

icon SERIES

Intelligent Consoles

[preliminary information]



⦿ For bands, Duos, Soloists and Cabaret artists

⦿ For Live Venues, Clubs and Theatres

⦿ For Schools and Houses of Worship

⦿ For AV and PA Rental

The **icon series** provides a revolutionary new set of tools for live performances and venues. Icon consoles are designed to be easier to use than traditional analogue mixers. They also come with an arsenal of powerful extra features, plus the instant recall of settings and remote control capability that only digital consoles can offer. No performer wants to waste valuable time resetting the mixer every night. No venue owner wants to see performers with their backs to the audience, making changes to the audio system. Icon mixers are like an audio engineer in a box - letting the artist concentrate on the performance.



↓ Introducing **ICON**

The icon series represents the first affordable fully programmable digital mixer for performing artists and small venues - nothing else can offer you the same standard of live performance control. DL1000 and DP1000 combine a 10 input, 4 output mixer with powerful 4 band parametric EQ, gates, compressors, dual stereo FX, 10 band graphic EQ, protection limiters and programmable memories - all in a compact, stylish format. DP1000 also gives you a configurable 600w into 4ohms stereo power amplifier.

↓→ Going Digital

The unique icon performance memory system lets you program the perfect settings for each of your songs. Song memories can be assembled into sets and recalled in sequence by footswitch, pushbutton or MIDI.

The pre-programmed sequence can be manually overridden at any time, e.g. for special requests. A special 'pause' patch with footswitch configures setting for intermission or between-song requirements (e.g. reduced reverb, levels lowered, instruments muted).

Just as every song has its own individual characteristics, so every venue has distinct audio requirements. Icon lets you create, store and recall the setting for every venue that you play in, independent of the song memories.

You will probably want to pre-program your icon mixer during rehearsals, but it is still easy to adjust and store settings during performances - you are always in control.

↓→ The Icon Interface

The uncluttered icon control surface is designed for quick, intuitive operation. Key controls such as channel gain knobs, long travel faders, mute buttons, headphone monitoring and amplifier volume knobs are all instantly accessible. Instead of endless complex menus, icon consoles are centred around a strip of rotary controls and a large display

screen. For example, the rotary strip can be a channel EQ, whilst the screen gives you a dynamic display of the frequency response. Or the strip can be the channel sends, with a display of level bars, and so on. A single button press gets you into the function you want. The control surface is backlit for rapid recognition in low light conditions.

↓→ FX

Effects control is a fundamental part of live performance. Icon gives you 2 built-in stereo effects processors. You might want to add an effect such as chorus or echo on an instrument or vocals and then to add reverb independently to several sources. Effects are returned to the mix via dedicated channels with 100mm faders, mutes and headphone monitoring. Each processor has a footswitch input, letting you turn effects on or off during a performance. Over 80 FX

presets are provided. You can edit these to perfectly fit your needs, with control of up to 4 parameters for each. Signal dynamics including noise gates and compressors can be set for each input. These can be used both for problem solving such as silencing noisy keyboards or compressing wide vocal dynamics, or for effects such as heavily gating a drum or compressing a bass.



↕→ Icon Inputs

The 8 input channels present unique flexibility. The 6 mono channels offer balanced mic inputs on XLR's, globally switchable phantom power and line inputs on TRS jacks. The 2 stereo channels are designed to maximise your input capability - each has 2 jack inputs and 2 phonos. These

are mixed together, allowing you to feed two sources to the same channel. For example, you might want to use a keyboard and a voice module, or a stereo instrument for performance and a CD player for intermission playback. Alternatively the stereos can be used as extra XLR mic inputs when you just want 8 mic channels.

↕→ Amps

The DP1000 dual power amplifier can be set up for stereo PA, mono PA with foldback, or for dual foldback. You can save the configuration as a part of your venue memories, along with your graphic EQ settings tuned to deal with problem room acoustics, so you can instantly recall the right configuration next time you play that venue. DP1000's built-in power amplifier includes protection limiting along with power-up DC and over-heating protection. The amplifier is cooled by a sophisticated heat management

with a multi-speed fan. DL1000 gives you a pair of level trimmed balanced XLR outputs to feed an external amplifier while DP1000 includes speakon connectors for its amp outputs. You can drive additional amplifiers from the main, mono, aux and slave outputs for setting up additional monitors, fill and sub-base systems, or for driving the PA when you are using DP1000's built-in amps for foldback.

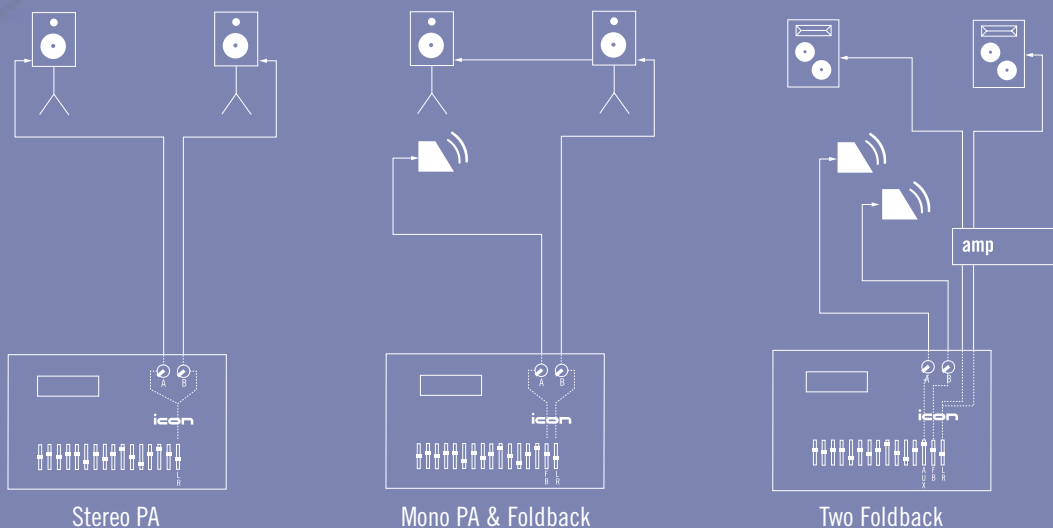
↕ Recording

Icon mixers give you a stereo recording output on phonos - ideal for making tapes of your performances or for recording demos and backing tracks.

↕ Mixer protection

Icon consoles give you a standby switch that mutes the speakers and all outputs and locks the control panel to prevent tampering when you leave your mixer unattended or want to replug the equipment.

↕ Icon Applications



↘→ ICON Specifications

Odbu = 0.775 volts rms OdBV = 1 Volt rms

Maximum output level

| | |
|--------------------------|-------------------------|
| Jack | +18dBu into 2k ohm load |
| Phono | +10dBu |
| Internal headroom | +18dBu |
| Converter spec. | A/D converter 20 bit |
| | D/A converter 20 bit |

Frequency response

20Hz to 20kHz +0/-1dB

Total harmonic distortion

THD + noise measured at +14dBu 1kHz
Input to output <0.008%

Crosstalk measured at 1kHz

Inter channel <-90dB

Noise measured rms 22Hz to 22kHz

Mic EIN referred to 150 ohm source -127dBu

Dynamic range

20Hz-20kHz 91dB
A-weighted 94dB

Mains power

DP1000

Internal unit, linear regulated
AC mains input 100 to 240V AC @50/60 Hz
Internally wired to required country voltage
Power consumption 1000W max
Mains fuse rating 100-240V AC use T10A 20mm
220-240V AC use T5A 20mm

DL1000

Internal unit, SMPS
AC mains input 100 to 240V AC @50/60 Hz
Auto sensing voltage selection
Power consumption 35W max
Mains fuse rating 100-240V AC use T500mA 20mm

Icon Ordering References

| | |
|-----------------------------------|-----------|
| Powered Digital Mixer | DP1000 |
| Digital Mixer (unpowered) | DL1000 |
| Options | |
| Rack mount kit (for both mixers): | DL1000-RK |
| DL1000 Carry Bag | AP3521 |
| DP1000 Flight Case | AN3522 |

Dimensions (mm)

| | | | |
|-------------------------|-----------|----------------|-----------|
| Desk mounted | Width 442 | Max Height 170 | Depth 355 |
| Rack mounted (optional) | 483 (19") | 355 | 170 |

Weight

| | |
|--------|------|
| DL1000 | 9kg |
| DP1000 | 18kg |

↘→ Connections



Analogue I/O

Inputs

| | | | | | | |
|------------|--------------------|-----|-----------|--------------------------------------|-----------|-----------|
| Mono 1-6 | Mono mic input | x6 | Connector | XLR pin 2 hot, cold balanced | Impedance | 2k ohm |
| | Mono line input | x6 | | TRS jack tip hot, ring cold balanced | | >30k ohms |
| Stereo 7-8 | Stereo mic input | 2x1 | | XLR pin 2 hot, 3 cold balanced | | 2k ohm |
| | Stereo line input | 2x2 | | TRS jack tip hot, cold balanced | | >30k ohms |
| | Stereo phono input | 2x2 | | RCA phono unbalanced | | >30k ohms |

Outputs

| | | | | | | |
|-------------------|----|---|-----------|----------|-------|---------------|
| Aux and foldback | x2 | TRS jack tip hot, ring cold, imp balanced | Impedance | 2k ohm | Level | -55 to -8dBu |
| Slave A+B | x2 | TRS jack tip hot, ring cold, imp balanced | | <75 ohms | | -31 to +16dBu |
| L&R | x2 | TRS jack tip hot, ring cold, imp balanced | | <75 ohms | | 2k ohm |
| L&R | x2 | RCA phono unbalanced | | 600R | | -31 to +16dBu |
| Headphones | x1 | TRS jack tip L, ring R, on front panel 30 to 600 ohm headphones recommended | | | | -31 to +16dBu |
| Mains power inlet | x1 | Standard IEC 3 pin L, N, E, IEC to moulded plug country dependent | | | | -10dBV |

Digital Mixer

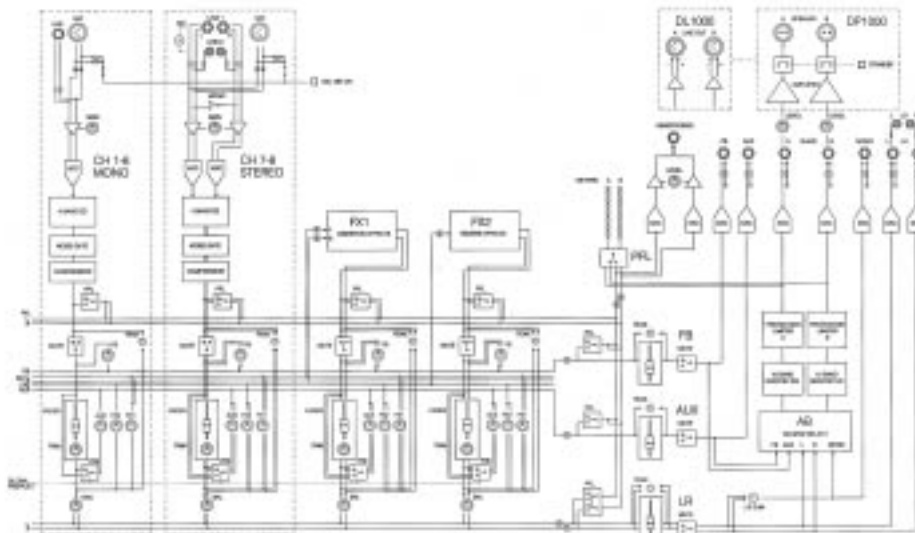
| | | |
|---------------|-----------|---|
| Matrix | In: | 6 mono inputs, 2 stereo inputs, 2 stereo FX returns (internal) |
| | Out: | Aux (pre/post), Foldback (Pre), LR, pfi monitor, AB outputs, AB (switchable, selectable) driven from FB, Aux, LR, L+R |
| | EQ: | 6 mono 4 band parametric EQ, fully swappable with switchable high pass filter, 2 stereo 4 band parametric EQ |
| | Effects: | FX2: Echo/Reverb, FX2: Delay/Echo, Chorus, Flanger, Tremelo, Vibrato, Autopan |
| | Dynamics: | Compressor and gate on all 8 inputs, Protection limiters on A&B outputs |

Power Amplifier (DP1000 only)

| | |
|---------------------|--|
| Output connectors: | 2x Speakon |
| Max power: | 300W + 300W RMS into 4 ohm |
| Frequency response: | THD+N <0.025% @ 1kHz with both channels driven just below clipping into 4ohm |

Speaker protection circuitry
Multi-speed fan

Block Diagram



ALLEN & HEATH
Kernick Industrial Estate,
Penryn, Cornwall TR10 9LU.
T: +44 (0)1326 372070 F: +44 (0)1326 377097
<http://www.allen-heath.com>



The ICON DP1000/DL1000 complies with the European Directives for Electromagnetic Compatibility 89/336/EEC & 92/31/EEC

A Harman International Company