



Pocket Reference Guide



Founded over four decades ago, QSC Audio Products, LLC, is a globally recognized leader in the design and manufacture of professional audio system solutions. With power amplification, loudspeaker, digital signal processing (DSP) and digital mixer engineering resources all located under one roof, we uniquely leverage these technologies to deliver products and systems that far outperform the sum of their parts - providing compelling solutions for professional installed, portable, production and cinema sound customers worldwide.

A QSC solution may take the form of our market-leading K Series – a complete system including amplifier, loudspeaker and DSP technologies all contained within a single box. Or, a QSC solution may be comprised of hundreds of individual technology components, interconnected via Q-Sys™ across a vast and complex network of audio, video and control devices. In both cases, and in every instance where QSC is utilized, the results are the same – a robust, reliable, easy-to-configure and deploy, sonically superior solution that meets the needs and exceeds the expectations of our customers and their clients in every way.

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. 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 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 Mixer



TouchMix-16

The TouchMix Series offers musicians, production professionals and live performance venues the power and capability of a large format console in a highly portable, fully integrated, affordable and easy to use product.

Just as digital cameras offer advanced features to meet the needs of skilled professional photographers combined with “point and shoot” features to assist novice users in achieving optimum results, the **TouchMix-8** (12 input channels) and **TouchMix-16** (20 input channels) provide the user a choice of Advanced Mode operation that offers total control over all parameters or Simple Mode that provides only the most essential controls.

“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. 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.



TouchMix-16

TouchMix-8

With four (TouchMix-8) or ten (TouchMix-16) auxiliary output channels, TouchMix also has ample stage monitor mixing capability. Both models have the ability to drive, wired stereo in-ear monitors directly.

Fast, Professional Results

TouchMix features a comprehensive library of Channel Presets, created specifically for the unique requirements of live sound reinforcement. Designed by veteran live sound engineers 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. The mixers’ onboard Effects Wizard guides the user through the selection and assignment of appropriate effects while the Gain Wizard continuously monitors and displays input clipping. TouchMix also comes with a comprehensive library of complete Mixer Scenes, and all user parameters of any mix can be saved, both internally and via USB drive.

Compact and Complete

The TouchMix Series models are completely self-contained and require no external PC or video display. The graphic, color touch-screen provides access to all mix parameters along with a physical rotary encoder and hardware buttons. The available Remote Control App for iOS phones and tablets controls all mixer parameters and the included USB Wi-Fi adapter creates the network connection between the mixer and the hand-held device. While no additional hardware is required, wired or wireless connection to an external or infrastructure router is also supported. The mixer is also capable of direct, multi-track recording to an external USB hard drive in 32-bit broadcast wave format. Tracks can be mixed down or played back on the mixer or imported into most DAW software for over-dubs and post-production. TouchMix Models also come complete with their own padded carrying case, for transport and protection.

TouchMix Series

Compact Digital Mixer

Preliminary Specifications

	TouchMix-8	TouchMix-16
Display	6.1" x 3.5" (156mm x 90mm) color TFT, touch sensing.	
Inputs (Mic/Line)	12 Total 4, XLR/TRS combi 4, XLR 2 Stereo, 1/4" TRS	20 Total 4, XLR/TRS combi 12, XLR 2 Stereo, 1/4" TRS
Input (Talkback)	n/a	1, XLR
Outputs	2 Main, XLR, Line 4 Aux., XLR, Line 1 Stereo, TRS, (Line or In Ear Monitor, 16 Ohm min. impedance) 1 Stereo Cue, TRS, (Line or headphone, 16 Ohm min. impedance)	2 Main XLR, Line 6 Aux. XLR, Line 2 Stereo Aux. TRS, (Line or In Ear Monitor, 16 Ohm min. impedance) 1 Stereo Monitor, TRS, (Line or headphone, 16 Ohm min. impedance) 1 Stereo Cue, TRS, (Line or headphone, 16 Ohm min. impedance)
Mic & Line Input Channel Processing	4-band, parametric EQ with Hi/Low shelving option, variable 24db/octave HPF & LPF, Gate, Compressor	
2-Track (USB) & FX Return Processing	2-band shelving EQ, variable 24db/octave HPF, Gate, Compressor	
Output Channel Processing	Main outputs and auxes 1 - 6: 1/3 octave GEQ, Variable HPF and LPF, 4-band variable notch filters, Limiter Auxes 7/8 & 9/10 (TM-16 only): 4-band PEQ, Limiter	
Recording	14 tracks, requires USB 3.0 HD, minimum 7800 RPM	20 tracks, requires USB 3.0 HD, minimum 7800 RPM
Groups	8 DCA groups (with mutes) 8 Mute groups	
Cue	AFL, PFL	
Effects	4 professional effects engines including reverb, echo, delay, chorus. 1 Pitch Correct (assignable to any mono input channel)	

Preliminary Specifications

	TouchMix-8	TouchMix-16
Preset Memory	Mixer Preset: Factory & User mixer presets including all mixer parameters may be stored internally or loaded to / from USB Channel Preset: Factory & User channel presets may be stored internally or loaded to / from USB	
External Control	iOS mixer app for iPad, iPhone, iPod Touch control via Wi-Fi provides access to all mixer functions. Android control available mid-2015.	
Wi-Fi	USB Wi-Fi adapter included; Wireless or wired connectivity to external network also supported	
Dimensions (HWD)	3.1" x 13.1" x 9.8" 79 mm x 333 mm x 250 mm	3.5" x 14.2" x 11.7" 89 mm x 360 mm x 297 mm
Weight	4.3 lb / 1.95 kg	5.9 lb / 2.98 kg
Line Voltage Requirements	100 VAC - 240 VAC, 50 - 60 Hz	
Sampling Frequency	Selectable 44.1kHz or 48kHz	
Signal Delay (Latency)	<1.6msec, any input to any output	
THD	<0.005%, +4 dBu, 20 Hz - 20 kHz, unity gain, any input to any output	
Frequency Response	20 Hz - 20 kHz +/-0.5 dB, any input to any output	
Dynamic Range	105dB	
Equivalent Input Noise	-128dBu	
Residual Output Noise	-86dBu	
Crosstalk	-80dB	
S/N Ratio	-94dB	
Input Gain	Microphone inputs: 60dB, Line	
Maximum Input Level	+16dB (Mic inputs), +22dB (Line inputs)	
Phantom Power	48V, individually switchable per channel	
Included Accessories	USB Wi-Fi adapter, Soft Carrying Case, Power Supply	

CXD Series – Processing Amplifier

Installed Sound



	CXD4.2		CXD4.3		CXD4.5	
4 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	500 W	400 W	900 W	625 W	1200 W	1150 W
4Ω	700 W	400 W	1400 W	625 W	2000 W	1250 W
2Ω	625 W	350 W	1200 W	625 W	1600 W	625 W
2 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1200 W	800 W	2400 W	1250 W	4000 W	2250 W
4Ω	1500 W	800 W	2000 W	1250 W	2400 W	2250 W
2Ω	1500 W	650 W	2500 W	1250 W	4000 W	2100 W
1 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1600 W	1500 W	3500 W	2500 W	4500 W	4200 W
4Ω	2500 W	1600 W	5000 W	2500 W	7500 W	4200 W
2Ω	1700 W	1600 W	3500 W	2500 W	4500 W	4250 W
1Ω	2500 W	1600 W	5000 W	2500 W	7500 W	3700 W
Weight	18.5 lb / (8.39 kg)		21 lb / (9.53 kg)		22 lb / (9.98 kg)	

Burst Power - 20 ms 1 kHz sine burst, all channels driven

Continuous Power - EIA 1 kHz 1% THD, all channels driven

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

Representing a revolutionary advancement in amplifier design, CXD amplifiers feature powerful onboard DSP and deliver robust, high fidelity power housed in a 2RU chassis. Designed with integrators in mind, the CXD line includes three models (CXD4.2, CXD4.3 & CXD4.5) capable of driving a wide range of loudspeaker configurations including 70V and 100V systems. 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.

- *Up to 5,000W continuous and 8,000W peak with 70V/100V direct drive on the CXD4.3 and CXD4.5.*
- *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 Euroblock inputs and Four Euroblock touch-proof speaker outputs.*
- *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-line and off-line editing of Presets and Speaker Profiles along with library management.*

PLD Series – Processing Amplifier

Portable Sound

Developed specifically for the needs of portable sound systems, PLD 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 5,000W continuous and 8,000W 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-line and off-line editing of Presets and Speaker Profiles along with library management.



	PLD4.2		PLD4.3		PLD4.5	
4 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	500 W	400 W	900 W	625 W	1200 W	1150 W
4Ω	700 W	400 W	1400 W	625 W	2000 W	1250 W
2Ω	625 W	350 W	1200 W	625 W	1600 W	625 W
2 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1200 W	800 W	2400 W	1250 W	4000 W	2250 W
4Ω	1500 W	800 W	2000 W	1250 W	2400 W	2250 W
2Ω	1500 W	650 W	2500 W	1250 W	4000 W	2100 W
1 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1600 W	1500 W	3500 W	2500 W	4500 W	4200 W
4Ω	2500 W	1600 W	5000 W	2500 W	7500 W	4200 W
2Ω	1700 W	1600 W	3500 W	2500 W	4500 W	4250 W
1Ω	2500 W	1600 W	5000 W	2500 W	7500 W	3700 W
Weight	18.5 lb / (8.39 kg)		21 lb / (9.53 kg)		22 lb / (9.98 kg)	

Burst Power - 20 ms 1 kHz sine burst, all channels driven
Continuous Power - EIA 1 kHz 1% THD, all channels driven
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CX Series

Installed Sound



The CX Series is a line of two, four and eight channel amplifiers designed for installation applications requiring premium sound quality and high output. Recognized by sound contractors worldwide for their reliability, CX Amplifiers feature PowerLight™ power supply technology reducing weight, eliminating AC mains hum and improving audio quality. The highly efficient power supply also draws less power and produces less heat resulting in added energy savings. CX Amplifiers also feature advanced amplifier control and monitoring via Q-Sys™ network audio platform and QSCControl.net.

- *Active Inrush Limiting gently brings amplifiers on-line eliminating the need for costly AC power sequencers.*
- *Front-panel gain controls with 1 dB detents allow precise level adjustment and are protected by tamper-proof security covers.*
- *DataPort connections enable remote control and monitoring of amplifier functions via Q-Sys™ and QSCControl.net™.*
- *Selectable clip limiters and infra-sonic filters protect loudspeakers from damage due to distortion and overexcursion.*
- *DataPort or Block Connector Inputs and touch-proof barrier-strip outputs (2 ch models also include XLR inputs and 8 ch models feature Block Connector Outputs).*
- *Sleep (Standby) Mode for energy saving efficiency.*
- *Transformer-less 70 /100 volt models available.*

IT-42 is an output isolation transformer accessory for the QSC CX302 amplifier allowing it to drive two 25, 70 and 100 volt distributed lines in stereo or parallel or a single 140 or 200 volt line in bridged mono. Mounts to the rear of the CX302 amplifier requiring no additional rack space.



CX 2-channel Models



CX 4-channel Models



CX 8-channel Models

Watts per channel

Model	70 V*	8Ω	4Ω	2Ω*
CX302V	250	–	–	–
CX602V	440	550	–	–
CX1202V	1000	700	1100	–
CX302	–	200	325	600
CX502	–	300	500	800
CX702	–	425	700	1200
CX902	440	550	900	1500
CX1102	1000	700	1100	1700
CX204V	220	–	–	–
CX254	–	170	250	450
CX404	–	250	400†	–
CX108V	100	–	–	–
CX168	–	90	130	–

All channels driven, 20 Hz – 20 kHz, 0.05% THD *1 kHz, 0.05% THD **1 kHz, 1% THD
†1 kHz, 0.1% THD ††20 Hz – 20 kHz, 0.2% THD §20 Hz – 20 kHz, 0.1% THDs
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PowerLight™ 3 Series

Concert Systems / Installed Sound

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, Bypass).*
- *DataPort connection supports external amplifier control and/or the DSP-4 module.*
- *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	8Ω	4Ω	2Ω
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
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



CMXa Series

Installed Sound



CMXa Series amplifiers represent an economical and rugged power amplifier solution for installed sound applications. There are four CMXa models to choose from (CMX 300Va, CMX 500Va, CMX 800Va, and CMX 2000Va). The CMX amplifiers provide flexible input and output connectors making them ideal for use in projects such as performance halls, houses of worship, sport clubs, gymnasiums, dance venues, pubs, and FGM/BGM systems. The CMXa Series provides unmatched performance and user ability at an affordable price point.

- Flexible output loading options enable low impedance loads comfortably down to 2Ω, and in some configurations will effortlessly drive 70V/100V lines.
- Recessed front panel gain controls with 1 dB detents for fast and accurate level settings.
- Security plate cover for gain controls to provide tamper-proof protection.
- 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 and NL4 or detachable Block output connectors.



CMXa 2RU Models



CMX 2000Va (3RU Models)

Watts per channel

Model	Stereo		Bridged		Stereo		Bridged	
	70V	100V	70V	100V	8Ω	4Ω	2Ω*	4Ω*
CMX 300Va	-	-	600	-	200	300	430	830
CMX 500Va	-	-	1200	600	300	500	700	1400
CMX 800Va	400	-	2000	2300	500	800	1200	2400
CMX 2000Va	2500	1000	-	3600	1100	2000	2500	5000

1 kHz, 0.1% THD *1 kHz, 1% THD
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



RMXa Series

Entertainers | Musicians | DJs | Concert Systems



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 4Ω 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 2Ω.
- Five models to choose from with power ranges from 300W to 2000W per channel at 4Ω.



RMXa 2RU Models

Watts per channel

Model	Stereo		Bridged	
	8Ω	4Ω	2Ω*	4Ω
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

1 kHz, 0.5% THD *1 kHz, 1% THD
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



- 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.

PLX2 Series

Entertainers | Musicians | DJs | Concert Systems



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 2Ω and include subwoofer or satellite crossover settings. For applications not requiring bridging, 2Ω 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 ¼" 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

		Stereo		Bridged	
Model		8Ω*	4Ω*	2Ω**	4Ω**
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
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



GXD Series – Processing Amplifier

Installed Sound



The GXD Series amplifiers from QSC define 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 4500W and 1600W means real power for your application.*
- *Extensive and powerful loudspeaker processing to maximize loudspeaker performance, that includes, 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 4Ω and 8Ω loudspeakers.*
- *Class-D output power with a universal switchmode power supply for high performance and efficiency, as well as light weight.*



Watts per channel

Model	8Ω Power/Channel	4Ω Power/Channel	Max Total Peak Power
GXD4	400	600	1600
GXD8	800	1200	4500

*Both channels driven. 1kHz, onset of clipping
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



- *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.*

GX Series

Entertainers | Musicians | DJs

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 (300W), the GX5 (500W) and the GX7 (700W) 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 4Ω and 8Ω speaker systems.*
- *XLR, ¼" 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	8Ω	4Ω
GX3	300	425
GX5	500	700
GX7	725	1000

*Both channels driven. 1kHz, onset of clipping
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.*



ISA Series

Installed Sound



ISA 500Ti

Watts per channel

Model	70V* / 100V	8Ω**	4Ω**	2Ω†
ISA280	-	185	280	430
ISA450	-	260	425	700
ISA750	-	450	650	1200
ISA1350	1500††	800	1300	2000
ISA300Ti	300	185	280	430
ISA500Ti	500	260	425	700
ISA800Ti	800	450	650	1200

*50 Hz – 16 kHz, 0.5% THD **20 Hz – 20 kHz, 0.1% THD †1 kHz, 1% THD
††Direct Output, 70V, less than 0.1% THD, 20 Hz – 20 kHz, +0/-0.3 dB
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.



ISA amplifiers are an ideal, cost-effective solution for fixed installation applications requiring distributed loudspeakers. There are seven models in the line, four low impedance models (ISA 280, ISA 450, ISA 750, ISA 1350) rated down to 2-ohm loads and three “Ti” versions (ISA 300Ti, ISA 500Ti, ISA 800Ti) featuring isolated transformers for 25, 70 and 100 volt distributed audio systems. The DataPort V2 Lite connection facilitates the use of amplifier accessories (XC-3, LF-3 and SF-3.) providing economical crossover and subwoofer filtering solutions.

- Up to 2400W total output power.
- 3RU chassis with rear-mounted gain controls featuring 2 dB detents.
- Independent, defeatable clip limiters reduce distortion and protect speakers.
- Selectable high-pass filters protect against transformer saturation and driver overexcursion.
- Includes extensive DC, infrasonic, thermal overload, and short circuit protection.
- XLR and 3-pin Block input connectors and touch-proof barrier-strip outputs.
- DataPort V2 connector not compatible with Q-Sys, BASIS or CM16a.

Amplifier Accessories

XC-3 2-way Crossover | SF-3 Subwoofer Filter |
LF-3 Low-Frequency Filter

The XC-3 is an active, 2-way crossover module that mounts to the rear panel DataPort of select 2-channel QSC amps (DCA, PL2, PL3, CX, ISA). A 3-way crossover can be implemented using the XC-3's low-frequency high-pass filter with the LF-3.



- 4th order Linkwitz-Riley filters (24 dB/octave), low frequencies routed to channel 1 and highs to channel 2.
- All-pass filter delay for time alignment of low- and high-frequency drivers
- Trim control (0-20 dB attenuation) to balance the frequency bands.
- High-frequency channel offers boosts up to 10 dB for equalizing constant-directivity horns.



The SF-3 provides subwoofer signal processing without the need for a conventional crossover. To conserve cost and rack space, the unit mounts to the rear panel DataPort of select 2-channel QSC amps (DCA, PL2, PL3, CX, ISA).

- 4th order Linkwitz-Riley low-pass filter may be set to 80, 150 or 250 Hz.
- Subsonic filter offers roll-off frequencies in the range 20-50 Hz to prevent driver over-excursion.
- Trim control (0-20 dB of attenuation) allows balancing the various frequency bands.

The LF-3 low-frequency filter, when used with the XC-3 2-way crossover, creates a 3-way active crossover system. Mounting to the rear panel of select, 2-channel QSC amps (DCA, PL2, PL3, CX, ISA), the LF-3 is comprised of two discrete channels with 4th order Linkwitz-Riley low-pass filters (24 dB/octave slope).



- Delay on each channel for loudspeaker time-alignment
- Trim control (0-20 dB of attenuation) to match levels.
- One amp-mounted LF-3 can support up to three amplifiers (including in stereo) with XC-3 installed accessories

K Series Active Loudspeakers

Portable/Production & Installed Sound



Ideal for portable/production and installed sound applications, K Series loudspeakers feature 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.*

	K8	K10
Frequency Range (-10 dB)	61 Hz – 20 kHz	56 Hz – 20 kHz
Nominal Coverage (-6 dB)	105° conical	90° conical
Output ¹ (Peak SPL @ 1M)	127 dB	129 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power ²	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 / 1/4" mic/line level input • Balanced female XLR / 1/4" 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

	K12	KSub
Frequency Range (-10 dB)	48 Hz – 20 kHz	44 Hz – 148 Hz
Nominal Coverage (-6 dB)	75° conical	N/A
Output ¹ (Peak SPL @ 1M)	131 dB	130 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power ²	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

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.



KW Series Active Loudspeakers

Portable/Production & Installed Sound



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.*

	KW122	KW152
Frequency Range (-10 dB)	50 Hz – 20 kHz	43.7 Hz – 20 kHz
Nominal Coverage (-6 dB)	75° conical	60° conical
Output ¹ (Peak SPL @ 1M)	131 dB	133 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power ²	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

	KW153	KW181
Frequency Range (-10 dB)	33 Hz – 20 kHz	34 Hz – 143 Hz
Nominal Coverage (-6 dB)	75° conical	N/A
Output ¹ (Peak SPL @ 1M)	131 dB	130 dB
Amplifier Power	1000 W continuous Class D	1000 W continuous Class D
Current Consumption 1/8 Power ²	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

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.



KLA Series Active Loudspeakers

Portable/Production & Installed Sound



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.

	KLA12	KLA181
Frequency Range (-10 dB)	44 Hz – 20 kHz	33 Hz
Nominal Coverage (-6 dB)	90 x 18 degree	N/A
Output ¹ (Peak SPL @ 1M)	131 dB	135 dB
Amplifier Power	500 W x 500 W continuous	1000 W continuous Class D
Current Consumption 1/8 Power ²	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 lbs / 25.0 kg	104 lbs / 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.



K Family Accessories

Totes, Covers, etc

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*



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 Tote*
- *KLA AF12 Array Frame*
- *M10 Kit-C*



ILA Series v2 Installation Line Array

Installed Sound



WL2082-i with WL118-sw using EB2082-i extension bar and FB2082-i fly-bar.

Designed for installation applications while retaining the performance of high-end touring line array systems, the ILA System v2 takes this concept and builds on it by offering a complete and accessible solution consisting of processing, amplification, line array, subwoofer and suspension accessories. Built around the WL2082-i line array element, the system offers both flying (WL118-sw) or ground-stacked (GP118-sw) subwoofer options.

WL2082-i

- Dual 8" diameter low-frequency drivers.
- Dual 44 mm (1.75 in) voice coil diameter, neodymium compression drivers with titanium domes.
- Patented* multiple aperture diffraction waveguide that provides extremely wide coverage (140°).
- Available in black or white and constructed from high impact polystyrene.
- May be used in outdoor applications where the system is not directly exposed to the elements.

*Patent No. 7,177,437

WL2082-i

Frequency Range (-10 dB)	68 Hz – 22 kHz
Nominal Coverage	140° H
Peak Output ²	132 dB
Power Handling ¹	
HF	100 W
LF / MF / Bi-amp	400 W
Tri-amp	200 W + 200 W
Driver Information	
LF	2 x 8" transducers; 2" voice coil; neodymium magnet
HF	2 x 1.75" titanium diaphragm, neodymium magnet
Input Connectors	2 x NL8 in parallel
Enclosure	HiPS
Net Weight (each)	37 lb / 16.8 kg

1 Continuous IEC specified test signal, 2 hours.
2 Calculated at 1 m using power capacity and system sensitivity.
6 dB peak-to-average signal ratio assumed.



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

ILA Series v2 Installation Line Array (Cont'd)

Installed Sound



GP118-sw

GP118-sw Subwoofer

- 18" diameter low-frequency driver.
- 850W continuous power handling.
- Performance down to 29Hz.
- Integrated M10 suspension points.
- M20 threaded pole mount.
- Available in black or white and housed in a Birch plywood enclosure.

Also available in a Line-X Tour-Grade finish

WL118-sw Subwoofer

- 18" diameter low-frequency driver.
- 850W continuous power handling.
- Performance down to 29Hz.
- Flyable on top or behind an ILA array.
- Available in black or white and housed in a Birch plywood enclosure.



WL118-sw

	GP118-sw	WL118-sw
Frequency Range (-10 dB)	29 Hz – 800 Hz	29 Hz – 800 Hz
Nominal Coverage	N/A	N/A
Peak Output ²	134.5 dB	134.5 dB
Power Handling ¹ SUB	850 W	850 W
Driver Information LF HF	18" transducer, 4" voice coil, ferrite magnet N/A	
Input Connectors	2 x NL8 in parallel and 2 x NL4 in parallel	
Enclosure	Premium Birch Plywood	
Net Weight (each)	107 lb / 48.5 kg	111 lb / 50.4 kg

¹ Continuous IEC specified test signal, 2 hours.
² Calculated at 1 m using power capacity and system sensitivity.
6 dB peak-to-average signal ratio assumed.



WideLine-8 Line Array System

Concert Systems | Installed Sound



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 lbs / 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.*

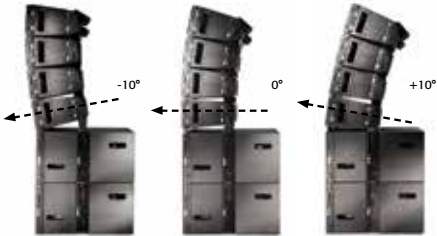
- *3" diaphragm compression driver on QSC's patented 140° multiple diffraction aperture waveguide (Patent No. 7,177,437).*
- *Patented (D576,660) side-mounted vent ports designed for double duty as handles.*
- *Simple, easy-to-use rigging system supports arrays of up to 12 units with 10:1 design factor.*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

Also available in a Line-X Tour-Grade finish

WL3082

Frequency Range (-10 dB)	62 Hz – 20 kHz
Nominal Coverage	140° H
Peak Output 2	
LF	128 dB
MF	128 dB
HF	133 dB
Power Handling 1	
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
Enclosure	Premium Birch Plywood
Net Weight (each)	38 lb / 17 kg

1 Continuous, IEC specified test signal, 2 hours unless otherwise stated.
2 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

Concert Systems | Installed Sound



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.

Also available in a Line-X Tour-Grade finish



WL212-sw

GP212-sw

WL212-sw

Frequency Range (-10 dB)	32 Hz – 107 Hz	32 Hz – 107 Hz
Peak Output ²	135 dB	135 dB
Power Handling ¹ 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

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Calculated at 1 m using power capacity and system sensitivity. Assumed 6 dB peak-to-average signal ratio.



WideLine-10 Line Array System

Concert Systems | Installed Sound

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.



WL2102-w shown hung from AF2102-LA.

- *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 lbs, 37.7 kg) at a lower cost.*
- *Fully captive hardware design incorporates all components necessary for box to box rigging.*

Also available in a Line-X Tour-Grade finish

WL2102-w

Frequency Range (-10 dB)	48 Hz – 20 kHz
Peak Output ² LF / MF	133 dB / 133 dB
Power Handling ¹ 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
Enclosure	Baltic Birch Plywood
Net Weight (each)	83 lb / 37.7 kg

¹ Continuous IEC specified test signal, 2 hours bi-amp mode unless otherwise stated.
² 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 WL2012-w.*

*Patent No. 7,177,437

WideLine-10 Subwoofers

Concert Systems | Installed Sound



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 10:1 design factor.
- Very high acoustic output capability - 139 dB SPL (1m) 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(1m) peak.
- Tight musical “punch” combined with low-frequency extension down to 27.4 Hz.

Also available in a Line-X Tour-Grade finish

- 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.
- CP218-1: Caster pallet for GP218-sw, includes a padded soft cover.

	GP218-sw	WL218-sw
Frequency Range (-10 dB)	27.4 Hz – 1.2 kHz (without processing)	31 Hz – 1 kHz (without processing)
Peak Output ²	140.5 dB	139 dB
Power Handling ¹	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

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Calculated at 1 m using power capacity and system sensitivity. Assumed 6 dB peak-to-average signal ratio.



AcousticPerformance™ Series

High power, installation loudspeaker



The AcousticPerformance™ Series is a line of full-range / bi-amp loudspeakers ideal for a wide range of installed sound reinforcement applications requiring high fidelity and SPL output. The lineup features four models including three trapezoidal enclosures, the AP-5102, a 10" two-way, the AP-5122, a 12" two-way, the AP-5152, a 15" two-way and a single multipurpose enclosure the AP-5122m, a 12" two-way model.

- DMT™ (Directivity Matched Transition) ensures smooth, coherent power response across the listening plane.
- 3" diaphragm compression delivers a clean and powerful high frequency response.
- M10 fittings and yoke mount fittings offer flexible deployment options for a variety of applications.



- Clean industrial design with unadorned grilles complement most decors and settings.
- NL4 speakON connector and covered barrier strip terminals*
- Bi-Amp / Passive Switchable.
- Constructed from 15-ply Baltic birch plywood.
- 16-Gauge powder coated steel grilles.
- Available in black (RAL 9011) and white (RAL 9010).**
- Complete EASE, CAD & BIM information available online.

* AP-5122m features dual NL4 Speakon Connectors

** AP-5122m Available in Black Only

AcousticPerformance™ Series

High power, installation loudspeaker



AP-5102



AP-5122

Frequency Range (-10 dB)	60Hz – 18kHz	48Hz – 18kHz
Power Capacity	450W / 54V continuous	550W / 60V continuous
System Sensitivity	94dB, 1W@1m	95dB, 1W@1m
Coverage Angle	105° conical	90° conical
Output ¹ (Peak SPL @ 1M)	127 dB	128 dB
Driver Information		
LF	254 mm (10-inch) driver with 76 mm (3-inch) VC; 450W / 54V (2 Hrs)	305 mm (12in) driver with 102 mm (4in) VC; 450W / 60V (2 Hrs)
HF	76 mm (3-inch) voice coil, compression driver; 72W / 24V (2 Hrs)	76 mm (3-inch) voice coil, compression driver; 72W / 24V (2 Hrs)
Rated Impedance	8Ω	8Ω
Input Connectors	Barrier Strip, NL4 connector	Barrier Strip, NL4 connector
Enclosure	15-ply Baltic birch plywood	15-ply Baltic birch plywood
Net Weight	21.7 kg (48 lb)	29.5 kg (65 lb)

¹ 2 hour rating using IEC60268 noise based on minimum impedance
² Mid-band based on nominal impedance



AP-5152



AP-5122m

Frequency Range (-10 dB)	44Hz – 18kHz	55Hz – 18kHz
Power Capacity	625W / 65V continuous	550W / 60V continuous
System Sensitivity	96dB, 1W@1m	95dB, 1W@1m
Coverage Angle	75° conical	90° conical
Output ¹ (Peak SPL @ 1M)	129 dB	128 dB
Driver Information		
LF	381 mm (15-inch) driver with 102 mm (4-inch) VC; 525W / 65V (2 Hrs)	305 mm (12-inch) driver with 102 mm (4-inch) VC; 450W / 60V (2 Hrs)
HF	76 mm (3-inch) voice coil, compression driver; 72W / 24V (2 Hrs)	76 mm (3-inch) voice coil, compression driver; 72W / 24V (2 Hrs)
Rated Impedance	8Ω	8Ω
Input Connectors	Barrier Strip, NL4 connector	Barrier Strip, NL4 connector
Enclosure	15-ply Baltic birch plywood	15-ply Baltic birch plywood
Net Weight	36.2 kg (80 lb)	36.2 kg (80 lb)

New AcousticDesign™ Series

Installation Surface-mount



AcousticDesign™ surface mount loudspeakers are professional, 70/100V, two-way, full-range systems ideal for a wide variety of foreground and background sound reinforcement applications. Ease-of-installation is the driving principle behind this next generation of small format, surface mount loudspeakers. Innovations found on new AD-S loudspeakers enable designers and integrators to quickly and easily specify and install a system. AD-S loudspeakers are also a perfect solution to serve ancillary loudspeaker needs as part of a larger installed sound system.

- *DMT™ (Directivity Matched Transition) ensures smooth, uniform frequency response over the coverage area.*
- *Patent pending X-Mount™ enables the loudspeaker to be easily installed and deployed at a variety of angles without slipping over time.*
- *Optional yoke mount and M10 Kit-C eyebolt kit offers additional loudspeaker deployment options.*
- *Block connectors allow pre-wiring of the system.*
- *Low saturation 70/100V transformers with 8 ohm bypass (excluding both 12" models).*



Patent-pending X-Mount™ mounting system

- *Lightweight ABS enclosures offer long-term durability and lasting good looks.*
- *Sealed input panel cover and powder coated aluminum grilles for added weather resistance.*
- *Meets IEC60529 IP-54 for dust and splash resistance.*
- *Available in black (RAL 9011) or white (RAL 9010).*
- *Complete EASE, CAD & BIM information available online.*

New AcousticDesign™ Series

Installation Surface-mount



AD-S4T

Effective frequency range ¹	70 kHz – 20 kHz	60 kHz – 20 kHz
Rated noise power / voltage ²	50W / 20V (rms)	150W / 35V (rms)
Broad-band sensitivity ³	87 dB SPL	89 dB SPL
Coverage Angle (-6 dB)	120° conical	105° conical
Output ⁴ (Peak SPL @ 1M)	110 dB	116 dB
Driver Information		
LF	4" weather treated paper cone woofer	6.5" weather resistant paper cone woofer
HF	0.75" silk dome tweeter / 0.75" voice-coil	1" silk dome tweeter / 1" voice-coil
Rated Impedance	8Ω	8Ω
Input Connectors	Euroblock connector with parallel output terminals	
Enclosure	Painted ABS polymer	Painted ABS polymer
Ingress protection	IP-54	IP-54
Net Weight	6.5 lbs / 2.95 kg	13.6 lb / 6.2 kg

1 Free-field, -10 dB from on-axis sensitivity
2 IEC60268-1 noise signal for 2 Hrs
3 On-Axis, free-field sensitivity, 2.83V, 1 m
4 Calculated from rated noise voltage and sensitivity



AD-S8T

Effective frequency range ¹	55 kHz – 20 kHz
Rated noise power / voltage ²	200W / 40V (rms)
Broad-band sensitivity ³	90 dB SPL
Coverage Angle (-6 dB)	105° conical
Output ¹ (Peak SPL @ 1M)	121 dB
Driver Information	
LF	8" weather treated paper cone woofer, 2" / 51mm voice-coil
HF	1" exit / 1.4" voice-coil compression driver
Rated Impedance	8Ω
Input Connectors	Euroblock connector with parallel output terminals
Enclosure	Painted ABS polymer
Ingress protection	IP-54
Net Weight	24.1 lbs / 11 kg

New AcousticDesign™ Series

Installation Surface-mount



AD-S10T

AD-S12

Effective frequency range ¹	50 Hz – 19 kHz	52 Hz – 20 kHz
Rated noise power / voltage ²	250W / 45V (rms)	300W / 50V (rms)
Broad-band sensitivity ³	92 dB SPL	95 dB SPL
Coverage Angle (-6 dB)	90° conical	75° conical
Output ⁴ (Peak SPL @ 1M)	122 dB	126 dB
Driver Information		
LF	10" weather treated paper cone woofer, 2.5" / 64 mm voice-coil	12" weather treated paper cone woofer, 2.5" / 64mm voice-coil
HF	1" exit / 1.4" voice-coil compression driver	1" exit / 1.4" voice-coil compression driver
Rated Impedance	8Ω	8Ω
Input Connectors	Euroblock connector with parallel output terminals	
Enclosure	Painted ABS polymer	Painted ABS polymer
Ingress protection	IP-54	IP-54
Net Weight	31 lbs / 15 kg	35 lbs / 16 kg

¹ Free-field -10 dB from on-axis sensitivity

² IEC60268-1 noise signal for 2 Hrs

³ On-Axis, free-field sensitivity, 2.83V, 1 m

⁴ Calculated from rated noise voltage and sensitivity



AD-S112sw

Effective frequency range ¹	30 Hz - 135 Hz
Rated noise power / voltage ²	300W / 50V (rms)
Broad-band sensitivity ³	90 dB SPL
Coverage Angle (-6 dB)	N/A
Output ¹ (Peak SPL @ 1M)	121 dB
Driver Information	
LF	12" weather treated paper cone woofer, 2.5" / 64mm voice coil
Rated Impedance	8Ω
Input Connectors	Euroblock connector with parallel output terminals
Enclosure	Painted ABS polymer
Ingress protection	IP-54
Net Weight	29 lb / 13.2 kg

AcousticDesign™ Series

Installation Surface-mount



AD-S32T

Ideal for background and general purpose audio playback, the AD-S32T loudspeaker offers a full sound in a surprisingly small package. For outdoor applications, the plated screw input signal terminals can be sealed with the included weather cover while the 3-inch polypropylene woofer with synthetic rubber surround ensures reliable operation in high humidity. The aluminum grille backed with acoustically transparent foam protects the components from the elements.

- 3 inch polypropylene cone woofer.
- 0.75" titanium dome tweeter.
- 65Hz – 20kHz frequency response.
- 30W continuous power handling.
- Barrier strip connectors.
- 70/100 volt multi-tap transformer with 8 ohm bypass.
- Includes ball mount assembly and yoke mount.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grille.
- Available in black or white.



AD-S52/ AD-S52T

Perfect for background/foreground music, paging, even secondary coverage in live performance venues, the AD-S52 and the AD-S52T are ideal small format surface mount loudspeaker solutions for spaces requiring accurate reproduction and audio quality. The loudspeaker's sleek and contemporary styling allows it to easily blend into a variety of restaurant, retail, multimedia or other fixed installation settings.

- 5.25 inch weather resistant woofer.
- 1 inch neodymium tweeter.
- 60Hz – 20kHz frequency response.
- 60W continuous power handling.
- Binding post connectors.
- Low impedance (AD-S52) and 70/100 volt with 8 ohm bypass (AD-S52T) versions.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grille.
- Available in black or white.
- Flexible Ball Mount Assembly Included.
- Available Optional Yoke Mount Bracket.

AcousticDesign™ Series

Installation Surface-mount



AD-S82

The AD-S82 is a full range, surface mount loudspeaker featuring contemporary styling perfect for a variety of environments and applications. Featuring the QSC IntelliDock™ intelligent mounting system, this unique mounting system combines all the components needed to mount, wire, and position the speaker into a single housing independent of the loudspeaker enclosure.

- 8 inch weather resistant woofer.
- 1 inch pure titanium dome tweeter.
- Advanced Directivity™ rotatable waveguide ensures accurately focused sound.
- 65Hz – 19kHz frequency response.
- 110W continuous power handling.
- Optional IntelliDock mounting system (AD-ID8) for low impedance, direct drive mode or with a 70V/100V transformer (AD-ID8T).*
- Optional yoke mounts (AD-YM8) for low impedance, direct drive operation and the (AD-YM8T) available for 70V/100V on constant voltage lines.*
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grille.
- Available in black or white.

*Choose one of two available mounting options



AD-S282H/AD-S282HT

For installations requiring additional low-frequency performance combined with higher acoustical output, the dual 8-inch AD-S282H / AD-S282HT is an ideal solution. Like the AD-S82, the AD-S282H / AD-S282HT features contemporary styling and is perfect for a variety of environments and applications.

- Dual 8 inch weather resistant woofer.
- 1 inch exit compression driver.
- Advanced Directivity™ rotatable waveguide ensures accurately focused sound.
- 60Hz – 29kHz frequency response.
- 450W continuous power handling.
- Biamp switchable (AD-S282H).
- Barrier strip connectors.
- Low impedance (AD-S282H) and 70/100 volt with 8 ohm bypass (AD-S282HT) versions.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grille.
- Available in black or white.
- Yoke bracket included.

AcousticDesign™ Series

Installation Surface-mount



	AD-S32T	AD-S52	AD-S52T
Frequency Range (-10 dB)	65 Hz – 20 Hz	60 Hz – 20 kHz	60 Hz – 20 kHz
Power Capacity	30 W (100 hrs)	60 W (100 hrs)	60 W (100 hrs)
System Sensitivity	85 dB	86.5 dB	86 dB
Coverage Angle	100° conical	90° conical	90° conical
Output ¹ (Peak SPL @ 1M)	105 dB	110 dB	105 dB
Driver Information			
LF	3" weather resistant, poly-propylene cone woofer	5.25" shielded, weather-resistant	5.25" shielded, weather-resistant
HF	0.75" neodymium tweeter	1" neodymium tweeter	1" neodymium tweeter
Rated Impedance	8Ω	8Ω	8Ω
Input Connectors	Screw terminals	5-way binding posts x 2	5-way binding posts x 2
Enclosure	Injection molded, weather resistant high impact polystyrene		
Net Weight	4 lb / 1.8 kg	15 lb / 6.8 kg	18 lb / 8.2 kg

1 2 hour rating using IEC60268 noise based on minimum impedance
2 Mid-band based on nominal impedance



	AD-S82	AD-S282H	AD-S282HT
Frequency Range (-10 dB)	65 Hz – 20 Hz	60 Hz – 20 kHz	60 Hz – 20 kHz
Power Capacity	110 W (8 hrs)	450 W (8 hrs)	450 W (8 hrs)
System Sensitivity	90.5 dB	85 dB	93 dB
Coverage Angle	90°H x 60°V (rotatable)	90°H x 60°V	90°H x 60°V
Output ¹ (Peak SPL @ 1M)	117 dB	105 dB	125 dB
Driver Information			
LF	8" fiberglass cone, 1 1/4" voice coil	Dual 8" high-power treated cone, 2" voice coil, neodymium magnet	Dual 8" high-power treated cone, 2" voice coil, neodymium magnet
HF	1" titanium dome tweeter, neodymium magnet	1" high output compression driver	1" high output compression driver
Rated Impedance	8Ω	8Ω	8Ω
Input Connectors	Concealed 5-way binding posts x 2, IntelliDock mounting/connection system	Barrier Strip (switchable: passive/bi-amp)	Barrier Strip
Enclosure	Injection molded, weather resistant high impact polystyrene		
Net Weight	16.2 lb / 7.4 kg	27.7 lb / 12.6 kg	27.7 lb / 12.6 kg

AcousticDesign™ AD-S28Tw

Installation Surface-mount



Designed and acoustically matched for use with AcousticDesign installation loudspeakers, the AD-S28Tw is a dual 8-inch surface mount subwoofer that complements any of the ceiling-mount or surface-mount AD Series full-range models. Efficient band-pass design features one sealed chamber and a second, ported chamber that combine to produce extended low frequency reproduction.

- Dual 8 inch weather resistant polypropylene woofers provide exceptional resistance in high humidity environments.
- Bass extension down to 36Hz.
- Built-in, passive 120 Hz low-pass filter.
- 70/100 volt multi-tap transformer with 8 ohm bypass.

AD-S28Tw

Frequency Range ¹ (-10 dB)	36 Hz – 205 Hz
Power Capacity	250 W (2 hours IEC)
System Sensitivity	94 dB, 2.83 V, 1 m, half space (2π)
Output ²	
2π (half space)	124 dB SPL / 118 dB SPL
4π (full space)	118 dB SPL / 112 dB SPL
Driver Information	
LF	Dual 8" (200 mm) weather resistant, polypropylene cone woofers, rubber surround
Nominal Impedance	8Ω
Input Connectors	4 position barrier strip; 2 in/2 out
Enclosure	Marine-grade plywood
Environmental	Exceeds Mil Spec 810 for humidity, salt spray and dust; IEC 60529 IP-X4 splash rating
Net Weight	43 lb / 19.5 kg

1 All frequency ranges specified refer to measured free field response.
2 Calculated SPL at 1m, speaker operating at rated RMS power with pink noise within specified frequency range.
3 Maximum input power tested in accordance with IEC 268-5 recommendations, 50 Hz – 20 kHz band limiting, 6 dB signal crest factor.



- Marine grade plywood enclosure.
- Nickel plated screw terminals accept up to 12 AWG (2.053 mm2) wiring.
- Rubber feet allow floor or shelf deployment.
- Forged-shoulder eyebolts and steel yoke enable suspended installation (included).

AcousticCoverage Series

Installation Ceiling-mount



AC-C4T

AcousticCoverage™ is designed to offer integrators a cost effective solution for applications where voice reinforced coverage is of primary concern, while providing improved musicality often not seen in typical BGM class products. Applications for AcousticCoverage™ speakers include wide area paging systems, background music, office buildings, healthcare facilities, concourses, transportation terminals and more.

- *High quality transducers provide exceptional clarity through the critical voice range.*
- *Ported baffle for increased low frequency extension.*
- *Low saturation 70/100V transformers with 8 ohm bypass.*
- *4 pole Euroblock connector eases system wiring.*
- *Advanced voicing filter sets using QSC Intrinsic Correction™ available through either Q-Sys processing or CXD amplifier platforms.*
- *White (RAL 9010) with UV inhibitors to match complimenting QSC product families.*
- *Complete EASE, CAD & BIM information available online*



AC-C6T

	AC-C4T	AC-C6T
Frequency Range (-10 dB)	70 Hz – 16 kHz	65 Hz – 20 kHz
Power Capacity ¹	16 W	30 W
Broad-Band Sensitivity ²	89 dB	89 dB
Coverage Angle	140° (500 Hz - 5 kHz)	110° (500 Hz - 5 kHz)
Output ³ (Peak SPL @ 1M)	107 dB	110 dB
Driver Information	4" Polypropylene cone with butyl rubber surround	LF: 6" Polypropylene cone with butyl rubber surround HF: 0.86" silk dome tweeter, coaxially mounted
Rated Impedance	8Ω	8Ω
Input Connectors	Euroblock connector with parallel output terminals	Euroblock connector with parallel output terminals
Baffle Material	Painted ABS polymer	Painted ABS polymer
Net Weight	4.9 lbs / 2.22 kg	7.6 lbs / 3.5 kg

¹ IEC60268-1 noise signal for 2 Hrs.
² On-Axis, free-field sensitivity, 2.83V, 1 m
³ Calculated from rated noise voltage and sensitivity.



AcousticDesign™ Series

Installation Ceiling-mount

AD-C42T

The AD-C42T loudspeaker system is ideal for paging, background music and general purpose playback where a small, minimally intrusive footprint is desired. Designed for blind-mount applications, the AD-C42T utilizes dog-ear mounting tabs and ships complete with C-rings and tile rails.

- 4 inch low-frequency woofer with 0.75" titanium diaphragm domed tweeter.
- 60Hz – 20kHz frequency range.
- 40W continuous power rating.
- 100° conical coverage.
- 70V/100V multi-tap transformer included with low impedance bypass.
- Ceramic input screw terminal complies with European safety standards.
- UL Listed (UL 1480 / UL 2043).

AD-CI52T

The AD-CI52T loudspeaker system is ideal for paging, background music and general purpose playback where a small, minimally intrusive footprint is desired. Designed for blind-mount applications, the AD-CI52T utilizes dog-ear mounting tabs and ships complete with C-rings and tile rails.

- 5.25 inch low-frequency woofer with 1 inch titanium diaphragm domed tweeter.
- 65Hz – 20kHz frequency range.
- 40W continuous power rating.
- 90° conical coverage.
- 70V/100V multi-tap transformer included with low impedance bypass.
- 4-pin block input connector.
- UL Listed (UL 1480 / UL 2043).



AD-CI52ST

Similar to the AD-CI52T, the AD-CI52ST loudspeaker system features a large-ported enclosure offering extended low frequency response while its shallow depth is ideal for installations with limited mounting space. Designed for blind-mount applications, background music and general purpose playback, the AD-CI52ST utilize dog-ear mounting tabs and ships complete with C-rings and tile rails.

- 5.25" low-frequency woofer with 1" titanium diaphragm domed tweeter.
- 53Hz – 20kHz frequency range.
- 40W continuous power rating.
- 90° conical coverage.
- 70V/100V multi-tap transformer included with low impedance bypass.
- 4-pin block input connector.
- UL Listed (UL 1480 / UL 2043).

AD-C81Tw

The AD-C81Tw is a ceiling mounted subwoofer designed for use with both ceiling-mount and surface mounts AcousticDesign loudspeakers. Like the smaller format, full-range models, the AD-C81Tw utilizes dog-ear mounting tabs and ships complete with C-rings and tile rails.

- 5.25" low-frequency woofer with 1" titanium diaphragm domed tweeter.
- 28Hz – 208Hz frequency range.
- 100W continuous power rating.
- 120Hz selectable low pass filter.
- 70V/100V multi-tap transformer included with low impedance bypass.
- 4-pin ceramic block input connector complies with European safety standards.
- UL Listed (UL 1480 / UL 2043).

AcousticDesign™ Series

Installation Ceiling-mount



AD-C42T

AD-CI52T

Frequency Range (-10 dB)	60 Hz – 20 kHz	65 Hz – 20 kHz
Power Capacity ¹	40 W (100 hrs)	40 W (100 hrs)
System Sensitivity ²	88 dB	86 dB
Coverage Angle	100° conical	90° conical
Output ³ (Peak SPL @ 1M)	110 dB	108 dB
Driver Information		
LF	4" weather resistant, polypropylene cone woofer	5.25" weather resistant, low distortion fiberglass cone woofer, 25 mm voice coil, neodymium magnet
HF	0.75" titanium dome tweeter, rubber surround	1" titanium dome tweeter, rubber surround
Rated Impedance	8Ω	8Ω
Input Connectors	Ceramic block or 4-pin Euro terminals, fire protective sub-chamber	4-pin Euro terminals, fire protective sub-chamber
Enclosure	UL-rated steel backcans	
Net Weight (each)	6.1 lb / 2.7 kg	7.5 lb / 3.4 kg

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Based on nominal impedance, measured in full space. 1 W @ 1 m.
³ Calculated using specified power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.



AD-CI52T

AD-C81Tw

Frequency Range (-10 dB)	53 Hz – 20 kHz	28 Hz – 208 Hz
Power Capacity ¹	40 W (100 hrs)	100 W (100 hrs)
System Sensitivity ²	87.5 dB	92 dB
Coverage Angle	100° conical	N/A
Output ³ (Peak SPL @ 1M)	109 dB	118 dB
Driver Information		
LF	5.25" weather resistant, low distortion fiberglass cone woofer, 25 mm voice coil, neodymium magnet	8" weather resistant, polypropylene cone woofer, rubber surround
HF	1" titanium dome tweeter, rubber surround	N/A
Rated Impedance	8Ω	8Ω
Input Connectors	4-pin Euro terminals, fire protective sub-chamber	Ceramic block or 4-pin Euro terminals, fire protective sub-chamber
Enclosure	UL-rated steel backcans	
Net Weight (each)	6.1 lb / 2.7 kg	7.5 lb / 3.4 kg

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Based on nominal impedance, measured in full space. 1 W @ 1 m.
³ Calculated using specified power capacity and system sensitivity. 6 dB peak-to-average signal ratio assumed.

AcousticDesign™ Series

Installation Ceiling-mount



AD-C820R/S | AD-C821R/S

The AD-C820R/S and AD-C821R/S (R for Round Grille and S for Square Grille) loudspeaker systems are designed for ceiling mounted loudspeaker applications requiring high SPL output. The AD-C820R/S Systems ship with the AD-C800BB backcan and are perfect for pre-installed applications. The AD-C821R/S Systems incorporate a fully integrated, factory sealed enclosure and use “dog-ear” style mounting - perfect for blind mount installations. Both models also include a set of tile rails and C-rings to complete the installation.

- 8 inch low-frequency woofer with 1.4 inch diaphragm coaxially-mounted compression driver.
- 52Hz – 18kHz frequency range.
- 200W continuous power rating.
- 90° conical coverage.
- 70V/100V multi-tap transformer included with low impedance bypass.
- Ceramic input screw terminal complies with European safety standards.
- AD-C820 transducer/baffle assembly for separated backcan installation.
- AD-C821 designed as a fully integrated blind-mount system.
- UL Listed (UL 148 and UL 2043).

	AD-C820/C821	AD-C1200
Effective frequency range ¹	52 Hz – 18 kHz	37 Hz – 18 kHz
Power Capacity ¹	200 W (100 hrs)	300 W (100 hrs)
Sensitivity ²	91 dB	93 dB
Nominal Coverage	90° conical	85° conical
Output ³ (Peak SPL @ 1M)	120 dB	124 dB
Driver Information		
LF	8" weather resistant, treated cone woofer	12" weather resistant, treated cone woofer, 75 mm voice coil, ferrite magnet
HF	1.4" co-axial compression driver	1.75" co-axial compression driver
Rated Impedance	16Ω	16Ω
Input Connectors	AD-C820: Ceramic block AD-C821: 4-pin Euroblock Fire protective sub-chamber	Ceramic block terminals Fire protective sub-chamber
Enclosure	UL-rated steel backcans	
Net Weight (each)	17.5 lb / 7.9 kg	78 lb / 35.3 kg

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Based on nominal impedance, measured in full space. 1 W @ 1 m.
³ Calculated using specified power capacity and system sensitivity, 6 dB peak-to-average signal ratio assumed.



Available AD-C Accessories

- ADC-MR4: Mud Ring Bracket for AD-C42T.
- ADC-NC4: New Construction Bracket for AD-C42T.
- ADC-MR: Mud Ring Bracket for AD-CI52T.
- ADC-NC: New Construction Bracket for AD-CI52T.
- ADC-MRS: Mud Ring Bracket for AD-CI52ST and AD-C820R/S & AD-C821R/S.
- ADC-NCS: New Construction Bracket for AD-CI52ST and AD-C820R/S & AD-C821R/S.

AcousticDesign™ Series

Installation Subwoofer Ceiling-mount



AD-C1200

The AD-C1200 loudspeaker system is designed for ceiling mounted loudspeaker applications requiring high SPL output. The AD-C1200 features coaxial LF/HF transducers, a transformer and a crossover network factory-mounted on a steel baffle. The baffle is designed to mount to the QSC enclosure (AD-C1200BB) or to any 2.5 ft enclosure using industry-standard transducer / baffle mounting points.

- 12 inch low-frequency woofer with 1.75 inch diaphragm coaxially-mounted compression driver.
- 37Hz – 18kHz frequency range.
- 300W continuous power rating.
- 85° conical coverage.

AD-C1200

Effective frequency range ¹	37 Hz – 18 kHz
Power Capacity ¹	300 W (100 hrs)
Sensitivity ²	93 dB
Nominal Coverage	85° conical
Output ³ (Peak SPL @ 1M)	124 dB
Driver Information	
LF	12" weather resistant, treated cone woofer, 75 mm voice coil, ferrite magnet
HF	1.75" co-axial compression driver
Rated Impedance	16Ω
Input Connectors	Ceramic block terminals Fire protective sub-chamber
Enclosure	UL rated steel backbox
Net Weight (each)	78 lb / 35.3 kg

¹ Continuous IEC specified test signal, 2 hours unless otherwise stated.
² Based on nominal impedance, measured in full space. 1 W @ 1 m.
³ Calculated using specified power capacity and system sensitivity.
6 dB peak-to-average signal ratio assumed.



- 70V/100V multi-tap transformer included included with low impedance bypass.
- Ceramic input screw terminal.
- UL Listed (UL 148 and UL 2043).

Q-SYS™

The World's Most Powerful Network Audio Solution



Core 1100 / 3100

Q-Sys is the world's most powerful yet simple network audio solution available... period. With the bandwidth to handle even the most complex configurations, Q-Sys is ready for any job, from boardrooms and clubs to airports and stadiums.

Built from the ground up on a powerful, open, IT-friendly foundation, the Q-Sys platform transcends the limitations in scope, performance, and usability that keep other network audio control systems from reaching their full potential.

Enterprise Cores

The Q-Sys Core is at the heart of the Q-Sys system and runs QSC-developed DSP algorithms under a customized Linux operating system running on Intel® microprocessors and motherboards. This Intel hardware already meets industry-best reliability standards and is used in many of the world's most mission-critical projects.

There are two Q-Sys Enterprise Core models, both tailored to meet the demanding needs of medium to large scale installations. The Core 1100 (256x256 network channels), and the Core 3100 (512x512 network channels) are designed to work with numerous I/O Frames, page stations and CXD-Q network amplifiers, with each of these multiple peripheral located remotely throughout the venue.



Core 250i / 500i

Integrated Cores

The Core 250i/500i Integrated Cores bring the power of the larger Q-Sys Cores to applications requiring lower channel count. Integrated Cores can accommodate up to eight internal Q-Sys input and/or output cards for a total onboard channel capacity of 32 channels (more if AES or CobraNet™ cards are used). Channel count may be further expanded by the addition of Q-Sys I/O Frames and other peripheral devices.

- *Layer 3 networking ensures Q-Sys can run on the backbone of existing IT infrastructure eliminating the need for a dedicated audio network.*
- *Simple flexible architecture – Centralized processing allows the routing of any input to any output without variable-latency signal paths.*
- *Hardware-independent processing – advances in processing power are driven by advances in the global IT industry.*
- *Fewer potential failure points – digitally wired and routed signal paths within the processing Core maximizes system reliability and minimizes the number of required interconnections.*
- *System redundancy – all Cores can serve as a backup and upon sensing failure of the primary Core immediately assume all system functions ensuring fail-safe redundancy dependability for mission-critical applications.*

Q-SYS™

Network Amplifiers – CXD-Q Series



CXD4.3Q

Designed specifically for use with the Q-Sys Networked Audio System, CXD-Q amplifiers marry the exciting new amp technology found in the CXD/PLD platform with the powerful Q-Sys network processing and control system to create the perfect solution for installed applications. The CXD-Q line includes three models (CXD4.2Q, CXD4.3Q & CXD4.5Q) capable of delivering robust, high-fidelity power to drive a wide range of loudspeaker configurations including 70V and 100V systems. By simply connecting the amplifiers via standard layer 3 Ethernet, the Q-Sys Core can route audio to/from the amps, as well as provide total control and monitoring of all amplifier functions. 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 providing up to 5,000W continuous and 8,000W peak with 70V / 100V direct drive on the CXD4.3Q and CXD4.5Q.
- Flexible Amplifier Summing Technology™ (FAST) permits total amplifier power to be distributed across one, two, three or all four channels.
- With redundant Ethernet jacks, the CXD-Q amps seamlessly integrate with Q-Sys providing audio streaming directly to and from the amplifiers.

CXD4.2Q			CXD4.3Q		CXD4.5Q	
4 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	500 W	400 W	900 W	625 W	1200 W	1150 W
	4Ω	700 W	400 W	1400 W	625 W	2000 W
	2Ω	625 W	350 W	1200 W	1600 W	625 W
2 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1200 W	800 W	2400 W	1250 W	4000 W	2250 W
	4Ω	1500 W	800 W	2000 W	1250 W	2400 W
	2Ω	1500 W	650 W	2500 W	1250 W	4000 W
1 Ch	Burst	Continuous	Burst	Continuous	Burst	Continuous
8Ω	1600 W	1500 W	3500 W	2500 W	4500 W	4200 W
	4Ω	2500 W	1600 W	5000 W	2500 W	7500 W
	2Ω	1700 W	1600 W	3500 W	2500 W	4500 W
1Ω	2500 W	1600 W	5000 W	2500 W	7500 W	3700 W
Weight	18.5 lb / (8.39 kg)		21 lb / (9.53 kg)		22 lb / (9.98 kg)	

Burst Power - 20 ms 1 kHz sine burst, all channels driven
Continuous Power - EIA 1 kHz 1% THD, all channels driven
As part of QSC's ongoing commitment to product development, specifications are subject to change without notice.

- Version 4.0 of Q-Sys designer includes the CXD-Q amps in the inventory and provides complete system wide design, as well as control and monitoring capability.
- GPIO connectors on Euroblock enable additional functionality utilizing the intuitive and powerful Q-Sys control engine complete with logic functions and LUA scripting.
- Input Euroblock connectors and touch-proof Euroblock loudspeaker connectors.
- PowerLight universal switchmode power supply with Power Factor Correction for highest efficiency, improved audio performance, and low weight.
- Built-in energy saving modes ensure that the amplifier will draw the minimum amount of AC power while still providing outstanding audio quality.

Q-SYS™

I/O Peripherals

I/O Frame 8s



The Q-Sys I/O Frame and the new I/O frame 8s provides the points of connection that interface Q-Sys with other components of the audio system, including microphones, mixers and power amplifiers. I/O Frame offers 4 available card slots while the I/O Frame 8s offers 8 available card slots.



Mic/Line Analog Input Card



Analog Line Output Card



AES-3 Digital Input/Output Card



DataPort Output Card



CobraNet™ Digital Input/Output Card



Dante™ Network Audio Bridge Card

I/O Cards

The following cards are available for both the integrated Cores (up to eight cards total) and the I/O Frame:

- *Mic/Line Analog Input Card (CIML4/CIML4-HP)* – Four channels of switchable mic/line-level analog audio input with 48 V phantom power. This input card provides the interface between Q-Sys and input devices such as microphones, mixers, and CD/DVD players. The input card is also available in a high performance version

(CIML4-HP) featuring broadcast quality pre-amps and A/D converters.

- *Analog Line Output Card (COL4)* – Four channels of balanced, line-level analog output for interfacing between Q-Sys and outboard equipment such as non-DataPort amplifiers, recording devices and teleconference systems.

- *AES-3 Digital Input/Output Card (CAES4)* – Four input and four output channels of AES-3 digital audio for interfacing between Q-Sys and digital devices such as mixing consoles and recording devices.
- *DataPort Output Card (CODP4)* – Four audio output channels (2 DataPorts) for connection to DataPort equipped QSC amplifiers. The DataPort interface allows audio, status monitoring, and control between Q-Sys and QSC DataPort power amplifiers.
- *CobraNet™ Digital Input/Output Card (CCN32)* – Input/output interfacing with legacy CobraNet-based audio networks. The CobraNet card allows for several operating modes, 4x4, 8x8, 16x16, and 32x32. In an I/O Frame the CobraNet card can be used in 4x4, 8x8, and 16x16 mode, whereas inserting it into a Core allows all these as well as the additional 32x32 mode.
- *Dante™ Audio Bridge Card (CDN64)* provides a link for up to 32x32 channels at 48 kHz from any Dante™ edge network, directly into a QSC Q-Sys Core for advanced processing and redistribution over larger LAN and WAN IT infrastructures.



I/O-22

I/O-22

The Q-Sys I/O-22, is a compact, standalone unit designed for use when audio sources and destinations are physically spread out, such as the individual seats in a conferencing system or individual rooms in a multi-room venue. Providing two mic/line inputs and two line outputs, the I/O-22 is ideal for applications such as legislative or judicial chambers, meeting rooms, ballrooms, ancillary zones, classrooms, VIP suites, and stage patching.

- Connects directly to the Gigabit Ethernet network via redundant Q-LAN ports (RJ-45 Ethernet connectors).
- Powered via PoE (Power over Ethernet) or 24 VDC.
- Includes an 8.5 watt mono amplifier to drive a local monitor speaker.
- Other connections include a scriptable RS-232 port and eight GPIO ports.

Q-SYS™

Paging Peripherals

Q-Sys™ offers a suite of tools that provide sophisticated paging and messaging functionality to support any sized paging application including convention centers, transportation terminals, theme parks and more. Q-Sys offers a number of paging-specific advantages that sets it apart from alternative approaches:

- *Simple, integrated platform – Q-Sys enables paging with simplified bills of material including Playback, Record, and Store-and-Forward.*
- *Ample paging capacity – With Cores supporting up to 1024 total network channels.*
- *Page Stations –built to withstand the rigors of daily use, all page stations are powered over Ethernet and offer secure access, high-fidelity gooseneck or handheld microphones, and capacitive touch buttons.*
- *Scriptable control – allowing paging functions to be added or customized as needed.*
- *PA Router – supports live and delayed paging, scheduled messaging, announcement recording, live page routing, triggered playback, and event scheduling.*

PS-X Paging Accessory



Q-Sys Networked Page Stations

Available with either gooseneck or handheld microphone (push to talk), the Q-Sys Networked Page Station is a dual-port network device that is fully configurable from Q-Sys Designer. Each station connects to a Q-Sys system via Q-LAN, which handles all audio deliveries to and from the station. Four Networked Page Station models are currently available:

- *PS-1600H/G – 16 buttons total, including four command buttons (command code A-D). Also includes a numeric keypad and supports*

security features including automatic logoff time out, logon requirements, and user restrictions.

- *PS-1650H/G – 16 command buttons (command code A-P).*

All Page stations feature:

- *Two Q-LAN network interfaces enabling connection to two switch ports or deployment on two separate networks.*
- *Capacitive touchpad that offers visible feedback and audible cues including illuminated status indicators.*
- *Built-in 240 x 64 monochrome graphics LCD display.*
- *Powered via PoE (Power over Ethernet) or external 24 Vdc.*
- *Rear panel auxiliary audio inputs can accommodate a secondary microphone.*
- *Auxiliary output can drive a local amplifier, powered loudspeaker or other destination device.*
- *GPIO interface can be configured to use external events to affect paging operation or be the source of events to affect external control systems.*
- *Designed for both desktop and wall-mounted installation and include either handheld (H) or gooseneck (G) microphone.*

PS-X – a handheld paging accessory for any Q-Sys Page Station provides a secondary remote microphone and is designed to fit into a standard U.S. 2-gang wall box.

Virtual Page Station – used in conjunction with a local control interface (TSC-3 or UCI Viewer), an I/O-22 plus a microphone of choice emulates the functionality of the models listed above.



Q-SYS™

Control Peripherals

Designed for true one-touch control of audio functions, Q-Sys also manages a wide variety of equipment utilizing built-in GPIO and TCP/IP instruction sets. With Q-Sys, nearly every audio processing parameter can be a command source or a command destination, for third-party control.

- *User Control Interface tool – create custom control panels with Q-Sys Designer’s UCI tool and operated from any computer on the network, Wi-Fi connected iPad or iPhone. IP-based external control protocol ensures connecting with third-party controllers.*
- *UCI Viewer for PC workstations provides customized user control interfaces; Designer’s administrator utility allows creates password and user access rights for each UCI.*

TSC-3 Touchscreen



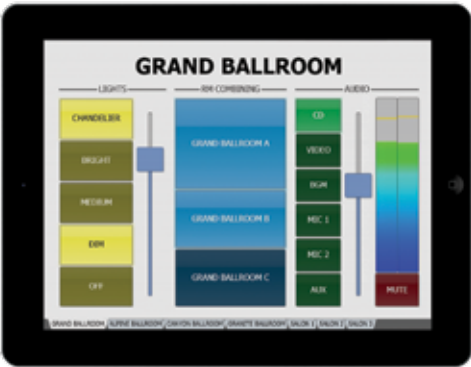
User Control Hardware options

Q-Sys allows UCI screens to be hosted on QSC touch screen controllers, PC workstations, and iOS devices.

QSC Touch Screen Controllers

- *TSC-3 - a 3.5 inch screen with 320 x 240 resolution, powered via PoE (Power over Ethernet) and designed for flush mount installation in a standard U.S. 2-gang wall box, or surface mounting with the included kit.*

iOS App Controller



SC28 System Controller



The SC28 is a dedicated rack-mount, loudspeaker processor with optimized tunings for QSC WideLine loudspeakers. Advanced DSP incorporate IIR (Infinite Impulse Response) as well as FIR (Finite Impulse Response) filters implement “Intrinsic Correction™” of the loudspeaker resulting in the most accurate acoustical magnitude, frequency and phase domain performance possible. Optimized for use with or without subwoofer support, the SC28 features thermal and excursion protection for each transducer and the rear-panel USB port can be used to upload new loudspeaker tunings.

- 48 kHz, 24-bit A/D and D/A conversion with 32-bit, floating point DSP.
- Intrinsic Correction™ actively adjusts time, frequency and amplitude response resulting in a maximally flat bandpass target across the entire sound field.



- Two (2) XLR line-level inputs.
- Eight (8) XLR line-level outputs.
- Six (6) parametric filters with adjustable frequency, gain and bandwidth.
- High and low shelf filters with adjustable frequency, gain and slope.
- Configures itself for optimal audio reproduction based on WideLine model and configuration selected.
- Amplifier / processor calibration for proper balance and loudspeaker protection.
- Adjustable Subwoofer delay up to 50.00 ms and array delay up to 20.00 ms.

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Amplifiers



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Notes

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