

# QSC<sup>®</sup>

## PROFESSIONAL



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[qsc.com](http://qsc.com)

## POCKET GUIDE

WINTER 2017



Since 1968, QSC Professional has been serving the sound reinforcement needs of performers, audio professionals and entertainment venues. Whether it be our legendary amplifiers, industry-leading loudspeaker lines or cutting-edge digital mixers, QSC live sound solutions set up quickly, are easy to use, sound amazing, look professional, are reliable year after year, and deliver real and lasting value. We design our products and systems to help inspire great performances and deliver amazing experiences for audiences everywhere. That's our mission and our promise.

The following pages represent our latest products and technologies. Designed to give you a brief overview, this Guide should be considered a supplement to the Products and Solutions pages online at [qsc.com](http://qsc.com).

There, you will find a fully updated, comprehensive set of information, documentation, tools and images that work in tandem with this Guide. Additionally, our online education site, [qsctraining.com](http://qsctraining.com) is another great resource to learn more about QSC products and solutions.

Thank you for the opportunity to share our passion for audio with you.

Enjoy the Guide.

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## TouchMix™ Series

Compact Digital Mixers



Created for musicians, production professionals and live performance venues, TouchMix™ Series mixers go Beyond Mixing™ to deliver amazing results to users at all levels of experience. For live sound professionals, TouchMix has everything you would want and expect in an advanced, world-class mixing console — in a package small enough to be carry-on luggage. For more casual users TouchMix Presets, Wizards and Simple Modes help you get a professional mix quickly and easily.

### “Big Mixer” Features and Specifications

TouchMix Series “no asterisk” specifications include 4-band, fully parametric EQ with variable hi- and lo-pass filters, as well as comprehensive dynamics processing on each input channel. Four mix busses feed four internal professional, digital effects processors (six busses and six processors on TM-30). Comprehensive dynamics, graphic EQ, hi-pass, lo-pass and notch filters and delay are available on both the main and aux outputs and there are 8 DCA groups with mutes as well as 8 mute groups. The TouchMix-30 Pro additionally offers 8 Sub groups with their own extensive processing as well as a Patch Matrix for “mulitng” of inputs and a powerful copy-and-paste function. With 4/10/14 Aux output channels (TM-8/16/30), TouchMix also has ample stage monitor mixing capability and all models have the ability to drive wired stereo in-ear monitors directly.



TouchMix-30 Pro



TouchMix-8

TouchMix-16

### Fast, Professional Results

TouchMix features a comprehensive library of Channel Presets designed specifically for the unique requirements of live sound reinforcement. Created utilizing all types of instruments, popular microphones and pickups as well as multiple types of speaker systems, these presets help the user achieve great results quickly. Effects and Gain Wizards further assist the user in achieving great results quickly. The TM-30 also features powerful and intuitive Anti-Feedback and Room Tuning Wizards as well as two real-time analyzers (RTA).



TouchMix's  
Professionally  
Designed Preset  
Library

### Compact and Complete

The TouchMix Series models are completely self-contained and require no external PC or video display. The graphic, color touch-screen (multi-touch on TM-30) provides access to all mix parameters along with a physical rotary encoder and hardware buttons for fast and precise touch-and-turn operation. The available Remote Control App for iOS and Android phones and tablets controls mixer parameters wirelessly. An included USB Wi-Fi adapter (TM-8/16) creates the network connection between the mixer and the hand-held device while wired or wireless connection to an external or infrastructure router is also supported. All mixers are capable of direct, multi-track recording to an external USB hard drive in 32-bit broadcast wave format and transferred to/from an external computer with the free, available DAW Utility. The TM-30 also serves as a 32-channel interface for DAW software running on Mac® computers. TM-8/16 also ship complete in their own padded carrying case for transport and protection.

## TouchMix™ Series

### Compact Digital Mixers

	<b>TouchMix-30 Pro</b>
<b>Display</b>	10" (254 mm), 1024 x 600 pixel, color TFT, capacitive multi-touch sensing
<b>Inputs</b>	
Total	32
Mic/Line	24 (20 XLR, 4 XLR combo)
Line	6 (1/4" TRS + top panel 1/8" (3.5 mm) TRS)
USB MP3 Playback	Stereo
Talkback	1 (XLR with 48 V)
<b>Outputs</b>	
Total Mix Outputs	16
Main L/R	2 (XLR)
Aux	14 (XLR)
In Ear Monitor (Stereo)	2 (1/4" TRS from Auxes 11/12 and 13/14)
Cue (Stereo)	1 (1/4" TRS)
Monitor (Stereo)	2 (XLR)
<b>Input Channel Processing</b>	
Equalization	4-band Parametric EQ with Hi/Low Shelving Option, Variable 24 dB/octave HPF and LPF
Dynamics	Gate and Compressor
Delay	100 msec.
<b>Output Channel Processing</b>	
1/3 Octave GEQ	Main L/R, Aux 1-14
Parametric EQ	Main L/R, Aux 1-14
Notch Filters	12 bands, all outputs
Other	100 msec Delay/Limiter/HPF/LPF, all outputs
<b>Sub Group Processing</b>	6-band PEQ, HPF, LPF, Limiter
<b>Recording / Playback</b>	
USB MTR Direct to Hard Drive	32 x 32
DAW Computer Interface	32 x 32 (Core Audio, Mac OS only)
Stereo MP3	Playback from USB
<b>Groups</b>	8 DCA, 8 Mute, 8 Subgroups
<b>Cue</b>	Selectable, AFL, PFL, Solo in Place
<b>Effects</b>	6 Effects Engines (Reverb, Echo, Delay, Chorus, Pitch Shift), 1 Pitch Correct
<b>Real Time Analyzer</b>	2 x 1/3 octave
<b>Preset Memory</b>	99 User Scenes/Presets, 120 Factory Presets
<b>External Control</b>	TouchMix Control app for iPad/Android controls all mixer functions via Wi-Fi
<b>Wi-Fi</b>	USB Wi-Fi router or Wi-Fi dongle (not included)
<b>Mixer Dimensions (HWD)</b>	7.5" x 16.9" x 18.1" (19 cm x 42.9 cm x 46 cm)
<b>Weight</b>	17.5 lb (7.9 kg)
<b>Power Requirements</b>	100-240 VAC, 50-60 Hz
<b>Sampling Frequency</b>	Selectable 44.1 kHz or 48 kHz
<b>THD</b>	<0.005%, +4 dBu; 20 Hz-20 kHz, unity gain, any input to any output

## Specifications

	<b>TouchMix-16</b>	<b>TouchMix-8</b>
	6.1" x 3.5" (156 mm x 90 mm), color TFT, touch sensing	6.1" x 3.5" (156 mm x 90 mm) color TFT, touch sensing
	20	12
	16 (12 XLR, 4 XLR combo)	8 (4 XLR, 4 XLR combo)
	2 Stereo (1/4" TRS)	2 Stereo (1/4" TRS)
	N/A	N/A
	1 (XLR)	N/A
	12	6
	2 (XLR)	2 (XLR)
	6 (XLR), 2 (Stereo, 1/4" TRS)	4 (XLR)
	2 (1/4" TRS from Auxes 7/8 and 9/10)	1 (1/4" TRS from Auxes 3/4)
	1 (1/4" TRS)	1 (1/4" TRS)
	1 (1/4" TRS)	N/A
	4-band Parametric EQ with Hi/Low Shelving Option, Variable 24 dB/octave HPF and LPF	4-band Parametric EQ with Hi/Low Shelving Option, Variable 24 dB/octave HPF and LPF
	Gate and Compressor	Gate and Compressor
	N/A	N/A
	Main L/R, Aux 1-6	Main L/R, Aux 1-4
	Auxes 7/8 and 9/10	N/A
	6 bands, all outputs	6 bands, all outputs
	100 msec Delay/Limiter/HPF/LPF, all outputs	100 msec Delay/Limiter/HPF/LPF, all output
	N/A	N/A
	22 x 22	14 x 14
	N/A	N/A
	N/A	N/A
	8 DCA, 8 Mute	8 DCA, 8 Mute
	Selectable, AFL, PFL	Selectable, AFL, PFL
	4 Effects Engines (Reverb, Echo, Delay, Chorus, Pitch Shift), 1 Pitch Correct	4 Effects Engines (Reverb, Echo, Delay, Chorus, Pitch Shift), 1 Pitch Correct
	N/A	N/A
	99 User Scenes/Presets, 120 Factory Presets	99 User Scenes/Presets, 120 Factory Presets
	TouchMix Control app for iPad/Android controls all mixer functions via Wi-Fi	TouchMix Control app for iPad/Android controls all mixer functions via Wi-Fi
	Wi-Fi router (with USB-to-Ethernet adapter) or included Wi-Fi dongle	Wi-Fi router (with USB-to-Ethernet adapter) or included Wi-Fi dongle
	2.3" x 14.2" x 11.5" (5.8 cm x 36.0 cm x 29.1 cm)	2.2" x 13.1" x 9.6" (5.6 cm x 33.3 cm x 24.5 cm)
	5.9 lb (2.98 kg)	4.3 lb (1.95 kg)
	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz
	Selectable 44.1 kHz or 48 kHz	Selectable 44.1 kHz or 48 kHz
	<0.005%, +4 dBu; 20 Hz-20 kHz, unity gain, any input to any output	<0.005%, +4 dBu; 20 Hz-20 kHz, unity gain, any input to any output





## PLD Series – Processing Amplifier

Developed specifically for the needs of portable sound systems, PLD Series amplifiers provide efficient, robust and high fidelity power capable of driving multiple channels and loudspeaker configurations. The PLD line includes three powerful, light-weight, four-channel amplifiers (PLD4.2, PLD4.3 & PLD4.5) with advanced onboard DSP. Flexible Amplifier Summing Technology™ (FAST) actively distributes total amplifier power across one, two, three or all four outputs enabling amp channels to be paralleled or bridged for maximum current and voltage output.

- Capable of up to 5,000 W continuous and 8,000 W peak.
- Flexible Amplifier Summing Technology™ (FAST) permits total amplifier power to be distributed across one, two, three or all four channels.
- Onboard full function loudspeaker processing including Crossover, EQ, Limiting and Alignment Delay eliminate the need for outboard loudspeaker processors.
- Intrinsic Correction™ ensures optimum sonic performance of QSC loudspeakers.
- Preset Wizard simplifies setup providing system design tools and loudspeaker selection.
- Factory Presets can be used as is or modified and stored as one of 50 User Presets.
- Four XLR input connectors and six NL4 Output connectors.
- PowerLight universal switchmode power supply with Power Factor Correction for highest efficiency, improved audio performance, and low weight.
- Rear USB port for connecting to Amplifier Navigator software running on a PC or Mac for control, monitoring, and amplifier management. Amp Navigator also provides on- and off-line editing of Presets and Speaker Profiles along with library management.



	PLD4.2		PLD4.3		PLD4.5	
		Peak	Peak	Peak	Peak	Peak
4 Independent Channels A, B, C, D	8Ω	500 W	900 W	1200 W	1200 W	2000 W
	4Ω	700 W	1400 W	2000 W	2000 W	2000 W
	2Ω	625 W	1200 W	1600 W	1600 W	1600 W
2 Channels BTL Bridged A+B or C+D Doubles Voltage	8Ω	<b>1200 W</b>	<b>2400 W</b>	<b>4000 W</b>	<b>4000 W</b>	<b>4000 W</b>
	4Ω	<b>1500 W</b>	NR*	NR*	NR*	NR*
	2Ω	NR*	NR*	NR*	NR*	NR*
2 Channels Parallel AB or CD Doubles Current	8Ω	500 W	1300 W	1250 W	1250 W	1250 W
	4Ω	950 W	<b>2000 W</b>	<b>2400 W</b>	<b>2400 W</b>	<b>2400 W</b>
	2Ω	<b>1200 W</b>	<b>2500 W</b>	<b>4000 W</b>	<b>4000 W</b>	<b>4000 W</b>
1 Channel 3CH Parallel ABC Triples Current	8Ω	500 W	1400 W	1400 W	1400 W	1400 W
	4Ω	950 W	2400 W	2500 W	2500 W	2500 W
	2Ω	1800 W	3500 W	4500 W	4500 W	4500 W
1 Channel Bridged/Parallel AB+CD Doubles Current and Voltage	8Ω	<b>1600 W</b>	<b>3500 W</b>	<b>4500 W</b>	<b>4500 W</b>	<b>4500 W</b>
	4Ω	<b>2500 W</b>	<b>5000 W</b>	<b>7500 W</b>	<b>7500 W</b>	<b>7500 W</b>
	2Ω	NR*	NR*	NR*	NR*	NR*
1 Channel 4CH Parallel ABCD Quadruples Current	8Ω	500 W	1400 W	1600 W	1600 W	1600 W
	4Ω	1000 W	3000 W	3000 W	3000 W	3000 W
	2Ω	<b>1700 W</b>	<b>5000 W</b>	<b>5300 W</b>	<b>5300 W</b>	<b>5300 W</b>

NR\* = Not Recommended due to excessive current draw

BOLD = Optimal configuration for the load and channel count



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

## GXD Series – Processing Amplifier



The GXD Series defines the new amp standard for professional entertainers who require lightweight amplifiers with unmatched performance and flexibility at an affordable price point. This high performance line consists of two amplifiers, the GXD4 and GXD8, each providing enormous Class-D power in a lightweight and efficient package. The universal switchmode power supply helps reduce the weight, increase efficiency, and ensures rock-solid continued operation even with poor power conditions. The addition of on-board DSP processing with an easy-to-use interface offers powerful tools like Crossover and EQ filters, Delay, and Power Limiting that allow the user to configure the amplifier and maximize the performance of their loudspeakers. The GXD Series amplifiers are engineered to meet any demanding application and provide excellent power and legendary QSC reliability, in an efficient, lightweight, and flexible package; bottom line, the GXD amplifiers provide outstanding value!

- Total power of 4500 W and 1600 W means real power for your application.
- Extensive and powerful loudspeaker processing to maximize loudspeaker performance including Crossover and Parametric EQ filters, Delay, and Power Limiting.
- Power levels matched to the most popular loudspeakers and optimized for the maximum real-world headroom into 4  $\Omega$  and 8  $\Omega$  loudspeakers.
- Class-D output power with a universal switchmode power supply for high performance and efficiency, as well as light weight.



GXD4 Rear



GXD8 Rear

Watts per channel			
Model	8 $\Omega$ Power/Channel	4 $\Omega$ Power/Channel	Max Total Peak Power
GXD4	400	600	1600
GXD8	800	1200	4500

*Both channels driven. 1kHz, onset of clipping  
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**RoHS**

- Parallel XLR and 1/4" TRS input connectors for compatibility with any source while providing convenient loop-thru capability.
- Professional NL4 and Binding Post output connectors provide mono and bi-amp speaker connectivity.
- Front panel LEDs monitor, Power, Signal and Clipping.
- Large LCD display with dual rotary encoders for fast and simple set-up and on-screen monitoring of the output levels.



## PowerLight™ 3 Series

PowerLight 3 Series are our “Ultimate Analog” amplifiers, designed for the most demanding concert and live-sound reinforcement applications. All three models (PL380, PL340 and the PL325) feature the PowerLight™ power supply technology reducing weight, eliminating AC mains hum and improving audio quality. With zero signal latency with select QSC processors for seamless integration and flawless loudspeaker alignment, the PowerLight 3 Series architecture provides users the choice of comprehensive, networked remote control, monitoring and DSP or the cost savings of a simple, straightforward analog input configuration.

- *Class D (PL380) and Class H (PL340 & PL325) topology provide efficient high power performance.*
- *Three-position Input Sensitivity switch simplifies integration of PowerLight 3 amplifiers into existing amp racks and power systems.*
- *User defeatable clip limiters and selectable low-frequency filters (30 Hz, 50 Hz, Bypass).*
- *DataPort connection supports external amplifier control.*
- *Zero signal latency between the DataPort and compatible devices such as the DSP-4 rear panel module, Q-Sys™ or QSCControl.net™ BASIS™ units.*
- *XLR and Block Input connectors and Binding post or Neutrik speakON® Output connectors.*
- *Comprehensive internal protection protects amplifiers and loudspeakers against over-current, over-temperature and clipping – without compromising program signal.*



PL380



PL325 and PL340

### Watts per channel

Model	8 Ω	4 Ω	2 Ω
PL325	500	850	1250
PL340	800	1250	2000
PL380	1500	2500	4000

EIA 1 kHz, 1% THD

\*Burst mode testing required due to AC service current limitations

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## PLX2 Series



PLX2 is a powerful, lightweight amplifier line designed to meet the rigorous demands of live musicians and mobile entertainers. The "02" models (1802, 2502, 3102, 3602) can drive loads down to 2  $\Omega$  and include subwoofer or satellite crossover settings. For applications not requiring bridging, 2  $\Omega$  operation, or internal subwoofer signal processing, "04" models (1104, 1804) deliver the same audio performance in a lighter weight, cost-effective unit. With third generation PowerLight™ technology, PLX2 amplifiers deliver superb audio quality with powerful low-frequency performance and feature a professional appearance with a die-cast aluminum front panel acting as an integral I-beam, to create an extremely rugged, road-worthy device.

- *Active Inrush Limiting prevents AC mains circuit breakers from popping during turn-on.*
- *Front panel gain controls (1 dB detents) allow precise input sensitivity adjustment.*
- *Front panel LED status indicators enable system monitoring and troubleshooting.*
- *Balanced XLR and 1/4" TRS parallel inputs accommodate the most commonly used input connectors for live sound and support loop-through routing.*
- *speakON® NL4 output connectors provide a positive-locking speaker connection. Channel 1's output can use all four wires to connect to bi-amplified speakers with a single cable.*
- *Selectable low-frequency filter (33 Hz) protects speakers and increases headroom.*



PLX2 "02" Models



PLX2 "04" Models

### Watts per channel

Model	Stereo		Bridged	
	8 $\Omega$ *	4 $\Omega$ *	2 $\Omega$ **	4 $\Omega$ **
PLX1804	325	550	—	—
PLX1804	600	900	—	—
PLX1802	330	575	900	1800
PLX2502	450	750	1250	2500
PLX3102	600	1000	1550	3100
PLX3602	775	1250	1800	3600

\*1 kHz, 0.1% THD, both channels driven

\*\*1 kHz, 1% THD, both channels driven

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## GX Series

GX Series amplifiers offer maximum performance, portability and reliability and a cost effective price. Ideally suited for use by entertainers, musicians and DJs, the GX line features three models; the GX3 (300 W), the GX5 (500 W) and the GX7 (700 W) each uniquely designed to supply optimal power to the sound reinforcement loudspeakers most often used by entertainment professionals. A built-in crossover facilitates the use of subwoofers while front panel gain controls allow easy access for balancing the sub with the full-range cabinet. GuardRail™ optimizes peak power and protects the system during the most demanding applications.

- Power levels matched to the most popular speakers used by entertainers.
- Optimized for maximum real-world headroom into 4 Ω and 8 Ω speaker systems.
- XLR, 1/4" TRS and phono input connectors.
- speakON® combo and Binding post output connectors.
- Detented gain controls for precise setting and matching of sensitivity.
- Lightweight – GX3 and GX5 less than 26 lb (12.5 kg); GX7 only 15.5 lb (7 kg).



GX5

### Watts per channel

Model	8 Ω	4 Ω
GX3	300	425
GX5	500	700
GX7	725	1000

*Both channels driven. 1kHz, onset of clipping  
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## RMXa Series



RMXa 3RU Models

RMXa Series amps are built upon the proven RMX amplifier line combining legendary QSC reliability and audio performance in a cost effective power amplifier solution. For mid-power applications, the 2RU (RMX 850a, RMX 1450a, RMX 2450a) models feature 4  $\Omega$  power ratings from 300 to 800 watts per channel. For premium loudspeaker systems with extremely high power capacity, the 3RU (RMX 4050a & RMX 5050a) models offer unsurpassed value and performance.

- Independent, defeatable clip limiters reduce distortion and protect speakers.
- Selectable low-frequency filters (30 or 50 Hz) protect speakers and increase headroom.
- Flexible output loading options that allow you to drive low impedance loads down to 2  $\Omega$ .
- Five models to choose from with power ranges from 300 to 2000 watts per channel at 4  $\Omega$ .



RMXa 2RU Models

### Watts per channel

Model	Stereo			Bridged
	8 $\Omega$	4 $\Omega$	2 $\Omega^*$	4 $\Omega$
RMX 850a	200	300	430	830
RMX 1450a	300	500	700	1400
RMX 2450a	500	800	1200	2400
RMX 4050a	850	1400	2000	4000
RMX 5050a	1100	2000	2500	5000

<sup>1</sup> 1 kHz, 0.5% THD    <sup>\*</sup>1 kHz, 1% THD

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- Front panel gain controls for fast and accurate level settings.
- Recessed rear DIP switches for easy selection between stereo, parallel, or bridged mode operation, and the additional choice of enabling/disabling low frequency filter protection.
- Balanced XLR, TRS or Barrier Strip parallel inputs with loop-through capability and NL4 or Binding Post output connectors.







## E Series Passive Loudspeakers



The E Series range of passive loudspeakers offers robust construction, trusted reliability and overall sonic performance beyond expectations. Intended for sound reinforcement in entertainment applications including live performance, DJ and dance music, karaoke and event production, E Series loudspeakers deliver outstanding results and incredible value.

E Series consists of six models constructed of rugged plywood and coated in black, textured paint. Heavy-duty grilles lined with foam provide protection for the woofers and an elegant appearance.

- *Loudspeaker tunings in GXD and PLD Series amplifiers as well as TouchMix Series digital mixers further enhance E Series performance and flexibility*
- *E10 multi-purpose design suitable for main PA and stage monitor*
- *Available U-Style Yoke and M8 rigging kit for permanent installation*
- *Dual-angle pole socket (E10, E12, E15)*
- *E18SW Subwoofer includes speaker pole*

	<b>E10</b>	<b>E12</b>
Frequency Range (-10 dB)	50 Hz - 20 kHz	46 Hz <sup>1</sup> - 20 kHz
Power Capacity	300 W / 1200 W	400 W / 1600 W
System Sensitivity	95 dB, 1 w @ 1 m	96 dB, 1 w @ 1 m
Coverage Angle	85° conical	85° conical
Output <sup>2</sup> (Peak SPL @ 1 m)	126 dB	128 dB
Driver Information		
LF	254 mm (10") driver with 64 mm (2.5") voice coil	305 mm (12") driver with 76 mm (3") voice coil
HF	25 mm (1") exit, 45 mm (1.75") voice coil, compression driver	25 mm (1") exit, 45 mm (1") voice coil, compression driver
Rated Impedance	8 Ω	8 Ω
Input Connectors	2 x NL4, 1 x barrier strip	
Enclosure	11-ply, black texture paint finish. Perforated, powder-coated steel grille with foam lining.	
Net Weight	44 lb / 20 kg	51 lb / 23 kg
Accessories	Cover, Yoke, M8 Eyebolt Kit	Cover, Yoke, M8 Eyebolt Kit

	<b>E15</b>	<b>E215 (Preliminary)</b>
Frequency Range (-10 dB)	43 Hz - 20 kHz	39 Hz - 20 Hz
Power Capacity	500 w / 2000 w	1000 w / 4000 w
System Sensitivity	97 dB, 1 w @ 1 m	98 dB, 1 w @ 1 m
Coverage Angle	75° conical	N/A
Output <sup>2</sup> (Peak SPL @ 1 m)	130 dB	134 dB
Driver Information		
LF	381 mm (15") driver with 89 mm (3.5") voice coil	381 mm (15") driver with 89 mm (3.5") voice coil
HF	38 mm (1.5") exit, 71 mm (2.8") voice coil, compression driver	38 mm (1.5") exit, 71 mm (2.8") voice coil, compression driver
Rated Impedance	8 Ω	4 Ω
Input Connectors	2 x NL4, 1 x barrier strip	
Enclosure	11-ply, black texture paint finish. Perforated, powder-coated steel grille with foam lining.	
Net Weight	68 lb / 31 kg	200 lb / 91 kg
Accessories	Cover, Yoke, M8 Eyebolt Kit	Cover (coming soon), M10 Eyebolt Kit (coming soon)

<sup>1</sup> With QSC processing.

<sup>2</sup> Calculated for 1 m, based on sensitivity (full-space for full range systems and half-space for LF-only and subwoofer systems) and peak power capability of amplifier.

## E Series Passive Loudspeakers

	<b>E18SW</b>	<b>E218SW (Preliminary)</b>
Frequency Range (-10 dB)	32 Hz – 230 Hz	32 Hz – 230 Hz
Power Capacity	800 w / 3200 w	1200 w / 4800 w
System Sensitivity	98 dB, 1 w @ 1 m	101 dB, 1 w @ 1 m
Coverage Angle	N/A	N/A
Output <sup>2</sup> (Peak SPL @ 1 m)	133 dB	136 dB
Driver Information		
LF	457 mm (18") driver with 102 mm (4") voice coil	457 mm (18") driver with 102 mm (4") voice coil
HF	N/A	N/A
Rated Impedance	4 Ω	4 Ω
Input Connectors	2 x NL4, 1 x barrier strip	
Enclosure	11-ply, black texture paint finish. Perforated, powder-coated steel grille with foam lining.	
Net Weight	95 lb / 43 kg	200 lb / 91 kg
Accessories	Cover, 3" Caster Kit	Cover (coming soon), 4" caster kit (coming soon)

<sup>1</sup> With QSC processing.

<sup>2</sup> Calculated for 1 m, based on sensitivity (full-space for full range systems and half-space for LF-only and subwoofer systems) and peak power capability of amplifier.



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



## K Series Active Loudspeakers



The world's favorite powered loudspeaker, K Series features a 1,000 watt, Class D power module and onboard DSP that deliver levels of sonic clarity and total output that exceed expectations for systems of this size and weight. With three full-range models in the line (K8, K10 and K12) plus a subwoofer (KSub), users can select a model based on desired coverage angle for optimum performance.

- *Combo XLR / 1/4" TRS inputs.*
- *Direct thru-puts and balanced summed output.*
- *RCA inputs (full-range models).*
- *On-board mixing of up to three audio sources.*
- *DEEP™ provides extended low-frequency performance.*
- *Intrinsic Correction™ ensures a flat sonic response.*
- *Rugged ABS enclosures (full-range models) with professional appearance.*
- *Monitor deployment angles on K10 and K12 models.*
- *Integrated M10 suspension points on full range models.*

	<b>K8</b>	<b>K10</b>
Frequency Range (-10 dB)	61 Hz – 20 kHz	56 Hz – 20 kHz
Nominal Coverage (-6 dB)	105° conical	90° conical
Output <sup>1</sup> (Peak SPL @ 1 m)	127 dB	129 dB
Amplifier Power	1000 w continuous Class D	1000 w continuous Class D
Current Consumption 1/8 Power <sup>2</sup>	100 VAC, 2.3 A • 120 VAC, 2.01 A • 230 VAC, 1.13 A	
Driver Information		
LF	8" cone transducer	10" cone transducer
HF	1.75" diaphragm compression driver	1.75" diaphragm compression driver
Input Connectors	Balanced female XLR/TRS combination mic/line level input • Balanced female XLR/TRS combination line level input • 2 x RCA (Phono)	
Enclosure	Impact-resistant ABS	Impact-resistant ABS
Net Weight	27 lb / 12.2 kg	32 lb / 14.5 kg

	<b>K12</b>	<b>KSub</b>
Frequency Range (-10 dB)	48 Hz – 20 kHz	44 Hz – 148 Hz
Nominal Coverage (-6 dB)	75° conical	N/A
Output <sup>1</sup> (Peak SPL @ 1 m)	131 dB	130 dB
Amplifier Power	1000 w continuous Class D	1000 w continuous Class D
Current Consumption 1/8 Power <sup>2</sup>	100 VAC, 2.3 A • 120 VAC, 2.01 A • 230 VAC, 1.13 A	
Driver Information		
LF	12" cone transducer	Dual 12" cone transducers
HF	1.75" diaphragm compression driver	N/A
Input Connectors	Balanced female XLR / 1/4" mic/line level input • Balanced female XLR / 1/4" line level input • 2 x RCA (Phono)	Dual balanced female XLR / 1/4" line level input
Enclosure	Impact-resistant ABS	Painted birch plywood
Net Weight	41 lb / 18.6 kg	74 lb / 33.6 kg

<sup>1</sup> Calculated for 1 m, based on sensitivity (full-space for full range systems and half-space for LF-only and subwoofer systems) and peak power capability of amplifier.

<sup>2</sup> 1/8 power is representative of current draw with typical music program material with occasional clipping.



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

## K Cardioid Subwoofer



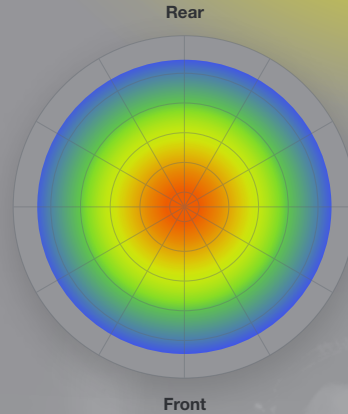
The K Cardioid Subwoofer represents the world's first-in-class single-box powered cardioid subwoofer solution for highly portable entertainment and installation applications.

A breakthrough in innovation and design, the K Cardioid Subwoofer uniquely provides all the benefits of cardioid deployment in a single, compact enclosure. "Keeping bass in its place" for mobile entertainers, AV production and rental professionals, as well as modestly-sized performance venues, the K Cardioid Subwoofer is unparalleled in its ability to manage low frequencies on stage, as well as outdoors or anywhere that excessive noise behind the stage would be undesirable.

Powered by a 1,000 Watt Class D amplifier, processed with the latest DSP technology, and featuring dual 12-inch long excursion drivers each arranged in a 6th order bandpass chamber, these components all combine seamlessly to produce a staggering 15 dB more output at the front of the cabinet than at the rear. Highly portable, the cabinet features comfortable, aluminum handles and four, rear-mounted casters. Two M20 sockets accept a 35mm speaker pole in other horizontal or vertical orientation.

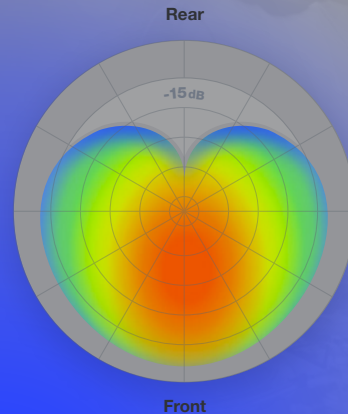
### Shipping mid-2017

(Additional specifications to be announced)



## Typical Subwoofer Energy Dispersion

Most subwoofers radiate energy around the entire enclosure, leading to undesirable LF build-up on stage and wasted energy around the sides and rear of the system.



## Cardioid Subwoofer Energy Dispersion

With -15 dB less energy radiating from the rear than the front, the K Cardioid Subwoofer is unparalleled in its ability to manage low frequencies on the stage, as well as outdoors or any application where undesirable low frequency energy needs to be minimized.

## KW Series Active Loudspeakers



KW153

KW152

KW122

KW181

Built on the highly successful K Series platform, KW Series loudspeakers feature a 1,000-watt, Class D power module with onboard DSP housed in all birch wooden enclosures that deliver superior levels of sonic clarity and total output. With three full-range models in the line (KW122, KW152 and KW153) plus a subwoofer (KW181), users can select a model based on desired coverage angle for optimum performance.

- *Combo XLR / 1/4" TRS inputs.*
- *Variable mic/line input gain.*
- *Direct thru-puts and balanced summed output.*
- *RCA inputs (full-range models).*
- *On-board mixing of up to three audio sources.*
- *DEEP™ provides extended low-frequency performance.*
- *Intrinsic Correction™ ensures a flat sonic response.*
- *All birch plywood enclosures.*
- *Integrated M10 suspension points on full range models.*

	<b>KW122</b>	<b>KW152</b>
Frequency Range (-10 dB)	50 Hz – 20 kHz	43.7 Hz – 20 kHz
Nominal Coverage (-6 dB)	75° conical	60° conical
Output <sup>1</sup> (Peak SPL @ 1 m)	131 dB	133 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power <sup>2</sup>	100 VAC, 2.3 A • 120 VAC, 2.01 A • 230 VAC, 1.13 A	
Driver Information		
LF	12" cone transducer	15" cone transducer
HF	1.75" diaphragm compression driver	1.75" diaphragm compression driver
Input Connectors	Balanced female XLR / 1/4" mic/line level input • Balanced female XLR / 1/4" line level input •	
Enclosure	Painted Birch Plywood	Painted Birch Plywood
Net Weight	49 lb / 22.2 kg	64 lb / 29 kg

	<b>KW153</b>	<b>KW181</b>
Frequency Range (-10 dB)	33 Hz – 20 kHz	34 Hz – 143 Hz
Nominal Coverage (-6 dB)	75° conical	N/A
Output <sup>1</sup> (Peak SPL @ 1 m)	131 dB	130 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power <sup>2</sup>	100 VAC, 2.3 A • 120 VAC, 2.01 A • 230 VAC, 1.13 A	
Driver Information		
LF	15" cone transducer	18" cone transducer
MF	6.5" mid range cone transducer	N/A
HF	1.75" diaphragm compression driver	N/A
Input Connectors	Balanced female XLR / 1/4" mic/line level input • Balanced female XLR / 1/4" line level input •	Dual balanced female XLR / 1/4" line level input
Enclosure	Painted Birch Plywood	Painted Birch Plywood
Net Weight	41 lb / 18.6 kg	74 lb / 33.6 kg

<sup>1</sup> Calculated for 1 m, based on sensitivity (full-space for full range systems and half-space for LF-only and subwoofer systems) and peak power capability of amplifier.

<sup>2</sup> 1/8 power is representative of current draw with typical music program material with occasional clipping.



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.





## KLA Series Active Loudspeakers

**WORLD** of **K**



KLA181/KLA12

KLA12

The KLA Series brings the power and sophistication of a line array system into an easy-to-use product, significantly redefining the line array product category. With its simple “Lift, Click and Play” approach, KLA can be deployed in a fraction of the time required by comparable line array products. This fixed arcuate, active line array system is ideal for a wide range of portable and permanently installed applications ranging from live entertainment to houses of worship or other venues where a line array system is desired.

- 1,000 Watt Class D power module.
- Integrated XLR input with loop thru.
- 90° x 18° coverage (each enclosure).
- Integrated, easy-to-use rigging hardware allows for quick deployment.
- Ar-Q™ (Arcuate Equalization) enables quick tuning of an array with the click of a switch.
- DEEP™ provides extended low-frequency performance.
- Intrinsic Correction™ ensures a flat sonic response.
- KLA12 features an ABS enclosure and KLA181 features a birch enclosure.
- Integrated M10 suspension points.

	<b>KLA12</b>	<b>KLA181</b>
Frequency Range (-10 dB)	44 Hz – 20 kHz	33 Hz – 129 Hz
Nominal Coverage (-6 dB)	90 x 18 degree	N/A
Output <sup>1</sup> (Peak SPL @ 1 m)	131 dB	135 dB
Amplifier Power	500 W x 500 W continuous	1000 W continuous Class D
Current Consumption 1/8 Power <sup>2</sup>	100 VAC, 2.3 A • 120 VAC, 2.01 A • 230 VAC, 1.13 A	
Transducers		
LF	12" cone transducer	18" cone transducer
HF	1.75" diaphragm compression driver	N/A
Input Connectors	Balanced female XLR line level input •	
Enclosure	Impact resistant ABS	Painted birch plywood
Net Weight	55 lb / 25.0 kg	104 lb / 47.2 kg

1 Calculated for 1 m, based on sensitivity (full-space for full range systems and half-space for LF-only and subwoofer systems) and peak power capability of amplifier.

2 1/8 power is representative of current draw with typical music program material with occasional clipping.



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## K Family Accessories

### Available K Series Accessories

- *K8 Tote*
- *K10 Tote*
- *K12 Tote*
- *KSub Cover*
- *K8 Yoke*
- *K10 Yoke*
- *K12 Yoke*
- *K8 Outdoor Cover*
- *K10 Outdoor Cover*
- *K12 Outdoor Cover*
- *K Series Pole Extension*
- *M10 Kit-C*



K8 Tote



K10 Tote

### Available KW Series Accessories

- *KW122 Cover*
- *KW152 Cover*
- *KW153 Cover*
- *KW181 Cover*
- *M10 Kit-W*
- *KW Suspension Kit 122*

### Available KLA Series Accessories

- *KLA12 Tote*
- *KLA181 Cover*
- *KLA AF12 Array Frame*
- *KLA AF12 Array Frame Tote*
- *M10 Kit-C*



K10 Horizontal Yoke



K10 Vertical Yoke



M10 Kit-C



K12 Tote



KSub Cover with two K8 Totes



## WideLine-8 Line Array System



WL3082 shown hung from AF3082-S.

Designed for the most demanding concert and installation applications, the WideLine-8 system packs full size line array performance into an ultra compact package ideal for venues with height or sightline restrictions.

- *Extraordinarily compact (only 20" / 508 mm wide) and lightweight (38 lb / 17.2 kg).*
- *High acoustic output (133 dB SPL peak).*
- *Wide 140° horizontal coverage.*
- *High power, 8" neodymium LF / MF drivers provide low-frequency extension to 62 Hz without subwoofers.*

- *3" diaphragm compression driver on QSC's patented 140° multiple diffraction aperture waveguide (Patent No. 7,177,437).*
- *Patented (D576,660) side-mounted vent ports designed for double duty as handles.*
- *Simple, easy-to-use rigging system supports arrays of up to 12 units with a 10:1 design factor.*
- *Flexible ground stack capability.*
- *Fully supported in EASE and EASE Focus acoustic software.*

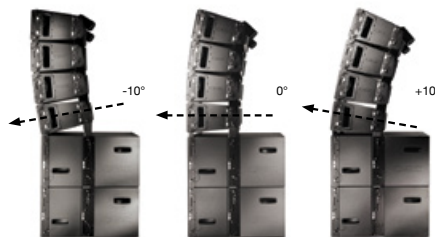
### WL3082

Frequency Range (-10 dB)	62 Hz – 20 kHz
Nominal Coverage	140° H
Peak Output <sup>2</sup>	
LF	128 dB
MF	128 dB
HF	133 dB
Power Handling <sup>1</sup>	
LF	250 W
MF	250 W
HF	100 W
Driver Information	
LF	Dual, 8" woofer, 2.5" voice coil
HF	1.4" exit, 3" diaphragm, neodymium magnet compression
Input Connectors	2 x NL8 in parallel
Enclosure	Premium Birch Plywood
Net Weight (each)	38 lb / 17 kg

<sup>1</sup> Continuous IEC specified test signal, 2 hours unless otherwise stated.

<sup>2</sup> Calculated at 1 m using power capacity and system sensitivity.

6 dB peak-to-average signal ratio assumed.



Four WL3082 on top of two WL212-sw.

As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



## WideLine-8 Subwoofers



GP212-sw

### GP212-sw

- Dual 12" subwoofer in a 4th order bandpass enclosure.
- 135 dB SPL peak output capability.
- Frequency range to 32 Hz (-10 db down point).
- Integrated M10 suspension points.
- M20 threaded pole mount.

### WL212-sw

- Dual 12" subwoofer in a 4th order bandpass enclosure.
- 135 dB SPL peak output capability.
- Frequency range to 32 Hz (-10 db down point).
- May be suspended at the top of a WL3082 array or behind the array.
- Integral suspension hardware also supports WL3082 in ground stack applications.



WL212-sw

	GP212-sw	WL212-sw
Frequency Range (-10 dB)	32 Hz – 107 Hz	32 Hz – 107 Hz
Peak Output <sup>2</sup>	135 dB	135 dB
Power Handling <sup>1</sup> SUB	850 W	850 W
Driver Information LF	Dual 12" transducers, 4" voice coil, ferrite magnet	
Input Connectors	2 x NL8 in parallel and 2 x NL4 in parallel	
Enclosure	Premium Birch Plywood	
Net Weight (each)	99.5 lb / 45.1 kg	99.5 lb / 45.1 kg

<sup>1</sup> Continuous IEC specified test signal, 2 hours unless otherwise stated.

<sup>2</sup> Calculated at 1 m using power capacity and system sensitivity. Assumed 6 dB peak-to-average signal ratio.



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

## WideLine-10 Line Array System

The WideLine™ WL2102-w is a compact, high-output, wide dispersion line array loudspeaker system renowned for its ability to meet and exceed requirements for applications ranging from corporate meetings to large venue reinforcement of high-level popular music. From ballrooms to churches to concert venues, WideLine-10 is known for its full-range, warm, open, natural sound.

- *Patented\* multiple aperture diffraction slot waveguide provides exceptionally wide horizontal coverage (140°) and a near ideal vertical line source.*
- *Exceptionally high output capability in a very compact form factor.*
- *Bi-amp or tri-amp design.*
- *Dual 10" long excursion, high power, low-frequency transducers.*
- *Single 3" diaphragm neodymium compression driver.*

- *WL2102-w Birch ply construction offers reasonable weight (83 lb, 37.7 kg) at a lower cost.*
- *Fully captive hardware design incorporates all components necessary for box to box rigging.*



WL2102-w shown hung from AF2102-LA.

### WL2102-w

Frequency Range (-10 dB)	48 Hz – 20 kHz
Peak Output <sup>2</sup> LF / MF	133 dB / 133 dB
Power Handling <sup>1</sup> HF LF / MF Bi-amp Tri-amp	80 W 600 W 400 W + 400 W
Driver Information LF HF	2 x 10" transducer, 3" voice coil, ferrite magnet 3" titanium diaphragm, neodymium magnet
Input Connectors	2 x NL8 in parallel
Enclosure	Baltic Birch Plywood
Net Weight (each)	83 lb / 37.7 kg

<sup>1</sup> Continuous IEC specified test signal, 2 hours bi-amp mode unless otherwise stated.

<sup>2</sup> Calculated at 1 m using power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.



### Available WideLine-10 Accessories

- *AF2102-LA: May be used to stack twelve (12) or fly twenty-four (24) WL2102-w.*
- *AF8-10: Adapter frame that allows suspension of WL3082 under WL2102-w.*

\*Patent No. 7,177,437

As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

## WideLine-10 Subwoofers



Four WL218-sw shown hung from AF218-sw.



GP218-sw

### WL218-sw

- Simple, convenient suspension system based on the proven QSC WideLine design. Supports up to 8 WL218-sw subwoofers with a 10:1 design factor.
- Very high acoustic output capability - 139 dB SPL (1 m) peak.
- Exceptional "punch" combined with low-frequency extension down to 31 Hz.
- Comprehensive transport and handling features including an easy to attach dolly and twelve thoughtfully placed handles.
- Premium-grade, long-excursion, high-power woofers with 4", fiberglass voice coils, double layer spiders and triple roll surrounds.
- Birch ply enclosure with independent, dual chambers and extensive internal bracing for rigidity and solid, accurate reproduction.

### GP218-sw

- Very high acoustic output capability – 140.5 dB SPL(1 m) peak.
- Tight musical "punch" combined with low-frequency extension down to 27.4 Hz.

- Elegant transport and handling features including an optional transport dolly plus soft cover and four thoughtfully placed handles.
- Premium-grade, long-excursion, high-power woofers with 4", fiberglass voice coils, double layer spiders and triple-roll surrounds.
- 18 mm Birch plywood enclosure with independent, dual chambers and extensive internal bracing for rigidity and solid, accurate reproduction.

### Available WideLine-10 Subwoofer Accessories

- AF218-sw: Array frame
- CVR218: Soft cover for WL218-sw
- CVRGP218: Soft cover for GP218-sw
- CP218-0: Caster pallet for GP218-sw

	GP218-sw	WL218-sw
Frequency Range (-10 dB)	27.4 Hz – 1.2 kHz (without processing)	31 Hz – 1 kHz (without processing)
Peak Output <sup>2</sup>	140.5 dB	139 dB
Power Handling <sup>1</sup>	1700 W	1700 W
Driver Information LF	Dual 18" transducers, 4" voice coil, ceramic magnet assembly	
Input Connectors	2 x NL4 in parallel	
Enclosure	Baltic Birch Plywood	
Net Weight (each)	191 lb / 86.6 kg — speaker only	204 lb / 92.5 kg — speaker only 244 lb / 110 kg — includes dolly

<sup>1</sup> Continuous IEC specified test signal, 2 hours unless otherwise stated.

<sup>2</sup> Calculated at 1 m using power capacity and system sensitivity. Assumed 6 dB peak-to-average signal ratio.



As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



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