are made using 'IEC' (IEC 60169-2) connectors.

Good quality plugs should be used, preferably of the crimp on type. Attention is drawn to the need to maintain DC continuity throughout the system for correct operation of infra-red remote control functions. Plug inner contacts should always be soldered, unless of the crimp type or provided with a screw terminal. The use of improvised crimping methods on solder type plugs is not recommended.

RF2 Setup

Please Note: when using these amplifiers with a Sky Digibox, the amplifier must be fed from the RF OUT-2 socket of the Digibox. However if the RF Channel is set to 59 or above (68 is usually the default channel) you will need to reset it to a channel from 21-58 in the Digibox Setup Menu – see below.

Later Digibox models such as the Sky+HD 2TB are not fitted with an RF OUT2 output and you will need an I/O converter such as the MRX600K to distribute signals from the Digibox to other TVs.

Also please note to view satellite RF2 output TVs require an analogue tuner.

1. Connect the compact aerial amplifier's input to the RF2 output of the SkyTM digibox using digital quality coax cable (PF100/PH100 etc) or a double screened flylead.
2. Switch on your SkyTM/Sky+TM/ Sky+ HDTM receiver and view on your main television.
3. Press the SERVICES button on your SkyTM* remote.
4. Select SYSTEM SETUP option (for SKY+ HD there is no SYSTEM SETUP option press 0 instead).
5. Press the following buttons in sequence: 0, 1, SELECT (for SKY+ HD this is a hidden option and does not appear on screen). You should now see the SETUP menu.
6. Go to RF OUT and select the RF CHANNEL NUMBER option and key in a new channel number from 21-58.
Make a note of the channel number you choose as you may need it when tuning your other TVs.
7. Select RF OUTLET POWER SUPPLY. Set to ON (Using the left and right arrow keys). Press SAVE SETTINGS (GREEN button).
8. Connect the amplifier outputs to your TVs.
9. If your system setup does not allow connection to the RF2 outlet on a satellite receiver you will require a 9VDC power adaptor with 3.5mm Jack connection (+ voltage at centre pin).

SPECIFICATION

	LDL102R	LDL104R
No of Inputs	1	1
No of Outputs	2	4
Frequency UHF	470 - 862MHz	470 - 862MHz
Gain per Port	8dB	8dB
Reverse Path Gain	6dB	6dB
Reverse Path Freq.	5-25MHz	5-25MHz
Max Out put level (IMA3-60dB). EN50083-5	94dBuv	89dBuv
Noise Figure	3.5dB	3.5dB
Isolation between outlets	20dB	20dB
All Ports IR Enabled	9 VDC @15mA per outlet	9 VDC @15mA per outlet
Power Supply (not supplied)	9 VDC 50mA (RF2 line power)	9 VDC 50mA (RF2 line power)
Dimensions	77(W) × 92(L) × 27(H)mm	77(W) × 104.5(L) × 27(H)mm

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/fabrics or thermal insulation materials in a roof space or similar building void. The unit should not be left resting on a carpet.

Other Precautions

These appliances are not waterproof. They are 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 appliance. To prevent risk of fire, keep the unit and attached wiring well away from naked flames.

Power supply

Power should be supplied via the RF2 output of your satellite receiver or by a separate 9VDC power supply maximum output 100mA (not supplied).

2-Year Guarantee

Your amplifier is guaranteed against faulty components or poor workmanship for a period of two years from the date of purchase.

This guarantee does not cover accidental or malicious damage (Including damage from natural causes such as lightening) and will be invalidated by installation or use other than in accordance with these instructions, repair or attempted repair other than by the manufacturer, or open or removal of the case. This does affect your statutory rights.

Labgear 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 For further information or any queries please contact

Customer Careline: 08457 573 479

(Local rate – UK only)

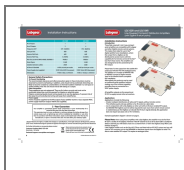
Technical Support: www.philex.com/support

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.

Documents / Resources



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LDL102R Line Powered Compact Distribution Amplifiers, LDL102R, Line Powered Compact Distribution Amplifiers, Powered Compact Distribution Amplifiers, Compact Distribution Amplifiers, Distribution Amplifiers, Amplifiers

References

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