ALLEN&HEATH

ZED-10FX USER GUIDE



Publication AP7763

CONTENTS

Warranty	4
Conformity Statement	5
Safety Instructions	6
Packed Items Checklist	9
Introduction to ZED-I0FX & I0	10
Specifications	12
Dimensions	13
Block Diagram	14
Mono Input Channel 1&2	15
Mono Input Channel 3&4 (GTR I/P)	18
Stereo Input Channel I	19
Stereo Input Channel 2	21
Effects Processor	22
Master Section	24
USB Connection	26
Application Drawing—Live Mixing	27
Application Drawing—Studio Recording	26
Wiring Information	29
Product Support	30

WARRANTY

Limited One Year Warranty

This product is warranted to be free from defects in materials or workmanship for period of one year from the date of purchase by the original owner.

To ensure a high level of performance and reliability for which this equipment has been designed and manufactured, read this User Guide before operating. In the event of a failure, notify and return the defective unit to ALLEN & HEATH Limited or its authorised agent as soon as possible for repair under warranty subject to the following conditions

Conditions Of Warranty

The equipment has been installed and operated in accordance with the instructions in this User Guide.

The equipment has not been subject to misuse either intended or accidental, neglect, or alteration other than as described in the User Guide or Service Manual, or approved by ALLEN & HEATH.

Any necessary adjustment, alteration or repair has been carried out by ALLEN & HEATH or its authorised agent.

The defective unit is to be returned carriage prepaid to ALLEN & HEATH or its authorised agent with proof of purchase.

Units returned should be packed to avoid transit damage.

In certain territories the terms may vary.

Check with your ALLEN & HEATH agent for any additional warranty which may apply.

http://www.allen-heath.com

EMC & SAFETY

This product complies with the European Electro magnetic Compatibility directives 89/336/EEC & 92/31/EEC and the European Low Voltage Directives 73/23/EEC & 93/68/EEC.

This product has been tested to EN55103 Parts I & 2 1996 for use in Environments EI, E2, E3, and E4 to demonstrate compliance with the protection requirements in the European EMC directive 89/336/EEC. During some tests the specified performance figures of the product were affected. This is considered permissible and the product has been passed as acceptable for its intended use. Allen & Heath has a strict policy of ensuring all products are tested to the latest safety and EMC standards. Customers requiring more information about EMC and safety issues can contact Allen & Heath.

NOTE: Any changes or modifications to the console not approved by Allen & Heath could void the compliance of the console and therefore the users authority to operate it.

ZED-10FX User Guide AP7763 Issue I

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Allen & Heath Limited

Kernick Industrial Estate, Penryn, Cornwall, TR10 9LU, UK

http://www.allen-heath.com

SAFETY INSTRUCTIONS

WARNING - Read the following before proceeding:



ATTENTION: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR



WARNING: This equipment must be earthed.

Read instructions: Retain these safety and operating instructions for future

reference. Adhere to all warnings printed here and on the console. Follow the operating instructions printed in

this User Guide.

Do not remove cover: Operate the console with its covers correctly fitted.

Power sources: Connect the console to a mains power unit only of the

type described in this User Guide and marked on the rear panel. Use the power cord with sealed mains plug appropriate for your local mains supply as provided with the console. If the provided plug does not fit into your outlet consult your service agent for assistance.

Power cord routing: Route the power cord so that it is not likely to be walked

on, stretched or pinched by items placed upon or

against it.

Grounding: Do not defeat the grounding and polarisation means of

the power cord plug. Do not remove or tamper with the

ground connection in the power cord.

SAFETY INSTRUCTIONS

Water and moisture: To reduce the risk of fire or electric shock do not ex-

pose the console to rain or moisture or use it in damp or wet conditions. Do not place containers of liquids on

it which might spill into any openings.

Ventilation: Do not obstruct the ventilation slots or position the con-

sole where the air flow required for ventilation is impeded. If the console is to be operated in a rack unit or flightcase ensure that it is constructed to allow ade-

quate ventilation.

Heat and vibration: Do not locate the console in a place subject to exces-

sive heat or direct sunlight as this could be a fire hazard. Locate the console away from any equipment which produces heat or causes excessive vibration.

Servicing: Switch off the equipment and unplug the power cord

immediately if it is exposed to moisture, spilled liquid, objects fallen into the openings, the power cord or plug become damaged, during lightening storms, or if smoke, odour or noise is noticed. Refer servicing to

qualified technical personnel only.

Installation: Install the console in accordance with the instructions

printed in this User Guide. Do not connect the output of power amplifiers directly to the console. Use audio connectors and plugs only for their intended purpose.

Important Mains plug wiring instructions

The console is supplied with a moulded mains plug fitted to the AC mains power lead. Follow the instructions below if the mains plug has to be replaced. The wires in the mains lead are coloured in accordance with the following code:

TERMINAL		WIRE COLOUR		
		European	USA/Canada	
L	LIVE	BROWN	BLACK	
N	NEUTRAL	BLUE	WHITE	
E	EARTH GND	GREEN & YELLOW	GREEN	

The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or with the Earth symbol. This appliance must be earthed. The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N.

The wire which is coloured Brown must be connected to the terminal in the plug which is marked with the letter L.

Ensure that these colour codes are followed carefully in the event of the plug being changed.

SAFETY INSTRUCTIONS

General Precautions:

Damage: To prevent damage to the controls and cosmetics

avoid placing heavy objects on the control surface, scratching the surface with sharp objects, or

rough handling and vibration.

Environment: Protect from excessive dirt, dust, heat and vibra-

tion when operating and storing. Avoid tobacco ash, smoke, drinks spillage, and exposure to rain and moisture. If the console becomes wet, switch off and remove mains power immediately. Allow to

dry out thoroughly before using again.

Cleaning: Avoid the use of chemicals, abrasives or solvents.

The control panel is best cleaned with a soft brush and dry lint-free cloth. The faders, switches and potentiometers are lubricated for life. The use of electrical lubricants on these parts is not recommended. The fader and potentiometer knobs may be removed for cleaning with a warm soapy solution. Rinse and allow to dry fully before refitting

them.

Transporting: Protect the controls from damage during transit.

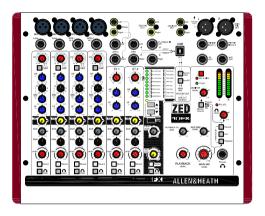
Use adequate packing if you need to ship the unit.

Hearing: To avoid damage to your hearing do not operate

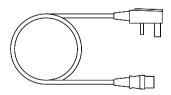
any sound system at excessively high volume. This applies particularly to close-to-ear monitoring such as headphones and in-ear systems. Continued exposure to high volume sound can cause frequency selective or wide range hearing loss.

PACKED ITEMS

Check that you have received the following:



ZED-10FX MIXER



Mains Lead
Check that the correct mains plug is fitted.



This User Guide!

INTRODUCTION TO THE ZED-10FX

Background Overview:

The Allen & Heath ZED series mixers have been carefully and lovingly designed in the beautiful county of Cornwall in the UK and are manufactured alongside a wide range of professional audio mixing consoles to the same high standards. Many of the components used in ZED-10FX and ZED-10 are exactly the same as in the larger Allen & Heath products and the construction methods are also very similar — utilising individual vertically mounted channel circuit boards with each rotary control fixed with a metal nut to the front panel. This provides a very robust product that will resist damage and give years of reliable use. It also makes servicing much easier should it be required, with the ability to remove one particular channel from the mixer at a time. The vertical board construction method is unique in a product at this price point and puts the ZED-10FX and ZED-10 in a truly professional class of their own.

The audio circuitry is based on years of continual development and refinement, the performance of all the elements within the mixer is scrutinised and perfected to ensure the very best sound quality possible.

Multi-application:

ZED's are great for live mixing! Their layout makes them very easy to use and easy to achieve a great sound. They are also perfect for recording, either a live show or an audio project at home can be built up track by track using the USB digital audio interface. The flexibility and quality of these mixers make them stand out from the crowd. You can plug your guitars or instruments straight into the class A discrete FET high impedance inputs, cater for up to four microphones, two stereo sources with MP3 player compatibility, separate 2-track record outputs and a stereo playback input for 2-track replay or perhaps interval music from a CD player, XLR main stereo outputs with inserts, comprehensive monitoring with headphones and separate monitor speaker outputs, 48V microphone phantom power, DI level switching for sub mixing, and not least of all, the same digital effects algorithms as those used on our flagship digital consoles costing 150 times as much!

All this and the ability to withstand life being gigged night after night—there is nothing else like it at this price point.

ZED mixers are also ideal for teaching establishments, houses of worship, hotels and conference centres where their ease of use and robust qualities make them a top choice.

Mic/Line Pre-amps:

Based on the pre-amps from the MixWizard series, the ZED-10FX & ZED-10 pre-amps use low noise discrete transistor circuitry to achieve high gain (60dB max), low noise and good linearity.

GTR/Hi Z Inputs:

Specially designed for ZED-10FX and ZED-10, two ultra high impedance discrete class A FET (Field Effect Transistor) inputs for plugging any kind of guitar or instrument straight in. A 26dB gain boost switch allows instruments with very low output pickups to be used, and the FET does a great job of approximating the valve/tube input circuitry commonly found on instrument combos or amplifiers.

INTRODUCTION TO THE ZED-10FX

EO:

The ZED-10FX and ZED-10 mixers are equipped with a 3-band equaliser circuit on each mono input, with swept mid frequency section, and a 2-band EQ on the stereo channels. The frequency and response of each has been carefully chosen to give the maximum performance when using the EQ on a variety of sources.

Effects Processor:

Zed 10FX has a professional quality effects processor built in which uses our own effects algorithms developed by our talented engineering staff at Allen & Heath. The effects range from classic reverbs, cascaded delay plus reverbs to shimmering flanger & chorus effects. The different effects types are selected with a simple up/down button interface and the tempo of the delay settings can be set using the TAP button. Holding the TAP button allows the parameters of the effects to be adjusted. The audio signal to the DSP is converted using 24 bit high dynamic range converters running at 48kHz sample rate, ensuring low noise, low distortion, transparent effects.

Record Bus:

A separately switched stereo bus can be routed to from any channel creating a selective recording bus, monitoring bus or stereo clean feed output. You can even route just the effects processor output to this bus and use the mixer as a high end effects unit.

USB:

Getting audio to and from a computer easily is now a common requirement for live sound and music production. The way we have implemented this on ZED is super-flexible and super-easy! No longer do you need to fiddle around the back of your computer to get to the soundcard inputs, only to find that the levels are all wrong and noisy. Just plug in a USB lead to your ZED, select the USB routing on the mixer and the device on your computer and that's it! CD quality audio to and from your PC or MAC.

Internal power supply:

Not a "wall wart" - a proper built in power supply specifically designed and based on totally reliable technology.

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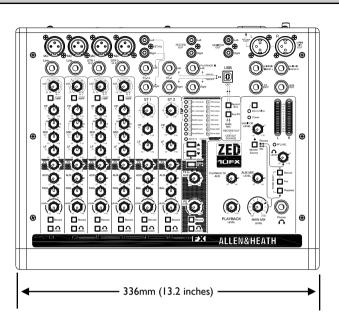
SPECIFICATIONS

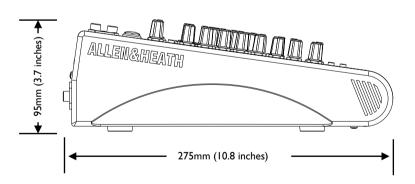
Operating Levels				
Input				
Mono channel (XLR) Input	-10 to -60dBu for nominal (+11dBu in max)			
Mono channel Line Input (Jack socket)	+10 to -40dBu (+31dBu maximum)			
Stereo Input (Jack or phono sockets)	0dBu nominal (control = Off to +15dB)			
Output				
L/R Outputs (XLR) Normal/DI out	0dBu/-30dBu +21dBu/-9dBu maximum.			
Aux & FX Outputs (Jack sockets)	0dBu nominal. +21dBu maximum.			
Record & Monitor Outputs (phono sockets)	0dBu nominal. +21dBu maximum.			
Frequency Response				
Mic in to Mix L/R Out, 30dB gain	+0.5/-1dB 10Hz to 30kHz.			
Line in to Mix L/R out 0dB gain	+0.5/-1dB 10Hz to 25kHz			
Stereo in to Mix L/R out	+0.5/-1dB 10Hz to 30kHz			
THD+n				
Mic in to Mix L/R Out, 10dB gain 1kHz +10dBu out	0.002%			
Mic in to Mix L/R Out, 30dB gain 1kHz	0.01%			
Line in to Mix L/R out 0dB gain 0dBu 1kHz	0.003%			
Stereo in to Mix L/R out 0dB gain +10dBu 1kHz	0.002%			
Gtr Input to Mix L/R Out, 0dBu, Boost OUT	0.015%			
Gtr Input to Mix L/R Out, 0dBu, Boost IN	2% Second Harmonic			
Headroom				
Analogue Headroom from nominal (0Vu)	21dB			
USB in & out headroom from nominal (0Vu)	I 4dB			

Noise			
Mic Pre EIN @ max gain 150R input Z 22-22kHz	-127dBu		
Mix L/R out, L/R faders = 0, Levels min, 22-22kHz	-96dBu		
Mix L/R out, L/R faders = 0, Levels min, 22-22kHz	-96dBu		

USB Audio CODEC (Coder/Decoder)		
USB Audio In/Out USB 1.1 compliant 16bit.		
Sample Rate	32, 44.1, or 48kHz	

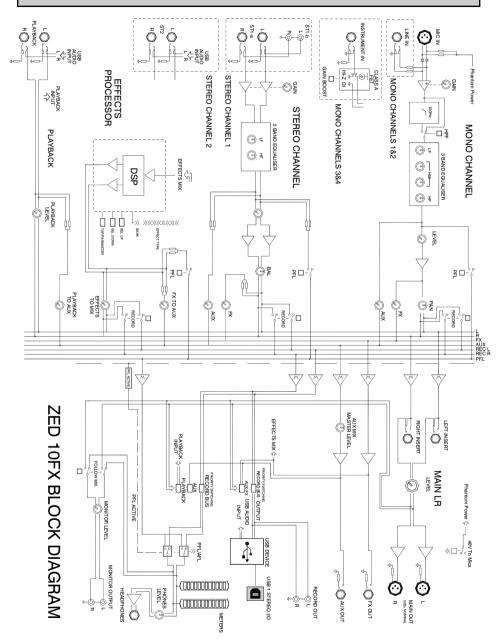
DIMENSIONS



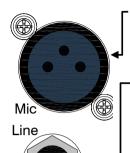


Weight		
	ZED-10FX	
Unpacked	3.3kg (7.3 lb)	
Packed	4.5kg (10 lb)	

BLOCK DIAGRAM SCHEMATIC



MONO INPUT CHANNEL I & 2



Mic Input Socket

Standard 3-Pin XLR socket wired as Pin I=Chassis, Pin 2=hot (+), Pin 3=Cold (-).

Line Input Jack Socket

Standard 1/4" (6.25mm) Jack socket for balanced or unbalanced line level signals. Wired Tip=Hot(+), Ring=cold (-), Sleeve=Chassis.

The Line input connects to the XLR input through a circuit, so be aware that the two signals will add together if both inputs are plugged in simultaneously.

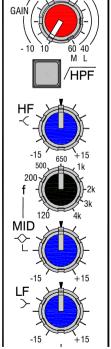
Gain Control

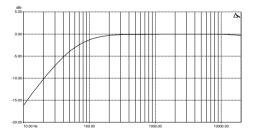
This adjusts the gain of the input amplifier to match the signal level of the source. The gain is varied from +10dB to +60dB for signals plugged in to the xIr socket (Mic Input) and -10dB to +40dB for signals plugged into the Line input jack.

← 100Hz Hi-pass Filter

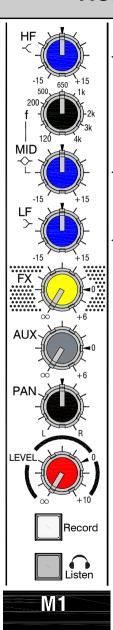
The Hi-pass filter is used for reducing pop noise and rumble from microphone signals. It is a single pole (6dB per octave) filter with a corner frequency set at 100Hz.

The filter affects signals from both Mic XLR and Line jack socket.



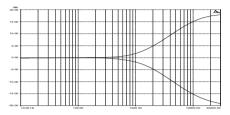


MONO INPUT CHANNEL I & 2



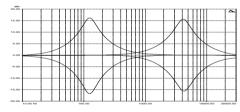
HF EQ

The HF (High Frequency) equaliser affects the frequency response of the higher audible frequencies. The corner frequency of 12kHz is around 3dB from the maximum cut or boost of the circuit. It has plenty of gain and actually gives slightly more that the +/-15dB legend suggests.



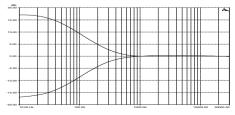
MF EQ

The MF (Mid Frequency) equaliser affects the middle of the audible frequency range. The frequency graduations on the sweep control are the centre frequencies of the EQ. The range has been carefully chosen to cover "boomy" frequencies around 120Hz to 250Hz which may need cutting back, or a lift at 2 to 3kHz may be required for microphone intelligibility.

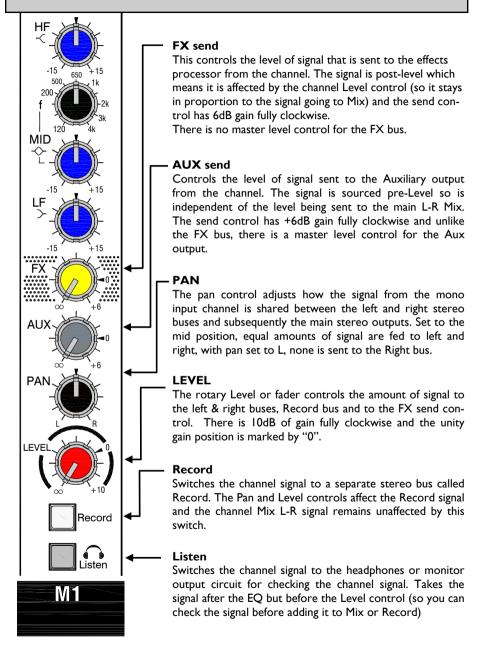


LF EQ

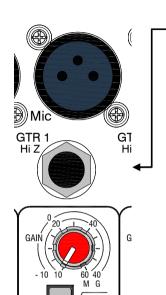
The LF (Low Frequency) equaliser affects the response at the low end of the audio range. The graph shows the response of the LF EQ at maximum cut and boost. The corner frequency is 80Hz.



MONO INPUT CHANNEL I & 2



MONO INPUT CHANNEL 3 & 4



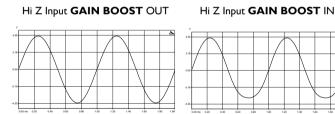
Hi Z input

The only difference between mono inputs 1-2 and 3-4 is the Hi Z inputs for guitars or other instruments.

Standard 1/4" (6.25mm) Jack socket for unbalanced line level signals or instrument pickups. Wired Tip=Hot(+), Ring=cold (-), Sleeve=Chassis.

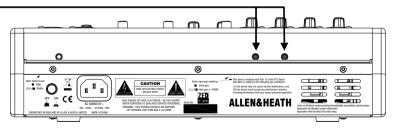
The Hi Z input connects to the XLR input through a circuit, so be aware that the two signals will add together if both inputs are plugged in simultaneously.

The Hi Z input can be used with normal line level signals but is designed specifically to match signals from instrument pickups. The input impedance is extremely high (10Mohms) and a FET (Field Effect Transistor) running in Class A mode emulates the type of circuits used in valve guitar combos or head amplifiers. The input circuit has soft asymmetric overdrive characteristics, giving a warm 2nd harmonic character to the sound if required.

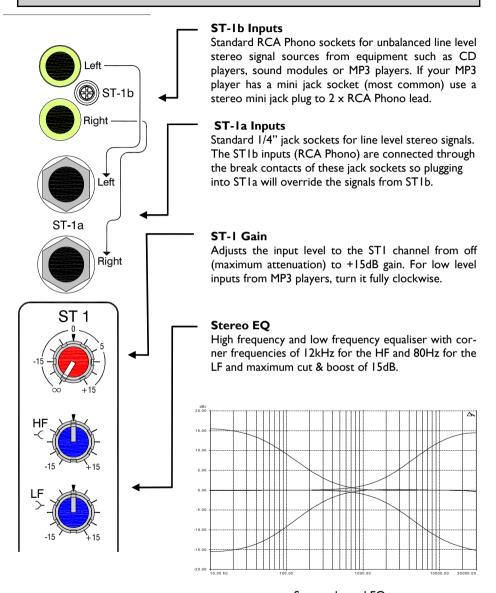


Gain Boost

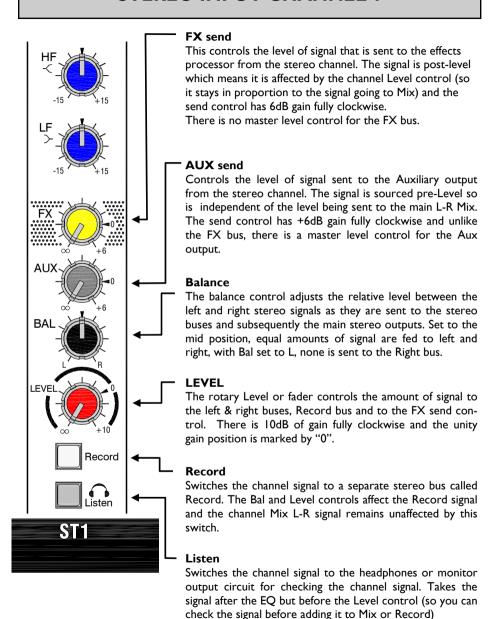
A recessed switch on the rear panel allows the HI Z input to be boosted by 26dB, useful for instruments with weak pickups or where more overdrive is required. When the XLR is being used or for normal line level signals (like keyboards)—make sure the switch is in the OUT position.



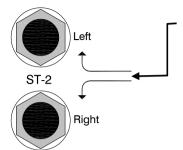
STEREO INPUT CHANNEL I



STEREO INPUT CHANNEL I



STEREO INPUT CHANNEL 2



ST-2 Input

The USB audio input is connected through the break contacts of the standard 1/4" (6.25mm) jack sockets. Plugging into the jacks will override the USB input, so if you want to use the ST-2 channel for the USB input signal, make sure nothing is plugged into the jack sockets.

The rest of the features of the ST-2 channel are as described for ST-I

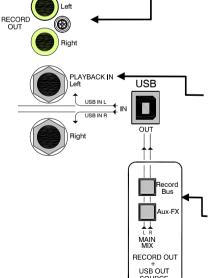


Important Note:

If the ST-2 channel is not being used for USB playback or stereo input it is best to keep the level controls turned down so that unwanted noise from the inactive USB device is not passed to the mix.

Record OUT

Standard RCA phono sockets for the stereo line level Record outputs sourced from the USB out selector switches. Useful for connecting to stereo recording devices, stereo mix feeds, or where selective channels are required to feed other equipment.



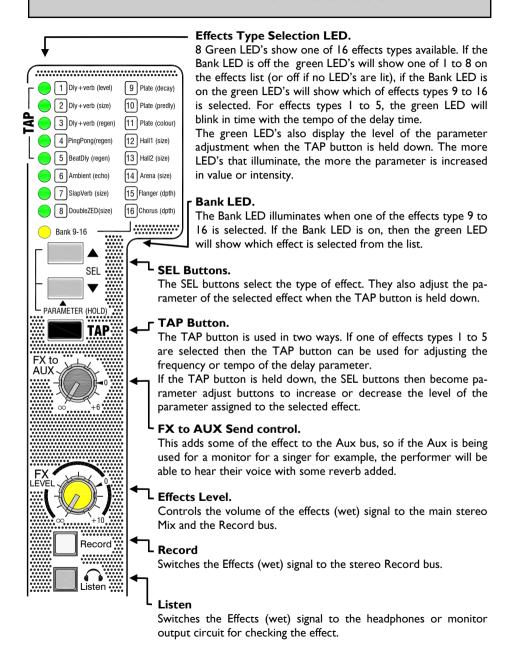
Playback Input

Standard 1/4" (6.25mm) jack sockets for unbalanced line level inputs. Can be used for additional stereo sources such as CD players for background music, or playing back a final mix from a recording device. The USB audio input is connected through the break contacts of these inputs, plugging into the jack sockets overrides the USB input.

USB OUT Source selector switches

Select the signal source for the USB audio output and the Record output. With both switches up the main Mix is selected. The Record Bus switch will override the Aux-FX switch if both are pressed.

ZED-FX EFFECTS PROCESSOR



ZED-FX EFFECTS PROCESSOR

Effects Type List & Description.

There are 16 different effects presets in the ZED Effects Processor. Each is fed with a mono signal from the FX bus, and the output from the effects processor is in stereo.

Each preset has a parameter adjust control which is matched to the preset. This control may morph several parameters all at once, for example the parameter control for the Chorus effect will adjust not only the depth, but the response of the filters in software to create a more or less intense effect. In general, when adjusting the effect parameter, the more LED's that are illuminated, the more intense the effect or higher the parameter value.

To restore the parameter settings to the factory defaults, hold down both SEL buttons whilst switching on the power to your ZED.

Effects Type Table with description.

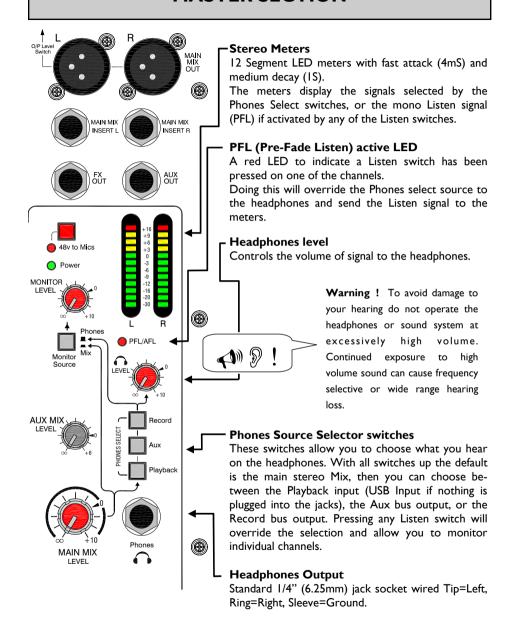
Effect	Preset Name	Effect Description & Parameter adjustment.
I	Dly+verb(level)	Delay with Reverb. Delay feeds reverb (Classic Plate). TAP for delay time Min = 70mS Max = 1.35S, Adjust the level of reverb.
2	Dly+verb(size)	Delay with Reverb. Delay feeds reverb (Classic Plate). TAP for delay time Min = Min = 70mS Max = 1.35S, PARAMETER Adjusts the size of reverb.
3	Dly+verb(regen)	Delay with Reverb. Delay feeds reverb (Classic Plate). TAP for delay time Min = 70mS Max = 1.35S, PARAMETER adjusts the regeneration of the delay.
4	PingPong(regen)	Ping Pong delay (left then right) in parallel with Plate reverb. TAP for left delay time Min = 70mS Max = 1.35S, PARAMETER adjusts the delay regeneration.
5	BeatDly(regen)	As (4) but right delay is set for 1/4 beat of left. Good for off beat 4/4 delay sound. TAP for left delay time & PARAMETER adjusts the delay regeneration.
6	Ambient(echo)	Echo Delay with Reverb. PARAMETER adjusts the echo time.
7	SlapVerb(size)	Reverb with echo reflections creating classic slapback reverb sound. PARAMETER adjusts the slapback size (more slap echo).
8	DoubleZED(size)	Classic stereo doubler. PARAMETER adjusts delay and size.
9	Plate(decay)	Classic plate reverb. PARAMETER adjusts decay time.
10	Plate(predly)	Plate reverb with pre-delay. Good for vocals/percussion. PARAMETER adjusts pre-delay time (for increased intelligibility).
11	Plate(colour)	Classic plate reverb. PARAMETER adjusts tonal texture from dark to bright.
12	Hall I (size)	Smooth classic hall reverb. PARAMETER adjusts size of hall.
13	Hall2(size)	Brighter hall reverb. PARAMETER adjusts size of hall.
14	Arena(size)	Arena reverb. PARAMETER adjusts size of arena.
15	Flanger(dpth)	Classic flanger effect. PARAMETER adjusts depth and tonality.
16	Chorus(dpth)	Chorus effect. PARAMETER adjusts depth and tonality.

MASTER SECTION

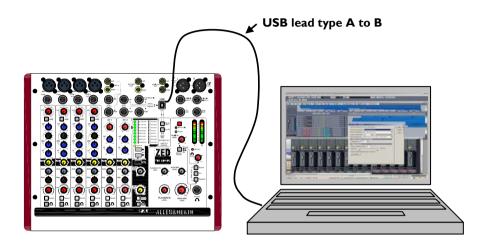
Main Mix Out XI R connectors Standard XLR output connectors for the main stereo mix. Impedance balanced to aid interference rejection. A recessed switch on the rear panel reduces the level by 30dB if it is required to submix these outputs into the XLR inputs of another mixer. MAIN MIX Main Mix Insert iack sockets Standard 1/4" (6.25mm) jack sockets wired: Tip = send, Ring = return, Sleeve = Chassis. Nominal level is OdBu Effects & Aux bus Outputs Standard 1/4" (6.25mm) jack sockets wired: Tip = hot, Ring = cold, Sleeve = Chassis. Nominal level is OdBu. The FX out is the Effects bus output, (not the 48v to Mics signal from the effects processor) and can be Power used for connecting to external equipment. MONITOR The AUX out is taken from after the AUX MIX master level control 48v to Microphones Phones Switches industry standard 48v (phantom power) PFL/AFL to all 4 microphone inputs for use with con-Mix Monitor Source denser microphones. **Monitor Level** Controls the volume of the stereo monitor outputs from off (fully attenuated) to +10dB of gain. **AUX MIX** Record **Monitor Source switch** This allows the stereo monitor outputs (RCA) Playback phonos) to be sourced either from the headphone monitor selection, or from the main stereo mix. Useful for splitting the functions of the stereo monitor outputs from the headphones. Aux Mix Level control Phones The master volume control for the Aux mix bus. MAIN MIX LEVEL Adjusts the level from off (fully attenuated) to +6dB gain. Main Mix I evel

This is the master volume control for the main stereo mix. Range is from off (fully attenuated) to $\pm 10 \, \mathrm{dB}$ of gain.

MASTER SECTION



CONNECTING TO A COMPUTER



USB Audio Interface

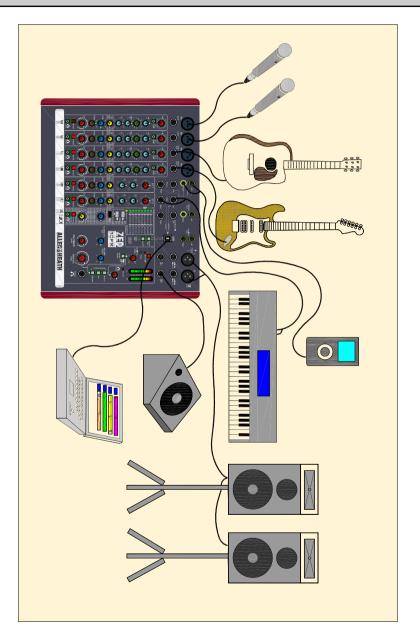
The ZED is equipped with a stereo bi-directional USB 1.1 compliant audio CODEC. It is fully compliant with USB 2 ports and uses standard Windows and MAC Core Audio Drivers. In other words, plug it in and your computer will find it and be able to transfer audio to and from the ZED USB device.

You will need some form of audio software running on your computer to be able to store and play back what you record, but on a basic level, you can use your computers media player to play straight to the ZED device.

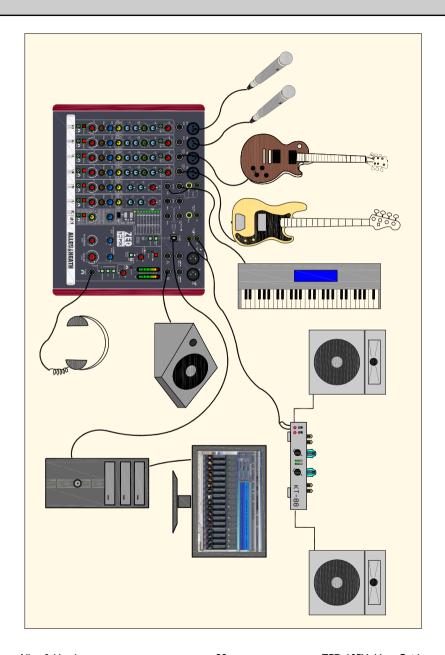
Important Note:

If there seems to be no audio transfer between the computer and your ZED, or the level is very low, please check the volume level setting of the Audio Device in your computers' operating system. This may need to be set to the Max position.

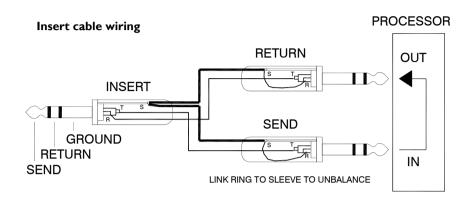
APPLICATION DRAWING—LIVE MIXING



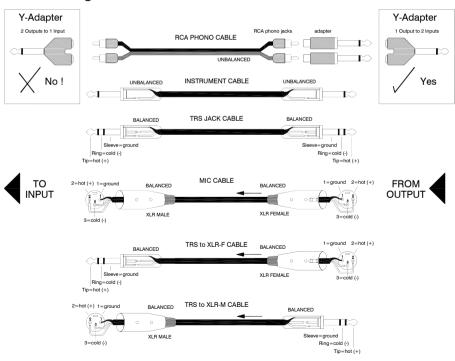
APPLICATION DRAWING—STUDIO RECORDING



WIRING INFORMATION



General Wiring Information



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Large Live Sound mixers — iLive digital, ML and GL Series

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Registering your product

Thank you for buying the Allen & Heath ZED-10FX mixer. We hope that you are happy with it and that you enjoy many years of faithful service with it.

Please go to www.allen-heath.com/register.asp and register your product's serial number and your details. By registering with us and becoming an official Registered User, you will ensure that any warranty claim you might make is actioned quickly and with the minimum delay.

Alternatively, you may either copy or cut off this section of the page, fill in the details, and return it by mail to:

Allen & Heath Ltd, Kernick Industrial Estate, Penryn, Cornwall TR10 9LU, UK

ALLEN&	ALLEN&HEATH PRODUCT REGISTRATION
Thankyou for bu, with it and that yo	Thankyou for buying an Allen & Heath product. We hope that you're happy with it and that you enjoy many years of faithful service with it.
SERIAL	
Please return this sec for your records. You Thanks for your help.	Please return this section of the card by mail and retain the other part for your records. You can also register online at www.allen-heath.com. Thanks for your help.
Your Name:	
Company Name:	
Address 1:	
Address 2:	
Town/City:	County/State:
Country:	Postcode/Zip:
Telephone:	
Email:	
Why did you cho	Why did you choose this console?
Which other proc	Which other products did you you consider before choosing A&H?
Is there any thing	is there any thing you would like to improve on this mixer?
What audio maga	What audio magazines do you read?
If you were going important feature 1	If you were going to design a mixer for your work, what are the 6 most important features it should have (in order of importance) 2
3	4
2	٥
We may use the idevelopments. Windicate with an from us.	We may use the information you provide to inform you of future product developments. We will not give or sell this data to third parties. Please infortioate with an X if you do not wish to receive any further communications from us.