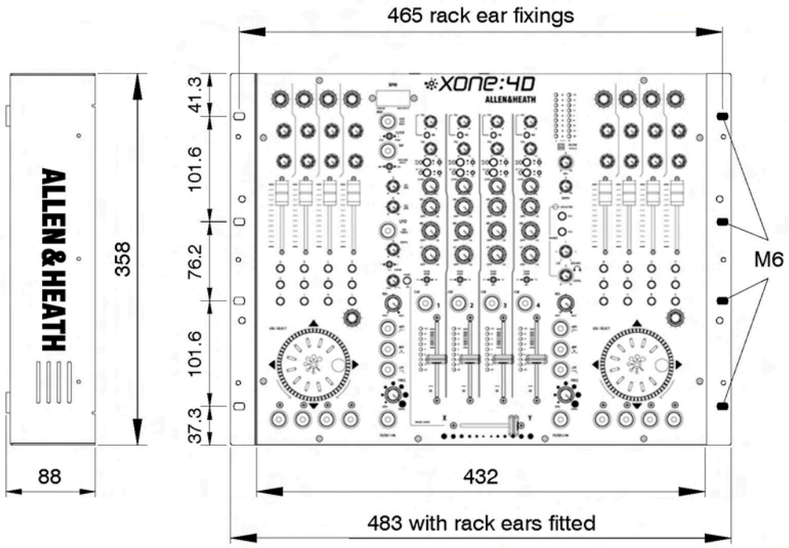
XONE:4D

Technical Specifications

Main outputs	+4dBu XLR
Monitor	0dBu RCA
FX sends	-2dBu RCA
Maximum output level	+26dBu
Mic Sensitivity	-45 to -15dBu
RIAA input sensitivity	7-100mV 47K/330pF
Frequency response Line in to Mix out	20 Hz to 30KHz +0/-2dB
Distortion at 1kHz Line in at +0Vu out	<0.02%
Main Mix noise 22Hz— 22KHz unweighted	<-80dBu (84dB S/N)
Residual Mix noise22Hz— 22KHz unweighted	<-97dBu
Equalization	3-band +6dB/off (kill), 120Hz, 1.2kHz, 10kHz
Fader Shutoff	<-90dB

	Width	Height	Depth	Weight
Desktop	432 mm (17”)	88 mm (3.5”)	358 mm (14”)	5kg (11 lbs)
Rack ears fitted	483 mm (19”)	88 mm (3.5”)	358 mm (14”)	
Packed	575 mm (22.6”)	195 mm (7.7”)	490 mm (15.7”)	6 kg (13.2 lbs)



XONE:4D

DJ PERFORMANCE CONTROLLER

with MIDI and multi-channel USB soundcard

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XONE:4D

The XONE:4D has evolved from our class-leading, revolutionary XONE:3D, the unique performance DJ controller.

The Xone:4D enables the seamless integration of computer-based digital media into the traditional DJ workspace, with an enhanced feature set. It combines a fully featured, high specification professional analogue DJ mixer with 105 MIDI controls with a completely new, 96 kHz / 24-bit, 20 channel Allen & Heath-developed USB 2.0 soundcard. The progressive XONE:4D has been developed in conjunction with some of the world's most cutting-edge DJ/producers.

FEATURE LIST

MIXER:
- 4 multi-input stereo channels
- Switchable phono or line input stages, RIAA phono preamps on 3 chs
- Soundcard output routing switches for each channel
- 3-band total kill EQ - +6dB to off
- 2 FX sends with pre/post selection
- 2 analogue VCF filters
- 2 stereo returns
- Assignable LFO and editable fader step-filter function
- Headphone monitor with mix/cue control, 3.5mm and 1/4" sockets
- Mic input on XLR with level control and 2-band EQ, routable straight to soundcard
- High performance internal switch-mode PSU
- New BPM detection circuit

USB 2.0 SOUNDCARD:
- 20 channel 96 kHz / 24-bit USB 2.0 (480Mbit/s)
- Drivers available for PC and Mac
- 10 in/10 out (4 st in + optl in/4 st out + optl out)
- Soundcard inputs fed from Mic, FX2, FX1, main mix or st ch 1-4
- Soundcard outputs
- FX2 RCA record output

227 Mappable MIDI messages
- Dedicated MIDI controls
  (shift function doubles messages available)
  - 8 x 60mm linear faders
  - 16 detented rotary pots
  - 10 rotary encoders, 50 switches,
  - 2 custom jog wheels with 4 micro switches
  - 8 illuminated push switches
- Selected mixer controls send MIDI messages

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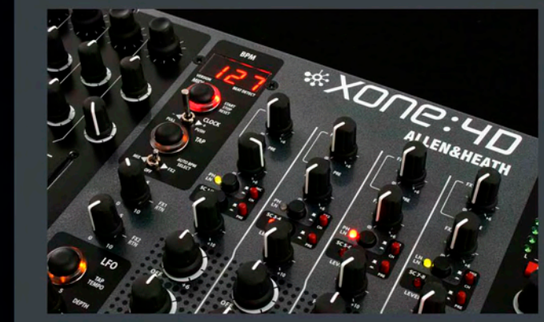
Mixer
The mixer section is based on the award-winning Xone:92 and features 4 triple-input stereo channels, 3 band total kill EQ, 2 stereo effects sends, 2 VCF filters with LFO, VCA crossfader and dual-rail channel faders, DJ mic and cue monitoring system.

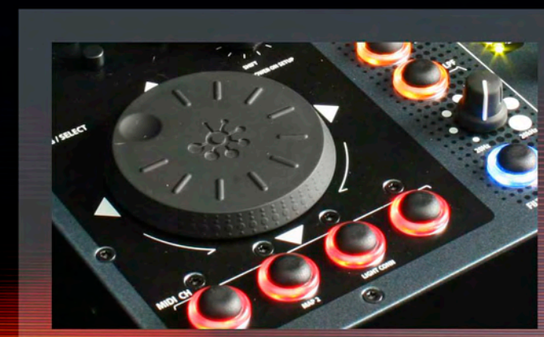
The assignable LFO has an editable step-filter function, encouraging creative combinations of the tempo-detecting BPM counter and tap tempo. Each MIDI fader becomes a filter cut-off frequency, enabling users to "draw" their own tempo-locked LFO waveform.

A new BPM section includes a 16-bit tempo detecting circuit, which constantly monitors the BPM and outputs a MIDI clock to help synchronize MIDI-controlled music replay software with external source program material.

Stereo FX sends can be used with external equipment such as effects units and samplers and both FX sends can be routed to the USB audio system and sent to the PC. The FX2 hardware output can be switched to act as a Main Mix record output.

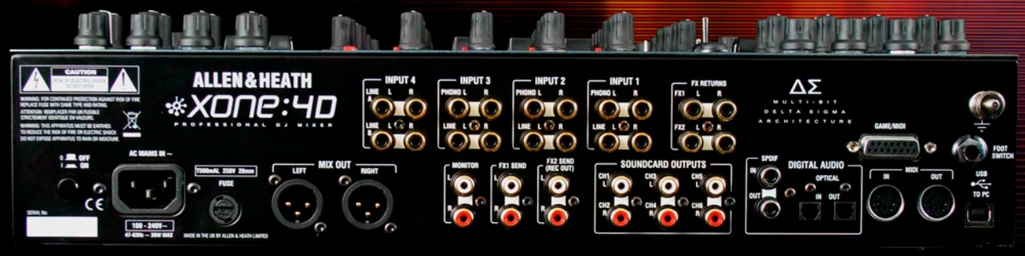
MIDI controller
The Xone:4D provides full control of external MIDI devices including the most sophisticated DJ performance computer environments. There are 105 MIDI controls on the mixer surface, and with the use of the shift function, they allow 227 mappable MIDI messages to be sent. The BPM counter provides MIDI start/stop and clock, while a fader pickup algorithm allows seamless movement between the layers.





USB soundcard
Xone:4D features a 20-channel USB2.0 soundcard, featuring 4 analogue stereo inputs and outputs, transmitting audio at up to 96kHz with 24 bit resolution. It uses USB to interface the mixer audio and MIDI to a PC where the sound may be manipulated in real time using any music software application.

The soundcard also produces SPDIF, COAX and optical digital inputs and outputs. A low latency ASIO driver is provided for audio streaming between the 4D and PC, and each mixer channel has its own soundcard input routing switches, allowing flexible output to or from the PC.



The mixer's front panel offers an XLR microphone input with 2-band EQ control for DJ or guest mic, and 1/4" TRS jack and 3.5mm mini-jack headphone connections.

The build quality remains the same robust individual PCB modular construction and of course, the 4D now stands out from the crowd with its clean new artwork with UV sensitive white legend for outstanding late-night visibility.