

# ALLEN & HEATH



## NOTES:

- Read the Safety Instructions Sheet and Safety Warning information printed on mixer's rear and base panels BEFORE operating.
- For full details, please refer to the XONE:PX5 User Guide online at: [www.allen-heath.com](http://www.allen-heath.com)
- Register your XONE:PX5 with Allen & Heath online at: [www.allen-heath.com/register](http://www.allen-heath.com/register)
- A limited one year manufacturer's warranty applies to this product, the conditions of which can be found in the XONE:PX5 User Guide, and online at: [www.allen-heath.com/legal](http://www.allen-heath.com/legal)
- By using software designed for use for and with this Allen & Heath product you agree to be bound by the terms of the relevant End User Licence Agreement (EULA), a copy of which can be found at: [www.allen-heath.com/legal](http://www.allen-heath.com/legal)

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## XONE:PX5

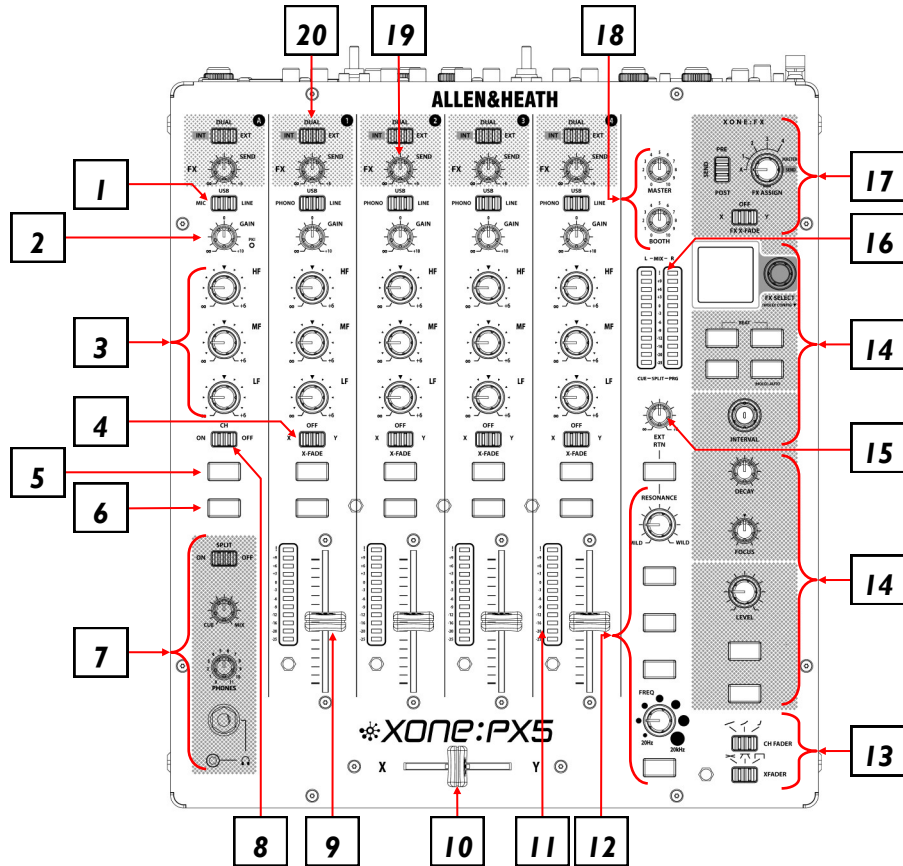
### QUICK START GUIDE

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- Thank you for purchasing the Allen & Heath XONE:PX5, 4+1 Analogue DJ mixer, featuring:
- Four stereo, 3-source, PHONO/LINE/USB input channels plus dedicated MIC/AUX/USB RETURN.
  - Internal XONE:FX engine for performance effects with FX SEND/RETURN, INSERT and DUAL mode.
  - 20 channel, 24Bit/96kHz, Hi-Speed USB internal soundcard with MIDI Control and X:Link connectivity.
  - Classic XONE:VCF Voltage Controlled Filter and 60mm linear VCA channel faders.
  - Dedicated connections for external FX SEND/RETURN, MASTER INSERT and MIDI SYNC/OUT.

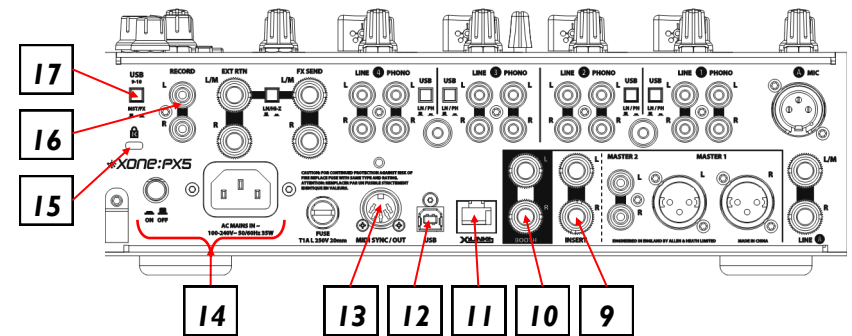
Please take the time to familiarise yourself with all controls.

# FRONT PANEL OVERVIEW



- 1 Input Select Switches**  
Switch Channel A between XLR MIC, CH5 USB RTN soundcard input, or auxiliary CH A LINE sources. Switch CH 1 - 4 inputs between RCA PHONO, CH 1 - 4 USB RTN soundcard inputs, or alternative RCA LINE sources.
- 2 Channel GAIN Controls**  
Adjusts the Channel input sensitivity to compensate for different audio signal source levels  $-\infty/+10$ dB.
- 3 Channel Equalizer**  
Each main Channel is equipped with a powerful 3 band isolator EQ, providing a controlled +6dB boost when fully clockwise and full attenuation ('kill') on each band when fully anti-clockwise.
- 4 X-FADE Assign Switch, CH 1 - 4**  
Used to assign the Channel to either the X (Left), or Y (Right) side of the cross-fader, or direct to LR MIX bus (OFF).
- 5 Channel FILTER Select Switches, CH A / CH 1 - 4 / EXT RTN**  
Press to route post-GAIN / post-EQ / post-Fade level Channel audio to the FILTER.

# REAR PANEL OVERVIEW cont.



- 9 MASTER INSERT**  
Provides INSERT points for LR MIX output to connect hardware dynamics processors such as a limiter, compressor, or graphic equaliser.  
Or, connect FX hardware in-line with MIX output for external MASTER INSERT FX.
- 10 BOOTH Outputs**  
Balanced LINE level stereo output feed to DJ's local monitor.
- 11 X:LINK**  
Connect XONE:K Series Controllers to the XONE:PX5 for remote software MIDI Control and saving use of computer USB ports.
- 12 USB Soundcard**  
20 Channel (5 Stereo IN / 5 Stereo OUT), 24Bit/96kHz, Hi-Speed USB internal soundcard. Mac OS X CoreAudio/CoreMIDI class compliant.
- 13 MIDI SYNC / OUT**  
MIDI Clock and MIDI Tx (transmit) signal output for syncing to external MIDI hardware.
- 14 AC Mains Input**  
Connect (supplied) cable with moulded plug compatible to local AC mains supply. Turn AC supply to the mixer ON / OFF.
- 15 K-Slot**  
Security slot to connect locking, Kensington® type, anti-theft cable.
- 16 RECORD Outputs**  
Unbalanced RCA. Pre-MASTER level, LR MIX output for connection to external hardware recording devices.
- 17 USB 9-10 Send Select Switch**  
Set CH5 USB SND to MST or FX to route LR MIX or FX SEND output via USB. For pre-MASTER level stereo LR MIX recording to computer, or using FX SEND for software effects plug-ins.

For full details, please refer to the XONE:PX5 User Guide online at: [www.allen-heath.com](http://www.allen-heath.com)

# XONE:FX CONTROL SECTION

## 1 FX ASSIGN Switch

Rotary selector used to assign internal XONE:FX engine routing as Channel INSERT, Master INSERT, or SEND / RETURN to LR MIX.

## 2 FX SEND PRE / POST Switch

Used to configure Internal and External FX SEND from Channels to pre-Fade, or post-Fade levels..

## 3 FX X-FADE Assign Switch

Used to assign the XONE:FX to X (left), Y (right) position of the cross-fader to enable fading between Wet (effected) or Dry (un-effected) signal, or OFF (centre).

## 4 TFT Screen

Displays XONE:FX settings, BPM and other MENU options.

## 5 FX SELECT Encoder

Scroll between XONE:FX and CONFIG options. Push ONCE to enter FX MENU, Scroll then PRESS to select FX. Push + HOLD for CONFIG.

## 6 BEAT Adjust / Tempo BEND / MIDI Transport

BEAT - Adjust beat fraction of any time based effect (Delay, Reverb, Flanger, etc).

BEND - Press to speed up or slow down BPM Clock, or to lock-in sync.

MIDI - Transport sends START, STOP & CONTINUE messages for USB and MIDI SYNC / OUT.

## 7 MODE Button Switch

3 layer functionality. Push to increment; BEAT / BEND / MIDI CLOCK.

## 8 TAP Tempo Button

Guide the tempo of the BPM clock manually by tapping to the beat.

## 9 INTERVAL / DECAY / FOCUS Controls

Adjust preset parameters for currently selected XONE:FX.

**INTERVAL** - Illuminates WHITE when active.

**DECAY** - Illuminates RED when active.

**FOCUS** - Illuminates RED or BLUE when active and GREEN in central position.

## 10 XONE:FX LEVEL Control

Adjust XONE:FX output level to LR MIX in SEND mode, Blend level between Channel audio and selected XONE:FX in INSERT mode.

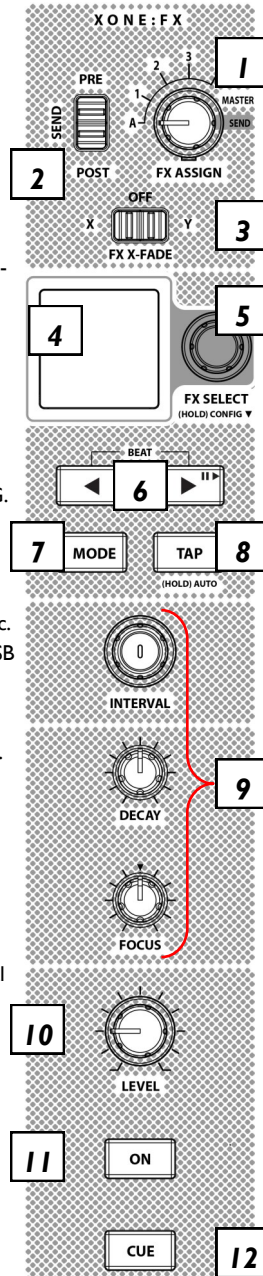
Illuminates CYAN for SND/RTN and RED for INSERT.

## 11 XONE:FX ON / OFF Switch

Turns the FX channel on/off. Illuminates GREEN when active.

## 12 XONE:FX CUE Switch

Press to listen to the FX channel pre-fade signal level from PHONES outputs and to view its level on the main MIX meters. Illuminates RED when active.



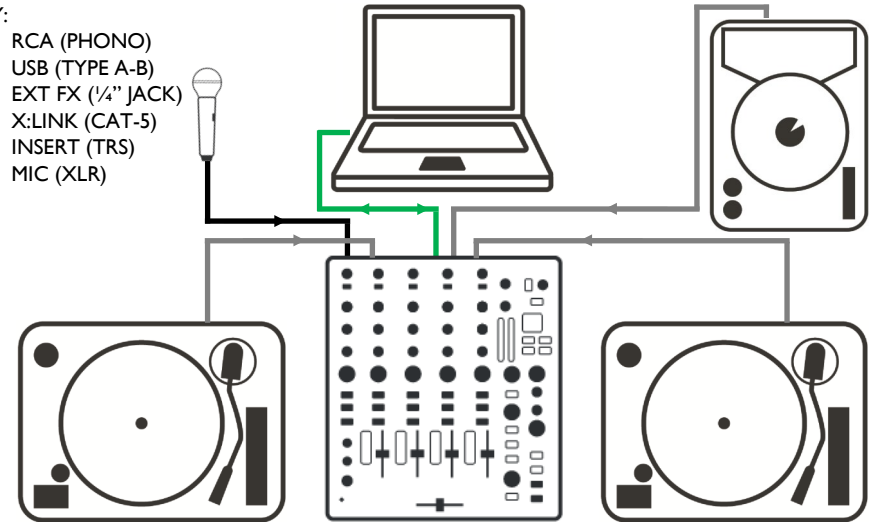
# SETUP EXAMPLES

STANDARD MIX : ANALOGUE + DIGITAL + MC

VINYL & MEDIA PLAYER (RCA) / LAPTOP (USB) / MIC (XLR)

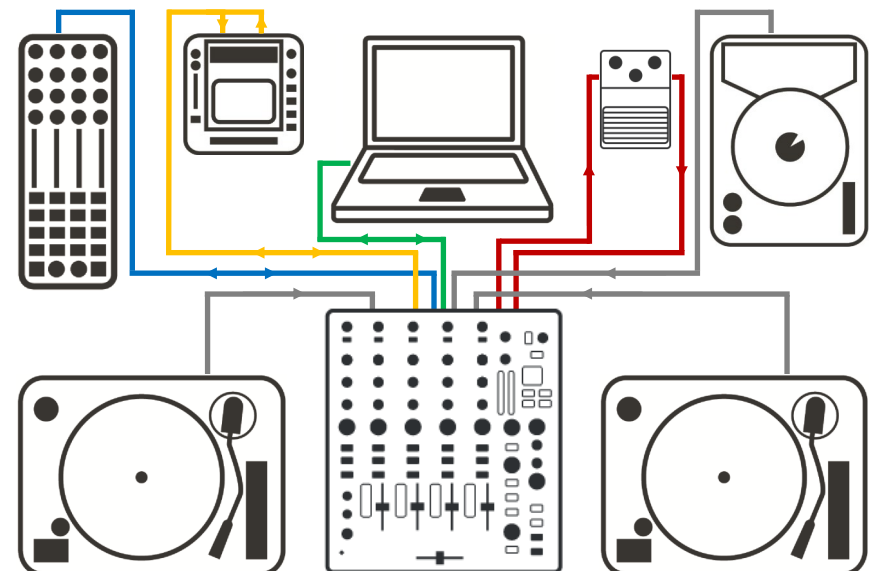
KEY:

- RCA (PHONO)
- USB (TYPE A-B)
- EXT FX (1/4" JACK)
- X:LINK (CAT-5)
- INSERT (TRS)
- MIC (XLR)

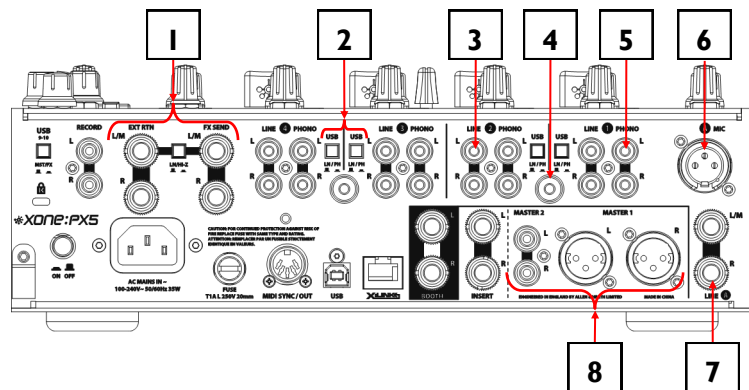


ADVANCED MIX : ANALOGUE + DIGITAL + HARDWARE FX + CONTROL

VINYL & MEDIA PLAYER (RCA) / LAPTOP (USB) / EXT FX (INSERT & SND-RTN) / X:LINK



# REAR PANEL OVERVIEW



- 1 External Effects Connectors, EXT RTN / LINE/Hi-Z / FX SEND**  
Connect external effects device outputs to EXT RTN inputs and use EXT RTN control to adjust FX signal level sent to main LR MIX or VCF FILTER.  
Set input impedance for external FX between LN, or Hi-Z suitable for guitar FX pedals or legacy hardware. Connect your external FX device inputs to FX SEND and use FX SEND controls to send Channel audio to the FX unit.
- 2 USB LINE / PHONO Select Switches, CH 1 - 4**  
Set CH 1 - 4 USB SND to LN or PH. For LINE or RIAA signal level input to internal soundcard. For recording Channel input audio via USB, or CD / Vinyl timecode control.
- 3 LINE Inputs, CH 1 - 4**  
Connect stereo LINE level media players to the LINE input. Do not connect turntables requiring RIAA equalisation. You can also connect to LINE level jack sources using RCA to jack adapter/cable.
- 4 Chassis Earth Terminals**  
2 x Screw terminals are provided for connecting the earth straps from turntables to prevent ground hum.
- 5 PHONO Inputs, CH 1 - 4**  
Connect turntables with magnetic cartridges requiring RIAA equalisation to PHONO inputs. For non-RIAA turntables plug into the LINE input instead.
- 6 MIC Input, CH A**  
Use a good quality low impedance dynamic mic, wired; Pin1=Ground, Pin2=Hot(+), Pin3=Cold(-)  
Do NOT use high impedance or unbalanced microphones, or condenser mics requiring phantom power.
- 7 LINE Inputs, CH A**  
Connect auxiliary or balanced LINE level music sources to the CH A LINE input.
- 8 MASTER Outputs**  
Master1. Main stereo LR MIX outputs that feed the club PA system, or balanced active speakers.  
Master2. Alternative stereo MIX output to feed consumer amplifier or unbalanced active speakers.

- 6 Channel CUE Switches, CH A / CH 1 - 4 / XONE:FX**  
Press to listen to the Channel pre-Fade audio levels from PHONES and BOOTH DJ monitor outputs and to view its level on the main (MIX) Meters.
- 7 Headphone Section**  
Stereo 1/4" TRS Jack and 3.5mm mini-Jack sockets with level control, CUE / MIX control and SPLIT CUE ON / OFF.
- 8 Channel ON/OFF Switch, CH A**  
Turns the Channel ON or OFF, allowing audio to be routed to the main LR MIX. Useful if an un-switched microphone is used to easily switch in and out of a mix.  
This does not affect CH A signal output to CUE.
- 9 Channel Faders, CH 1 - 4**  
60mm linear VCA Channel Faders adjust the Channel audio levels from fully off to fully on.
- X-FADER**  
Fade between audio from CH 1 - 4 assigned to the X (Left), or Y (Right) side of the cross-fader.
- 11 Channel Meters, CH 1 - 4**  
Channel audio input is metered at post-EQ and pre-Fade level, to display affect of EQ adjustment on input levels before routing audio to the LR MIX.
- 12 FILTER Section**  
Classic analogue XONE Voltage Controlled Filter section: RESONANCE (Mild to Wild) control, HPF / BPF / LPF select switches, FREQ (Frequency Sweep) control and FILTER ON / OFF switch.
- 13 FADER Curve Switches, CH 1 - 4 / X-FADE**  
Sets the response for Channel 1 - 4 up-faders and VCA cross-fader.  
Choose settings to best suit your performance style.
- 14 XONE:FX Control Section**  
Please refer to the XONE:FX Control Section overleaf for more information.
- 15 EXT RTN Level Control**  
Adjusts the level of audio input from effects hardware connected via FX SEND/ EXT RTN and routed to the XONE:VCF FILTER or LR MIX outputs.
- 16 MIX / MONITOR Meters**  
The main meters follow the selected monitor source. In SPLIT cue mode, Left (L) MIX meter displays cued Channel audio levels and Right (R) MIX meter displays MIX output level.
- 17 XONE:FX ASSIGN Section Controls**  
Pre/Post-Fade FX SEND, Channel FX ASSIGN, and FX: X-FADE Assign switches.  
Please refer to the XONE:FX Section Overview for more information.
- 18 MASTER / BOOTH Level Controls**  
MASTER adjusts level for the LR MIX feeding MASTER 1 and MASTER 2 outputs.  
MASTER Level adjustment does not affect the BOOTH output or the meter reading.  
BOOTH adjusts the level output to DJ's local monitor output. This does not affect PHONES level.
- 19 FX SEND Controls, CH A / CH 1 - 4**  
Controls the amount of Channel audio sent to the XONE:FX bus and/or external effects hardware connected via rear panel EXT RTN inputs.
- 20 Channel FX Mode Select Switches, CH A / CH 1 - 4**  
Selects option for Channel FX SEND routing to INT, EXT, or DUAL.  
For SEND to internal XONE:FX engine, external effects hardware connected via EXT RTN inputs, or to both for simultaneous use with internal **and** external effects.