



## Labgear LDL206LP 6 Way Remote Powered Amplifier Instruction Manual

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Labgear LDL206LP 6 Way Remote Powered  
Amplifier Instruction Manual

**Labgear**

LDL206LP - 6 Way Remote Powered Amplifier  
LDL208LP - 8 Way Remote Powered Amplifier  
(with DigiLink IR return paths)



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## Introduction

These fully screened 6 and 8 way TV and FM/DAB amplifiers are line powered by the separate PSUF power unit supplied. This allows the amplifiers to be positioned anywhere in the building as long as they are connected with good quality coax cable to the

power unit. This makes them ideal for installation in lofts where no 13 Amp power supply is available.

The amplifiers have IR return paths on all outlets making them fully compatible with Labgear Digilink and other similar remote control systems.

This makes them perfect for use in 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 digibox™ in these rooms. The addition of a number of MRX955 Digilink remote 'eyes' in the relevant rooms completes the installation. Alternatively the products may be used as traditional distribution amplifiers without making use of the infra red capability.

Separate inputs are provided for UHF TV (470-790 MHz) and for FM/DAB (47-300 MHz).

Remote capability is provided over a 5-15 MHz RF return path.

All amplifier outputs are line powered at 9V DC to supply remote infra-red receivers. The line power at any output(s) can be short-circuited safely, without affecting the operation of any other output(s).

Both units are also suitable for direct amplification of digital terrestrial TV (Freeview™) signals and the UHF input can be connected directly to a UHF antenna instead of a satellite receiver.

When connected directly to a UHF aerial the integrated filter will remove any signals from Lte 800 4G mobile phone transmitters picked up by the attached aerial.

Please Note: These amplifiers are NOT COMPATIBLE with the Labgear Handylink Remote control extender system (MRX120). These amplifiers do not provide line-power for masthead preamplifiers.

## 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.

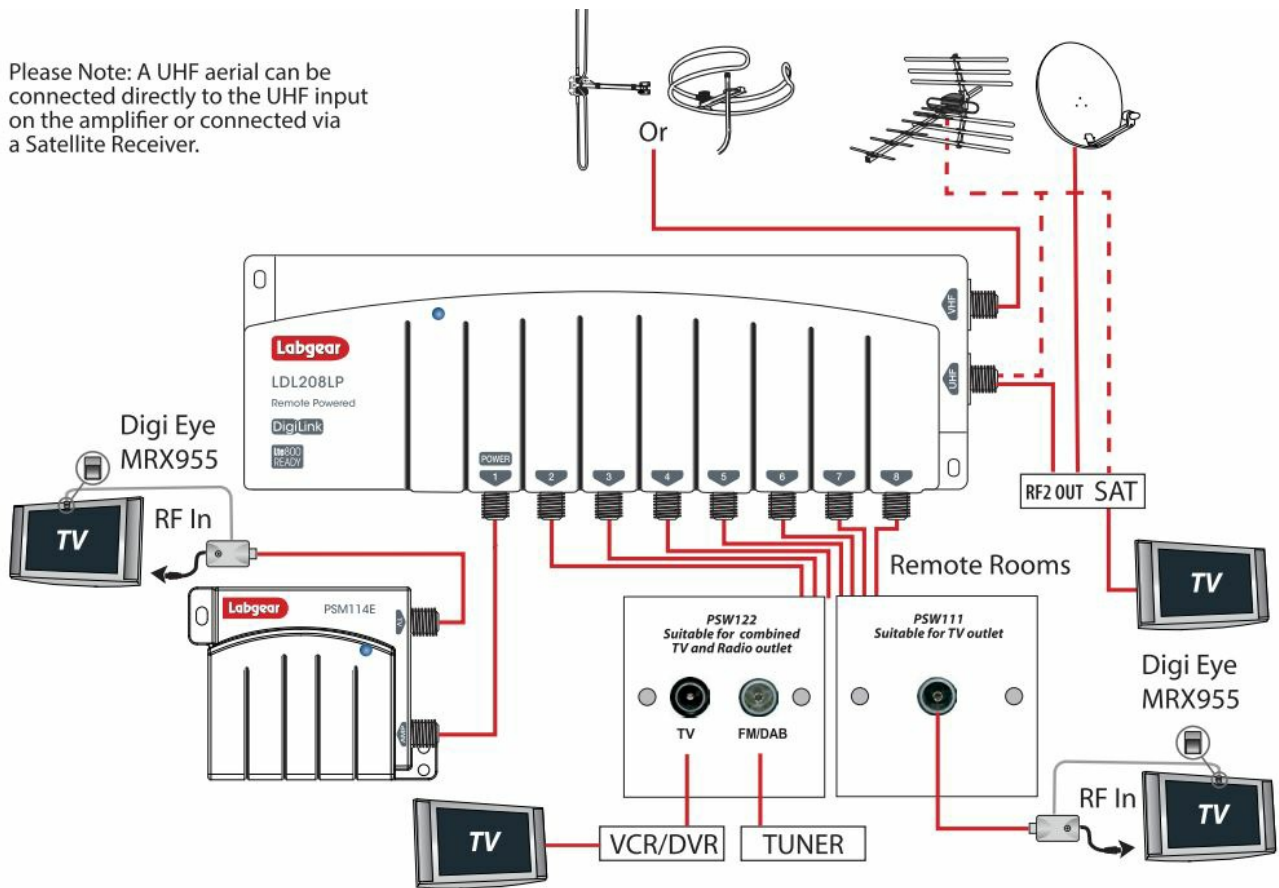
An MRX955 Digilink room kit will be required for each room from which remote control is needed (because the Digibox can decode the IR return signals directly, this application does not require any base unit or IR re-emitters).

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.

Please Note: A UHF aerial can be connected directly to the UHF input on the amplifier or connected via a Satellite Receiver.



Amplifier	LDL206LP	LDL208LP
No of Inputs	2	
No of Outputs	6	8
Return Path Frequency Range	5-15MHz	5-15MHz
Return Path Gain	-4dB	
Frequency Range	UHF: 470-790MHz FM/DAB: 47-300MHz	
UHF/FM/DAB Gain per port	8dB	
Max Out put level (IMA3-60dB). EN50083-5	98dB $\mu$ v	96dB $\mu$ v
Noise Figure	3.5dB	
All Ports IR Enabled	9V 15mA short circuit protected	
Isolation between outlets	20dB	
Dimensions	265 x 95 x 35mm	
Power Supply	PSUF	
DC Output	12VDC at 200mA max.	
Output Voltage Tolerance	$\pm 5\%$	
Power Requirement	220-240V~50Hz at <3W	
Signal Insertion Loss	0.5dB	
Dimensions	88 x 67 x 45mm	

## 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°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 amplifier and also around the three sides of the power supply that don't have connections to allow adequate ventilation. More clearance will be needed on the sides with connections 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.

### Electricity Supply

Fixed wiring and connection of the electrical supply to these products should be carried out in accordance with BS7671 (IEE Wiring Regulations).

Each amplifier is supplied with a separate PSUF fitted with a 13A mains plug. If this is not suitable, see General Safety Precautions Panel on page 4. As an alternative to the use of plug and socket connection, the power supply

may be connected to the mains using a switched fused connection unit BS 1363-4. A 3 Amp fuse to BS1362 should be fitted in the fused connection unit. If the power unit is connected to the supply other than by means of its fitted fused plug or a fused connection unit, It must be protected by a non-time delayed fuse or a type B MCB at the distribution board of rating not exceeding 6A. An isolating switch should be provided near to the unit to allow it to be disconnected from the supply when necessary.

### Signal Connections

Input and output signal connections are made using F type (IEC 60169-24) connectors. Good quality plugs should be used, preferably of the crimp on type. If twist on connectors are used make sure they are the right size to fit the cable you are using. For outside connections use waterproof connectors.

Attention is drawn to the need to maintain DC continuity throughout the system for correct operation of infra-red remote control functions. A typical installation is shown in the diagram opposite.

### RF2Setup

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 aerial amplifier's UHF input to the RF2 output of the Sky™ digibox using digital quality coax cable (PF100 etc) or a double screened flylead.
2. Switch on your Sky™/Sky+™/ Sky+ HD'M receiver and view on your main television.
3. Press the SERVICES button on your Sky'M remote.
4. Select SYSTEM SETUP option {for SKY+ HD there is no SYSTEM SETUP option press O 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)

### 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.

#### Fitted Mains Plug

These power supplies are fitted with a standard fixed plug. If this is not suitable, refer to the instructions below. If you need to change the fuse in this plug, a 3 Amp fuse to BS1362 carrying the ASTA or BSI approved mark must be used.

Always re-fit the plastic fuse carrier when replacing the fuse.

### Changing the Plug

If the fitted mains plug is not suitable for the socket outlet in use, it should be cut off and an appropriate new plug fitted. Any instruction supplied with the plug should be followed. The Brown wire must be connected to the live (L) terminal of the plug and the Blue wire to the neutral (N) terminal. Neither wire should be connected to the earth (E) terminal of a 3-pin plug (this appliance does not require an earth connection). Ensure that the cord grip in the plug is correctly used and clamps the sheath of the cord firmly.

Fuse Rating: If the new plug is a fused type, the fuse fitted should be rated at no more than 3 Amp.

Caution: The old plug should be disposed of promptly since it would be dangerous if plugged into a live socket.

### 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 lightning) 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](http://www.philex.com/support)



Waste electrical products should not be disposed of with household waste.

Please recycle where facilities exist.

Check with your Local Authority for recycling advice.



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## Documents / Resources



[Labgear LDL206LP 6 Way Remote Powered Amplifier](#) [pdf] Instruction Manual  
LDL206LP 6 Way Remote Powered Amplifier, LDL206LP, 6 Way Remote Powered Amplifier, Remote Powered Amplifier, Powered Amplifier, Amplifier

## References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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