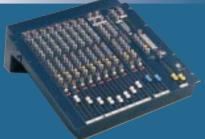
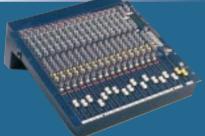
the Mix Wizaronge

WZ12:2DX



With 8 mono inputs and 2 fully featured dual stereos, this latest addition to the range provides all the professionalism of its sister consoles at a new lower price point. Like the WZ16:2 DX, the WZ12:2 DX comes complete with onboard digital effects.

WZ16:2DX



Building on the unprecedented success of the original WZ16:2, the new model has the same winning features for the broadest range of applications, plus a host of new assets, including onboard dual effects processor, channel on LEDs and more.

WZ14:4:2+



A truly versatile 4 group console with mode switching for front of house and/or monitoring applications, plus extensive recording capability. New and upgraded features include a switchable 1kHz oscillator/pink noise generator and individual phantom power switching.

When we held the first design meetings for the MixWizard series, we had a very clear goal in mind - to create a range of compact mixers with big features, great sound and totally professional build quality. The phenomenal sales that the MixWizards have enjoyed tell me that we got it right.

Now the best has got even better. We've looked at the areas where we could improve on the existing MixWizard designs, adding useful features such as a Pink noise generator for the WZ14:4:2+ and onboard FX for the other models. We've listened to your requests for metal jacks and channel on led's - you'll now find these on all MixWizards. Internally, we've changed the way the circuit boards are connected to make servicing even easier, and we've created a new universal input heat reducing power supply.

There's even a completely new MixWizard, the WZ12:2DX, which offers the same commitment to quality and attention to detail that have made its sister consoles such a big hit, but at an even more affordable price point.

I hope that you get as much enjoyment from using the new improved MixWizards as we have had in designing them.

Carev Davies R&D Manager Allen & Heath

QCC

Allen & Heath's unique Quick Change Connector system allows reconfiguration of all MixWizards for desktop, rack or flightcase mounting. Unlike many similar systems, QCC is quick and convenient to use your MixWizard can be changed from desktop to rackmount format and back, in just a couple of minutes.

MSP

Any signal processing will inevitably change the original sound - even sending a signal down a wire will have a minute influence. The crystal-clear MixWizard sound is achieved by Allen & Heath's MSP (Minimum Signal Path) electronic design, wide-band flat response amplifiers, top-grade low noise components and solid grounding. Your ears will know the difference.

Build Quality

The MixWizards feel professional because they are professional and they are built to last. All rotary controls are securely bolted to the front panel - so the rugged all-metal chassis takes the weight of any impact. Each input and master output has its own vertically mounted circuit board for rigidity and ease of service or modification.

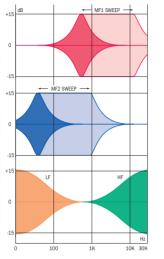
- \blacklozenge 4 band EQ with 2 sweepable mids \blacklozenge 12 Segment bargraph metering
- ◆ 100Hz low-cut filters
- Balanced mic/line inputs
- ◆ 6 auxes on individual pots
- ◆ 100mm dust protected smooth travel faders
- ◆ QCC connectors for easy rack or desktop mounting
- ♦ MSP electronic design for exceptional audio clarity

- ◆ 70dB input ranges
- ♦ Direct outputs
- ♦ 10U Rack size
- Channel ON switches and LEDs
- \bullet +48V switchable phantom power
- ◆ *AFL*/*PFL* monitoring
- Metal jack sockets

WZ14:4:2+

10 Mic/Line Inputs

◆ High gain, low distortion preamps match all signals, from -60dBu.



distance miking to +10dBu high level electronic instruments.

Individually selected +48V.

- Phantom Power on all mic/line inputs.
- ◆ Jack inserts on each input provide easy access for gates, compressors etc.
- 100Hz low-cut filters.

Exceptional 4 band EQ with 2 mid sweeps, with overlapping frequency for complete corrective and creative access to all frequencies. EQ bypass switches enable easy in/out comparisons and eliminate noise on untreated signals.

Peak and PFL warning LED.

◆ 6 aux sends on individual controls. Auxes 1-4 and 5-6 can be set pre or post fade for monitor feeds or fx processing. Aux levels provide up to 6dB boost when needed. Sends are taken post EQ, post on switch, though internal links can enable changes to the default settings if required.

Channel ON switch with LED.

 Pan controls with centre detent allow panning across groups and LR

 100mm smooth throw faders for precision control and up to +10dB extra boost.

• Direct outs are provided post-fade for multitrack recording and special feeds.

2 Stereo Inputs

 Independent A and B sources on phono and 1/4" jack connectors respectively.

◆ 4 band EQ.

 Routing to all 6 auxes, with internal links allowing selected auxes to be configured as stereos.

Outputs to busses, with the stereo

image positioned via a balance control.

Peak and PFL led and switch.

4 Stereo Returns

◆ Total of 8 possible fx returns (excluding the 2track return) on paired 1/4" jacks.

 Returns can be fed to corresponding auxes (return 1 summed to aux 1, return 2 to aux 2 etc.).
Each return can also be fed to the LR.
PFL switch and warning led.

Dual Functionality

WZ14:4:2+ excels as a F-o-H console, as a Monitor mixer, or as a combination of the two.

In F-o-H mode the 4 groups and LR feed auditorium speaker arrays, delay systems, dressing rooms, foyers etc, whilst the aux sends provide local monitors and fx.

WZ14:4:2+ becomes a dedicated monitor console by activating tamperproof mode switches. The aux and group/LR feeds are swapped over, giving XLR outs, inserts for graphic EQ's and 100mm fader controls to all 6 aux mixes.

In Dual Mode, as many auxes and groups are swapped over as required, allowing all mixing functions to be provided by a single engineer and a single console.

Engineer's Monitoring

LR output is monitored via 12 segment peak reading bargraph meters, and by the headphone socket (complete with independent level control). PFL/AFL selections override the LR feed, illuminating a warning LED.

Groups and LR are also monitored by a bank of six additional 4 segment level meters, allowing output level monitoring even when PFL/AFL is selected. In monitor mode, the 4 segment meters monitor auxes 1-6, whilst the main 12 segment bargraph follows auxes 5 and 6.

2-Track Send and Return

Separate phono connectors and level trims are provided for 2-track recording from the LR mix. Selecting the LR replay button routes this signal to the LR mix for intermission replay.

Mono Output

The LR mono sum is fed to a balanced XLR output with level control for broadcast feeds, F-o-H fills etc.

In monitor mode, the mono out can be used to feed an engineer's wedge with any AFL/PFL signals.

Output Masters

Groups can be panned to the LR as well as having their own outputs. Signals are sent to the balanced XLR outputs via the faders, on and AFL switches. All XLR outputs have inserts and peak reading meters.

In monitor mode, signals are sent to the balanced jack aux send outputs, via their level controls and AFL, whilst benefiting from all master output features.

Talkback to Auxes

A talkback mic can be connected via a front panel XLR socket, allowing talkback to auxes in selected pairs.

Oscillator & Pink Noise Generator

A 1kHz signal can be routed through level controls and meters to 2-track recorders for level alignments. A pink noise generator allows checking of frequency response and phase connections for speaker arrays.

Apart from the headphone and talkback plugs on the front panel, all connections are made to the QCC panel which can be swung and fixed for rear or back orientation.							
Inputs	Connector			Impedance	Level		
Mono 1-10	XLR	pin2 hot, 3 cold	balanced } pad out	2k ohm	-60 to -20dBu		
	TRS jack	tip hot, ring cold	balanced } pad in	>10k ohm	-30 to +10dBu		
Stereo ch 11-14	TRS jack	tip hot (L for Mono)	unbalanced	>10k ohm	-20 to +10dBu		
	RCA phono		unbalanced	>10k ohm	-20 to +10dBu		
Stereo returns 1-4	TRS jack	tip hot, ring grnd	unbalanced	>10k ohm	-10dBu minimum		
2-track return	RCA phono		unbalanced	>10k ohm	-10dBu minimum		
Talkback mic	XLR	pin2 hot, 3 grnd	unbalanced	2k ohm	-40 to -15dBu		
Inserts							
Channel 1-10	TRS jack	tip send, ring return	unbalanced	<75 ohm, >3k ohm	0dBu		
L-R mix/Groups	TRS jack	tip send, ring return	unbalanced	<75 ohm, >7k ohm	-2dBu		
Outputs							
Direct, ch 1-10	TRS jack	tip hot, ring cold	impedance balanced	<75 ohm	-0dBu		
Aux 1-6	TRS jack	tip hot, ring cold	balanced	<75 ohm	+4dBu		
2-track send	RCA phono		unbalanced	<75 ohm	-10 dBV minimum		
L,R,M,Groups	XLR	pin2 hot, 3 cold	balanced	<75 ohm	+4dBu		
Headphones	TRS Jack	tip L, ring R, on front panel	30 to 600 ohm headph	iones recommended			
Mains power inlet	Standard IEC	3 pin L,N,E. IEC to moulded	plug (country-dependent),	internally wired for requir	ed worldwide voltage.		

WZ16:2DX & WZ12:2DX

16 Mic/Line Inputs

 XLR and TRS Jack balanced inputs on all channels, with switchable 30dB pad.

+48V Phantom Power globally selected.

Individual channels can be disabled via internal links. Low noise, low distortion preamps handling

input levels from -60dBu to +10dBu. ◆ Jack insert points for compressors, gates etc.

◆ 100Hz low-cut filters for eliminating unwanted noise

◆ 4 band EQ with 2 parametric mids for precise colouring and correction. All bands offer up to 15dB cut or boost, plus centre detents for EQ lockout.

• 6 aux sends on individual controls, giving up to +6dB boost. Auxes 1-2 are set pre fader for cues and monitors, 3-4 are switchable pre/post and 5-6 are post fader for FX. Aux sends are taken post EQ and post ON switch, although these configurations can be reversed using internal links.

 Constant power Pan controls give smooth balancing across the L-R buss.

Channel on switches are marked by a warning led for instant recognition.

Peak levels and PFL are indicated by a large red led

◆ 100mm travel, long-life faders give maximum control and up to +10dB of boost.

 Direct outs on impedance balanced TRS jacks facilitate hands-free multitrack recording.

2 Stereo Returns

 Separate balanced L+R jacks on each channel pair.

ST1 has feeds to both aux 1 and aux 2.

ST1 has ON switching for easy FX muting.

Masters + Monitors L-R

The main L-R outputs are on separate full 100mm faders. For graphic EQ's and other signal processing, global insert jacks are provided for signal takeout/injection on the master L-R buss.

Aux Master Sends

Each of the 6 aux mixes has its own master level control. Up to 4dB boost is available to the impedance balanced output jacks.

WZ12:2DX unique features 2 Dual Stereo Inputs

• Separate A and B sources on phono and 1/4" jack connectors.

◆ 4 band EQ.

• Routing to all auxes, plus internal links to configure selected auxes as stereos.

 Outputs to busses, with stereo image determined by a balance control

Peak and PFL led and switch.

Mono and Stereo Aux Monitoring

WZ16:2DX and WZ12.2DX's unique monitoring system allows headphone monitoring of a single aux or to a pair of auxes in stereo for stereo monitors and recording feeds.

Bargraph Meters

Twin 3 colour, 12 segment bargraph meters follow the selected monitor source

PFL

A red LED lights when PFL is selected, as PFL overrides all other monitor sources.

Headphones

Monitor source signals are fed to the stereo headphone jack via an independent phones level control.

DOBITAL D

When you need effects, the WZ16:2DX and WZ12:DX offer a quantum leap of performance. The dedicated on-board digital effects processor can be configured as a single stereo effect or two independent stereo effects, allowing you to select from 32 (yes, thirty two!) effects. Combined with the two stereo effects returns channels, this gives you up to four stereo effects in your mix without tying up valuable channels as effects returns.

Allen & Heath has carefully selected the algorithms for the effects processor. In Single Mode, the processor is driven from Aux 5 with 16 different effects programs available. In Dual Mode, processing is provided on both Auxes 5 and 6, with 8 independent programs available on each. Whichever mode you

Monitor Select Switchbank

A column of switches gives quick selection of monitor and meter sources. Fed post-master level, the aux signals can be selected individually for mono listening or in pairs for stereo and balance checks. Stereo returns are selected in stereo pairs.

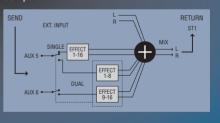
AB Out

WZ16:2DX and WZ12.2DX features an innovative independent stereo or monoed output. The AB out can be fed from the L-R mix pre or post fader, or from the selected monitor source. As it offers its own level control, this versatile output can be used to feed a 2-track recorder, broadcast line, speaker fill, studio monitors, engineer's wedge or employed for any number of other special applications.

effects_

choose, the effect returns to the mix via FX return channel ST1. External effects can also be mixed into this channel via the dedicated iack connectors. Auxes 5 and 6, can still be used as conventional aux sends to drive external processors or foldback amplifiers.

The MIDI IN socket on the rear panel provides program change capability via MIDI and also enables presets to be edited using an external computer.



Inputs	Connector	,		Impedance	Level	
Mono ch	XLR	pin2 hot	balanced	mpoullios		
	, LEIT	tip hot	balanced			
pad out		up not	Sulanood	2k ohm	-60 to -20dBu	
pad in				>10k ohm	-30 to +10dBu	
Stereo ch ST1-2	TRS jack	tip hot	balanced	>10k ohm	-10dBV (+4dBu option)	
Stereo ch 11-14 (12 only)	TRS jack	tip hot (L for Mono)	unbalanced	>10k ohm	-20 to +10dBu	
(),	RCA phono	· · · · · · · · · · · · · · · · · · ·	unbalanced	>10k ohm	-20 to +10dBu	
Inserts	·					
Ch 1-16	TRS jack	tip send, ring return	unbalanced	<75 ohm, >10k ohm	0dBu	
L-R	TRS jack	tip send, ring return	unbalanced	<75 ohm, >10k ohm	-2dBu	
Outputs						
Direct, ch 1-16	TRS jack	tip hot	impedance balanced	<75 ohm	0dBu	
Auxes 1-6	TRS jack	tip hot	impedance balanced	<75 ohm	-2dBu (+4dBu bal. option	
A-B	TRS jack	tip hot	impedance balanced	<75 ohm	-2dBu (+4dBu bal. option	
L-R	XLR	pin 2 hot	balanced	<75 ohm	+4dBu	
Headphones	TRS jack	tip L, ring R		30 to 600 ohm headphones recommended		
Mains power inlet	Standard IEC	3 pin L,N,E.				

WZ14:4:2+ SPECIF	ICATIONS						
OdBu = 0.775 Volts rms	OdBV = 1 Volt rms	Frequency response		Mains power	Internal unit, linear regulated		
		20Hz to 50kHz	+0/-1dB	AC mains input	100 to 240V AC @ 50/60Hz		
Maximum output level					Switch mode p	oower supply wit	h autosensing
XLR and jack	+25dBu	Total harmonic distortion					
	into 2k ohm load	THD+noise measured at +14dBu 1kHz		Power consumption	35W max		
	Channel to mix output < 0.006%		Mains fuse rating				
Internal headroom	Internal headroom			100-120V AC use	T630mA 20mm		
Mix to output	+23dB	Crosstalk measured at 1kHz, ref dr	iven channel	220-240V AC use	T315mA 20mr	n	
Channels	+21dB	Channel fader down	< -90dB	Machanical anasifis			
		Channel off	< -90dB	Mechanical specific		Llaight	Danth
Peak LEDs	Turn on 5dB before clipping			Dimensions (mm)	Width	Height	Depth
	5 5 5 5 F F F F	Noise measured rms 22Hz to 22kH	_	Desk mounted	483mm	195mm	530mm
		NOISE MEASURED THIS ZZHZ TO ZZKH.	Z	Rack mounted	483(19")	444(10U)	135
Meters		Mic EIN referred to 150 ohm source	<-128dB	Packed	590	260	610
L,R: Peak reading 12 segment, 3 colour, led bars		L-R residual output noise	<-97dBu (101dB S/N)		Unpacked	Packed	
Auxes/Groups+L,R (6 meters): 4 segment led		L-R faders unity mix noise	<-87dBu (-91dB S/N)	Weight	10kg	13kg	

WZ14:4:4+ Options

Sys-Link™ Expander System	:	WZ1442+ - SL1
Dual Sys-Link™ Expander System	:	WZ1442+ - SL1
RIAA Equalisation	:	WZ1442 - RIAA

WZ16:2DX & WZ12	2:2DX SPECIFICATIONS						
OdBu = 0.775 Volts rms	OdBV = 1 Volt rms	Frequency response		Mains power	Internal unit		
		20Hz to 50kHz	+0/-1dB	AC mains input	100 to 240V AC @ 50/60Hz		
Maximum output level					Switch mode p	oower supply wit	h autosensing
L-R	+27dBu into 600 ohm	Total harmonic distortion					
	max load	measured at +14dBu 1kHz		Power consumption	30W max		
All other outputs	+21dBu into 2k ohm	Channel to mix out	< 0.008%	Mains fuse rating			
	max load			100-120V AC use	T315mA 20mr	n	
		Crosstalk measured at 1kHz		220-240V AC use	T630mA 20mm		
Internal headroom		Channel fader down	< -90dB				
Mix to output	+23dB	Channel off	< -90dB	Mechanical specifications			
Channels	+21dB			Dimensions (mm)	Width	Height	Depth
		Noise measured rms 22Hz to 22kHz		Desk mounted	483mm	195mm	530mm
Peak LEDs	Turns on 5dB before clipping	Mic EIN referred to 150 ohm source	-128dB	Rack mounted	483(19")	444(10U)	135
		L-R residual output noise	< -90dBu (-94dB S/N)	Packed	590	260	
Meters		L-R faders unity mix noise	< -84dBu (-88dB S/N)		Unpacked	Packed	
Peak reading 12 segment 3 colour led bargraph				Weight	10kg	13kg	

MixWizard Wooden Surround Option : WZ-DSR



0VU = +4dBu at L-R output

ALLEN & HEATH Kernick Industrial Estate, Penryn, Cornwall TR10 9LU. Tel: +44 (0)1326 372070 Fax: +44 (0)1326 377097 http://www.allen-heath.com Fine WZ14:4:2+, WZ16:2DX & WZ12:2DX complies with the European Directives for Electromagnetic Compatibility 89/336/EEC & 92/31/EEC



H A Harman International Company

AP3510