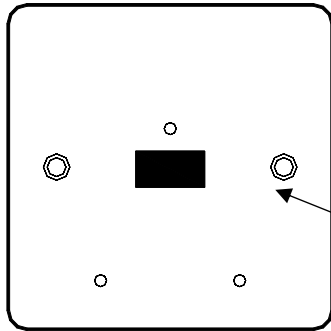


User Guide

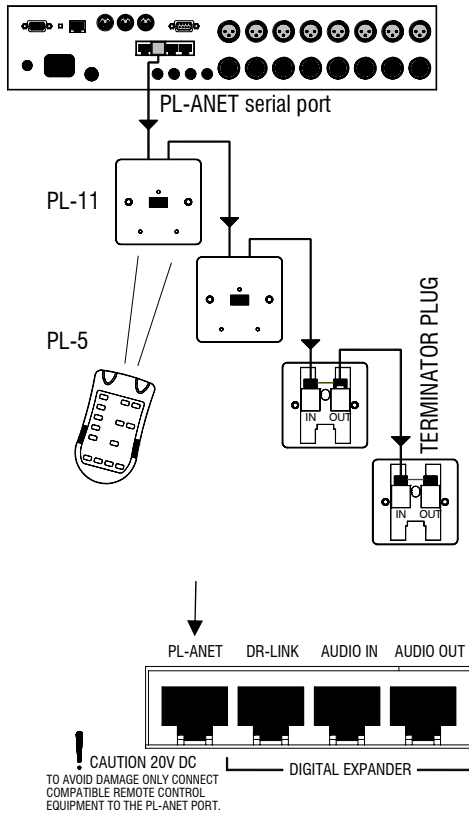


PL-11



PL-5

Introduction The PL-11 is one of several remote control devices available for the Allen & Heath iDR digital mix processor. It is part of the **PL Series** of wall plates and remote controllers. It is a panel mounted IR (infra-red) detector that allows control using the **PL-5** hand held IR remote controller separately available from Allen & Heath.



The **PL-11** can be mounted in a single unit wall box using a standard face plate (UK, EU or US versions available). The unit interfaces with the Allen & Heath PL-Anet serial port and is programmed using the iDR System Manager software. Multiple units can be daisy chained together along with other PL-Anet devices using CAT5 cable. For information on the full range of **PL** products available visit <http://www.idrseries.com>

The **PL-11** is ideal as a wall mounted room remote control interface in installed audio systems. The installer can program each of the 14 buttons of the **PL-5 infra-red remote controller** so that the non-technical operator has local control of volume, mute, source select, and preset changes which can reconfigure the room for different functions.

Number and addressing of devices The maximum number of **PL** devices that can be connected depends on their type and the cable lengths. Up to 16x **PL-11** devices (more if using half speed scan) may be connected in an **iDR** system, with or without the **PL-9** hub. Fewer devices may be connected if long distances or other **PL** types are also involved. To check this refer to the **PL Combinations Calculator** spreadsheet available from our web site. The **iDR** allocates the device addresses automatically per **PL** type in the order they appear in the chain.

PL-Anet is the proprietary Allen & Heath system for daisy chaining remote controllers. It is an RS485 serial connection that uses CAT5 STP cable to communicate between devices over long distances. **PL-Anet** only works with Allen & Heath **PL** devices. The connection includes +20V DC to power the connected devices. The **iDR-8** port is shown here.



This product complies with the European Electromagnetic Compatibility directives 89/336/EEC & 92/31/EEC.

NOTE: Any changes or modifications to the equipment not approved by Allen & Heath could void the compliance of the equipment. Whilst we believe the information in this guide to be reliable we do not assume responsibility for inaccuracies. We also reserve the right to make changes in the interest of further product development.

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IMPORTANT :



To ensure operator safety ensure that any exposed metal plates are correctly bonded to ground. Do not install the equipment where it is subject to moisture, heat or vibration.



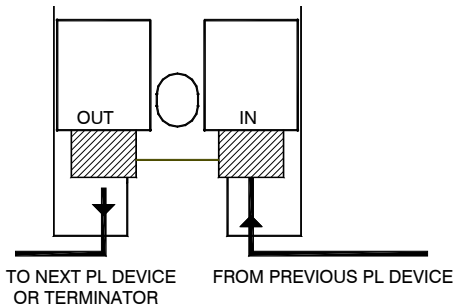
Connect this equipment to the Allen & Heath **PL-Anet** port only. Test for correct wiring and installation before switching the equipment on.

NOTE: Do not install the PL-11 in a position subject to bright sunlight. This may reduce the effectiveness of the IR signal. We recommend that you install only one PL-11 per room to avoid multiple pickup from the same hand set.

▲ Grounding the metal plate Ensure the faceplate and any metal parts are correctly grounded to ensure operator safety. The plate should be connected to a local safety ground, not the PL-Anet screen connection. Use a ground wire or physical contact with a grounded back box.



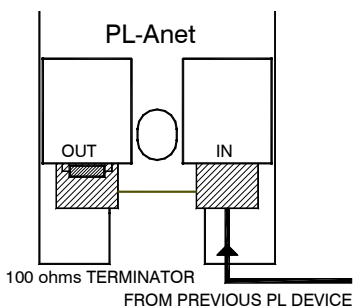
PL-Anet connection RJ45 sockets are provided for the serial port IN and OUT connections. Use unbooted plugs to ensure the cables can fit into the backing box. Allow enough cable service loop for removing the module from the backing box.



Wiring standards Use flame retardant CAT5 STP (shielded twisted pair) cable. The connection follows the EIA/TIA 568B wiring colour scheme. Ensure all ports and cables in the system are wired to this scheme. The RJ45 connector wiring is shown here.

1	WH/OR	
2	OR	
3	WH/GN	
4	BL	
5	WH/BL	
6	GN	
7	WH/BN	
8	BN	

End of chain termination As with any RS485 system, the last PL device needs to have a terminating resistor fitted to its output port. PL-11 modules are supplied with a terminating RJ45 plug (Allen & Heath part number 003-082).



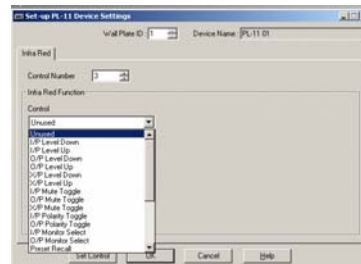
Connection to the iDR The PL-Anet network plugs into the iDR unit using an RJ45 connector. This is wired to the 568B scheme. The PL-Anet port provides the RS485 serial communication and +20V DC power to the chain of PL modules. The device addresses are automatically allocated per type in the order they appear in the PL-Anet chain.

▲ Testing the wiring Before powering up the system make sure all the wiring is inspected and continuity tested. This is important as wiring errors may result in damage to the equipment.

Powering up the PL system Ensure that the iDR PL-Anet port is active. Its green 'active' LED should be lit. If not, use the iDR System Manager software Communications Option menu to activate the port. Plug in the PL-Anet cable. The iDR System Manager screen should display icons on the right hand toolbar for each PL device it recognises.

Diagnostics If a fault is suspected check the two diagnostics LEDs on the PL-11 connector PCB. Both the red and green LEDs should be lit once communication with the iDR is established. Also measure the PL-Anet +20V supply feed between the blue wires (+20V) and the brown wires (0V). For reliable operation this voltage should not drop below +11V with all PL LED displays turned on. If a fault is found, first check for correct wiring. If further assistance is required contact Allen & Heath technical support.

Programming the IR functions Read user guide AP 5196 that comes with the PL-5. The functions are programmed using the iDR System Manager software. For further details refer to the Help file that comes with the software. Program the function for each PL-11 wall plate in the system. A simulation window is also provided for testing the system.



Select the control number for the button you want to program. The buttons are numbered 1 to 14 as shown below. Available functions for each button are:

- Level up/down (I/P, O/P, X/P)
- Group level up/down (I/P, O/P, XP)
- Mute toggle (I/P, O/P, XP)
- Polarity toggle (I/P, O/P)
- Monitor select (I/P, O/P)
- Preset recall
- MIDI message string

