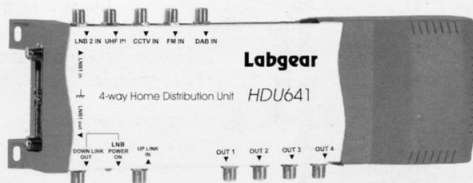


Labgear

MDU341 4-way Multi-dwelling Unit

HDU641 4-way Home Distribution Unit

HDU681 8-way Home Distribution Unit



Installation Instructions

Introduction

This new range of fully screened Home Distribution Units provide a convenient way of combining FM, DAB, UHF, CCTV and Satellite signals into a single distribution amplifier. They are designed to be used either as stand alone or fed from a IRS system. They are available in 4 or 8-ways.

All Antenna cables are cabled direct to the loft where they are individually connected to the Home Distribution Unit. The unit combines the FM, T-DAB, UHF, CCTV, LNB 1 and LNB 2 signals together and distributes them via the down link to the Master point.

LNB 1 feeds straight through and is fed down to the lounge on a separate cable. Install PSW113, this is for SKY+ applications.

By installing a PSW242T outlet plate, this triplexes the signals back out allowing you to connect to the relevant pieces of equipment.

Take a feed from The RF2 output of the Digital satellite receiver and feed it into the return socket on the PSW242T. This then connects back up to the Uplink on the Home Distribution Unit. There is no need to select the 9V in the digi boxes sub menu as the HDU provides the 9v for the remote eyes(MRX930 TRD). The FM and DAB signals are split internally to feed both the Down link and the remote rooms. This does not apply to the UHF signals, this must come from the Uplink.

All HDU's and MDU distribution units have a 6mm² Earth Connection to comply to EN 50083-1.

The MDU341, requires 2 feeds from a multiswitch (such as MS516E) to be fed direct into the MDU341. This negates the use of Triplexed outlet or Broadband splitter. Distribution is identical to the HDU applications.

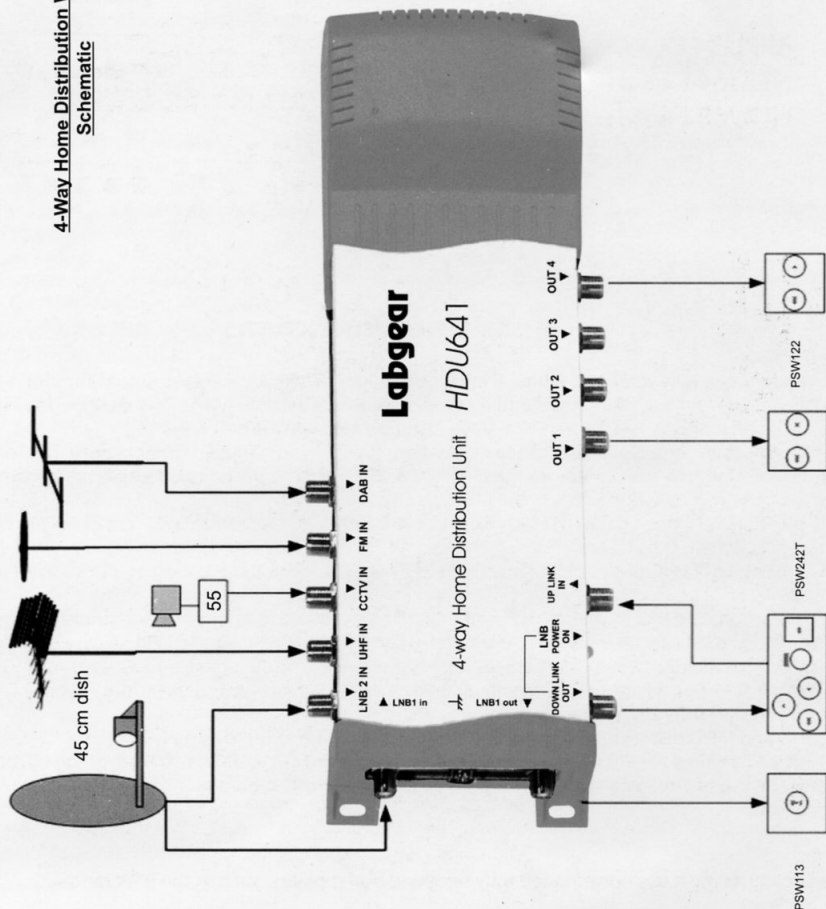
These products must use non-isolated fully screened outlet plates.(such as the PSW range).

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4-Way Home Distribution Wiring Schematic



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Installation

Important note: attention is drawn to the General Safety Precautions Panel on page 4 which contains advise refering to 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 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 the top and left hand side of the unit for ventilation. More clearance will be needed under and 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 inflammable 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 fitted 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 amplifier may be connected to the supply using a switched fused connection unit BS 1363-4. A 3 Amp fuse to BS 1362 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

It is recommended that all f-type connectors are of the crimp type, screw on connectors are not be used as they do not comply to the CAI codes of practice. Contact the CAI for clarification.

Technical Specification

Model Number	MDU341	HDU641	HDU681
Number of Inputs	3	4	6
Number of Outputs	4	4	8
FM 87.5-108 MHz	0dB	-4dB	-4dB
T-DAB 217.5-230 MHz	0dB	-5dB	-5dB
UHF(Downlink) 470-854 MHz	0dB	2.5dB	2.5dB
CCTV 470-854 MHz	-4dB	-6.5dB	-6.5dB
Satellite 87.5-2300MHz	-1.5dB	-1.5dB	-1.5dB
Sat input 2 950-2300MHz	-2dB	-1.5dB	-1.5dB
LNB rejection in UHF	>40dB	>40dB	>40dB
Uplink Gain 470-854 MHz	6dB	8dB	8dB
Return Path	3-10 MHz	3-10 MHz	3-10 MHz
Gain	1dB	0dB	0dB
All port IR enabled	9v 15mA short circuit protected		
LNB Line Power	20V 400mA		
UHF Line Power	12V 40mA		
f- connectors	IEC 60169-24		
Dimensions			

Power requirements 230V 50Hz 250mA typical Supplied and fitted Mains Plug to BS 1363

Note 1: There is no internal UHF path from the UHF and CCTV inputs to the distribution outlets. UHF signals must be fed via the Up-Link.

General Safety Precautions

To Prevent Overheating

The recommended clearances and other precautions given in this instruction 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 other thermal insulation materials in a roof space or similar building void.

Other Precautions

These appliances are not waterproof. They are for 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 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

These appliances are supplied with a standard fixed 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, 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.

Wiring a New Plug

Any instruction supplied with the 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 no more than 3 Amp.

Caution: The old plug should be destroyed promptly since it would be dangerous if plugged into the 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

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