Labgear MSA121G VHF/UHF Single & Dual Output Amplifiers User Guide

VHF/UHF Single & Dual Output Amplifiers with LTE800 4G filters
USER GUIDE

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MSA121G VHF/UHF Single & Dual Output Amplifiers

MSA111G MSA121G

Introduction

These fully screened general purpose 1- and 2-way amplifiers are ideal for boosting TV and radio signals in the VHF and UHF frequency bands.
They each have a built in Lte800 4G filter which rejects signals from 4G mobile phone transmitters in the 791-862MHz range.
Both units are suitable for handling terrestrial digital TV (OTT) and digital radio (T-DAB) signals.
Amplification and distribution of digital signals requires careful attention to signal levels for satisfactory results.

Installation Instructions

Important note: attention is drawn to the General Safety Precautions panel on page 4 which contains advice relating to the 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 receiver(s). Typical examples of suitable locations are a roof space or cupboard. In weak signal areas it is helpful to keep the antenna cables as short as practicable.
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, etc. The fixing location should allow adequate access to the equipment for wiring and maintenance. Clearance of at least 25mm should be allowed around front and sides of the unit for ventilation. More clearance will be needed 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 only by its wiring, nor should it be left resting on a carpet or thermally insulating surface.

Electricity supply

Fixed wiring and connection of the electricity supply to these products should be carried out in accordance with BS 7671 ('IEE Wiring Regulations').

Each amplifier is supplied with a fitted 13A mains plug. If this plug is not suitable, see the General Safety Precautions panel on page 4.

As an alternative to the use of plug and socket connection, the amplifier may be connected to the supply using a switched fused connection unit to BS 1363-4. A 3A fuse to BS 1362 should be fitted in the fused connection unit.

If the amplifier 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 'IEC' (IEC 60169-2) connectors. Good quality plugs should be used, preferably of the crimp type. 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.

Typical Installations

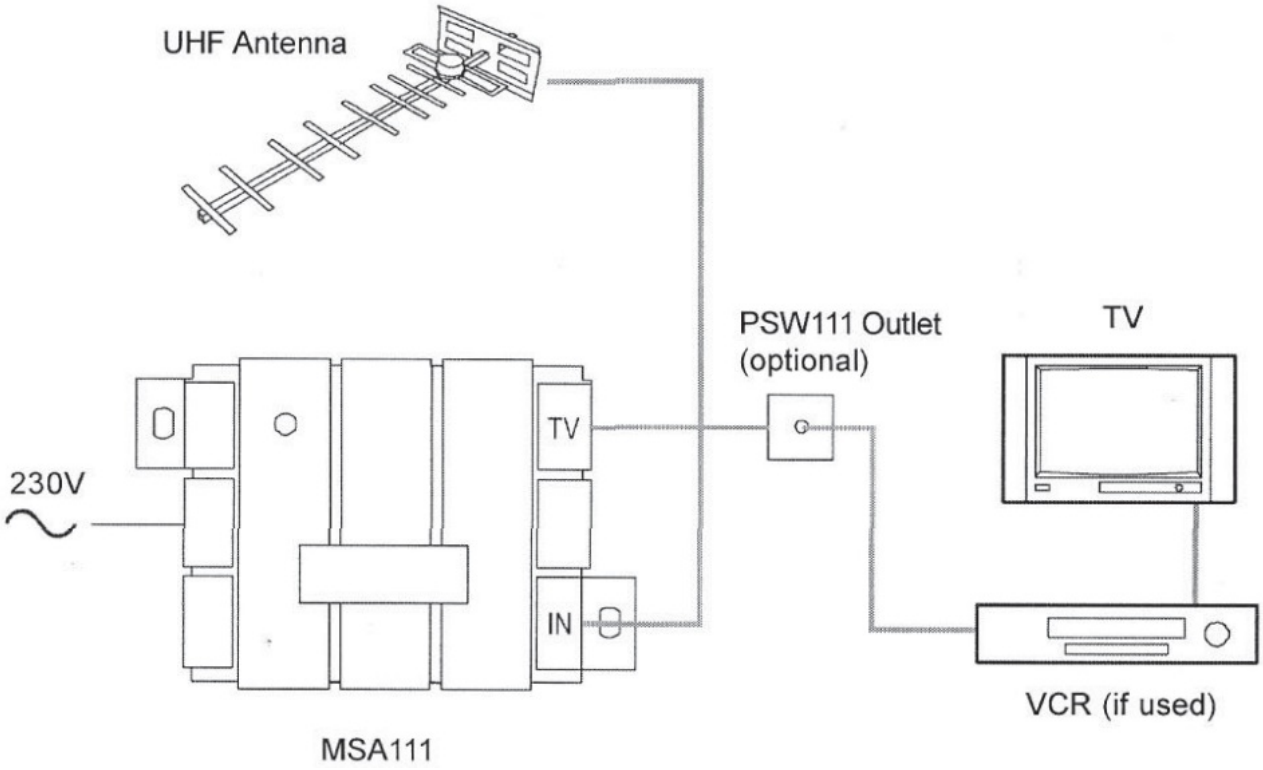

Fig. 1- Boosting UHF TV signals to a single TV in a weak signal area. For best results keep the length of cable between the antenna and the amplifier as short as possible, e.g. install the amplifier the roof space.

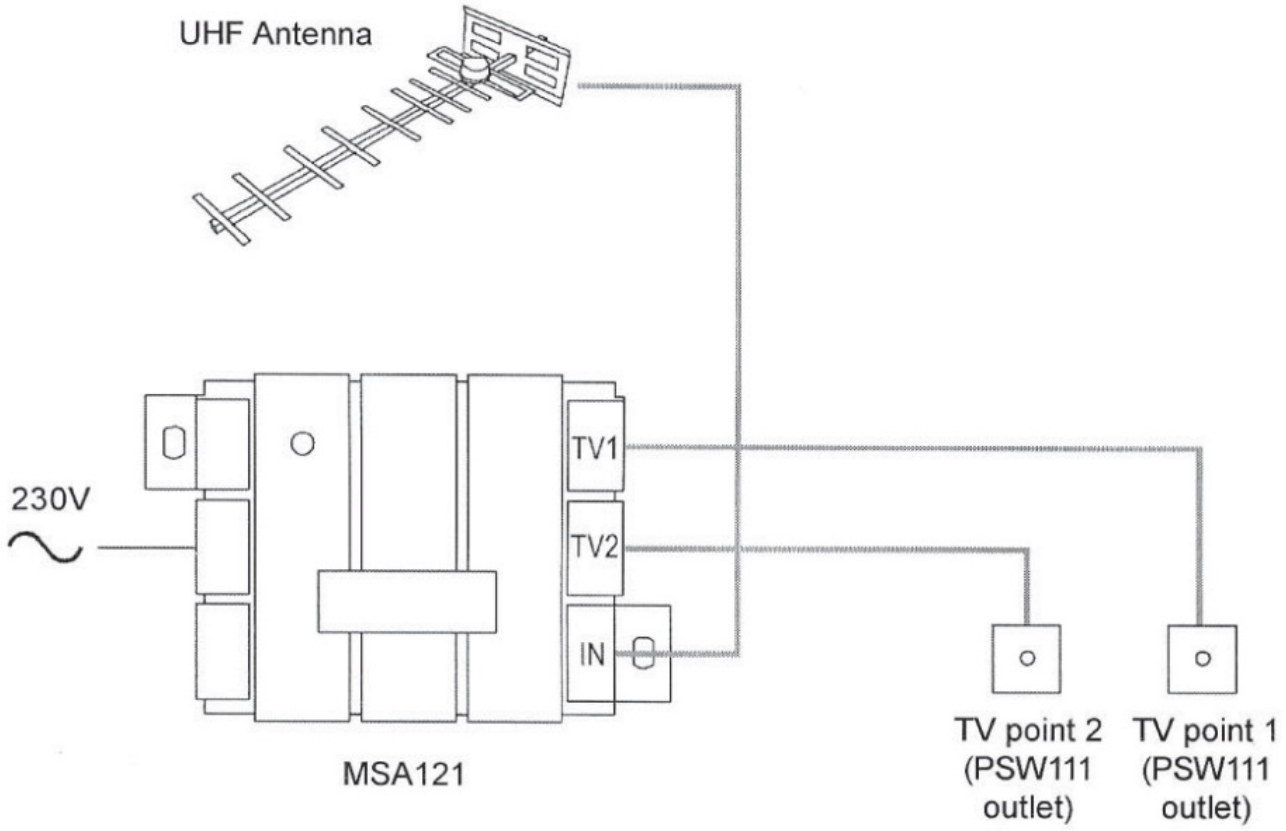

Fig. 2 - Feeding two TVs from one antenna

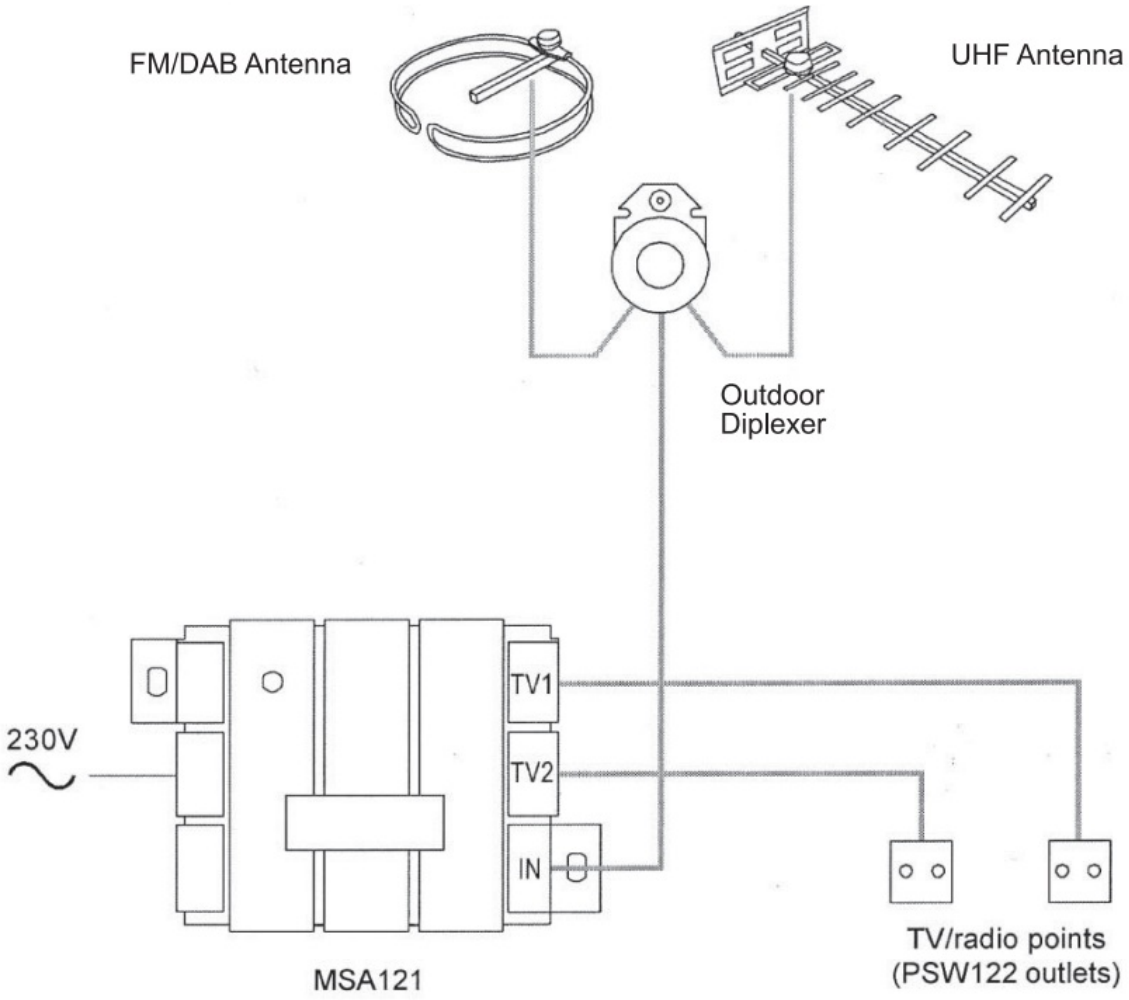

Fig. 3- TV and radio distribution to two rooms

Note: Although the two-way amplifier can be used to distribute the output of a VCR and/or digital set-top box to other rooms, we recommend our Handy link and MSR series of products for this application since they allow the use of remote controls from other rooms.

Abridged Technical Data

	MSA111	MSAl21	
Number of outputs	1	2	
I Gain	12dB	11dB per port	@ 600MHz
I Noise Figure	3dB	3.5dB	
Operating frequency range	44-790M\Hz		Channels 21…69
Power Requirement	230VAC – 50Hz at 2W		Supplied with fitted mains plug to BS 1363

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 units should not be fixed where they are likely to become smothered by curtains, or other fabrics, etc., or by thermal insulation materials in a roof space or similar building void. The units should not be !eft resting on a carpet.

OTHER PRECAUTIONS: These appliances are not waterproof. They are of indoor use only and 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 frisk of fire, no object with a naked flame should be placed on or near the appliances, or the wiring to them.

FITTED MAINS PLUG: These appliances are supplied with a standard fused plug already fitted. If this is not suitable, refer to the instructions below. In the unlikely event that you need to change the fuse in this plug, a 3 Amp fuse to BS1362 carrying the ASTA or BSI approval mark must be used. Always refit the plastic fuse carrier when replacing the fuse.

CHANGING THE PLUG: If the fitled mains plug is not suitable for the socket outlets in use, it should be cut off and an appropriate new plug fitted. Wiring the New Plug: Any instructions supplied with the new plug should be followed (these may state how much insulation to remove from the wires in the mains cord). 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 not more than 3Amp.

Caution: The old plug should be destroyed 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 opening or removal of the case. This does not affect your statutory rights.

Lab gear reserves 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.

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For further information, please contact:
Customer careline: 08457 573479 (Local Rate – UK Only)
Technical Support: www.labgear.co.uk/support/

https://manual-hub.com/

Documents / Resources

	**Labgear MSA121G VHF/UHF Single & Dual Output Amplifiers** [pdf] User Guide MSA121G VHF UHF Single Dual Output Amplifiers, MSA121G, VHF UHF Single Dual Output Amplifiers, Single Dual Output Amplifiers, Dual Output Amplifiers, Output Amplifiers, Amplifiers

References

- **User Manual**