

ME Personal Mixing System

GLD is fully compatible with the ME Personal Mixing System. ME puts the musician in control of their own monitor mix. Each performer's ME-1 personal mixer can be set up to work perfectly for them, whether they crave maximum control over the fine details of their mix or just want the minimum of keys to press. ME-1 is easy to use, with straightforward controls, a clear display and custom naming for instant familiarity. Learn more at www.allen-heath.com/me

- Fully customisable
- Intuitive operation
- Compact, smart design
- 40 sources from GLD
- Daisy chain or use PoE Ethernet hubs

PERSONAL MIXING SYSTEM



Accessories



AH8721 120m drum of Cat5 cable

120m (393ft) drum of Cat5 with locking connectors made by Klotz. This is the most flexible Cat5 cable for mobile use on the market



AH7000 80m Cat5 Etherflex Drum

80m (264ft) drum of Neutrik Etherflex cable with EtherCon locking connectors.



LEDLamp

LEDLamp is a variable brightness 18" gooseneck lamp.



Dustcover

Black water repellent 4°z polyester dustcover with purple piping and sewn on GLD logo



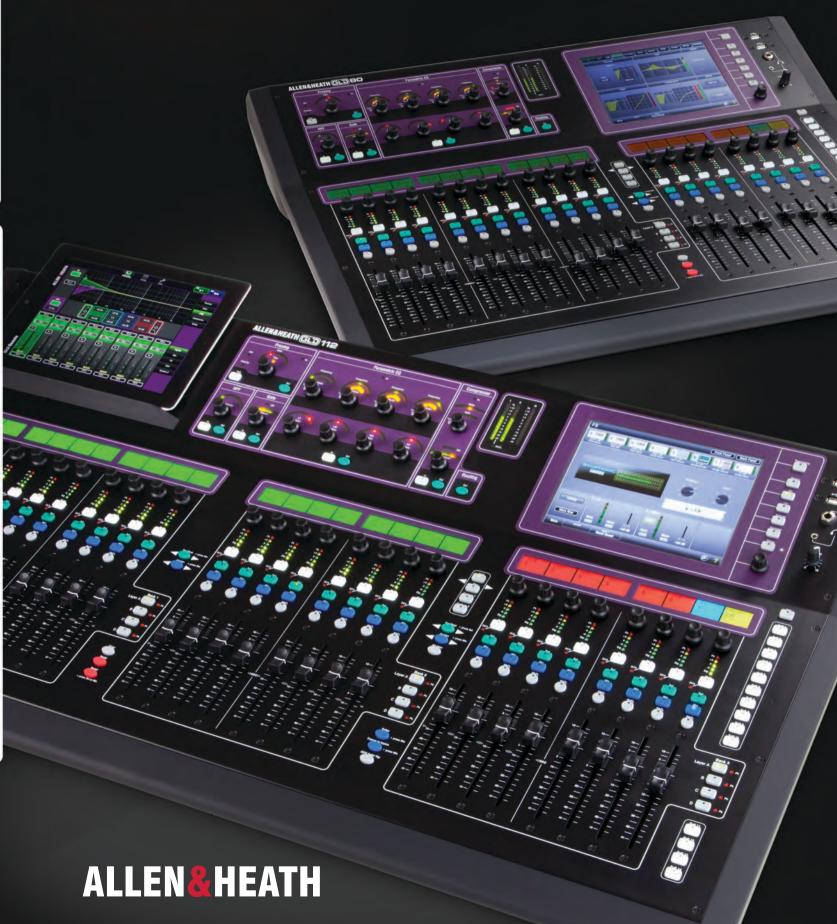








DIGITAL MIXING SYSTEM





ACCESSIBLE, FLEXIBLE, DIGITAL

GLD inherits the key benefits of our iLive pro touring system and makes them affordable for the kinds of hardworking rental companies, houses of worship and live venues that have used and loved our GL series analogue mixers for many years.

GLD is a complete digital mixing system. Our dSNAKE Cat5 digital multicore together with our plug 'n' play audio racks and expanders make it simple and affordable to build the system as your needs grow. Networking cards let you link GLD systems, make multi-track recordings or connect with other equipment. A Monitor port allows connection to the ME Personal Mixing System.

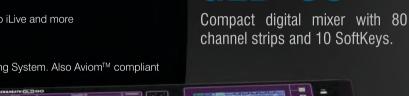
Analogue veterans, digital converts and novices alike will feel at home with GLD, thanks to a balance of WYSIWYG analogue-style controls and intuitive touchscreen interface. The layout and appearance of the GLD-80 and GLD-112 mixers can be customised quickly and easily, providing an interface that logically mirrors your application and puts the operator at their ease.

As you would expect from Allen & Heath, GLD delivers outstanding audio performance, with a new high-end mic preamp, low latency and the DSP muscle to provide full processing without compromise. GLD's FX engines are taken directly from the iLive system and feature beautifully crafted emulations of industry classics.

Finally, a professional system that delivers all the benefits of digital mixing at the price of an analogue mixer—and that's before you think about all the outboard gear it replaces.

THE GLD FAMILY

- Compact digital mixer with scalable, remote I/O
- Systems from 4 to 44 mics
- Easy to use, quick to access, analogue style interface
- dSNAKE Cat5 digital snake—up to 120m cable length
- 8.4 inch colour touchscreen for graphical view and setup
- 48 input channels into 30 assignable buses (Aux, Group, Matrix, Main, FX Send) into 20 mix outputs
- 8 stereo RackFX engines with dedicated 'short' returns with 4-band PEQ
- Full processing on all inputs including trim, polarity, HPF, insert, gate, 4-band PEQ, compressor and delay
- Full processing on all outputs including insert, PEQ, GEQ, compressor and delay
- LR, None (monitors), LR+M (sum), LR+M (bus), LCR main mix modes
- USB stereo recording and playback
- 16 DCAs / mute groups
- Built-in Talkback, RTA and Signal Generator
- I/O module options for FOH/Monitor split, multitrack recording, link to iLive and more
- MIDI In/Out and Ethernet Network port
- Monitor port on main AudioRack for connection to ME Personal Mixing System. Also Aviom™ compliant
- High end 1dB step recallable mic/line preamps
- User definable channel names and colours
- Engineer's mono Wedge and stereo IEM strips
- Input, output and insert soft patchbays
- Quick copy, paste and reset of mixes and parameters
- Libraries, Scenes and Show memories with USB transfer
- Get started quickly with Template Shows
- Password protectable user profiles



GLD-80







AR2412

24 input / 12 output Main AudioRack

AR84

8 input / 4 output Expander AudioRack





GLD Remote

iPad App

GLD Editor

Offline configuration / Live control software





ME Personal Mixing System

ULTIMATE USER EXPERIENCE

Analogue style processing strip

GLD mixers put essential controls like Preamp, HPF, Gate, Parametric EQ and Compressor right at your fingertips. Hit the Select key on a channel strip and the processing strip becomes the controls for that input or mix, with clear visual displays of current settings and dedicated, analogue style controls.

Customizable surface layout

GLD-112 provides 28 faders arranged in 4 layers for access to 112 independent channel strips. The compact GLD-80 has 20 faders in 4 layers for a total of 80 strips. Not only can you design your own mixer by arranging strips across the surface, but each one comes with a write-on display where custom names and colours for easy identification are coupled with information relevant to the current mix mode.

Manage your mix with 2 buttons. Access all the processing for each strip with Sel and Mix parameters/contributions.

Touchscreen

GLD-80 and GLD-112 feature a colour touchscreen with on-screen keyboard and dedicated data encoder for instant and intuitive access to all key functions and parameters. The user friendly interface has been designed from scratch with simplicity in mind.





THE HEART OF THE SYSTEM

Quickly access preamp gain and Pad, HPF frequency, gate threshold, frequency, gain and bandwidth for each PEQ band, compressor threshold, ratio and gain

Each strip contains coloured display, assignable rotary encoder, 5 LED bar meter, Mute, Select, Mix and PAFL switches, and 100mm motorised fader

GLD-80 has 20 faders in 2 banks. Each bank has 4 layers for access to lots of channels in a compact space.
GLD-112 has a further bank of 8 faders

Copy, Paste or Reset any section of channel processing, a whole channel or mix



GLD Remote App

GLD Remote is an iPad app providing wireless mobile control for GLD. It gives you the freedom to walk the room or stage and control the sound right where it is needed. GLD Remote and a GLD-80 or GLD-112 mixer can work together to provide simultaneous control of independent functions, for example one engineer using the console to mix front-of-house sound, and another using the iPad to mix monitors on stage. Several iPads can be connected, each providing independent control.





FX Emulations

Great sounding reverbs, delays and modulators with an instantly familiar interface

GLD-112 and GLD-80 each boast 8 stereo RackExtra FX engines with the additional, dedicated channels to handle them all without compromise. These feature top quality emulations and developments of popular industry classics. Modelled by our engineers right into the heart of the DSP mix engine, they provide very low latency and instant access to all 8 effects at all times. No need for licences or complex configuration. Any combination of up to 8 FX devices can be loaded. A back panel allows patching as mix send/returns or as insert into specific channels. A front panel view presents a familiar classic knob layout where the user can adjust the many parameters, select from numerous presets and create new ones, and transfer them between systems using a USB key. FX can be returned via input channels or dedicated short returns with 4-band PEQ.

GLD Editor

GLD Editor gives you the ability to configure the system offline before the show, check and edit show files from guest engineers, and control the mix live using a PC or Mac. GLD Editor software is available free of charge and gives complete wired or wireless control of the GLD system using standard TCP/IP Ethernet. Online mode has the ability to carry out different tasks at the same time. For example, monitors can be tweaked on stage using a wireless laptop while another engineer runs the FOH sound check from the mixer. The similarities with the GLD mixer and touchscreen GUI make GLD Editor an invaluable learning and training resource too.





2Tap Delay Generate separate left and right delay from a mono source, each with its own tempo. These can be linked for mono output. Tap the screen dial the value or assign tap tempo to soft kevs for delay from 5ms to 1.36s. Controls let you adjust delay, feedback filters and width to create a wide range of effects

ADT Create classic automate double tracking effects, voice thickening, vintage slap back tape delay loop Generate double or quad tracked voices from a mono source with stereo width enhancement and auto panning control.

Chorus Re-create the classic analogue chorus effects from the 80's using 3 stereo field emulations which can be combined built-in sine or rectified LFO modulator and auto

Flange 3 emulations - subtle airy 'Ambient', classic silky tape based 'Vintage', and an untameable 'Wild' effect. Classic pedal and their many LFO modulation, regeneration and stereo splitting effects implemented here. For classic deep flange set stereo split and stereo spread off, pick triangular mod, vintage and tweak

Gated Verb The traditional gated reverb effect with 'panned' and 'powerbox' presets and the addition of many controls to shape the envelope, adjust diffusion and width, and filter the sound. It brings the 80's effect right up to date with a visual representation of the

Hypabass A sub-harmonic synthesizer classically used in the live environment to generate infra (lower than 35Hz) and sub bass (35-70Hz) from weaker bass programme. It features very low distortion and separate control of these two frequency spectrums

Symphonic A faithful emulation of this simple to use, frequently requested classic 80's chorus. Using just two controls it produces a rich and lively chorus sound with suggestion of mild phasing. Two presets satisfy the popular live sound application -SymphonicVox and **SymphonicStrings**

Reverberation Based around 4 complex spatial modes - Classic. Hall, Room, EMT. Each of these models employ different reflection and decay algo-rithms to provide natural sound spaces. Important parameters are always visible, 'Expert' pages add many more parameters as the offset control. found on top end pro touring units.

Spatial Modelling

12 Stage Phaser Classic 12 stage circuitry creating rich textured phasing with control of feedforward, feedback stages and 'zero' depth manual mode. The characteristic sound is produced by careful emulation of the phase chain and operating frequency range around

DeEsser A dual-channel DeEsser featuring automatic threshold detection, adjustable lower frequency response and reduction, and a listen button to allow monitoring of the

PitchDoubler A fully stereo, wide-range pitch shifting doubler effect with minimal phasing / flutter artefacts adjustable delay and width control. The doubling effect is achieved by provision of time delay and

VocalShift VS1 A fully stereo, low latency vocal pitch large shifts of up to +/- 1 octave with a further switchable

The Rotator is an extensive emulation of a rotary speaker unit, reproducing this characteristic sound by modelling the separate along with their crossover. The effective microphone positions can be adjusted and a simulation of the tube distortion found in a

classic rotary speaker



PLUG & PLAY SYSTEM BUILDING

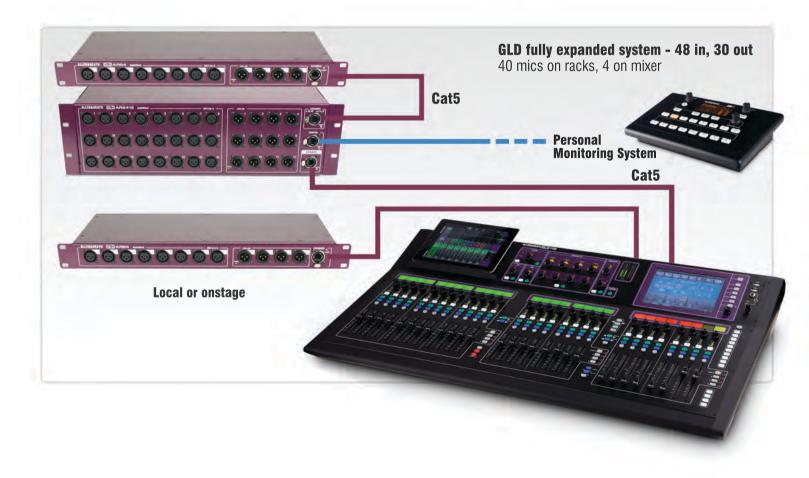
True plug 'n' play

GLD gives you the freedom to put your I/O where you need it and the flexibility to expand and adapt your system as your needs change. Although GLD-112 and GLD-80 are capable of standalone operation, they come into their own when connected to the main GLD-AR2412 AudioRack and up to two GLD-AR84 expanders. All components in a GLD system are connected over up to 120 metres (over 390ft) of Cat5 cable, so no more bulky, costly copper multicores.









EXPANDABLE SYSTEM WITH FLEXIBLE I/O

GLD-80 Mixer (GLD-112 has the same connectors)



GLD-AR2412 AudioRack



24 XLR Mic/Line inputs
12 XLR Line outputs

Cat5 dSNAKE port to connect to GLD-80 / GLD-112 Mixer

Monitor port for connection to ME Personal Mixing System. Also Aviom™ compliant.

Expander port to connect a GLD-AR84 AudioRack

GLD-AR84 AudioRack



8 XLR Mic/Line inputs
4 XLR Line outputs

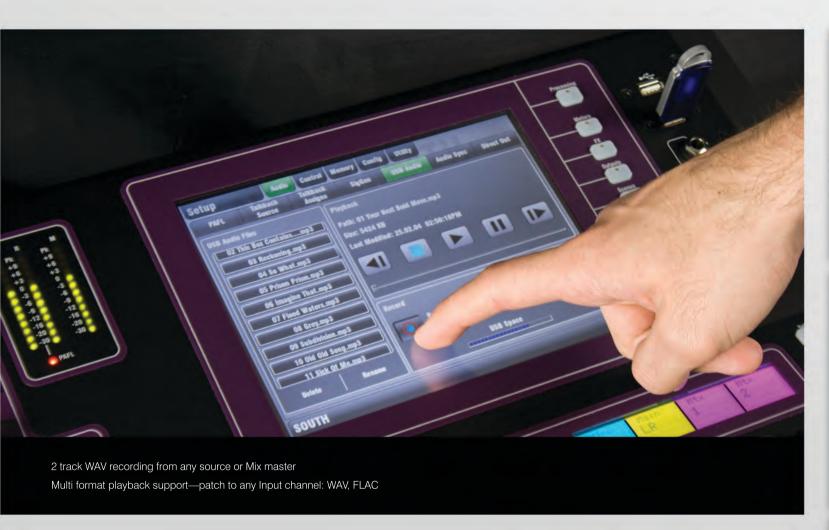


Connects to a GLD-AR2412 on stage or directly to the mixer

RECORD, PLAY, TRANSFER & ARCHIVE

Easy to Capture

Nowadays everybody wants a recording of the show. No problem. Capturing a high quality stereo recording with GLD could not be simpler - plug in your USB stick, patch your source and press record.



T

Easy to Backup

Use your USB stick to perform firmware updates, archive & transfer Libraries and Shows.

One of the major advantages of going digital is the ability to take a complete snapshot of the mixer with the press of a button. GLD can store all parameters and settings into Scenes and recall them all at will. All the scenes can be wrapped up into a Show so that at the end of the night settings can be saved or archived to USB.

Personalised settings for each processing block, channel or FX can be saved as Library presets, which can be transferred to USB key for backup or use on another GLD system.

EXPAND, CONNECT, INTEGRATE

Option Cards

A range of option cards allows GLD systems to be connected using Dante, MADI, EtherSound and more. Multichannel recording and digital split can easily be configured using GLD's extensive soft patching.

ACE

ACE (Audio & Control over Ethernet) is Allen & Heath's own, cost-effective multichannel protocol. With up to 64 channels to and from another GLD or iLive system, it's ideal for a FOH/Monitor digital split and affordable audio distribution.



DANTE

Connect to any Dante-enabled device with Audinate's AVB-ready, TCP/IP friendly Dante protocol, and record / playback up to 64 tracks with a Cat5 cable and the Dante Virtual Soundcard (ASIO / Core Audio compatible) - no need for third party interfaces.



MADI

Industry standard MADI is a frequent choice of equipment interconnection in live, studio and broadcast applications. Connect up to two, 64 channel bidirectional MADI streams with up to 150m of coaxial cable, and set the Aux BNC connector to daisy-chain or split signals to multiple devices.



WAVES

Hook up a Waves Server for high-precision, ultra low latency plug-in processing, multitrack recording and playback, benefitting from Waves audio-over-Ethernet SoundGrid technology—specifically designed for real-time audio applications.



EtherSound

A popular low latency industry networking standard supporting 64 channels of bidirectional audio over Cat5 cable, EtherSound can link to a significant number of third party devices available for audio distribution, recording and more.



MMO

MiniMultiOut gives you a variety of formats for multichannel digital output including 3x ADAT ports (24 channels), Aviom™ (16 channels) and links to Allen & Heath's iDR series or the Hear Back personal monitoring system.



SPECIFICATIONS GLD

Width x Depth x Height 483 x 220 x 48mm (19" x 8.6" x 1.9") 1U rack 600 x 330 x 143mm (23.6" x 12.9" x 5.6") 3kg (6.6lbs) 4.4kg (9.7lbs) 48KHz +/-100PPM 24-bit Delfa-Sigma 24-bit Delta-Sigma 1.49ms (GLD-80/112 local XLR in to XLR out) 0.68ms (GLD-80/112 local XLR in to digital out) Width x Depth x Height 483 x 220 x 137mm (19" x 8.6" x 5.4") 3U rack 600 x 350 x 250mm (23.6" x 13.7" x 9.8" 5kg (11lbs) 6.4kg (14lbs) +18dB 0dBu +18dBu = 0dBFS (+22dBu at XLR output) 0dB meter = -18dBFS (+4dBu at XLR out) -3dBFS (+19dBu at XLR out) Fast (peak) response 112dB -90dB 0/-0.25dB @ 20Hz, 0/-0.5dB @ 20kHz 0.0055% -68dBu @ +17dBu output, 1kHz 0.0022%, -84dBu @ +9dBu output, 1kHz Width x Depth x Height 730 x 577 x 159mm (28.7" x 22.7" x 6.2") 930 x 730 x 290mm (36.6" x 28.6" x 11.4") 16.5Kg (36lbs) 21.2Kg (46.6lbs) 0 deg C to 35 deg C (32 deg F to 95 deg F) Width x Depth x Height 999 x 577 x 159mm (39.3" x 22.7" x 6.2") 1193 x 730 x 290mm (47" x 28.6" x 11.4") 21Kg (46.3lbs) 27Kg (59.5lbs) 64 channel bi-directional A&H ACE, MADI, Dante, ES, Waves, MMO Weasured balanced XLR in to XLR out, 20-20kHz, minimum Gain, Pad out 100-240V AC, 50/60Hz, 95W max 100-240V AC, 50/60Hz, 105W max 100-240V AC, 50/60Hz, 70W max 100-240V AC, 50/60Hz, 20W max 2 channel, WAV, FLAC 2 channel, 48kHz / 16bit - WAV Dynamic Range System Signal to Noise Frequency Response System peak level THD+N System Line level THD+ N GLD-AR2412 AudioRack Unpacked Packed in shipping box Unpacked weight Packed weight Headroom Internal operating Level dBFS Alignment Meter Calibration Meter Peak indication Meter Type Unpacked Packed in shipping box Unpacked weight Packed weight GLD-AR84 AudioRack Unpacked Packed in shipping box Unpacked weight Packed weight Unpacked Packed in shipping box Unpacked weight Packed weight GLD-112 Mixer Sampling Rate ADC DAC Latency GLD-80 GLD-112 GLD-AR2412 GLD-AR84 USB Playback USB Record GLD-80 Mixer I/O Port Card Options Dimensions and Weights Mains Power Balanced, (All XLR on GLD-80/112 and AudioRacks) Fully recallable
-60 to +15dBu
+5 to +60dB, ~1dB steps

Balanced, Relay protected <75\Omega + 4d\omega = 0d\omega meter reading +2d\omega u +2d\omega (muted, 20-20kHz)

XLR Outputs
Output Impedance
Nominal Output
Maximum Output Level
Residual Output Noise

Outputs

48kHz sampling rate RCA, 600mV, coax terminated input 75 Ω XLR, 2.5Vpp balanced terminated 110 Ω

Digital Outputs
SPDIF
AES3 2 ch XLR output

Balanced, Relay protected <750 OdBu = 0dB meter reading +18dBu (muted, 20-20kHz)

RCA Line Outputs Output Impedance Nominal Output Maximum Output Level Residual Output Noise

Unbalanced (GLD-80/112)
-24 to +24dBu, nominal 0dBu
+/-24dB, recallable
+ 18dBu
> 10k\(\Omega\)
-92dBu 20-20kHz
0.0035\% -90dBu @ 1kHz, 0dBu output

RCA Line Inputs
Input Sensitivity
Trim
Maximum Input Level
Input Impedance
RCA channel Noise
RCA channel THD+N

20-20kHz, Direct Out @ unbalanced out -127dB with 150Ω source -90dBu -93dBu -89dBu

Mic/Line Channel noise
Mic EIN
Unity gain (Pad in)
Low gain (5dB, Pad out)
Mid gain (30dB, Pad out)

-32dBu >4kΩ (Pad out), >10kΩ (Pad in)

XLR Mic/Line Inputs
Mic/Line Preamp
Input Sensitivity
Analogue Gain
Pad
Maximum Input Level
Input Impedance

20-20kHz, Direct Out @ unbalanced out 0.005% -86dBu @ 1kHz, 0dBu output 0.003% -89dBu @ 1kHz, 0dBu output 0.004% -88dBu @ 1kHz, 0dBu output

Mic/Line Channel THD+N Unity gain (Pad in) Low gain (5dB, Pad out) Mid gain (30dB, Pad out)

20 Mix Processing Channels External Input Trim Polarity Insert Delay GEQ	GEQ Fader Flip Mode PEQ Type Frequency Range Analogue Ranges Band 1 Band 3 Band 4 Band 4 Bell Witth Shelwing Type Hi-Pass, Lo-Pass Filter	Compressor Sidechain Sidechain Lo-Cut Filter Sidechain Hi-Cut Filter Threshold Ratio Attack Release Manual Types Auto Types	Internal FX Types Mode EX:Short' Return Channels 8 Stereo dedicated returns Controls FX Return PEQ Talkback High Pass Filter Routing Signal Generator Sine, Bandpass sweep Controls Routing RTA	Peak Band Indication
Mix Processing			FX Processing	
100mm motorised GLD-80 - 2 Independent banks - 12, 8 faders GLD-112 - 3 Independent banks - 12, 8, 8 faders 8.4" TFT, 800x600 resolution 4 Layers per Bank GLD-80=80x strips GLD-112=112=112x strips LCD per strip, assignable backlight colours GLD-80 = 10 assignable, GLD-112 = 14 assignable MIIDI In and Out TCP/IP Ethernet (for future application) Mono = 1-44, Stereo = 45/46, 47/48	+/-24dB digital trim Normal/Reverse 12dB/octave 20Hz – 2kHz Assign to any sockets, In/Out, +4dBu/-10dBV level Up to 85ms Input global setting - ms, feet, meters, samples Self key, In/Out, Sel 'listen' 12dB/octave, Freq 20Hz – 5kHz 72dBu to +12dBu 0 to 60 dB 50us to 300ms 10ms to 5s	4-Band fully parametric, +/-15dB Globals setting for Inputs = 20-200Hz or 'Analogue' 20-200Hz, 35-1KHz, 500-15KHz, 2k-20KHz Selectable LF Shelving, Bell, Hi-Pass Bell Bell Selectable HF Shelving, Bell, Lo-Pass Non-constant Q, variable, 1.4 to 1/9th octave Classic Baxandall	Self key, In/Out, Sel 'listen' 12dB/octave, Freq 20Hz – 5kHz 12dB/octave, Freq 120Hz – 20kHz 12dBu to 18dBu 1:1 to infnity 300us – 300ms 100ms – 2s Soft/Hard Peak Manual, RMS Manual VocalAuto, OptoAuto, PunchBag Individual Trim (per channel) Source, follow Fader, follow Mute (global for all)	
Faders Fader Banks Touch Screen Control Strips Strip Display SoftKeys MIDI Network 48 Input Processing Channels	Trim Polarity High Pass Filter Insert Delay Gate Sidechain Lo-Cut Filter Sidechain Hi-Cut Filter Depth Attack	release PEQ Type Frequency Range Analogue Ranges Band 1 Band 3 Band 3 Bal Width Shelving Type Hi-Pass, Lo-Pass Filter	Compressor Sidechain Sidechain Lo-Cut Filter Sidechain Hi-Cut Filter Threshold Ratio Attack Release Knee Manual Types Auto Types Channel Direct Out Options	

8x RackFX engine Reverbs, Delays, Modulators, Sub-harmonics etc. Send>Return, Inserted, Daisy Chain FX

Adds to inputs for up to 56 sources to the mix Fader, Pan, Mute, Routing to Grp, Aux, FX, Main Same as Input Channel PEQ

Assignable source 12dB/octave, 20Hz-2kHz To Groups, Aux, Main, Matrix

Sine, White Noise, Pink Noise, Bandpass Noise 20-20kHz Level, Mute To Groups, Aux, Main, Matrix

31-Bands 1/3 octave 20-20kHz Follows selected PAFL source Option to display dominant frequency

Configure as mono/stereo Groups, Aux, Main, Matrix Mains = None, LR, LCR. LR+M(bus), LR+M(sum)

Assign to any sockets, In/Out, +4dBu/-10dBV level

Assignable source +/-24dB digital trim Normal/Reverse

Up to 170ms Mix global setting - ms, feet, meters, samples

4-Band fully parametric, +/-15dB Global setting for Mixes = 20-20kHz or 'Analogue' 20-200Hz, 35-1kHz, 500-15kHz, 2k-20kHz Selectable LF Shelving, Bell, Hi-Pass

Selentable HF Shelving, Bell, Lo-Pass Non-constant Q, variable, 1.4 to 1/9th octave Classic Baxandall 12dB/octave

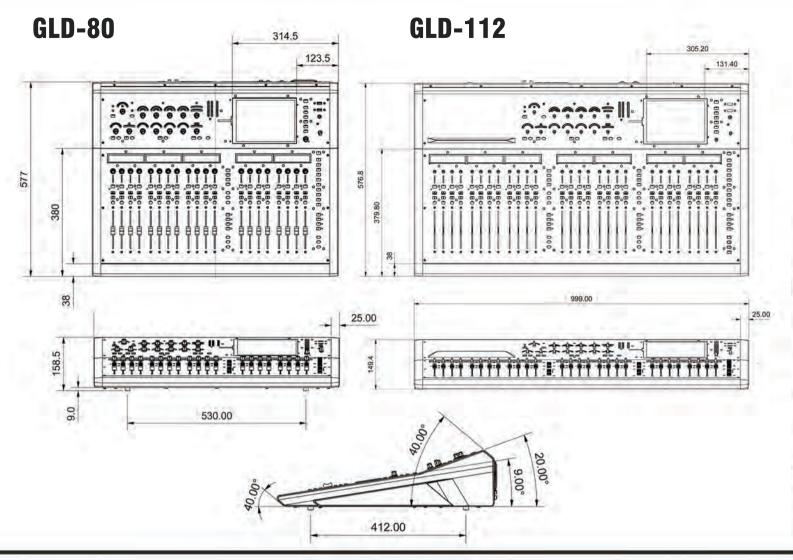
Self key, In/Out, Sel 'listen'
12dB/octave, Freq 20Hz – 5kHz
12dB/octave, Freq 120Hz – 20kHz
-46dBu to 18dBu
1:1 to infinity
300us – 300ms

Soft/Hard Peak Manual, RMS Manual VocalAuto, OptoAuto, PunchBag filter in/out with sel 'listen'

77-1200 Voorlapping frequency banks on strip faders layer 1 - 31-1kHz + Mix master fader layer 2 - 500-16kHz + Mix master fader SEL key resets frequency band to 0dB RTA following PAFL is displayed on strip meters

Constant 1/3 octave, 28 bands 31Hz -16kHz +/-12dB

Input Processing



DIMENSIONS AND SYSTEM BLOCK DIAGRAM

