

# iDR SERIES WHAT IS IT?



The **iDR** is a **16 x 16 matrix mixer** with an extensive array of audio management tools designed to reduce the need for additional devices to be specified for an installation, or carried in the hire inventory. Pedigree **ALLEN&HEATH** preamps, 24bit converters and fixed DSP architecture ensure that concert-quality low-latency sound is delivered efficiently to where it is needed.

Anyone with a basic knowledge of traditional console and outboard equipment will be able to design a distributed audio system on their PC using the 'mixer' based **iDR System Manager** software - download it free from [www.idrseries.com](http://www.idrseries.com).

**iDR** comes loaded with flexible DSP tools, essential in sound system configuration and installation. Input & output delays, 4- and 8-band parametric EQ, automatic microphone mixing, frequency conscious dynamics, look-ahead limiter, ambient noise compensator, crossfader and much more are available at your fingertips without having to worry about running out of DSP. Its system of presets allow for full recall of the whole system or individual parameters at the touch of a button.

After programming, the **iDR** unit operates as a stand-alone system controller, with a host of remote control devices available for day-to-day operation. The **PL** Series complements the powerful features of **iDR** and comprises wall plates, infra-red hand-held or desk mount controllers connecting to the main unit using CAT5 cable over the RS485-based proprietary **PL-Anet** bus, while all the major third party devices may also be used to control **iDR**.

For complex systems, the **iDR** system can be driven in real time by a PC via an Ethernet port, allowing the **iDR** to be used in hire/live audio situations such as matrix distribution in theatres, or clean feed system for an outside broadcast. Why not connect a WiFi card to your laptop, connect to the internet, set up your system and save your settings on the move? Stay in control from anywhere in the world!

# iDR SERIES WHY IS IT SO USEFUL?

## Network control



The main **iDR** units can be easily controlled and programmed with an Ethernet connection to a PC [or MAC running OSX & PC simulator]. All **iDR** units on a network can be 'seen', by more than one computer, with optional password protection so that operators can be observed by a technician running **iDR System Manager** software - or PL Client software - anywhere on the network or World Wide Web. **iDR** can even output a log of its activities to an email address!

Proprietary TCP/IP devices such as 'WiFi', can be used for cost effective and practical uses; for example, a 'wireless laptop', can be used to commission or update the sound system from exactly where the technician needs to monitor it.

## Preset System



**iDR** provides a system of up to 250 presets for total recall of system settings. A preset can contain the settings for all system devices, e.g. a default preset to set the entire system on power-up, or individual devices can be selected for exclusive change in a preset, e.g. a single EQ or fader gain level. A recall crossfader is provided to fade between different preset levels. Scheduled preset recalls are available, timed from the **iDR** internal clock. Preset recalls can be triggered from **ALLEN&HEATH** equipment (**PL** controllers other **iDR**'s or **iDR-Switch**) or via the serial, MIDI and Telnet ports using third party equipment.

## PL-Anet



The **PL** Series is the perfect interface between the **iDR** and the operators on site, providing simple, non-technical switch, indicator display, fader, IR and encoder control options. Furthermore, as the requirements grow at an installation, the control system can too.

**PL** remotes can simply daisy chain or use the '**PL-Anet**' hub for star wiring applications, and all cabling is CAT5. You as the designer can customize these 'plug-n-play' remotes to do exactly what the customer needs. Each **PL** has its own simulator in **iDR System Manager** software, so you can design and demo the system offline as it will appear when the hardware is in place.

## Automatic Level Management



**iDR** is equipped with several powerful modules to manage a distributed sound system, so an operator or technician doesn't always need to be present. For instance:

- ★ Microphones in a conference situation can be controlled by any one of the four on-board **AMM**'s, so that as more open microphones join in, the gain of the sum is reduced to prevent feedback occurring.
- ★ A comprehensive **Ducking** system is provided with adjustable priorities.
- ★ Ambient Noise Compensator (**ANC**) enables the output level in a zone to be automatically managed in relation to the signal level of the changing background noise level
- ★ **Level Sensing** provides a logic or soft LED output when a pre-set signal threshold is reached, which triggers indicators and other hardware to respond; this allows operations such as camera following.
- ★ 2 independent **paging** systems are provided, with paging to selectable outputs. Paging switches and indicators can be triggered via **A&H** controllers; alternatively, custom paging panels can be created and interfaced with the system.

## Expandability



As the system requirements grow, additional **iDR** units or expanders can be added to suit the budget and application. **iDR-8** and **iDR-4** have 8-buss digital expansion ports (RJ45) to allow units to be daisy-chained together, or to add an **iDR-In** or **iDR-Out** 8-channel expander.

The CAT5 cables allow the units to be placed at distances up to 250m apart, allowing, for example, the **iDR-In** to provide 8 XLR mic/line inputs in a function room on a different floor to the control room containing the main **iDR** unit, or, similarly, the **iDR-Out** could be configured as a four-way-stereo XLR output to an amp rack located at the side of a theatre stage.

Furthermore, the 8-buss link can be used to distribute signals around a complex network where **iDR** units communicate via TCP/IP - here, interbox paging and routing is possible.

## Audio Quality



Low latency [2.23ms from input to output] and a fixed DSP architecture ensures that the **iDR** system will distribute coherent audio no matter how many modules of DSP are used in the system.

Mic preamp gain is controlled in analogue under software control so levels can be optimised in real time if needed. **iDR-8** has a hardware limiter before the A-D converter so that the contractor can have confidence in the signal integrity, even if input levels exceed what was expected.

## Signal Processing



The **iDR-4** & **iDR-8** signal processing architectures provide 16 channels of input processing and 16 channels of output processing, centred around the 16x16 mix matrix. Using the DSP patchbays, the user can configure these channels to either analogue inputs/outputs or to channels on the digital audio expansion port.

Because of the fixed architecture, you do not need to assign DSP into the signal path, or worry about having enough DSP available to do the job. In **iDR**, we have given you the tools you need such as noise gates, compressors, delays, parametric EQ and look-ahead limiters, to start working with live audio straight away.

Adjustments are made in real time as there is no compiling to do, and our unique monitor buss allows you to listen to any point in the signal path. Copy and paste any DSP settings to quickly build up a design, save it as a configuration file, and use it as a template for other systems.

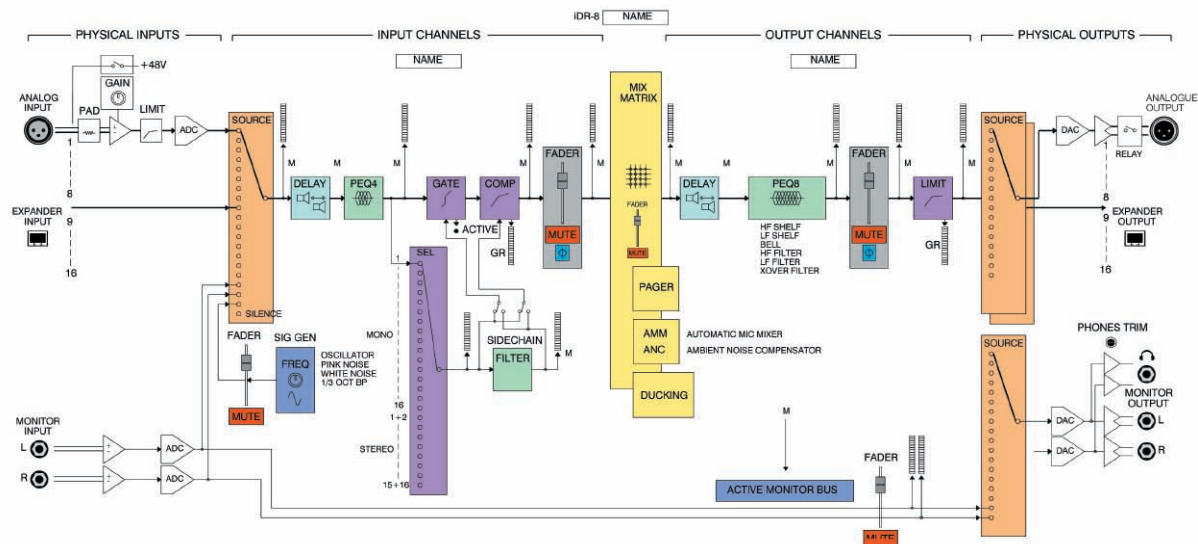
## MIDI



**iDR-8** is equipped with MIDI in/out/thru and custom MIDI commands can be output as presets and recalled on the **iDR**. This allows other audio devices such as samplers and processors to be controlled from the main unit.

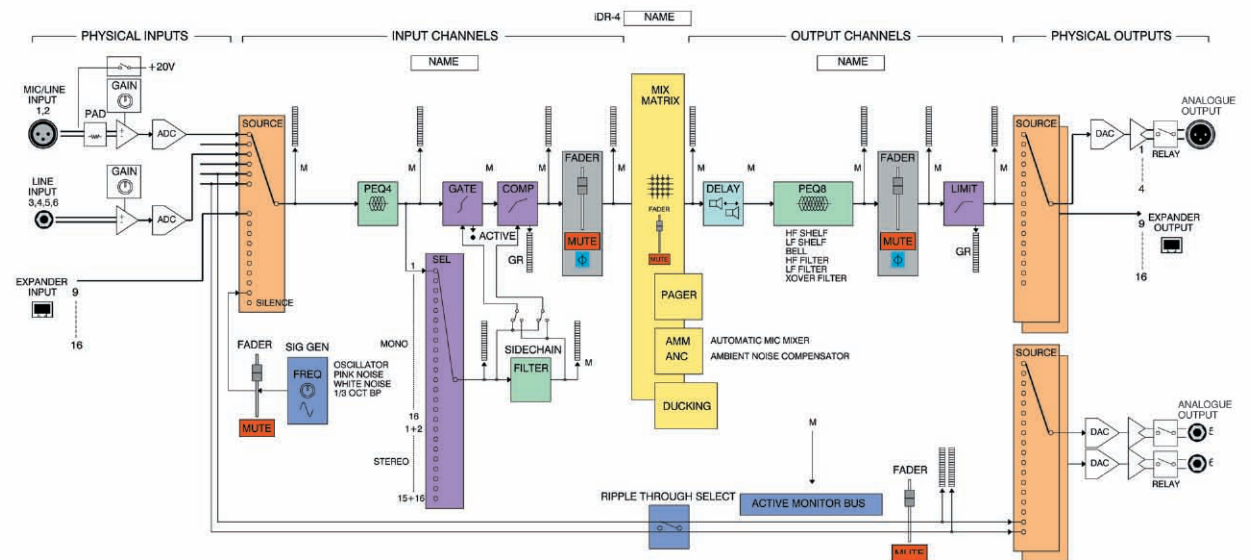
For example, dynamic MIDI control from faders, rotary controls and keys in the **iDR** system could interface with a DMX controller, so that basic lighting control can be programmed into **iDR** and run from the **PL** series remote controllers.





## Features of iDR-8

- ★ **iDR** DSP system - 16 processing channels (inputs and outputs)
- ★ 8 analogue mic/line inputs on XLR3 with 48V phantom power
- ★ 8 analogue line outputs on XLR3
- ★ 2 line inputs on TRS jack
- ★ 2 line outputs on TRS jack
- ★ Digital audio expansion ports (8 channels in, 8 channels out)
- ★ Hot Plug'n'Play **PL** Series Remote controllers
- ★ High Quality Audio Signal Path and DSP processing
- ★ Headphone monitor with mouse and ripple-through capability
- ★ MIDI In/Out/Thru connections



## Features of iDR-4

- ★ **iDR** DSP system - 16 processing channels (inputs and outputs)
- ★ 2 analogue mic/line inputs on XLR with 20V phantom power
- ★ 4 analogue line inputs on TRS jack
- ★ 4 line outputs on XLR
- ★ 2 line outputs on TRS jack
- ★ Digital audio expansion port (8 channels in, 8 channels out)
- ★ Hot Plug'n'Play **PL** Series Remote controllers
- ★ High quality audio signal path and DSP processing
- ★ Monitor with mouse and ripple-through capability



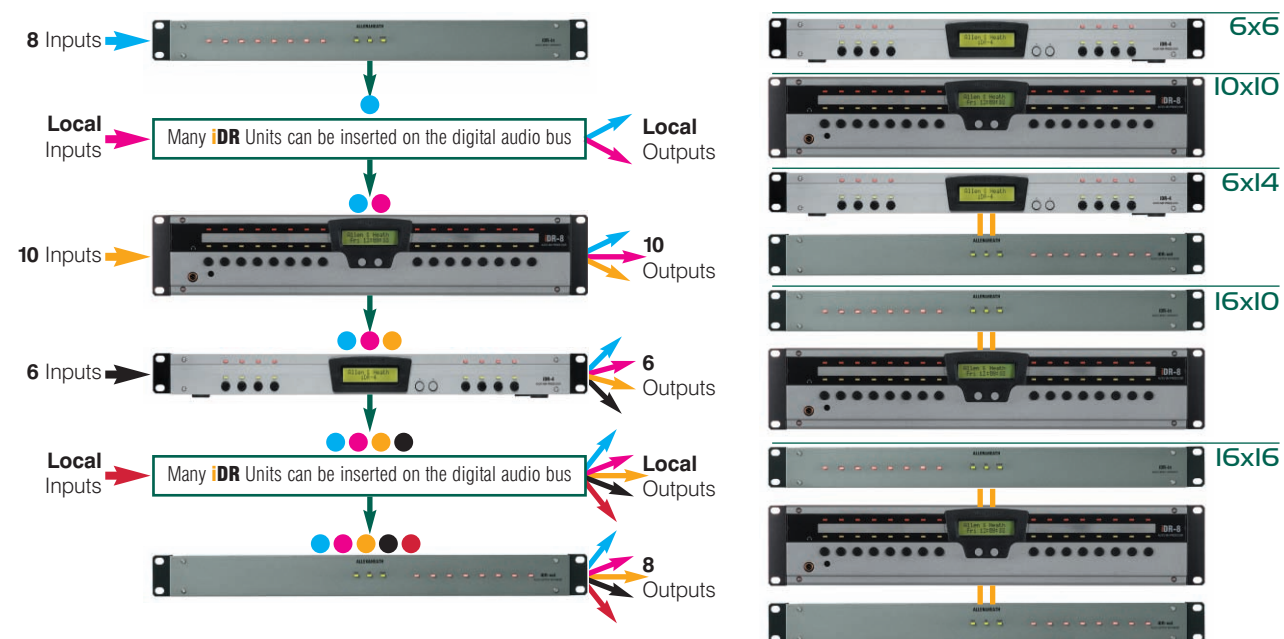
# iDR-In & -Out EXPANDERS



iDR-8 and iDR-4 can happily manage many complete systems with their existing input/output architecture standing alone. However, for larger systems, iDR-In and iDR-Out audio expander units are available, providing an additional 8 mic/line inputs on XLR and 8 line outputs (also on XLR) respectively. One or both expanders may be connected to a single iDR main unit.

These audio expanders convert the analogue audio to an 8 channel wide digital bus which feeds the main iDR unit, which can be up to 250 metres away, via CAT5 STP cable. iDR-In features high grade mic/line preamps with PC configured gain, pad and phantom power switching via DR-Link, and a built-in soft clip, while iDR-Out provides electronically balanced differential outputs. Both units have 8 front panel LEDs in addition to the 3 status indicators; these are 3-colour soft LEDs which can be assigned as audio meters, mute indicators or presets related indicators and are programmed in the usual way using the iDR System Manager software.

## Example Combinations:



# iDR CONTROL

A glance at the iDR back panel reveals the scope of iDR's control capabilities. iDR can communicate with many forms of equipment utilising industry standard communication protocols. For example, iDR-switch units, iDR-in and iDR-out expanders, third party controllers, PL Series 'intelligent' wall plates, MIDI show controllers, PCs, networks and modems. Up to 4 communications ports can be used at once - network and DR-link ports are always available, with two more selected from RS232, Sys-Net, MIDI and PL-Anet. Rear panel LEDs clearly indicate active ports for rapid communication status checking.

## COMMUNICATIONS PORTS - iDR System

permanent protocols	connections	protocol type	uses
<b>Network</b> 			Network control and communication between computers, connection of iDR System Manager, PL-Designer and PL-Client. Connection to the internet for remote management and control purposes
<b>DR-Link</b> 			Links the iDR-In and iDR-Out audio expanders and iDR-Switch to the iDR units for logic control.
2 of 4 protocols selectable from software			
<b>Sys-Net</b> 			For third party controllers such as: AMX, Crestron, Cue, Audace and many more. Touch screens, Infr-red devices etc can be utilised with iDR.
<b>RS232</b> 			For connecting iDR to a phoneline for remote connection, management and operation (PPP = Point to Point Protocol).
<b>RS232 Front</b> (iDR-8 only) 			Used to update the system code in the unit
<b>MIDI</b> (iDR-8 only)			For Remote Control using standard MIDI interfacing equipment. Custom remote controllers, show control, MIDI conversion equipment (e.g. MIDI to DMX) to control external equipment (e.g. lighting)
<b>PL-Anet</b> 			PL-Anet is an RS485-based protocol incorporating 20V phantom powering for the ALLEN & HEATH self detecting and self powered PL Range of remote controllers.



# iDR System Technical Specifications

for **iDR-8** & **iDR-4**

## Audio Specifications

### Performance

Frequency Response	20Hz to 20kHz +0/- 0.5dB
Inter-channel Crosstalk	< -80dB @ 1kHz, 0dB gain
THD + noise	< 0.01% @ 1kHz, 0dBu
Residual output noise	< 93dBu (22Hz to 22kHz)
Input to Output noise	< 87dBu @ 0dB (22Hz to 22kHz)

### XLR Mic/Line Inputs

<b>iDR-8</b> - number	8 (expandable to 16)
<b>iDR-4</b> - number	2 (expandable to 10)
Connections	Female XLR 3 Pin
Type	Electronically Balanced, pin2+
Impedance (pad out)	2k ohm
Impedance (pad in)	> 10k ohm
Gain	Control in 3dB steps, 20dB pad
Sensitivity (pad out)	-50 to -5dBu
Sensitivity (pad in)	-30 to +15dBu
Max Input	+33dBu
Limiter	Pre-ADC opto - 6dBFS, switchable
Phantom Power	+48V switched ( <b>iDR-8</b> ) +20V switched ( <b>iDR-4</b> )

### TRS Jack Line Inputs

<b>iDR-8</b> - number	2
<b>iDR-4</b> - number	4
Connections	TRS Jack (balanced/stereo Jack)
Type	Electronically balanced, tip+
Impedance	> 30k ohm
Sensitivity	0dBu
Max Input	+18dBu

### XLR Line Outputs

<b>iDR-8</b> - number	8 (expandable to 16)
<b>iDR-4</b> - number	4 (expandable to 12)
Connections	Male XLR 3 Pin
Type	Electronically balanced, pin2+
Impedance	< 75 ohm
Max Output	+18dBu

### TRS Jack Line Outputs

Quantity	2
Connections	TRS Jack (balanced/stereo Jack)
Type	Electronically balanced, tip+
Impedance	< 75ohm
Max Output	+18dBu

## Control & Communications

### Control Ports

offering the following combinations

PORT A	PORT B
RS232	Sys-Net
RS232	MIDI ( <b>iDR-8</b> only)
RS232	<b>PL-Anet</b>
RS232	Custom Serial
Sys-Net	<b>PL-Anet</b>
Sys-Net	MIDI ( <b>iDR-8</b> only)
MIDI ( <b>iDR-8</b> only)	<b>PL-Anet</b>
Custom Serial	MIDI ( <b>iDR-8</b> only)
Custom Serial	<b>PL-Anet</b>

RS232	
Port Select	Front panel switch to select either front or rear RS232 connector
Front Panel Connector	9pin D Female
Rear Panel Connector	(Modem) 9 Pin D male
Baud	115200, 8N1
Cable Length	< 3 Metres (10feet)

### Headphone Output (**iDR-8** only)

Connections	TRS Jack, Tip L Ring R
Type	1/4" Stereo Jack
Impedance	For Headphones > 30ohms
Control	Front Panel Trim Control

### DSP

DSP	2x Motorola
Processing	56bit mix accumulator
Sampling Rate	48kHz
Audio matrix (48kHz)	16 x 16 channel processing
Latency XLR in to XLR out with Processing	< 2.3ms

### A/D Converters

Resolution	24bit
Dynamic Range	109dB A-weighted, 106dB unweighted

### D/A Converters

Resolution	24bit
Dynamic range	115dB A-weighted, 112dB unweighted

### Expander Input Port

Application	adding remote inputs ( <b>iDR-in</b> ) and linking <b>iDR</b> units on 8 channel digital bus
Connection	RJ45
Protocol	Proprietary 8 Channel Digital Audio
Cable	CAT5 STP upto 250m (825 feet)

### Expander Output Port

Application	adding remote Outputs ( <b>iDR-out</b> ) and linking <b>iDR</b> units on 8 channel digital bus
Connection	RJ45
Protocol	Proprietary 8 Channel Digital Audio
Cable	CAT5 STP upto 250m (825 feet)

## Technical Specifications

### Front Panel (face plate fitted)

Display Type	2 x 16 Character Backlit LCD
Display content	Day/Time, unit name, user defined text, Menu/operating control data
Keys	<b>iDR-8</b> : 16 user programmable, 2 scroll <b>iDR-4</b> : 8 user programmable, 2 scroll <b>iDR-8</b> : 32 user programmable, tri-colour <b>iDR-4</b> : 16 user programmable, tri-colour
LEDs	<b>iDR-8</b> only: Recessed Socket and Level Trim
Headphones	

### Front Panel (face plate removed)

Menu Keys	Menu item select using: scroll, esc, enter
Menu Items	Preset Recall, Monitor Select, date/time, unit name, network, diagnostics
Status LEDs	<b>iDR-8</b> only: Slave, Ext. Sync Lock, 96kHz
RS232 Connector	<b>iDR-8</b> only: 9 pin D Connector - Mirrors Port A protocol setting, front/rear selection switch
Code Update	Updates <b>iDR</b> operating system code
Label Strip	Behind widow user label/markup strip

### Power Supply

Type	Universal Input Switched Mode
Connector	IEC 3pin
Power Lead Supplied	Country Dependent
Power Switch	Rear panel mains on/off
AC mains input	100-240V AC 50/60Hz
Power Consumption (Max)	<b>iDR-8</b> : 80VA <b>iDR-4</b> : 75VA
Internal Fuse	<b>iDR-8</b> : T1.6A 20mm <b>iDR-4</b> : T1A 20mm

### Dimensions

	<b>iDR-8</b>	<b>iDR-4</b>
<b>Desktop</b>		
Width	440mm (17")	440mm (17")
Height	92mm (3.5")	48mm (2")
Depth	350mm (14")	350mm (14")
<b>Rackmount</b>	(2U)	(1U)
Width	486mm (19")	486mm (19")
Height	88mm (3.5") = 2U	44mm (2") = 1U
Depth	350mm (14")	350mm (14")
<b>Max depth with connectors</b>		
Depth	430mm (17")	430mm (17")

### PL-Anet

Applications	Network for <b>ALLEN &amp; HEATH PL</b> Series intelligent remote controllers
Connection	RJ45
Protocol	Proprietary <b>ALLEN &amp; HEATH</b> - RS485 with +20VDC Phantom Power
Cable	CAT5 STP (Refer to REN table lengths)

### DR-Link

Application	<b>iDR-Switch</b> and <b>iDR</b> audio expander logic control
Connection	RJ45
Protocol	Proprietary <b>ALLEN &amp; HEATH</b>
Cable	CAT5 STP up to 250 metres (825 feet)

# iDR-Switch



**iDR-switch** extends the capability of the **iDR-8** and **iDR-4** by enabling custom wall plate and remote equipment control. It provides 24 switch closure inputs and 16 logic control outputs which can be custom wired by the installer to suit the application. Up to 3 units can be networked, so providing an **iDR** unit with 72 switch and 48 logic outputs. The controls are easily programmed using the System Manager software.

## Control Functions

When a switch contact closure status is ACTION ON (Pressed) or ACTION OFF (released) various parameters can be controlled within the **iDR** system:

- ★ Levels [Up/Down] (*Input, Output, Crosspoint, Monitor*)
- ★ Group Levels [Up/Down] (*Input, Output, Crosspoint*)
- ★ Mutes [Toggle/On/Off] (*Input, Output, Crosspoint, Monitor*)
- ★ Preset Recall [offers all associated functions]
- ★ Monitor Select [Inputs/Outputs]
- ★ MIDI Strings - **iDR-8** only (*a custom MIDI string is sent from the iDR Unit*)

## Operating Modes

- ★ Latched Action
- ★ Press Action
- ★ Release Action

## Software

**iDR** System Manager has a simulation of **iDR-Switch** units connected to the **iDR** unit (maximum of 3 per unit). The Switch can be setup online or offline and has the ability to show Logic outputs as green LEDs. Setting up the contact closures and logic outputs is done in the Soft Keys and Soft LEDs setup windows. Many external devices can be integrated into a system using the **iDR-Switch** units and custom paging panels and remote triggering can be realised.

A range of different modes of operation for each switch closure and logic output can be achieved. Many systems can be integrated with the **iDR-Switch**, e.g. -

- ★ Fire Alarm Interface
- ★ Theme Park Triggering
- ★ Room Dividing
- ★ Custom Paging Panels
- ★ Custom Switches for Level control
- ★ External Equipment interfacing (e.g. Start/Stop for a motor unit utilising a suitable relay interface)

## Technical Specifications

### Front Panel

Status LEDs	Link, power
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### Switch Inputs x 24

Connector	3x 10pin Phoenix, 8 switches per connector
Plug	Mating screw terminal plugs supplied
Type	Opto-isolated via 2k2 ohm from +10V
Operation	Switch closure to connect pin to ground (5mA)
Cable	1k ohm max resistance

### Logic Outputs x 16

Connector	4x 10pin Phoenix, 4 outputs per connector
Plug	Mating screw terminal plugs supplied

### Logic Outputs x 16 (continued)

Type	Opto-isolated open collector
Terminals	Floating collector (+) and emitter (-) pins
Internal DC source	+10V, 500mA total max. External DC source. Up to +24V 200mA sink per output max

### DR-Link

Application	Logic control from iDR-4/8
Connection	RJ45 x2 (in, out to next unit)
Protocol	Proprietary Allen & Heath
Cable	CAT5 STP up to 250 metres (700 feet)

### Power Supply

Type	Universal input switched mode
Connector	IEC 3pin
Power lead supplied	Country dependent
AC mains input	100-240V AC 50/60Hz
Power consumption	15VA max
Fuse	T500mA 20mm
Power switch	Rear panel mains on/off

### Mechanical specifications (in mm)

Removeable ears for desk or rack mount	Width	Height	Depth
<b>iDR-switch</b>			
Desktop	440mm (17.3")	48mm (1.9")	148mm (5.8")
Rack	486mm (19")	44mm (1.75")	148mm (5.8")
Unpacked weight	3.5kg, 7.7lb		
Packed weight	4kg, 9lb		

## PL-2

The **PL-2** is a purpose-built custom interface for **iDR-Switch** available from **A&H** for those who do not wish to make their own custom panels.

The wallplate has 4 user-programmable switches and 4 tricolour programmable LEDs providing many local control options such as multiple source selection for output zones.

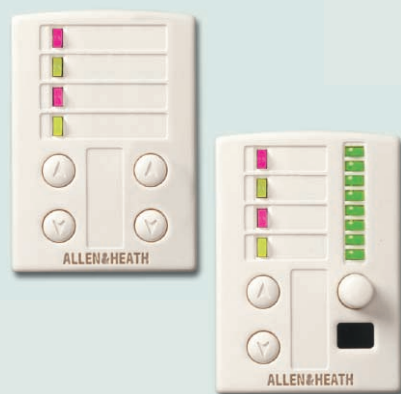


# PL-Series

The **PL** series is the perfect interface between the **iDR** and the operators on site who don't need to understand the sound system - just control it. As the requirements grow at an installation, the control system can too! Start off with just the controls and display on the **iDR** unit then add wall mounted plates and hand-held remotes wherever they are needed using our CAT5 **PL-Anet** cabling system. **PL** remotes can simply daisy chain or use the **PL-Anet** hub for star wiring applications. LEDs in the system can be tri-colour status indicators [to indicate selected sources, or mutes] or they can become meters for any point in the signal flow. The LCD windows can easily be programmed to relay text information about the state of the system. You, as the designer, can customise these plug and play remotes to do exactly what the customer has been looking for. Each **PL** has its own simulator in **iDR** system manager software so you can design and demo the system offline as it will appear when the hardware is in place.

## PL-3 & PL-4

**PL-3** and **PL-4** wall plates have 4 or 2 programmable switches and 4 programmable tri-colour LEDs and are ideal for local operator control of the **iDR**-based audio system. They may be used, for example, for source selection for an output zone, or local volume control. The **PL-4** has, in addition, a rotary control with LED ladder and a built-in infra-red receiver - it can be operated at a distance using the **PL-5** handheld remote controller, allowing the operator to quickly and conveniently adjust the system from anywhere in the room. The control options can be different to those set on the **PL-4**.



## PL-5

**Examples of use:** multiple source selection for an output zone. Local volume level, home cinema & AV system control (projector / lighting / amplifier control), and tamper-proof control.



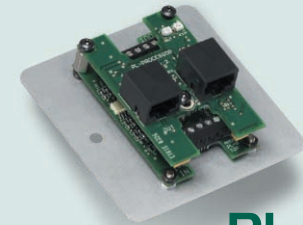
## PL-6

The **PL-6** is ideal as a remote mix controller - e.g. as a simple operator-controlled fader panel in an installed sound system, or as a personal musician's on-stage mix controller with in-ear monitors. It has 8 faders, 24 tri-colour LEDs and 16 soft switches which are all programmable via **iDR System Manager**. Other examples for use include as a basic lighting controller via MIDI/DMX, and the unit can be wall-mounted or flange-mounted into a table or wall.



## PL-7

**PL-7** is a stand-alone or surface mounted LCD panel, which enables remote display of status information and text messages which can be stored in the recallable memory settings. The **PL-7** can be embedded with **PL-3** or **PL-4** wall plates, allowing programmable control from a single unit. It can also be used for remote alarm/supervisor display.



## PL-8

**PL-8** is a 4 input, 4 output logic control panel mounted on a wall plate which can be connected to **PL-Anet**. It is designed to interface external systems such as alarm systems, juke boxes, room dividers, fader starts and lights at a convenient location.

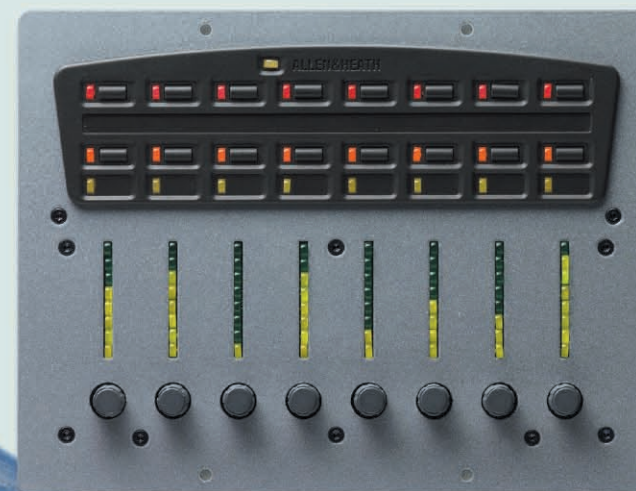


## PL-9

**PL-9** is a 1U rack or desk mount hub which provides up to 7 individual connections to chains of **PL** devices, offering 'star wiring', simplifying wiring and eliminating the need for complex daisy-chaining. This also provides the benefit of longer cable runs and allows easier 'plug and play' of devices such as the **PL-6** and **PL-10**, and allows a larger number of **PL** controllers to be connected to a single **iDR** unit.

As the **PL-9** is the 'end of chain' on a **PL-Anet** branch, it offers greater flexibility by allowing **PL** wallplates to be plugged in and out easily - for example, a **PL-6** could just be plugged into a **PL-9** onstage, allowing local performer control, then removed after the event.

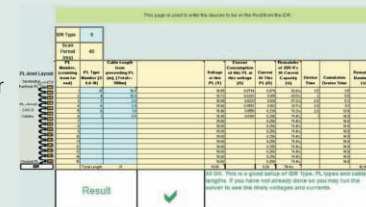
## PL-10



The **PL-10** is similar to the **PL-6** - i.e. is a compact mixer interface, but has 8 rotary encoders, with LED ladder displays instead of faders, making it possible to mix live events within the **iDR** system. It's ideal for creating and controlling an output mix of cross-point groups. The **PL-10** can be assigned to read and adjust different mixes, as the LED bars indicate the levels managed by the **iDR** unit. The unit can be hand-held, or flange-mounted into a table or wall. As the **PL-10** has encoders rather than faders, it can respond to changes in levels made from other controllers.

## PL-Calculator

**PL-Calculator** is an Excel-based program which enables the installer to verify that a planned system with specified **PL** devices and inter-connect distances over **PL-Anet** conforms to the system specification. The program is bundled together with the **iDR System Manager** software.



### PL-Anet Specification

<b>Application</b>	Network for <b>ALLEN &amp; HEATH</b> intelligent remote controllers
<b>Connection</b>	RJ45, RS485 with +20V DC phantom power - terminator supplied
<b>Protocol</b>	Proprietary <b>ALLEN &amp; HEATH</b>
<b>Cable</b>	CAT5 STP (Length table available from <b>ALLEN &amp; HEATH</b> )







# PL SOFTWARE

## PL Designer and Client for Windows™

As well as being controlled by **iDR System Manager**, **iDR** systems can be controlled via a PC using '**PL Client**', an interface which can be designed in '**PL Designer**'.

**PL Designer** is used to create a custom interface which is opened using **PL Client**. The system architect can create a custom wall plate in **PL Designer**, providing system control tailored to the user's requirements. **PL Designer** lets the architect create a control layout from a selection of control types, such as switches, faders, mutes and meters, and positioned over a bitmap background. The architect can map functions from the **iDR** units into the **Designer** interface. The resulting **PL Client** panel, designed and customised according to the client's preference, can be installed on the client's PC. The result is the creation of customised, virtual wall plates. The PC can then be directly or network connected to the **iDR** for system control.

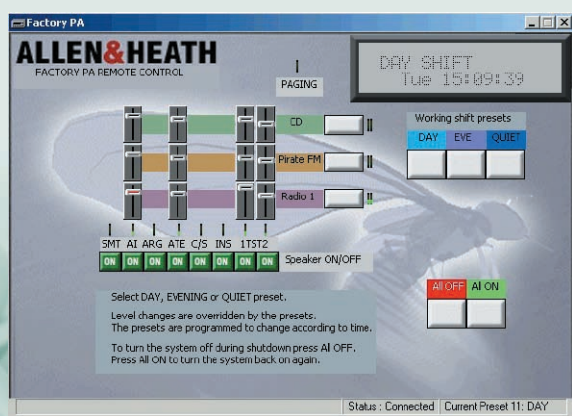
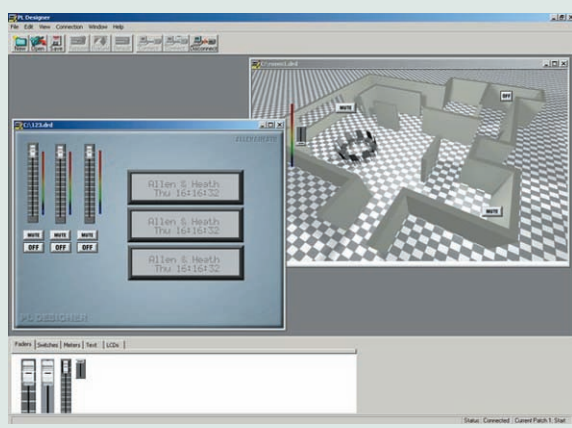
For example, the system architect could specify in **PL Designer** that: a venue manager could control source selects (e.g. CD, SAT-TV, DVD, etc), and levels of different zones on multiple floors using many **iDR** systems through one **PL Client** interface from the client's password-protected computer system. Further levels of access may also be added: for example, assistant managers of the venue may be provided with restricted access offering the ability for level control of their designated area only.

## PL Client

**PL Client**, created with **PL Designer**, a tool within **iDR System Manager**, is the end user software, containing only the control elements in a .drd file with the design devices removed for tamperproof operation.

The **PL Client** software is demo-ware and time limited to 10 days. After that a key is required to run the software which is available from [www.idrseries.com/pl\\_client.asp](http://www.idrseries.com/pl_client.asp)

For more information on setting up and configuring **PL Designer/Client** view the online documentation and help file contained in the **iDR** system manager software.



# iDR SYSTEM MANAGER SPECIFICATIONS

<b>Operating System</b> <b>iDR</b> Unit Software, Internal Update using TCP/IP via system manager, RS232 via Hyperterminal	<b>Compressor</b> (x16) Threshold Ratio Knee Makeup Gain Attack Release Auto Modes Display  Controls -48 to +18dBu Variable 1:1 to 1:infinite Hard, Soft 0 to +18dB 300_s to 300ms, auto mode 100ms to 2s, auto mode Live, Music AGC, Vocal, Speech Response curve, gain reduction, in/out/sidechain meters Compressor in/out, Sidechain in/out, auto on/off	<b>AMM</b> (x4) Automatic Mic Mixing Ambient Level Sensing Mic open threshold Hold time NOM Attenuation NOM and ambient level average of all selected mics 4 to 20dB above ambient level 0 to 5 seconds 1 to 6dB
<b>System Configuration</b> <b>iDR</b> System Manager software PC compatible running online or offline session. Includes all <b>iDR</b> and <b>PL</b> unit simulators for complete setup and test	<b>Level Control</b> Input channels, output channels, monitor bus, signal generator Linear fader range Controls Off to +5dB in 51 steps Level, Mute, polarity reverse	<b>ANC</b> (x4) Ambient Noise Compensator Ambient Level Metering Point Ambient Level Gain Differential Controlled Gain Element Controlled Gain Operating Range Controlled Gain Response Time Program Gap Metering Point Program Gap Threshold Program Gap Time Display Controls automatic controlled gain element in step with changes in background noise levels I/P Source/Post-EQ/Post-Fade, O/P Post-Matrix/Pre-Fade/Post-Limiter, Channels 1-16 -18dB to +40dB selects fader for control, I/P O/P I/P Group, O/P Group, Routing Gain, stereo operation min -59 to 5dB, max rate dB per Second from 0.1 to 30dB I/P Source/Post-EQ/Post-Fade, O/P Post-Matrix/Pre-Fade/Post-Limiter, Channels 1-16 -62dB to -20dB 0s to 5s Level meters, Ambient Level Sampling Active LED Enable On/Off
<b>Virtual Controllers</b> <b>PL-Designer</b> <b>PL-Client</b> for installer configured GUI for restricted operator control	<b>Fader Grouping</b> Channel Faders can be assigned to be master faders (DCA) Fader Range Number of Input Fader Groups Number of Output Fader Groups Number of Crosspoint Fader Groups Group naming Off to 0dB in 51 Steps 8 8 16 up to 8 characters	<b>Ducking</b> Type Priorities Threshold Depth Release Controls 16 channel multi priority selectable 1 (max) to 16 (min) -48 to +18dB 0 to -60dB 1 to 100dB/s Ducker Enable On/Off
<b>Source Patchbay System</b> Selectable physical source for each input and output channel Eliminates the need for a physical patchbay and signal splitters	<b>PEQ</b> <b>Input</b> (x16) PEQ Type Band Type Range Width, Q variable Display Controls 4 band fully parametric HF shelf, LF shelf, Bell, HPF, LPF, notch +/-15dB cut/boost, +/-12dB makeup gain 0.5 to 6, constant Q on/off (notch width 10Hz to 100Hz) frequency response curve, meter in/out, reset	<b>Pager</b> (x2) Type Paging Zone Select Indicators Ducker Depth Controls 2 independent configurable pagers Activated from Front Panel, <b>PL-Anet</b> , MIDI, Sys-Net, <b>iDR-Switch</b> , networked <b>iDR</b> Activated from Front Panel, <b>PL-Anet</b> , MIDI, Sys-Net, <b>iDR-Switch</b> , networked <b>iDR</b> Front Panel, <b>PL-Anet</b> , MIDI, Sys-Net, <b>iDR-Switch</b> , networked <b>iDR</b> 0 to -40dB page mic select, zone select, latching, press to talk, auto cancel
<b>Delay</b> <b>Input</b> (x16) ( <b>iDR-3</b> only) Time Units Temperature  <b>Output</b> (x16) Time Units Temperature 0 to 340ms per channel ms, metres, feet Global Adjust Coefficient for -20 to +40 degrees C  0 to 340ms per channel ms, metres, feet Global Adjust Coefficient for -20 to +40 degrees C	<b>Stereo Linking</b> Adjacent channels can be linked for stereo operation Presents single channel strip Processing Linked Matrix routing Linked Stereo Metering  <b>Metering</b> Input Output Metering Points Input Metering Points Outputs Assignable LEDs Metering Meter styling <b>Mix Matrix</b> Input / Output channel crosspoint (X/P) matrix Switch/gain matrix Matrix size Fader range Controls 16 x 16 -38 to 0dB (-inf shutoff) set, clear, mute, individual, row, column, all 16 freely assignable groups	<b>Audio Monitor</b> Ripple through stereo audio monitor Source Select Manual Monitor Section Follows Mouse / Active Window
<b>Gate</b> (x16) Threshold Depth Attack Hold Release Display Controls -72 to +18dBu 0 to -80dB 20_s to 300ms 50ms to 5s 50ms to 1s Level response curve, gate active, in, out, sidechain meters Gate in/out, sidechain in/out	<b>Output Limiter</b> (x16) Threshold Attack Release Display Controls -20 to +18dBu 40us to 400ms 50ms to 1s level response curve, gain reduction, in, out, meters, time versus reduction histogram in/out, fader	<b>Signal Generator</b> Source variable frequency Range (sine/band) Controls sine wave, white noise, pink noise, band pass pink noise 20Hz to 20 kHz Fader, Mute
<b>Sidechain Filter</b> (x16) Source EQ Switch into either compressor and/or gate 1 Band, type and parameter control as PEQ	