



 **Xone:series**  
PROFESSIONAL DJ PRODUCTS

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Allen & Heath has been designing and engineering innovative, high performance live sound and studio mixers for over 40 years. We applied these skills to DJ mixers in 1999, and more than a decade later Xone Series mixers are recognised as the industry standard for robust construction, innovation, and audio fidelity. The introduction of the new DB series has firmly placed Xone products at the cutting edge of DJ performance with their innovative use of digital technology.

From the entry level Xone:22 to the club standard Xone:92, from the ingenious Xone:K2 Universal MIDI Controller to the new Xone:DB4 and :DB2, every Allen & Heath Xone product is designed with the attention to detail that produces great-sounding, reliable instruments that give years of service.

We're proud to say that there's a Xone to suit every DJ and every style – from professional club DJs to working mobile DJs and electronic music fans. Xone has fully recognised the digital DJing revolution, but hasn't lost sight of DJs wanting to use traditional mixing techniques.

Xone – used by the best DJ's and clubs in the world.

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# XONE:DB4

ULTIMATE PROFESSIONAL CLUB DJ FX MIXER

The Xone:DB4 is a truly ground-breaking mixer and by far the most advanced product that we have designed. Every feature has been meticulously researched with a view to offering DJs ultimate creativity. Based on the iLive pro-touring FX system, we developed FX algorithms with BPM conscious parameters and tight spectral control, customised to perfectly fit the DJ environment.

As the loops and FX are automatically synchronised to the tempo of the track, it is very easy to build some amazing grooves and soundscapes without problems of latency, low fidelity and the general hassle often associated with using software and laptops.

The flexible input matrix allows any audio source to be selected on any or all of the channels. Different processing can be applied to the same track on separate channels and you can fade between them, or a phrase sampled in the looper of one channel can be added to the mix later in the track. Our digital design team has done an incredible job to ensure that this is one of the most innovative and exciting DJ mix tools to date.



## Quad FX Core

The heart of the Xone:DB4 is the powerful Quad FX Core DSP engine, enabling each channel to have its own FX bank and BPM detection system, which automatically adjusts all time-related FX and loops to the tempo of the music.

There are 5 studio quality FX types optimised for DJ use - delays, reverbs, modulators, resonators and damage - plus each FX type has a library of different effect variations.

Each FX bank has a dedicated expression control and a rotary pot to set the wet/dry level, whilst further tweaking can be performed using the global controllers in the FX master section.

## Features

### Looper

Each channel has a built-in looper, with selectable loop length from 1/16 beat to 4 bars. DB4 will always record the full 4 bars, so the loop can be expanded or shrunk at will.

### Filters

DB4 comes equipped with the Xone dual filter system.

### Source Select

Each music channel can select any of the available stereo music sources: Analogue Line 1-4 (switchable to Phono on 2-3), Digital 1-4 or USB 1-4.

### EQ / Filter

Each music channel has a 3-band EQ that can be configured as standard asymmetric EQ (+6/-26dB), Isolator (+6dB/OFF with a 24dB/octave slope), or reconfigured as a High-Pass/Low-Pass filter system with adjustable resonance. EQ knob pointers change colour to show which type of equalization is active.

### Mic/Line Input

The Mic/Line input has 2-band EQ, gain, cue and mix level. This can also be routed to channel 1 for adding FX.

### Output Patchbay

Booth, record and phones - source selectable and level trim. Booth and main - phase and level trim controls.

### Integral Soundcard

A built-in, high quality (24-bit / 96kHz), multi-channel, fully patchable USB2 soundcard allows replay and recording from audio software for 4 stereo sends and 4 stereo returns.

### USB

User-defined settings such as meter mode, BPM range, USB audio routing scheme and display brightness can be saved to a USB key for recall on another DB4.



### MIDI control

All controls (except Mic and Phones level) send MIDI data and the mixer can double up as a MIDI controller for DJ software via the MIDI shift button, allowing the Loop and FX selection controls to send MIDI data without changing the mixer settings.

### High Visibility Display

The OLED display is clearly visible, even in bright sunlight, and displays channel FX selection and current BPM, as well as being an easy interface for the Menu setup functions.

### Lightweight chassis

DB4's lightweight aluminium chassis is designed to make touring with the console easy.

### X:LINK

X:LINK uses a standard RJ45 connector and distributes power and data allowing connection to X:LINK compatible devices, saving USB ports on your computer.





# XONE:DB2

The Xone:DB range exploits the potential of digital mixer technology to bring you maximum DJ creativity. Flexible and versatile mixer controls with an intuitive layout give the DJ full control over the mix. The DB2 boasts twin FX engines, four stereo channels, full Input matrix, and unique Trimodal EQ system.

With its built in USB soundcard, MIDI control, Xone Filters and X:LINK connectivity, the Xone:DB2 unleashes the DJ's creativity.

The Xone:DB2 captures the essence of DB4 in a stylish, accessible, affordable format and blurs the boundaries between DJing, production and performance for the next generation.

## Twin DSP FX Engines

### Massive FX Library

Boasting a massive FX library of more than 50 FX presets divided into 5 FX types: Delays/loopers, Reverbs, Resonators, Modulators and Damage, Xone:DB2 allows you to dig deep and get hands-on with your music. From subtle FX washes to total transformation of your sound - you're in control.

### Editable FX Parameters

Each FX engine has a dedicated expression control and a rotary pot to set the wet/dry level, whilst further tweaking can be performed using the global controllers under the screen.



## Features

### Input Matrix

Each of DB2's four input channels has a full input matrix that can select from four analogue (Line or RIAA), four USB, or two digital sources, allowing for a wide variety of audio sources to be connected simultaneously. The same source can also be selected on multiple channels.

### Trimodal EQ

Xone:DB2 adopts the fresh approach to creative equalisation introduced on DB4. The EQs can be used in three different modes - standard asymmetric EQ (+6/-26dB), total Kill (+6dB/OFF with a 24dB/octave slope), or High-Pass/Low-Pass filter with adjustable resonance.

### Mic/Line Input

With 2 band EQ, gain, cue and mix level and with full access to FX.

### High Visibility OLED Display

The OLED display is clearly visible, even in bright sunlight, and displays channel FX selection and current BPM, as well as being an easy interface for the Menu setup functions.

### Lightweight chassis

DB2's lightweight aluminium chassis is designed to make touring with the console easy.

### Integral soundcard

The built-in, multi-channel USB2 soundcard allows replay and recording from computer-based audio software for 4 stereo sends and 4 stereo returns.

### MIDI control

All controls (except Mic and Phones level) send MIDI data. The mixer can double up as a MIDI controller for DJ software via the MIDI shift button, which allows the FX selection controls to send MIDI data without changing the mixer settings.

### X:LINK

X:LINK uses a standard RJ45 connector and distributes power and data, allowing connection to X:LINK compatible devices, saving USB ports on your computer.





# XONE:K2

Xone:K2 is a compact, slim line MIDI controller incorporating a 4 channel soundcard, for use with any DJ software.

With 52 hardware controls providing up to 171 MIDI commands across 3 layers – plus the ability to link multiple units using X:LINK – Xone:K2 puts you in control of the functions and features of your chosen software.

## Latching Layers

A Latching Layers system lets you assign controls to multiple layers, so a single physical control can be given up to 3 functions. You can configure all, some or none of K2's controls to be linked to the Latching Layers system. As a quick visual reminder, when toggling through layers all switches assigned to a particular layer will illuminate in the appropriate colour.

- Controls any DJ software
- USB powered
- Built-in 4 Channel 48kHz soundcard
- 52 hardware controls
- 6 endless rotary encoders with push switch
- 4 linear faders
- 30 backlit switches
- 171 MIDI commands
- 3 coloured Latching Layers
- X:LINK connectivity
- Start-up mappings included
- Carry case / stand included



## Features

### MIDI Control

Xone:K2 is a compact designed MIDI Controller for use with any DJ software such as Ableton, Virtual DJ, MixVibes, Mixx and Traktor Pro. Xone:K2 can even be used to control lights or VJ software – if it can receive MIDI data it can take commands from K2. What each control does is entirely up to you - you can create a completely customised layout that perfectly fits the way you want to work. We also provide maps to get you started out the box and information on how to set up your own.

### Audio Interface

Xone:K2 has a high quality internal, four channel (2 stereo) soundcard. Setup options include using the K2 with a pair of headphones, feeding a pair of headphones and a PA system, or connecting to an external DJ mixer.

### Construction

Its slim line chassis, soft touch controls and minimal looks set K2 apart from the pack. There's plenty of substance too – Xone:K2 is built to Allen & Heath's renowned touring grade audio and build quality standards, including the use of steel nuts on all rotary controls to protect the circuitry from impact damage.

### Case / Stand

Xone:K2 comes packed in a black padded case as standard. As well as keeping it safe on the road, the case doubles as a stand, elevating the K2 up to the same height as most pro DJ mixers.

### X:LINK

Two or more K2s can be linked via our X:LINK protocol, expanding the control capability. X:LINK uses a standard RJ45 connector and distributes power and data, allowing connection to X:LINK compatible devices, including Xone:DB4 and DB2, to expand MIDI data without using additional USB ports.





# XONE:4D

Xone:4D is a unique DJ workstation combining a high quality analogue DJ mixer with extended software controller functionality. The 20-channel USB2 soundcard provides multiple routing options, enabling vast capabilities for live recording, sampling and playback. For the DJ who requires extended MIDI control of up to 4 software decks simultaneously, 4D is a luxurious hybrid controller to elevate your performance.



All Xones now feature UV screening for high contrast in low light conditions



## Mixer

- 4 multi-input stereo channels
- Switchable phono or line input stages, RIAA preamps on 3 channels
- Soundcard output routing switches for each channel
- 3-band total kill EQ +6dB to off
- 2 FX sends, FX1 with pre/post selection
- 2 analogue VCF filters - low, band & high-pass, resonance, frequency and 'on' switch
- 2 stereo returns
- BPM LED display
- Headphone monitor (3.5mm and 1/4" sockets) with mix/cue control
- Assignable LFO editable waveform
- Mic input on XLR with level control and 2-band EQ, routable directly to soundcard

## USB 2.0 Soundcard

- 20 channel 96 kHz/24-bit USB 2.0
- PC and Mac drivers
- 10 in/10 out (4 analogue + 1 digital stereo inputs and outputs)
- Soundcard inputs fed from mic, FX1, FX2, main mix or stereo channels 1-4 pre or post fade

## MIDI Control:

- Total of 227 mappable MIDI messages can be sent from select mixer controls
- Shift mode function for double layer
- Compatible with any software that has MIDI assignable functions
- 105 MIDI controls, including dedicated MIDI sections containing:
  - 8x60mm linear faders
  - 16 detented rotary pots
  - 10 rotary encoders
  - 50 switches
  - 2 jog wheels
  - 8 illuminated push switches





# XONE:92

The industry-standard Xone:92 is a versatile six channel analogue mixer, renowned for its expansive, involving sound. With its solid construction and easy to use interface, the 92 is on the riders of most of the world's top DJs and is a permanent fixture in the booth at many of the biggest superclubs.

The Xone:92 was one of the first professional DJ mixers to incorporate MIDI for control of DJ software or external devices, and the first to include the innovative dual VCF filters. With its two stereo FX sends, twin Mic/returns, and one of the best EQ sections around, this mixer is a DJ's dream tool.

For those who prefer to blend with rotary faders the Xone:92R is also available.



## Features

- 6 dual stereo channels - 4 phono/line, 2 mono/mic or stereo return
- 2 independent stereo mix outputs
- 2 aux sends for output to external FX units
- VCF system - 2 independent stereo filters with frequency and resonance controls
- 2 independent LFO's for filter manipulation
- 4-band EQ - total kill on HF and LF, wide Q for cut, narrow Q for boost
- Booth output - dedicated output on TRS jack
- MIDI values can be output from 6 controls (e.g. crossfader, LFO)
- P&G easy change professional VCA crossfader
- Illuminated lightpipes showing status of performance controls
- Intelligent cue for pre or post EQ monitoring
- Monitor section includes post EQ switch, split cue and mix to cue balance
- 2 headphone outputs (1/4" and 3.5mm)
- Ducking control on mono/mic channel





# XONE:62

Xone:62 is a classic favourite renowned for superb audio quality, phenomenal VCF filters and creative 4-band EQ. The 6 dual stereo inputs, clear layout and ease of use quickly established the Xone:62 as the mixer of choice for many of the world's greatest DJs and club installs. If you need dependability and a sound that will elevate your mixes to the next level, get the Xone:62.



## Features

- Stereo aux send with pre/post switching
- VCF system - 2 stereo filters with frequency and resonance controls
- 4-band EQ with +6dB and -26dB cut
- P&G easy change professional VCA crossfader
- Monitor section - independent per-channel cue selection, split cue and aux
- Mix outputs on balanced XLR
- Independent booth output
- Stereo recording output
- Desk, custom rack or 19" rack mount
- High performance internal switch-mode power supply





# XONE:42

This progressive 4 -channel DJ mixer is designed for DJs of all abilities and experience from top pro DJs to bedroom enthusiasts who want a compact quality mixer with pro features to mix any source - whether vinyl, CD or MP3.

The USB port allows easy connection to a computer and the integration of digital media, which can be used to play back music files from a laptop, record mixes, or used with music software.

The revolutionary 'X-FX' control allows easy signal routing to external FX in combination with the Xone VCF filter system. Brimming with features, this compact mixer is a favourite in many DJ studios, bars and clubs.



## Features

- 4 dual stereo channels (2 phono/line, 2 line/line)
- 3 band EQ +6dB to total kill
- Rotary X-FX control for routing to external FX
- VCF filter with resonance & frequency controls
- VCA Crossfader with curve control
- Mix outputs on balanced XLR
- 9 segment channel meters
- Illuminated lightpipes showing status of performance controls
- USB port with one stereo up to PC and one stereo back
- Independent booth output
- XLR microphone input with 2-band EQ and level control
- 2 headphone outputs (1/4" and 3.5mm)
- Rack ears available





# Xone:22

Xone:22 effortlessly raises the bar on entry-level mixer design, offering top quality audio and a professional feature set usually only found in the booth of a top-rated club, all at a stunningly affordable price.

Equipped with Allen & Heath's characteristic sound and build quality, this is the first time a DJ mixer at this level has incorporated professional grade features such as total kill EQ, accurate metering, balanced outputs, high quality faders and professional-standard audio headroom. And to top it all off, there's a "lite" version of Xone's now legendary VCF filter system.



## Features

- 2 stereo channels with configurable dual phono/line inputs
- VCF system - low-pass and high-pass filters, frequency and resonance controls
- 3-band full cut EQ
- Soft-switched external FX loop
- 18dB pro standard headroom and low audio distortion
- Main mix output on balanced XLR, 25dBu maximum output level
- Signal monitoring with 10-segment LED meters and meter mode selection
- Cue mix control, and cue to master switch
- Dedicated local monitor output (booth output)
- Record output
- MIC input on balanced XLR, with 2-band EQ
- Crossfader curve switch
- Universal voltage external power supply





# XONE:S2

The Xone:S2 is the answer to club installers' and bar owners' prayers. In addition to the renowned Xone audio and build quality, S2 is packed with features to save venues time, money and hassle. Top of the list is a built-in output level limiter. Once the limiter has been set to the desired maximum level (via the recessed control on the rear panel), the venue owner can relax, knowing that no matter how much the DJ winds up the gain the output will remain constant. This feature alone makes S2 perfect for venues in environmentally sensitive areas, or where less experienced DJs are booked.

Xone:S2 also has a remotely controlled Zone output, enabling staff to independently adjust the level in a separate area of the venue (e.g. in a bar area or lounge). If needed, the manager can even control the entire mix output from their office.

The Xone:S2 also includes circuitry to interface to alarm systems that mute the music channels if triggered, but still leave the Microphone channels open for safety announcements. A separate input for pre-recorded announcements, such as evacuation messages, is also included.

A separate Mono output with a switchable low-pass filter eliminates the need for a separate cross-over if you want to feed a sub-bass system. The USB audio interface enables playback and recording to or from a PC/MAC, or can be used to create an FX loop.



## Features

- 4 stereo music channels
- 2 Mic inputs with inserts (switchable to line)
- Output Limiter system
- USB audio send/return
- Xone Filter system
- 3 Band Total Kill EQ (+6dB/Off)
- Remote control Zone feed
- Alarm Interface
- Tamper proof input level trims
- Master Insert point
- Booth output
- Mono Feed with Sub-bass filter
- Front panel Auxiliary stereo input
- Linear or Rotary faders



Rotary Option Available

Xone:S2 is the ultimate installation DJ mixer for clubs, bars and professional mobile rigs, and the perfect complement to any PA system.





# XONE:464

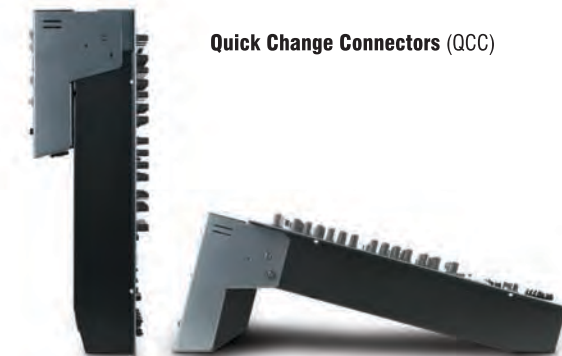
Here's where it all started. As the first model in the range, the Xone:464 paved the way with superior sound and build quality never seen before in a DJ mixer. A dedicated club mixer, designed to please both club technicians and the performing DJ, its combination of versatility and fine craftsmanship mean it is still the first choice for venues where DJs and engineers are serious about their music.

It shares the same solid construction as Allen & Heath's pro touring desks, so venues can depend on it for outstanding audio and reliability, whilst the renowned Xone analogue filters and 4-band asymmetric EQ make it an incredibly creative tool for DJs to enjoy. The 4 fully-featured mic/line inputs mean live performers can join the mix, adding a new dimension to the stunning feature set.



## Features

- 4 fully-featured mono/mic performance channels with 100mm faders
- 6 dual stereo channels with RCA and TRS sources on each channel
- 2 independent outputs on XLR or TRS, with full metering
- 6 aux sends from every channel for monitors or FX sends
- 4 stereo, 2 mono zone outputs with rotary control
- VCF system - 2 independent stereo filters with frequency and resonance control
- 4-band EQ with +6dB and -26dB cut
- 2 headphone outputs, split cue, mono sum button, booth output
- P&G easy change professional VCA crossfader
- Comprehensive booth monitor system
- Sys-Link option to connect to other A&H mixers
- Desk or 19" rack mount



Quick Change Connectors (QCC)



# XONE XD2-53



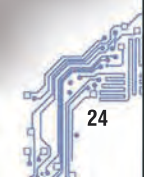
Like Allen & Heath's Xone series mixers, Xone headphones are the first choice for many of the world's top DJs.

The XD2-53s have a circumaural design, providing excellent isolation from ambient noise, making them ideal for DJs working in loud environments. The 53mm drivers deliver an extremely high performance, with an extended low frequency response.

The rotating earpieces with soft earpads allow easy one-ear monitoring and the adjustable, metal reinforced headband ensures excellent wearing comfort. Xone XD2-53s come in a stylish new gunmetal finish and feature a detachable coiled cable.

## Features

- ▣ Designed to excel in high noise DJ booth environments
- ▣ Touring grade build quality, including metal reinforced headband
- ▣ 53mm diameter drivers with high power neodymium magnet design
- ▣ Detachable coiled cable with 3.5mm connector and 1/4" jack adaptor
- ▣ 3500mW power handling
- ▣ Rotating earpieces for easy one-ear monitoring
- ▣ Long listening comfort
- ▣ Folding design for portability
- ▣ Carry pouch included





# XONE:PB

PATCH BAY

Designed to simplify changes in busy club line ups, the Xone:PB is a passive interface box providing a quick and easy solution for connecting digital vinyl control systems (DVS) and DJ sound cards.

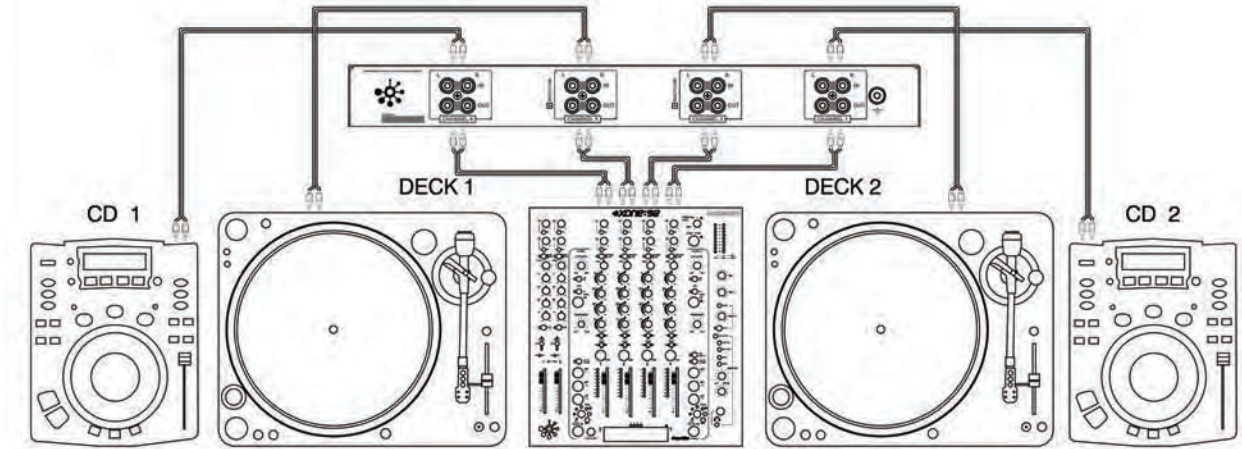
Eliminating the need to re-patch the installed mixer every time a DJ wants to use a DVS system, a patch bay quickly becomes an essential facility, keeping the booth free of excess cabling and helping to improve system integrity.

## Features

- Two switchable inverse RIAA filters, enabling line level sources to be connected to the phono preamplifiers of the mixer
- Common mode noise attenuation filtering on all external inputs to help reduce laptop power supply noise
- Earth lift switch to help prevent ground loops
- 1U rack size



## Typical Setup:



PATCH BAY



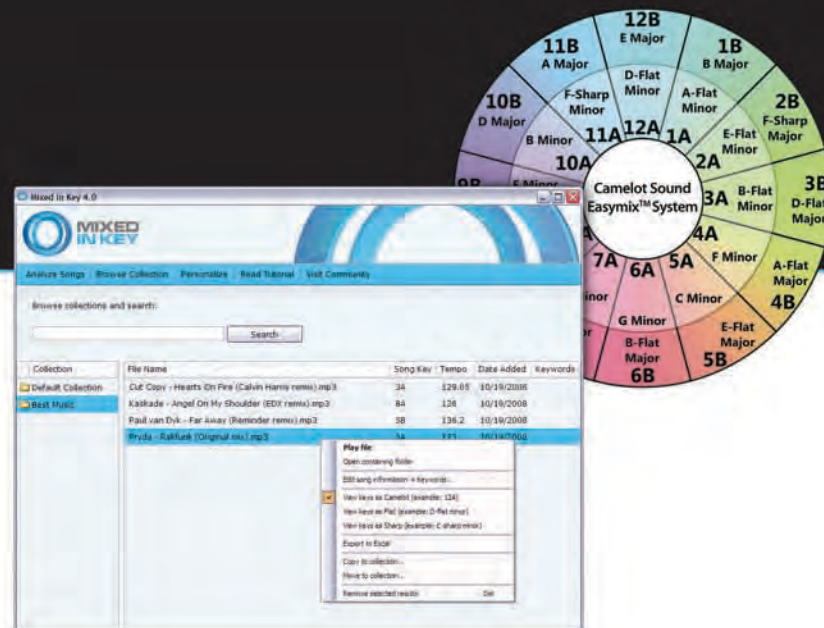


## Improve Your DJ Sets

Mixed In Key is software created for the world's best DJs. With its user-friendly design and trusted technology, Mixed In Key makes harmonic mixing easy.

Mixed In Key takes your mixing to the next level by showing which songs you can mix together without a key clash. It works with all CD decks, Ableton Live, Traktor, Serato Scratch Live, and all other mixing software and hardware. Your DJ sets will always sound smooth and professional.

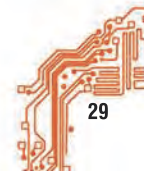
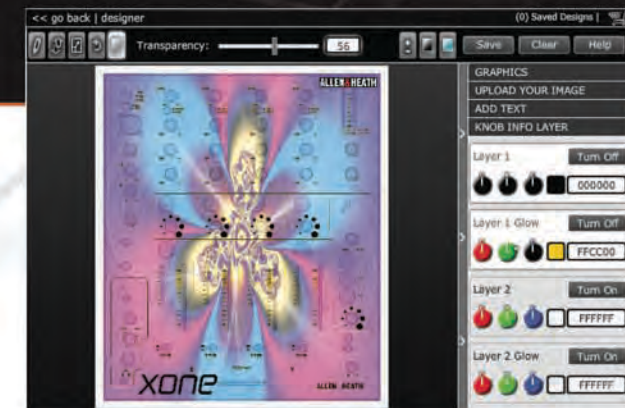
To find out more about Mixed In Key visit: <http://xone.mixedinkey.com/>



## Flip your style with StyleFlip

Allen & Heath has teamed up with Styleflip and is proud to bring a whole new world of style to your gear. You upload your own custom designs and images and create your very own, unique style that sets you apart from the rest. Once you finish the design process your image will be transformed into a one of a kind, sophisticated, protective layer that becomes one with your gear until you decide to change it up with something fresh.

To find out more about StyleFlip visit: <http://www.allen-heath.com/xone/styleflip>





# Technical Specifications



|   | Xone:DB4                       | Xone:DB2                       | Xone:4D                            | Xone:92                              | Xone:62                  | Xone:42                  | Xone:22                  | Xone:S2                  | Xone:464                          |
|---|--------------------------------|--------------------------------|------------------------------------|--------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------------------|
| <b>Operating Levels</b>                   |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Main Outputs                              | +4dBu Headroom +20dB           | +4dBu Headroom +20dB           | +4dBu XLR Headroom +22dB           | +4dBu Headroom +20dB                 | +4dBu Headroom +22dB     | +4dBu nominal            | +4dBu Headroom +21dB     | +4dBu Headroom +22dB     | +4dBu Headroom +22dB              |
| Booth Output                              | -2dBu Headroom +22dB           | -2dBu Headroom +22dB           | 0dBu Jack Headroom +22dB           | -2dBu Headroom +22dB                 | -2dBu Headroom +22dB     | -2dBu nominal            | -2dBu Headroom +18dB     | -2dBu Headroom +22dB     | -2dBu Headroom +22dB              |
| Effect Send output                        | N/A                            | N/A                            | +4dBu Headroom +22dB               | +4dBu Headroom +22dB                 | +4dBu Headroom +22dB     |                          | +4dBu Headroom +18dB     | -2dBu Headroom +22dB     | -2dBu Headroom +22dB              |
| Maximum output                            | +25dBu                         | +25dBu                         | +26dBu                             | +25dBu                               | +26dBu                   | +27dBu XLR               | +25dBu                   | +26dBu                   | +26dBu                            |
| Mic Pre-Amp Sensitivity                   | -45 to -10dBu                  | -45 to -10dBu                  | -45 to -15dBu                      | -45 to -10dBu                        | -45 to -20dBu            | -58 to -26dBu            | -42 to -12dBu            | -57 to -27dBu            | -58 to -8dBu                      |
| RIAA input sensitivity                    | 4-180mV 47K/330pF              | 4-180mV 47K/330pF              | 7-100mV 47K/330pF                  | 4-180mV 47K/330pF                    | 7-100mV 47K/330pF        | 6mVPP -190mVPP           | 7-100mV 47K/330pF        | 7-100mV 47K/330pF        | 7-100mV 47K/330pF                 |
| Stereo Line input sensitivity             | -20 to +10dBu                  | -20 to +10dBu                  | -10 to +8dBu                       | -20 to +10dBu                        | -10 to +8dBu             | -20 to +10dBu            | -10 to +18dBu            | -10 to +15dBu            | -10 to +8dBu                      |
| <b>Frequency Response (20Hz-20kHz)</b>    |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Mic to Main output                        | +0/-0.5dB                      | +0/-0.5dB                      | +0/-12dB(lo-cut filter)            | +0/-10dB (low cut filter)            | +0/-0.5dB                | +/-0.6dB built in lo-cut | +0/-12dB(lo-cut filter)  | +0/-12dB(lo-cut filter)  | +0/-1dB                           |
| Line to Main output                       | +/-0.5dB                       | +/-0.5dB                       | +0/-2dB                            | +/-0.5dB                             | +0/-0.5dB                | +/-2dB                   | +0/-3dB                  | +0/-5dB                  | +0/-0.5dB                         |
| <b>Distortion at 1KHz +0VU out</b>        |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| THD + Noise (mic in +40dB gain)           | <0.04%                         | <0.04%                         | <0.04%                             | <0.02%                               | <0.02%                   | <0.01%                   | <0.01%                   | <0.05%                   | <0.02%                            |
| THD + Noise (line in 0dB gain)            | <0.005%                        | <0.005%                        | <0.02%                             | <0.03%                               | <0.03%                   | <0.003%                  | 0.004% (+10dBu)          | <0.05%                   | <0.008% (crossfader not routed)   |
| <b>Common Mode Rejection @1kHz</b>        |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Mic in +40dB gain                         | >-55dB                         | >-55dB                         | >-50dB                             | >-76dB                               | >-76dB                   | -76dB                    | >-50dB                   | -76dB                    | >-72dB                            |
| <b>Crosstalk @1kHz</b>                    |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Adjacent Channel                          | <-90dB                         | <-90dB                         | <-90dB                             | <-90dB                               | <-90dB                   | <-90dB                   | <-70dB                   | >-72dB                   | <-90dB                            |
| Mute Shutoff                              | N/A                            | N/A                            | N/A                                | N/A                                  | N/A                      | <-90dB                   | N/A                      | N/A                      | <-80dB                            |
| Fader Shutoff                             | Infinite                       | Infinite                       | <-90dB                             | <-95dB                               | <-80dB                   | <-90dB                   | <-72dB                   | <-86dB                   | <-86dB                            |
| <b>Noise Performance</b>                  |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Mic EIN with 150ohm source                | 125                            | 125                            | -126dB                             | -126dB                               | -126dB                   | -125dB                   | -118dB                   | -125dB                   | -128dB                            |
| Residual output noise - main outputs      | <-95dBu un-weighted            | <-95dBu un-weighted            | <-97dBu                            | <-95dBu                              | <-94dBu                  | <-94dBu                  | <-90dBu                  | <-90dBu                  | <-90dBu                           |
| Main Mix noise (Line in to Mix out unity) | <-81dBu (85dB S/N) un-weighted | <-81dBu (85dB S/N) un-weighted | <-80dBu (84dB S/N)                 | <-80dBu (84dB S/N)                   | <-80dBu (84dB S/N)       | <-82dBu (-86 s/n)        | <-82dBu (86dB S/N)       | <-73dBu (77dB S/N)       | <-80dBu (84dB S/N)                |
| <b>Connection Impedances</b>              |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Mic Inputs                                | <2K ohms                       | <2K ohms                       | <2K5 ohms                          | <2K ohms                             | <2K ohms                 | <2K ohms                 | <2K ohms                 | <2K ohms                 | <2K ohms                          |
| Line Inputs                               | 10K ohms                       | >15K ohms                      | >15K ohms                          | >15K ohms                            | >15K ohms                | >15K ohms                | >10K ohms                | >10K ohms                | >10K ohms                         |
| Outputs                                   | 47R                            | 47R                            | <47 ohms                           | <47 ohms                             | <47 ohms                 | <75 ohms                 | <68 ohms                 | <68 ohms                 | <47 ohms XLR 68 ohms Jack         |
| Record out                                | 47R                            | 47R                            | N/A                                | 600ohms +15dBu max                   | 400 ohms +15dBu max      | 600ohms                  | 600ohms +15dBu max       | 600ohms +15dBu max       | 600ohms +15dBu max                |
| <b>Equalisation</b>                       |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Gain each band Stereo EQ                  | +6dB (Timodal EQ)              | +6dB (Timodal EQ)              | +6dB/off 3 band                    | +6dB/-inf(LF/HF) +6dB/-30(MF) 4 band | +6dB/-26dB 4 band        | +6dB / off 3-band        | +9dB / off 3-band        | +6dB / off 3-band        | +6dB/-26dB 4 band                 |
| Gain each band Mono mic EQ                | +/-15dB                        | +/-15dB                        | +/-12dB                            | +/-15dB                              | +/-15dB                  | +/-12dB 2-band           | +/-12dB                  | +/-12dB                  | +/-15dB semi parametric 4 band    |
| Filter                                    | 20Hz-20KHz Dual VCF            | Twin sweepable filters         | 30Hz-20KHz Dual VCF with LFO       | 30Hz-20KHz Dual VCF with LFO         | 100Hz-20KHz Dual VCF     | 30Hz - 20KHz             | 30Hz-20KHz VCF           | 30Hz-20KHz VCF           | 100Hz-20KHz Dual VCF              |
| <b>Metering</b>                           |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Reading referred to Main outputs          | 0VU = +4dBu (13 point)         | 0VU = +4dBu (13 point)         | 0VU = +4dBu (9 pt ch, 9 pt master) | 0VU = +4dBu (9 point ch & master)    | 0VU = +4dBu              | 0VU = +4dBu              | 0VU = +4dBu (10pt)       | 0VU = +4dBu (9pt)        | 0VU = +4dBu (3pt ch, 12pt master) |
| Peak indication threshold                 | 3dB before clipping            | 3dB before clipping            | 10dB                               | 6dB before clipping                  | 6dB before clipping      | +10dB                    | 10dB before clipping     | 10dB before clipping     | 6dB before clipping               |
| <b>System</b>                             |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| Power supply                              | Internal Universal input       | Internal Universal input       | Internal Universal input           | Internal Universal input             | Internal Universal input | Internal Universal input | External Universal input | Internal Universal input | Internal Universal input          |
| Power Consumption                         | 30W Max                        | 30W Max                        | 30W Max 20W nominal                | 35W Max 18W nominal                  | 30W Max 15W nominal      | 30W max                  | 15W                      | 30W Max 20W nominal      | 30W Max 20W nominal               |
| <b>Connections</b>                        |                                |                                |                                    |                                      |                          |                          |                          |                          |                                   |
| XLR Inputs                                | Pin1 = ground, pin 2 = + phase | Pin1 = ground, pin 2 = + phase | Pin1 ground, Pin 2 hot             | Pin1 = ground                        | Pin3 = -ve polarity      | Pin1=ground, Pin2=hot    | Pin1=ground, Pin2=hot    | Pin1 = ground            | Chassis = chassis                 |
| XLR Outputs                               | Pin1 = ground, pin 2 = + phase | Pin1 = ground, pin 2 = + phase | Pin1 ground, Pin 2 hot             | Pin1 = ground                        | Pin3 = -ve polarity      | Pin1=ground, Pin2=hot    | Pin1=ground, Pin2=hot    | Pin1 = ground            | Chassis = chassis                 |
| 1/4" TRS Jack, Balanced Input             | N/A                            | N/A                            | N/A                                | sleeve = ground/chassis              | Ring = -ve polarity      | N/A                      | N/A                      | sleeve = ground/chassis  | N/A                               |
| 1/4" TRS Jack, Balanced Output            | sleeve = ground tip = +phase   | sleeve = ground tip = +phase   | N/A                                | sleeve = ground/chassis              | Ring = -ve polarity      | N/A                      | N/A                      | sleeve = ground/chassis  | N/A                               |
| 1/4" TRS Jack, Insert Send                | N/A                            | N/A                            | N/A                                | sleeve = ground/chassis              | Ring = return signal     | N/A                      | N/A                      | sleeve = ground/chassis  | N/A                               |
| 1/4" TRS Jack, Insert Return              | N/A                            | N/A                            | N/A                                | sleeve = ground/chassis              |                          | N/A                      | N/A                      | sleeve = ground/chassis  | N/A                               |
| RCA Phono                                 | Outer = ground                 | Outer = ground                 |                                    | Outer = ground/chassis               |                          | outer audio ground       | outer audio ground       | Outer = ground/chassis   |                                   |

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