## SOUNDLINK HYBRID

The convenience of Analog.

ANALOG/DIGITAL MIXERS

The power of Digital.



## The best mixer's the one that sounds great **and** is easiest to use.

t's a rare mixing situation that doesn't throw you some

curves. As Greg
Mackie put it,
"...feedback, timid
presenters, vocalists who suddenly
double their
volume, mic
mis-handling,
groups you've
never mixed
before...if it can go
wrong it will sooner
and more often
than you expect."

Greg Mackie (short bio at right) has been live mixing for almost 50 years.

Interestingly enough, he helped design a current all-digital mixer —-you know, a mixer with less controls but lots of screen menus and "bank switching"

Conclusion?

to get to the channels. He used it for a while mixing bands, talent shows, speaking events, etc.



Greg Mackie founded TAPCO in the 70's to make the first practical band mixers. Then in 1990, he formed the eponymous company truly revolutioned both live and studio recording for cash-strapped musicians and seasoned pros alike. After retiring for that company in 2002, he's been busy designing for others and himself.



Born in London, UK, Peter worked at Trident Audio for 18 years (10 years as Head of R&D) assembling, testing and designing now-legendary high-end analog studio and mixers. He moved to the USA to join Mackie Designs, staying for 7 years as VP of Engineering and Chief Designer for Digital Mixers and related products. In 2003 Peter founded Stonepower Ltd as an Independent professional audio design house, working on projects for numerous brands.

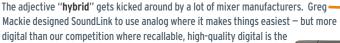
"I discovered that the all-digital interface simply would not let

> me make changes and corrections fast enough — too many menus and scrolling. On the other hand, I found the equalization, effects, dynamic processing, and presets of digital."

SoundLink is Greg Mackie and Peter Watts' **HYBRID** solution, superbly interpreted and executed by KORG.

It gives you analog's almost instantaneous control for the emergencies that inevitably happen, but with the power of high-quality

digital effects where it counts.



best solution. We think it lives up to the word "hybrid" more fully than any other mixer in its price range.



On the other end of these Input Gain knobs are SoundLink's **HiVolt microphone preamps**. They run at a higher voltage than any other comparably-priced mixer on the market. That means higher input

headroom so that speech and loud instruments don't distort.

One-knob Compression takes the complexity out of using this critically important signal processing effect...especially on
vocals/spoken word. Ours is rack-mount studio processor
quality thanks to the Peter Watts touch.



Sure, every mixer has channel strip **EQ** controls. What's important is that they are designed to naturally and subtly enhance music/speech instead of sounding heavy-handed and

obvious. Peter Watts' "big console" design nailed it.



No other mixer in SoundLink's price range has incredibly useful **Mute Groups**. The buttons here and on the Master Section, let you chose what combination of

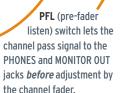
channels you want to have live without having to fiddle with multiple channels. This means you can have a different mute group for different songs, or an acoustic number, or separate Mute Groups for Sermon, Choir, Soloist, Testimony, etc. Mutes are internally lighted red or yellow to distinguish between single Mute or Mute Group states.



Assign a channel to any of 4 stereo buses (8 mono

bus outputs) or main L/R. Useful for many purposes such as separate feeds for rear fill/side, subwoofer out, etc. Our competitors only give you 2 stereo buses.

Silky-smooth **60mm Alps**® faders. Alps is the Mercedes Benz of linear and rotary controls. They cost more and work better, resist dust better, and last for many years.



Do you really need a whole "ladder" of Input Level LED's on every channel? Nope. What each channel needs to "tell" you during mixing is: *A*) Is the channel passing audio?, *B*) is the channel going into clipping? So Greg specified -20 and OL (overload) LEDs on each channel and put them right next to each fader.



KORG



Some mixers have an input for hooking up a smart phone, tablet or MP3 player for music during breaks. But surprisingly few put that input on the FRONT of the

mixer where it's convenient. And fewer still make it an 1/8"
jack instead of a 1/4" jack that requires an adapter. This input
feeds channels 23 and 24 on the MW-2408 and Channels 14 and 16 on
the MW-1608.



Digital done right: Sophisticated multi-band, dual "Q" Equalization; adjustable Compressor, Limiter and Noise Gate; automatic Feedback Suppressor (that actually works well without digital artifacts), 31-band Spectrum Analyzer for pin-pointing feedback, and 20 of KORG's highly-respected 32-bit digital effects. All this is tweak-able, savable, recallable and visible on the fluorescent display.

Digital processing and effects are frustrating if they're buried in some long, scrolling menu inside a



menu. Nine direct buttons for EQ and other control features, and a row of individual L/R, AUX 1 and Aux 2 assign buttons for both Equalization and Dynamics makes mixing easier.

MUSICIAN'S PHONES controls and

MUTE GROUPS are two of Greg

Mackie's features that have users
saying "Why didn't anyone else
think of that?". MUSICIAN'S
PHONES lets you create custom
mixes for musician's headphones,
in-ear or wedge monitors



And finally, a word about build quality. Both SoundLink mixers have sturdy steel frames that resist flexing during load-in and load-out. Their real wood side panels also add to rigidity. The premium surface rotary controls resist impacts from above.

brochure for more information.

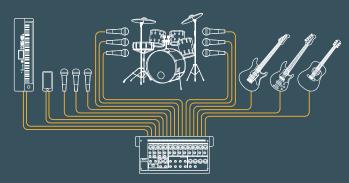
This mixer has 24 channels that you can SEE and TOUCH at one time, instead of being faced with maybe 8 faders and a "bank switch" button. On a design like that, good luck getting to Channel 17 instantly when a vocalist suddenly gets too loud.

PFL PFL PFL PFL

Four stereo sub-mixes (8-buses) let you combine, for example, all of the drum mics or all of the background vocal mics onto a single fader. Or send different mixes to eight separate points like subwoofers or balcony fill or crying room.

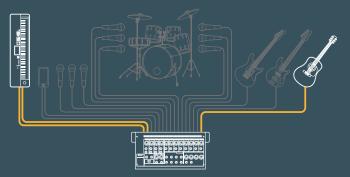
PFE AFE AFE AFE

#### THE POWER OF SOUNDLINK MUTE GROUPS

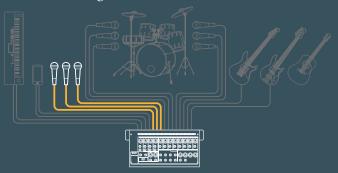


Above is a theoretical full band input line up into an MW-1608. You're satisfied with the levels (fader positions) of everything during most of the set. But in one song, there's only a vocal, an acoustic guitar and keyboard. You could quickly pull down 13 channel faders and lose your settings.

Or you could create and save a MUTE GROUP that has just 2 inputs. Activate it any time from the Master Section.



Here's another MUTE GROUP for a 3-voice acapella number. It's a form of digital automation made affordable!



## The power of SoundLink digital

Greg Mackie and Peter Watts' brilliant graphic EQ solution is just the start of SoundLink's comprehen-



HYBRID ANALOG/DIGITAL MIXER

Select

Edit

DYN TYPE SELECT

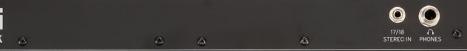
P01:Limiter

P02:Comp Hard P08:Comp Soft

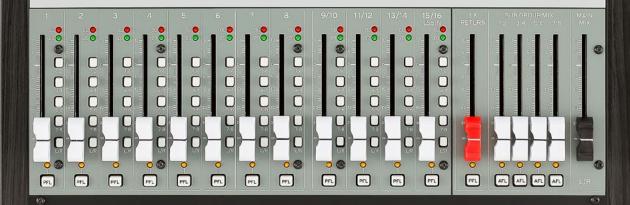
- sive arsenal of digital tools.
- Save and load:
- Global settings for **Memorization Mode LCD Contrast**
- 5 preset and 10 user Dynamics settings
- Peak Slow/Fast and Normal Slow/Fast Master meter display
- Peak Slow/Fast and Normal Slow/Fast Spectrum Analyzer display
- 6 ParaGraphic EQ settings
- 24 preset and 30 user Digital Effects settings
- You can select your choice of Limiter, Hard Compressor, and Soft Compressor. Each Dynamics processor has two parameter controls
- Assign the Feedback Suppressor to AUX 1, AUX 2 or L/R
- KORG premium digital FX:
- Hall Reverb normal & Warm
- Room Reverb normal & Warm
- Vocal Reverb normal & Warm
- Plate Reverb normal & Warm
- Spring Reverb normal & Warm
- Analog Delay
- Tape Echo
- Variable Standard and KORG SDD3000 Delay
- Chorus
- Flanger
- Low Bass Booster

Plus 4 test tones for use with the Spectrum Analyzer















## Even from the back, you can tell this is a serious mixer.

Foot Switch input lets you turn effects on and off quickly. Optional foot switches are available from your KORG dealer.

Newly-designed HiVolt microphone preamps — even on the TALKBACK channel!

When you go to hook your SoundLink to your speakers, you'll appreciate balanced XLRs as well as balanced 1/4" TRS outputs.

Stereo channels — four on the MW-1608; eight on the MW-2408.

Another exclusive SoundLink feature: outputs for two customized musician monitor mixes via AUX 3 and 4. Dedicated controls inject more or less of the LR main mix in with the musician's own instrument.



With microphone preamps as good as our HiVolts, you'll get more detail and nuances out of any microphone.
+48-volt Phantom Power lets you take advantage of premium condenser microphones.

Stereo USB port lets you capture performances and rehearsals at up to 48 kHz/24 bits.AND it can be used as a stereo *input* routed through Channels 15-16 (or 23-24 on the MW-2408). Perfect for adding backing tracks to a live mix.

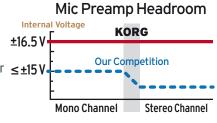
Eight-bus flexibility not found on any other competitive 16/24-ch mixer. Eight mono outputs can be used for drum or backing vocal submixes, subwoofer out, rear or side fills, extra musician monitors, balcony fill, church foyers and crying rooms, or feed an 8-channel A/D recording interface.

#### HiVolt preamps amp up headroom.

Internal operating voltage
determines how much headroom
a microphone preamp has. Our
competitors use around 15 volts
on mono channels and even lower
voltages on stereo channels' mic
preamps.

Internal
±16.5 V

±16.5 V



KORG HiVolt mic preamps run at +/-16.5 volts, the highest of any comparably-priced mixer — on stereo as well as mono channels. That means you can handle hotter inputs without distortion. And did we mention how good HiVolt preamps sound?

# GREG MACKIE AND PETER WATTS' INGENIOUS DIGITAL PARAGRAPHIC EQ SOLUTION



A 31-band equalizer is like a scalpel.

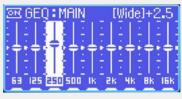


In conjunction with a 31-band Spectrum Analyzer, you use it "surgically" on just a *few narrow bands* to reduce room acoustic problems and overall system feedback\*.

So although you *need* all 31 narrow bands, you rarely *use* anywhere near 31 sliders at once.

That fact is at the heart of Greg Mackie

and Peter Watts'
9/31-band
ParaGraphic
equalizer. You can
select *any* 9 of 31
bands at one time.



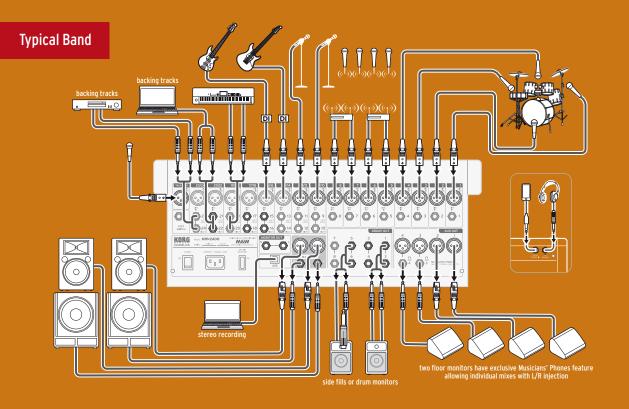
Only the ones needed to correct for boominess, standing waves, reflective surfaces or any of the other problems a lot of rooms have.

Make adjustments with 9 real buttons. In effect, SoundLink mixers create this:

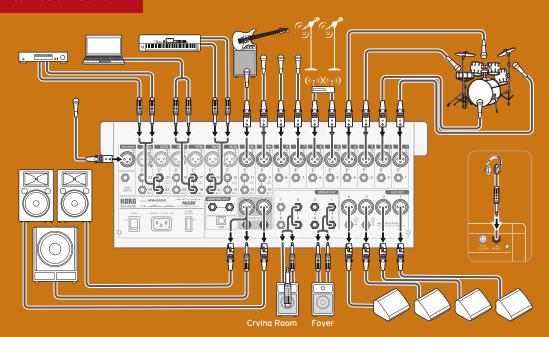


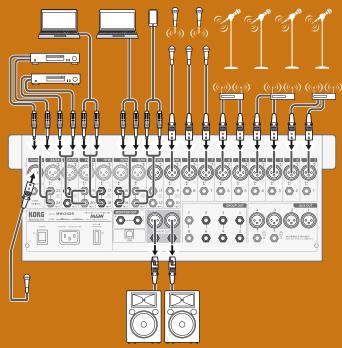
without needing a ginormous physical display. "ParaGraphic" is a play on Parametric, a type of equalizer that can vary the steepness and width of the EQ curve. SoundLink digital provides wide (1-octave) and Narrow (½-octave) bandwidth. You can also use the buttons and display as a hands-on basic, 99-band equalizer. Up to 6 EQ settings can be saved and recalled.

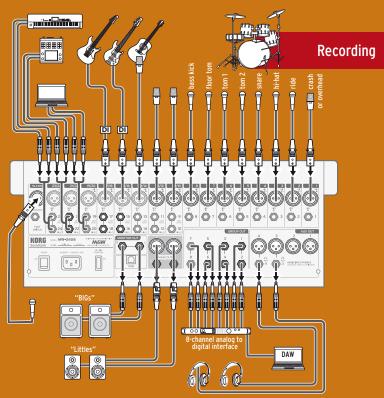
<sup>\*</sup>Our Feedback Suppressor works on a different source of feedback. You need both.

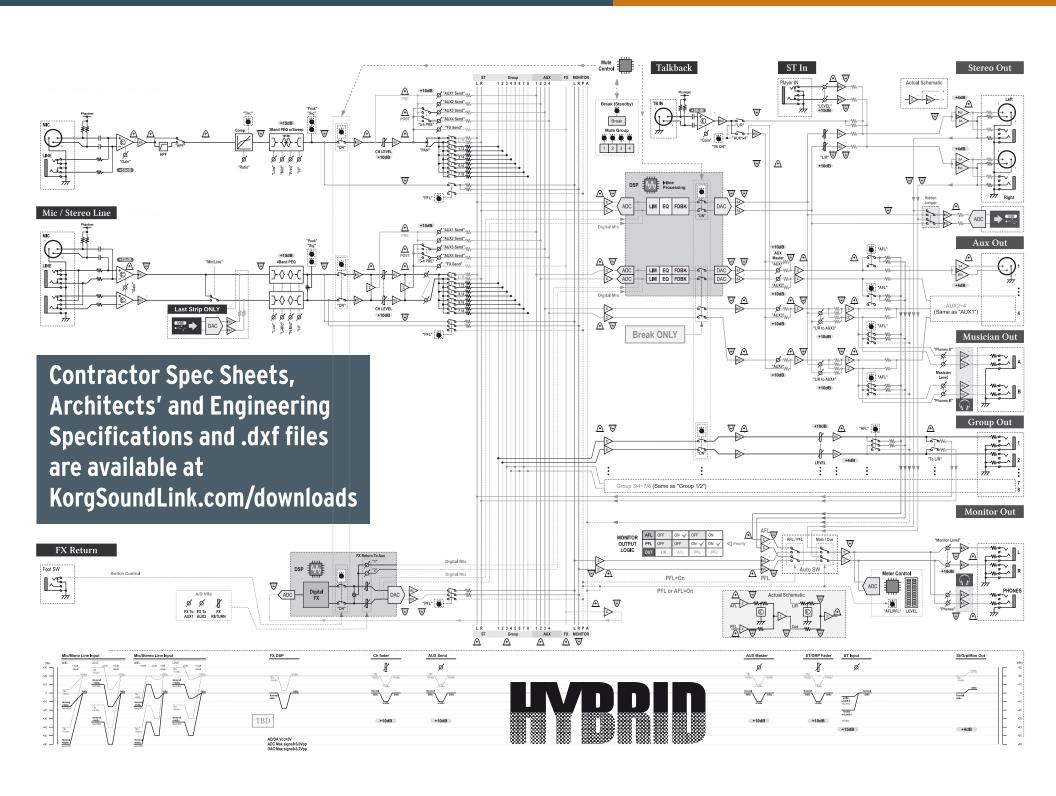


#### Small to medium church









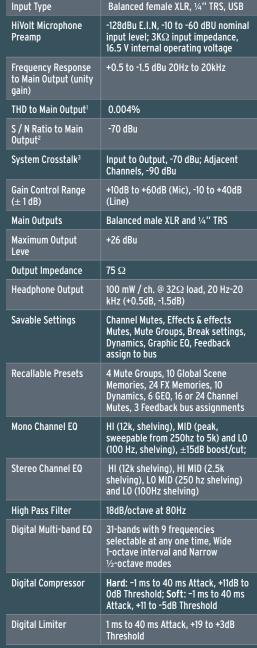
#### SoundLink MW-1608 & MW-2408 Hybrid Analog / Digital Mixers





- True hybrid design developed with mixer design legends Greg Mackie and Peter Watts
- 24 x 8 x 2 or 16 x 8 x 2 models
- Peter Watts-designed HiVolt mic preamps, with more headroom than any comparably-priced mixer (±16.5V internal voltage on mono and stereo channels)
- Velvet Sound™ A/D & GEO: MAIR D/A converters with 0.004% THD.
- Practical design structure and ingenious features make it easier to mix unpredictable live performances
- L/R Monitor, ¼" and XLR main outs, eight ¼" Group Outs, four XLR Aux Outs, two ¼" Musician's Phones outputs linked to Aux 3 & 4, front panel Headphone output, stereo USB output
- Eight mono/four stereo individual output buses (true 8-bus design)
- Unique Musician's Phones Monitor Section gives two musicians individual control of how much of "me" versus the total mix they hear
- Only mixer in its class with Mute Groups to quickly create and recall various input combinations of onstage musicians

- Mono channels have Peter Wattsderived HI (12k), MID (250 hz - 5k sweepable) and LO (100 Hz) EQ; Stereo channels feature HI, HI MID (2.5k), LO MID (250 hz) and LO EQ
- Digital section includes Peter Watts-designed Compressor, Limiter and Noise Gate, each with editable, recallable parameters
  - Ingenious 9/31band ParaGraphic EQ addresses nine bands out of a possible 31
- Twenty of KORG's renowned 32-bit digital effects 10 at once, save and recall user settings
- Foot switch control for FX
- Talkback to L/R or to Aux 1-4
- Peter Watts-derived rack-mountprocessor-grade, one-knob Compressor on all mic channels
- Best Automatic Feedback Control of any compact mixer
  - USB stereo output/input Input for optional foot switch
- Super-useful touches such as all-XLR speaker outputs and enhanced Break Switch with 1/8" input
- Silky-smooth, long-life ALPS® faders and rotary controls
- ■MW-2408 fits in a 19" rack
- ■iZotope™ Elements included



	Digital Noise Gate	Hard – 40ms to 1500ms Release, -35 to +7dB Threshold; Soft – 40ms to 1500ms Release, -50 to +4dB Threshold
	Spectrum Analyzer	24-channel with Peak Hold function, assignable to main L/R, AUX 1 or AUX 2
	Main L/R Bus ADC Dynamic Range	115dB (A-wtd)
	Aux and FX Buses ADC Dynamic Range	111dB (A-wtd)
	DAC Dynamic Range for all Out buses	115dB (A-wtd)
	USB Stereo Input / Recording Port	USB Class 1
	Internal Processing	32-bit for internal processing;
	A/D/A Bit Depth	Korg Tru-Bit-Perfect 32-bit
	USB Bit Depth	24-bit
	Sampling rates	48 kHz, 44.1 kHz
	Digital Effects	Rev Hall, Rev Hall Warm, Room, Warm Room, Rev Vocal, Rev Vocal Warm, Stage, Stage Warm, Plate Reverb, Plate Reverb Warm, Spring Reverb Warm, Analog Delay, Tape Echo, Variable Delay, Delay of the Korg SDD3000, Chorus, Flanger, Exciter, Sub Bass booster, I kHZ Test Tone, Slow Sweep, Fast Sweep, White or Pink Noise
	Power Connector	IEC
	Input-Voltage Range	100 to 240 VAC, 50/60 Hz
	Power Requirements (continuous)	45 W
	Recommended Ambient Operating Temperature	0° to 40° to Celsius /32° to 104° Fahrenheit
	Dimensions (W x H x D)	MW-2408: 18.9" x 7.36" x 20.89"/ 480 mm x 187 mm x 530 mm (17.3" / 440 mm wide without side panels, 19" with rack rails); MW-1608: 15.6" x 7.36" x 20.89"/ 396 mm x 187 mm x 530 mm (10.6" / 256 mm wide without side panels)
	Weight	MW-2408: 20.5 lbs / 9.3kg MW-1608: 17.6 lbs / 8.0kg

1) 20-20 kHz, unity gain, unweighted • 2) Ref = +4 dB, 20 kHz BW, unity gain, A-weighted • 3) Ref = +4 dBu, 20 Hz-20 kHz, unwtd)
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