

QSC® SYSTEMS

Pocket Reference Guide



QSC is a globally recognized manufacturer of audio, video and control systems for huddle rooms to large outdoor venues—and everything in between. While we're known for solid amplifiers and loudspeakers, we have a rich legacy in networked audio and digital signal processing. This history, combined with strong IT expertise, allows our team to develop flexible, software-based products. Our systems enable your team to design and integrate projects that deliver the native IT integration and standards-based technology today's IT decision makers expect.

The following pages represent our latest Systems 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 training site is another great resource to learn more about QSC products and solutions.

Enjoy the Guide.



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Q-SYS™
PLATFORM

Q-SYS™

The World's Most Powerful Software Based DSP Solution for Audio, Video & Control



Q-SYS Cores

Q-SYS™, QSC's software based DSP platform, gives the systems integrator and end user a unified software design tool and feature set suitable for projects of any scale. 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, 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 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.

- **Layer 3 networking:** Ensures Q-SYS can run on the backbone of existing IT infrastructure eliminating the need for a dedicated audio network.
- **Industry leading hardware design:** Future-proof investment in standards based software and computer technology running on Intel processors.
 - **Suite of software based conferencing technology applications:** Including acoustic echo cancellation, multiple-instance SIP Softphones, gain sharing and gating automatic mic mixers.
- **Unified Software Platform:** Single training investment in one software design tool for small to large systems of all applications types.



Unified Core

The Q-SYS™ Core 110f is the latest addition to the Q-SYS Core family, providing a solution for small, single room projects up to the largest Enterprise scale deployments. This smaller Core is ideal for: acoustic echo canceling and sound reinforcement in small to large meeting or multipurpose rooms, sound reinforcement in performance venues such as house of worship and theater, background music systems, wide area paging in airports, convention centers and hospitals.

- **Class leading I/O:** Core 110f has 24 I/O + USB, POTS and VoIP simultaneously offering the best cost to I/O ratio in a single SKU, single chassis product available on the market.
- **8 Flex Channels:** Nearly all the flexibility of a card-based DSP solution without the hassle of multiple SKU's and custom ordering.
- **True IT Software Integration:** The Q-SYS Software platform is a true IT integrative solution that is free of the fixed hardware limitations seen in competing products. It allows for greater functionality such as Layer 3 routing, LDAP contact server integration, SNMP monitoring, and more.
- **Suite of Software-Based Conferencing Technology applications:** Built and owned by QSC from the ground up allowing for continued refinement, without any additional hardware. The suite includes next generation acoustic echo cancellation (AEC), multiple-instance SIP softphones, gain sharing and gating automixers.
- **Unified Software Platform:** The integrator has a single training investment in one software design tool rather than needing to learn several platforms to scale from small to large systems.



Core 500i

Integrated Core

Q-SYS™ Core 500i Integrated Core brings the power of the larger Q-SYS Cores to medium-sized applications. This integrated Core can accommodate up to eight internal Q-SYS input and/or output cards for a total onboard channel capacity of 32 channels (or more if AES, Dante™, CobraNet™ cards are used) and up to 128 network channels. Channel count may be further expanded by the addition of Q-SYS I/O Frames and other peripheral devices.



Core 1100 / 3100

Enterprise Cores

There are two Q-SYS™ Enterprise Core models, both tailored to meet the demanding needs of large scale installations. Core 1100 (256x256 network channels), and Core 3100 (512x512 network channels) are designed to work with numerous PTZ-IP Conference Cameras, Touchscreen Controllers, Page Stations and Amplifiers, with each of these multiple peripherals located remotely throughout the venue.

Q-SYS[®] TRAINING

Q-SYS Level 1 Training - Corporate AV

The Basics of the Modern Conference Room: The introduction to the software will give students the ability to implement VoIP & POTS based conferencing solution, scheduling automated presets and building intuitive user control interfaces.

Online and classroom version: Level 1 Training is available on online or in regional training seminars around the world.

Multiple languages available: Q-SYS™ Training is available in English, Spanish and Chinese with more languages planned for future release.

Q-SYS Training Level 2 - Large System Design

Experienced Trainers: One-on-one instruction from advanced application engineers and trainers who specialize in a wide variety on installations.

Hands-on Experience: Each student works on a full Q-SYS™ workstation with the latest Q-SYS hardware and software.

Advanced Application-based Curriculum:

Topics include Public Address, Networking Troubleshooting, Third Party Control, Core-to-Core Streaming/Paging, GPIO integration, Advanced User Control Interface and more.



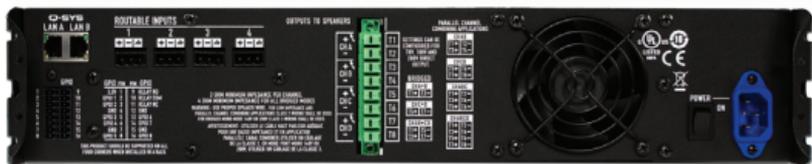
Q-SYS Training has been approved by InfoComm for RU credits.

Level 1: 4 RU **Level 2:** 8 RU

Visit www.qsctraining.com to begin your Q-SYS Training.

Q-SYS™

CXD-Q Series Network Amplifiers



CXD4.3Q

Designed specifically for use with the Q-SYS™ platform, CXD-Q amplifiers marry the new amplifier technology found in the CXD 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 ports, the CXD-Q amplifiers seamlessly integrate with Q-SYS providing audio streaming directly to and from the amplifiers.

		CXD4.2Q	CXD4.3Q	CXD4.5Q
		Peak	Peak	Peak
4 Independent Channels A, B, C, D	70 V	N/A	500W	1000W
	100 V	N/A	625 W	1250 W
	8Ω	500 W	900 W	1200 W
	4Ω	700 W	1400 W	2000 W
	2Ω	625 W	1200 W	1600 W
2 Channels BTL Bridged A+B or C+D Doubles Voltage	8Ω	1200 W	2400 W	4000 W
	4Ω	1500 W	NR*	NR*
	2Ω	NR*	NR*	NR*
2 Channels Parallel AB or CD Doubles Current	8Ω	500 W	1300 W	1250 W
	4Ω	950 W	2000 W	2400 W
	2Ω	1200 W	2500 W	4000 W
1 Channel 3CH Parallel ABC Triples Current	8Ω	500 W	1400 W	1400 W
	4Ω	950 W	2400 W	2500 W
	2Ω	1800 W	3500 W	4500 W
1 Channel Bridged/Parallel AB+CD Doubles Current and Voltage	8Ω	1600 W	3500 W	4500 W
	4Ω	2500 W	5000 W	7500 W
	2Ω	NR*	NR*	NR*
1 Channel 4CH Parallel ABCD Quadruples Current	8Ω	500 W	1400 W	1600 W
	4Ω	1000 W	3000 W	3000 W
	2Ω	1700 W	5000 W	5300 W

NR* = Not Recommended due to excessive current draw

BOLD = Optimal configuration for the load and channel count



- Q-SYS Designer Software includes the CXD-Q amplifiers in the inventory options and provides complete system wide design, as well as control and monitoring capability.
- Euroblock input connectors and touch-proof Euroblock loudspeaker output connectors.
- PowerLight™ universal switchmode power supply with Power Factor Correction (PCF) for highest efficiency, improved audio performance, and low weight.



QSC



STATUS



POWER

STATUS POWER

QSC

Q-SYS™

AV-to-USB Bridging Solution



NEW Q-SYS PTZ-12x72 / PTZ-20x60

- **Highest-quality HD Imaging:** These two HD 1080p Pan, Tilt, and Zoom (PTZ) conference room cameras cover all room types. The PTZ-12x72 is ideal for small and wide rooms, providing a wide 72° horizontal field of view and 12x optical zoom lens. The PTZ-20x60 is ideal for larger, longer room with a 20x optical zoom lens.
- **Eliminates USB Limitations:** A single PoE Ethernet cable simplifies the installation of these network cameras, allowing you to install as many cameras as you need to cover any room or an entire campus. When combined with the networked Q-SYS I/O USB Bridge, you can offer end users with USB audio and conference camera access points anywhere on the system. Q-SYS bridging devices allow you to simultaneously connect virtually any number of PCs to these cameras without complicated and expensive USB switches or extenders.
- **Simplified Control:** View and control video camera feeds from any Q-SYS User Control Interface. System designers can customize the camera controls to meet their needs, from simple automated conference room use to more comprehensive switching and monitoring controls.

Q-SYS™

AV-to-USB Bridging Solution



NEW Q-SYS I/O USB Bridge

- **Standard USB 2.0 Driverless connection:** The Q-SYS AV to USB Bridging solution leverages standard USB UVC drivers for USB audio and Q-SYS conference camera access points. No additional software or drivers are required to make the solution work with modern PC operating systems and soft codec applications such as Skype for Business™, GoToMeeting™ and others.
- **AV Access Everywhere:** Small enough to fit anywhere you need USB access into your Q-SYS installed room AV systems. These PoE network devices provide USB access to a Host PC or other user device.
- **Eliminates USB Limitations:** Eliminate the need for complicated and expensive USB switches and extenders for Q-SYS USB/BYOD connectivity. Being a small PoE network peripheral, I/O-USB Bridges can easily be mounted closely to every USB host that needs Q-SYS AV access.
- **Redundancy:** The I/O-USB Bridge provides two network ports for full redundancy connections.

Q-SYS™

I/O Peripheral



I/O Frame and I/O Frame 8s

The Q-SYS™ I/O Frame and I/O Frame 8s provide the remote points of connection that interface Q-SYS with other components of the audio system, including microphones, mixers and power amplifiers. I/O Frame offers four available card slots while the I/O Frame 8s offers eight available card slots.



I/O-22

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™

Control Peripherals



TSC-7t Tabletop Touch Screen Controller

- **Consolidate Dialing and Control:** In addition to the dialing functionality for your conferences, this 7" screen (800px x 480px) can be used to control a myriad of third-party devices prevalent in boardrooms and meeting rooms via the Core (no additional control processor required).
- **BYOD Options:** Allows meeting participants to easily run UC or web conferencing applications like Skype for Business™ and GoToMeeting™ on their own devices and interface 2-way audio from that device to the Q-SYS™ system, using TSC-7t's Micro USB AB On-The-Go (OTG 2.0) connection.
- **Capacitive Touch Technology:** Eliminates physical knobs and buttons increasing product reliability.
- **Single drop PoE cabling:** Ethernet connection for simplified wire terminations without the need for additional power wiring.
- **Table Mounting System:** Carefully designed weighted base with rubber pad prevents the touch screen from sliding, while the included threaded brass mounting post offers permanent through-table mounting with clean cable management.
- **Redundancy Options:** TSC-7t provides two network ports for connection full control redundancy.





TSC-7w Wall-mount Touch Screen Controller

- **Configurable Wall-Mounted Control:** This 7" screen (800px x 480px) can be used to control a myriad of third-party devices prevalent in boardrooms and meeting rooms via the Core (no additional control processor required).
- **Capacitive Touch Technology:** Eliminates physical knobs and buttons increasing product reliability.
- **Single drop PoE cabling:** Ethernet connection for simplified wire terminations without the need for additional power wiring.
- **Redundancy Options:** TSC-7w provides two network ports for full control redundancy.



TSC-3 Wall-mount Touch Screen Controller

- **Configurable Wall-Mounted Control:** This 3.5 inch (320 x 240 resolution) features Power over Ethernet (PoE) and is designed for flush mount installation in a standard U.S. 2-gang wall box, or surface mounting with the included kit.

UCI Viewer for PC Workstations

- **UCI Viewer anywhere you need it:** Provides customized user control interfaces; Q-SYS Designer Software administrator utility allows creates password and user access rights for each UCI.
- **User Control Interface tool:** Create custom control panels with Q-SYS Designer Software (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.



iOS App Controller 

Q-SYS™

I/O Cards



Mic/Line Analog Input Card



Analog Line Output Card



AES-3 Digital Input/Output Card



AES-16 Digital Output Card



DataPort Output Card



CobraNet™ Digital Input/Output Card



Dante™ Network Audio Bridge Card



AVB Audio Bridge Card

I/O Cards

The following cards are available for Integrated & Enterprise Cores, as well as both I/O Frames:

- Mic/Line Analog Input Card (CIML4/CIML4-HP):** Four channels of mic/line-level analog audio input with 48 V phantom power. This card provides standard inputs for sources like for 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.
- **AES-16 Input Card (CIAES-16):** 16-channel AES/EBU (AES3) 24-bit digital input Q-SYS peripheral card that utilizes IT industry standard RJ45 connectors.
- **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, when used in an I/O Frame or up to 32 x 32 when used in a Core or I/O Frame 8s.
- **Dante™ Audio Bridge Card (CDN64):** Provides a bridge for up to 64 x 64 channels of Dante audio in to the Q-SYS platform for redistribution over larger LAN and WAN IT infrastructures.
- **AVB Audio Video Bridge Card (CAN32):** Provides a digital bridge between any 100mb AVB 1722.1 compliant edge network and the Q-SYS Platform. The CAN32 will support 32 total channels at 48 kHz in three available operating modes: 0/32, 32/0 or 16x16.

Q-SYS™

Public Address 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.
- **PA Router:** Supports live and delayed paging, scheduled messaging, announcement recording, live page routing, triggered playback, and event scheduling.



Gooseneck
Page Station

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 24VDC.
- 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 (Q-SYS Touchscreen or UCI Viewer), and your microphone of choice emulates the functionality of the models listed above.



PS-X Paging Accessory

AMPLIFIERS

MUTE

LIM

-10

-20

SEL

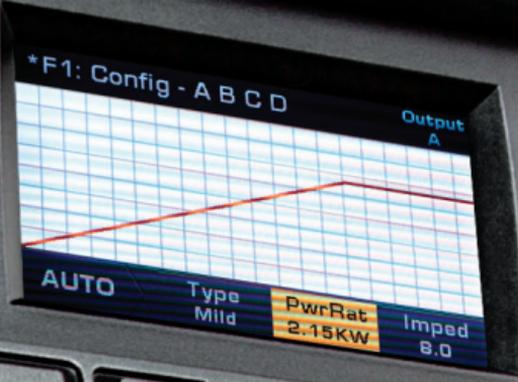
SEL

SEL

CLIP

SIG

2 INPUT 3 4



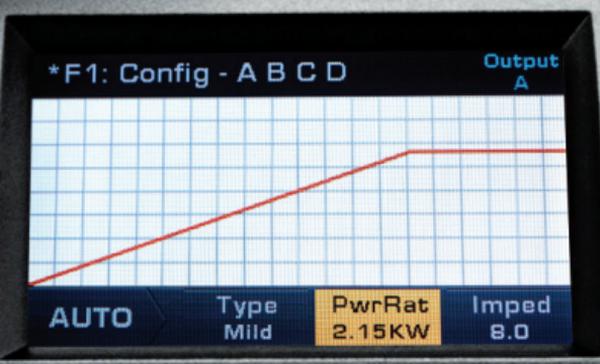
HOME

ENTER

EXIT

GAIN

QSC



HOME

ENTER

EXIT

GAIN

MASTER CONTROL

3000 W

QSC



HOME

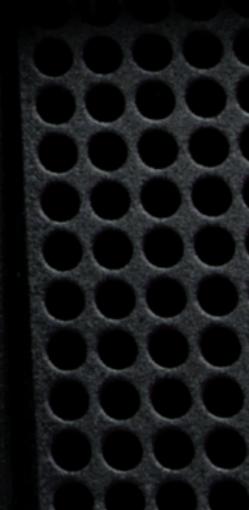
ENTER

EXIT

GAIN

MASTER CONTROL

5000 W



SPA Series Amplifiers



The SPA Series are half rack 1RU, convection cooled power amplifiers, delivering two or four channels of power that can be bridged to supply up to 350W per channel pairs into 70V or 100V. The SPA2-60 and SPA4-60 will deliver 60 watts per channel, while the SPA4-100 will deliver 100 watts per channel and SPA2-200 will deliver up to 200 watts per channel into 4 Ω and 8 Ω . Utilizing an advanced Class-D amplifier design and Universal Power Supply, the SPA Series are amazingly efficient, allowing them to be convection cooled and ENERGY STAR[®] qualified with quiet auto-ramp standby functionality. SPA amplifiers are housed in an unobtrusive 1/2 RU chassis with unique mounting hardware enabling rack, table and wall mounting capabilities.

- **Up to 200 watts into 4 Ω and 8 Ω , and up to 350 watts into 70V and 100V.**
- **ENERGY STAR[®] qualified amplifier:** Efficient class-D amplifiers that conserve energy and require no active cooling, so they reduce operational costs.
- **Bridgeable outputs for higher power:** Bridging the outputs of the SPA Series amplifiers provide up to 400 watts into low impedance, and 350 watts into 70V or 100V offering outstanding flexibility.
- **Auto-Ramp provides quiet startup and power-down:** The ENERGY STAR[®] Auto-Ramp circuitry ensures quiet and fast power up from Standby and seamless power-down following 25 minutes of inactivity, dramatically reducing power consumption.
- **Rack-mountable 1U, half rack width enclosure:** Can be mounted in 1/2 RU reducing rack space requirements. In addition their clever joining "brackets" enable easy under-table and wall-mounting.



	SPA2-60	SPA4-60	SPA2-200	SPA4-100
Stereo Mode				
8Ω	60 W	60 W	200 W	100 W
4Ω	60 W	60 W	200 W	100 W
Bridged Outputs				
8Ω & 4Ω	200 W	200 W	400 W	200 W
70V	250 W	250 W	350 W	350 W*
100V	250 W	250 W	350 W	350 W*

*Burst Power - dependant on other channel loads



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

CXD Series Processing Amplifiers



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.

		CXD4.2	CXD4.3	CXD4.5
		Peak	Peak	Peak
4 Independent Channels A, B, C, D	70 V	N/A	500W	1000W
	100 V	N/A	625 W	1250 W
	8Ω	500 W	900 W	1200 W
	4Ω	700 W	1400 W	2000 W
	2Ω	625 W	1200 W	1600 W
2 Channels BTL Bridged A+B or C+D Doubles Voltage	8Ω	1200 W	2400 W	4000 W
	4Ω	1500 W	NR*	NR*
	2Ω	NR*	NR*	NR*
2 Channels Parallel AB or CD Doubles Current	8Ω	500 W	1300 W	1250 W
	4Ω	950 W	2000 W	2400 W
	2Ω	1200 W	2500 W	4000 W
1 Channel 3CH Parallel ABC Triples Current	8Ω	500 W	1400 W	1400 W
	4Ω	950 W	2400 W	2500 W
	2Ω	1800 W	3500 W	4500 W
1 Channel Bridged/Parallel AB+CD Doubles Current and Voltage	8Ω	1600 W	3500 W	4500 W
	4Ω	2500 W	5000 W	7500 W
	2Ω	NR*	NR*	NR*
1 Channel 4CH Parallel ABCD Quadruples Current	8Ω	500 W	1400 W	1600 W
	4Ω	1000 W	3000 W	3000 W
	2Ω	1700 W	5000 W	5300 W

NR* = Not Recommended due to excessive current draw

BOLD = Optimal configuration for the load and channel count

- 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.



CX Series Amplifiers



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 Series Amplifiers also feature advanced amplifier control and monitoring for Q-SYS™ Platform.

- 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 for precise level adjustment and are protected by tamper-proof security covers.
- DataPort connections enable remote control and monitoring of amplifier functions via Q-SYS™.
- Selectable clip limiters and infra-sonic filters protect loudspeakers from damage due to distortion and overexcursion.
- DataPort or EuroBlock Connector Inputs and touch-proof barrier-strip outputs (2 ch models also include XLR inputs and 8 ch models feature EuroBlock Connector Outputs).
- Sleep (Standby) Mode for energy saving efficiency.
- Transformer-less 70 /100 volt models available.



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, 0.1% THD



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

PowerLight™ 3 Series Amplifiers



PowerLight 3 Series are our “Ultimate Analog” amplifiers, designed for the most demanding concert and live-sound reinforcement applications. All models (PL380 and PL340) 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) 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 and/or the DSP-4 module.
- 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
PL340	800	1250	2000
PL380	1500	2500	4000*

EIA 1 kHz, 1% THD

*Burst mode testing required due to AC service current limitations



CMXa Series Amplifiers



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). Flexible input and output connectors make them ideal for use in projects such as performance halls, houses of worship, sport clubs, gymnasiums, dance venues, pubs, and FGM/BGM systems. CMXa Series provides unmatched performance and user options 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 Model)

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



GXD Series Processing Amplifiers



GXD Series amplifiers are ideal for installations with demanding DSP requirements and flexibility at a cost effective price. 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. 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.

- Total power of 4500W and 1600W 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.
- Class-D output power with a universal switchmode power supply for high performance and efficiency, as well as light weight.
- 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.



GXD4 Rear



GXD8 Rear

Watts per channel

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

Both channels driven. 1kHz, onset of clipping



ISA Series



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.



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



LOUDSPEAKERS

AcousticCoverage™ Series

Distributed Applications
Installation Value Series



AcousticDesign™ Series

Distributed Applications
Installation Premium Series



AcousticPerformance™ Series

Performance Applications
Installation Point-and-Shoot



ILA Series

Performance Applications
Installation Line Array

AcousticCoverage™ Series Loudspeakers

Ceiling-mount



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 Intrinsic Correction™ available through either the Q-SYS™ Platform or CXD Series amplifiers.
- White (RAL 9010) with UV inhibitors to match complimenting QSC loudspeaker series.
- Complete EASE, CAD & BIM information available online.

**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	4.5" Polypropylene cone with butyl rubber surround	LF: 6.5" Polypropylene cone with butyl rubber surround HF: 0.86" silk dome tweeter, coaxially mounted
Rated Impedance	8 ohm	8 ohm
Input Connectors	Euroblock connector with parallel output terminals	Euroblock connector with parallel output terminals
Baffle Material	Painted ABS polymer	Painted ABS polymer
Cut-out Dimension	Ø 7.3" (Ø 186 mm)	Ø 9" (Ø 229 mm)
Product Dimension	Ø 8.4" x 7.9" (Ø 214 x 201 mm)	Ø 10.24" x 8.4" (Ø 260 x 213 mm)
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.



AcousticCoverage™ Series Loudspeakers

Ceiling-mount



AC-C8T

Frequency Range (-10 dB)	52 Hz – 20 kHz
Power Capacity ¹	80 W
Broad-Band Sensitivity ²	89 dB
Coverage Angle	100° (500 Hz - 5 kHz)
Output ³ (Peak SPL @ 1M)	114 dB
Driver Information	
LF	8" Treated paper cone
HF	0.86" Silk dome tweeter
Rated Impedance	8 ohm
Input Connectors	Euroblock connector with parallel output terminals
Baffle Material	Painted ABS polymer
Cut-out Dimension	Ø 11.2" (Ø 285 mm)
Product Dimension	Ø 12.4" x 11.3" (Ø 316 x 288 mm)
Net Weight	11.5 lbs / 5.2 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.



Non-UL Versions

**AC-C4T-NB****AC-C8T-NB**

Frequency Range (-10 dB)	62 Hz – 18 kHz	53 Hz – 20 kHz
Power Capacity ¹	6 W	6 W
Broad-Band Sensitivity ²	93 dB	96 dB
Coverage Angle	140° (500 Hz - 5 kHz)	130° (500 Hz - 5 kHz)
Output ³ (Peak SPL @ 1M)	107 dB	110 dB
Driver Information	4" Treated paper cone	8" Treated paper cone
Rated Impedance	8 ohm	8 ohm
Input Connectors	Bare wire transformer taps	Bare wire transformer taps
Baffle Material	Painted ABS polymer	Painted ABS polymer
Cut-out Dimension	Ø 9" (Ø 228 mm)	Ø 11.06" (Ø 281 mm)
Product Dimension	Ø 10.25" x 5.8" (Ø 260 x 148 mm)	Ø 12.3" x 4.2" (Ø 313 x 107 mm)
Net Weight	2.6 lbs / 1.2 kg	3.4 lbs / 1.5 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 Loudspeakers

Ceiling-mount



The second generation of AcousticDesign™ ceiling-mount loudspeakers are high quality 70/100V, two-way, full-range systems ideal for a wide variety of foreground, background, paging, and distance-conferencing applications.

Designer Friendly:

- Available in White (RAL 9010) or Black (RAL 9011)
- Paintable grill & bevel
- Deliberate 23mm bezel width to match T-bar
- Complete EASE, CLF, CAD & BIM information (coming soon)

Application Diverse:

- UL Listed (UL 1480 / UL2043)
- EN54-24 for use in Voice Alarm Systems (pending)
- UV Inhibitors in all white models
- Powder coated Grills
- Weather-treated cones



Install Ready

- SnapFit magnetic grills
- Low saturation 70/100V transformers
- 16 ohm low impedance bypass
- 3x Long-travel dog-ears
- Screw-down Euro block connector with loop-through
- Removable conduit cover with no loose screws
- Low profile, short back-can versions available

Factory Optimized:

- **DMT (Directivity Matched Transition™):** ensures smooth, uniform frequency response over the rated coverage area
- **Intrinsic Correction™:** factory voicings available of CXD amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project

AcousticDesign™ Series Loudspeakers

Ceiling-mount



AD-C4T-WH
AD-C4T-BK

AD-C4T-LP

Frequency Range (-10 dB)	70 Hz – 20 kHz	70 Hz – 20 kHz
Power Capacity ¹	30 W	30 W
System Sensitivity ²	87.5 dB	87 dB
Coverage Angle	150° Conical DMT	150° Conical DMT
Output ³ (Peak SPL @ 1M)	108 dB	108 dB
Driver Information		
LF	4.5" weather resistant paper cone woofer	4.5" weather resistant paper cone woofer
HF	0.75" aluminum dome tweeter	0.75" aluminum dome tweeter
Rated Impedance	16 ohm	16 ohm
Input Connectors	4-pin Euro terminals	4-pin Euro terminals
Cut-out Dimension	Ø 7.68" (Ø 195 mm)	Ø 9.65" (Ø 245 mm)
Product Dimension	Ø 9.06" x 6.93" (Ø 230 x 176 mm)	Ø 11.02" x 3.93" (Ø 280 x 100 mm)
Net Weight	6.4 lb / 2.9 kg	6.6 lb / 3 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.





AD-C6T-WH
AD-C6T-BK

AD-C6T-LP

Frequency Range (-10 dB)	65 Hz – 20 kHz	65 Hz – 20 kHz
Power Capacity ¹	60 W	60 W
System Sensitivity ²	88 dB	88 dB
Coverage Angle	140° Conical DMT	140° Conical DMT
Output ³ (Peak SPL @ 1m)	112 dB	112 dB
Driver Information		
LF	6.5" weather resistant paper cone woofer	6.5" weather resistant paper cone woofer
HF	0.75" aluminum dome tweeter	0.75" aluminum dome tweeter
Rated Impedance	16 ohm	16 ohm
Input Connectors	4-pin Euro terminals	4-pin Euro terminals
Cut-out Dimension	Ø 9.65" (Ø 245 mm)	Ø 12" (Ø 305 mm)
Product Dimension	Ø 11.02" x 9.32" (Ø 280 x 237 mm)	Ø 13.37" x 3.95 " (Ø 340 x 100 mm)
Net Weight	9.5 lb / 4.3 kg	9.3 lb / 4.2 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 Loudspeakers

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" low-frequency woofer with 1.4" 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	16 ohm	16 ohm
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.





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' enclosure using industry-standard transducer / baffle mounting points.



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.



AD-C81Tw

Frequency Range (-10 dB)	28 Hz – 208 Hz
Power Capacity ¹	250 W (100 hrs)
System Sensitivity ²	94 dB
Coverage Angle	N/A
Output ³ (Peak SPL @ 1M)	118 dB
Driver Information	
LF	8" weather resistant, polypropylene cone woofer, rubber surround
HF	N/A
Rated Impedance	8 ohm
Input Connectors	Ceramic block or 4-pin Euro terminals, fire protective sub-chamber
Cut-out Dimension	Ø 11.65" (Ø 296 mm)
Product Dimension	Ø 12.6" x 14.8" (Ø 321 x 377 mm)
Enclosure	Steel back can
Net Weight (each)	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 Loudspeakers

Pendant-mount



The all new line up of AcousticDesign™ pendant-mount loudspeakers are high quality 70/100V, two-way, full-range systems ideal for a wide variety of foreground and background business music applications.

Designer Friendly:

- Deliberately unobtrusive industrial design
- Available in white (RAL 9010) or black (RAL 9011)
- Paintable enclosure and grille
- Complete EASE, CLF, CAD & BIM information (coming soon)

Application Diverse:

- Lightweight rugged ABS Construction
- UV Inhibitors in all white models
- IP-54 rating for dust and splash resistance
- Powder-coated grilles and weather-treated cones

Install Ready:

- SnapFit magnetic grills
- Low saturation 70/100V transformers
- 16 ohm low impedance bypass
- 2x quick link wire assemblies with gripple fastener supplied
- Screw-down Euro block connector with loop-through
- Sealable Input Weather Cup – keeps moisture away from wiring



Factory Optimized:

- **DMT (Directivity Matched Transition™):** ensures smooth, uniform frequency response over the rated coverage area
- **Intrinsic Correction™:** factory voicings available of CXD amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project

AcousticDesign™ Series Loudspeakers

Pendant-mount



AD-P4T-WH

AD-P4T-BK

Effective frequency range ¹	70 Hz – 20 kHz	70 Hz – 20 kHz
Power Capacity	30 W	30 W
System Sensitivity	87.5 dB	87.5 dB
Coverage Angle	150° Conical DMT	150° Conical DMT
Output ⁴ (Peak SPL @ 1M)	108 dB	108 dB
Driver Information		
LF	4.5" weather resistant paper cone woofer	4.5" weather resistant paper cone woofer
HF	0.75" aluminum dome tweeter	0.75" aluminum dome tweeter
Rated Impedance	16 ohm	16 ohm
Input Connectors	4-pin Euro terminals	4-pin Euro terminals
Net Weight	TBD	TBD

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



**AD-P6T-WH****AD-P6T-BK**

Effective frequency range ¹	65 Hz – 20 kHz	65 Hz – 20 kHz
Power Capacity	60 W	60 W
System Sensitivity	88 dB	88 dB
Coverage Angle	140° Conical DMT	140° Conical DMT
Output ⁴ (Peak SPL @ 1M)	112 dB	112 dB
Driver Information		
LF	6.5" weather resistant paper cone woofer	6.5" weather resistant paper cone woofer
HF	0.75" aluminum dome tweeter	0.75" aluminum dome tweeter
Rated Impedance	16 ohm	16 ohm
Input Connectors	4-pin Euro terminals	
Net Weight	TBD	TBD

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



AcousticCoverage™ Series Loudspeakers

Surface-mount



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's Intrinsic Correction™ available through either the Q-SYS™ Platform or CXD Series amplifiers.
- Spring-loaded and rotatable logo on grill for installation convenience in either horizontal or vertical deployments.
- White (RAL 9010) with UV inhibitors to match complimenting QSC loudspeaker series.
- Complete EASE, CAD & BIM information available.



AC-S4T-WH
AC-S4T-BK



AC-S6T-WH
AC-S6T-BK

Frequency Range (-10 dB)	70 Hz – 20 kHz	60 Hz – 20 kHz
Power Capacity ¹	16 W	30 W
Broad-Band Sensitivity ²	85 dB SPL	86 dB SPL
Coverage Angle	130° (500 Hz - 5 kHz)	130° (500 Hz - 5 kHz)
Output ³ (Peak SPL @ 1M)	103 dB	107 dB
Driver Information	4.5" Polypropylene woofer with 1" voice-coil	6.5" Polypropylene woofer with 1" voice-coil
Rated Impedance	8 ohm	8 ohm
Input Connectors	Euroblock connector with parallel output terminals	Euroblock connector with parallel output terminals
Baffle Material	Painted ABS polymer	Painted ABS polymer
Net Weight	5.2 lbs / 2.4 kg	8.3 lbs / 3.8 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 Loudspeakers

Indoor/Outdoor Surface-mount



The second generation of AcousticDesign™ surface-mount loudspeakers are professional, 70/100V, two-way, full-range systems ideal for a wide variety of foreground, background, ancillary and sound reinforcement. Ease-of-installation was the driving principles behind these new surface loudspeakers, culminating in the patented X-Mount wall bracket with best-in-class functionality and repeatable angles.

Designer Friendly:

- Available in White (RAL 9010) or Black (RAL 9011)
- Paintable grill & enclosure
- Complete EASE, CLF, CAD & BIM information available now

Application Diverse:

- IP-54 for dust and splash resistance
- Lightweight rugged ABS construction with UV Inhibitors
- Powder coated aluminum grills, X-Mount™ and treated hardware
- Weather-treated cones

Install Ready

- Patented X-Mount™ provides rapid deployment with repeatable angles
- Low saturation 70/100V transformers (excluding S12/S112SW)
- 8 ohm low impedance bypass
- Euro block connector with loop-through
- Sealable Input Weather Cup - keeps moisture away from wiring
- Optional Yoke mount and M10 Kit-C for larger models (S8T/S10T/S12)



Input terminal cover



Patented X-Mount™ mounting system

Factory Optimized:

- **DMT (Directivity Matched Transition™):** ensures smooth, uniform frequency response over the rated coverage area
- **Intrinsic Correction™:** factory voicings available of CXD amplifiers and Q-SYS Designer Software - delivers repeatable performance from project to project

AcousticDesign™ Series Loudspeakers

Indoor/Outdoor Surface-mount



AD-S4T-WH
AD-S4T-BK



AD-S6T-WH
AD-S6T-BK

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	4.5" weather treated paper cone woofer	6.5" weather treated paper cone woofer
HF	0.75" silk dome tweeter / 0.75" voice-coil	1" silk dome tweeter / 1" voice-coil
Rated Impedance	8 ohm	8 ohm
Input Connectors	Euroblock connector with parallel output terminals	
Enclosure	Painted ABS polymer	
Ingress protection	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-WH
AD-S8T-BK

AD-S10T-WH
AD-S10T-BK

Effective frequency range ¹	55 kHz – 20 kHz	50 Hz – 19 kHz
Rated noise power / voltage ²	200W / 40V (rms)	250W / 45V (rms)
Broad-band sensitivity ³	90 dB SPL	92 dB SPL
Coverage Angle (-6 dB)	105° conical	90° conical
Output ⁴ (Peak SPL @ 1M)	121 dB	122 dB
Driver Information		
LF	8" weather treated paper cone woofer	10" weather treated paper cone woofer, 2.5" / 64 mm voice-coil
HF	1" exit / 1.4" voice-coil compression driver	1" exit / 1.4" voice-coil compression driver
Rated Impedance	8 ohm	8 ohm
Input Connectors	Euroblock connector with parallel output terminals	
Enclosure	Painted ABS polymer	Painted ABS polymer
Ingress protection	IP-54	IP-54
Net Weight	24.1 lbs / 11 kg	31 lbs / 15 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



AcousticDesign™ Series Loudspeakers

Indoor/Outdoor Surface-mount



AD-S12-WH
AD-S12-BK

AD-S112sw

Effective frequency range ¹	52 Hz – 20 kHz	30 Hz - 135 Hz
Rated noise power / voltage ²	300W / 50V (rms)	300W / 50V (rms)
Broad-band sensitivity ³	95 dB SPL	90 dB SPL
Coverage Angle (-6 dB)	75° conical	N/A
Output ⁴ (Peak SPL @ 1M)	126 dB	121 dB
Driver Information		
LF	12" weather treated paper cone woofer, 2.5" / 64mm voice-coil	12" weather treated paper cone woofer, 2.5" / 64mm voice coil
HF	1" exit / 1.4" voice-coil compression driver	
Rated Impedance	8 ohm	8 ohm
Input Connectors	Euroblock connector with parallel output terminals	
Enclosure	Painted ABS polymer	
Ingress protection	IP-54	
Net Weight	35 lbs / 16 kg	29 lb / 13.2 kg





AD-S10T with patented X-Mount™ mounting system

AcousticDesign™ Series Loudspeakers

Indoor/Outdoor 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.

- Includes ball mount assembly and yoke mount.
- Enclosure is molded from high impact polystyrene (HiPS).
- Powder coated aluminum grille.
- Available in black or white.
- Sealable Input Weather Cup – keeps moisture away from wiring

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. The AD-S282H / AD-S282HT features contemporary styling and is perfect for a variety of environments and applications.

- 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.





AD-S32T-WH
AD-S32T-BK

AD-S282H-WH
AD-S282H-BK

AD-S282H-WH
AD-S282H-BK

Frequency Range (-10 dB)	65 Hz – 20 Hz	60 Hz – 20 kHz	60 Hz – 20 kHz
Power Capacity	30 W (100 hrs)	450 W (8 hrs)	450 W (8 hrs)
System Sensitivity	85 dB	93 dB	93 dB
Coverage Angle	100° conical	90°H x 60°V rotatable	90°H x 60°V rotatable
Output ¹ (Peak SPL @ 1M)	105 dB	126 dB	126 dB
Driver Information	3" weather resistant, poly-propylene cone woofer	Dual 8" high-power treated cone, 2" voice coil, neodymium magnet	Dual 8" high-power treated cone, 2" voice coil, neodymium magnet
HF	0.75" neodymium tweeter	1" high output compression driver	1" high output compression driver
Rated Impedance	8 ohm	8 ohm	8 ohm
Input Connectors	Screw terminals	Barrier Strip (switchable: passive/bi-amp)	Barrier Strip
Enclosure	Injection molded, weather resistant high impact polystyrene		
Net Weight	4 lb / 1.8 kg	27.7 lb / 12.6 kg	27.7 lb / 12.6 kg

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



AcousticDesign™ AD-S28Tw Subwoofer

Surface-mount



Designed and acoustically matched for use with AcousticDesign™ installation loudspeakers, the AD-S28Tw is a dual 8" 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" 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.
- 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).



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 (2 π)
Output ²	
2 π (half space)	124 dB SPL / 118 dB SPL
4 π (full space)	118 dB SPL / 112 dB SPL
Driver Information	
LF	Dual 8" (200 mm) weather resistant, polypropylene cone woofers, rubber surround
Nominal Impedance	8 ohm
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.



AcousticPerformance™ Series Loudspeakers

Installation Point-and-Shoot



AcousticPerformance™ is a line of professional loudspeakers ideally suited for a wide variety of foreground sound reinforcement applications requiring high sound pressure levels from an unobtrusive, stylish enclosure. AcousticPerformance™ loudspeakers utilize DMT™ (Directivity Matched Transition), a design approach that matches HF waveguide to the natural coverage angle of the woofer at the cross-over region. This innovation vastly improves the loudspeakers power response resulting in smooth and consistent coverage both on and off axis.

- **DMT™ (Directivity Matched Transition):** Ensures smooth, coherent power response across the listening plane.
- **M10 and yoke mount fittings:** Offer flexible deployment options for a variety of applications.
- **Clean industrial design:** Unadorned grilles compliment most decors and settings.
- 16-gauge powder coated steel grilles.
- Complete EASE, CAD, and BIM information available online.

**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 DMT™	90° conical DMT™
Output ¹ (Peak SPL @ 1M)	127 dB	128 dB
Driver Information		
LF	10" driver with 3" VC; 450W / 54V (2 Hrs)	12" driver with 4" VC; 450W / 60V (2 Hrs)
HF	3" voice coil, compression driver; 72W / 24V (2 Hrs)	3" voice coil, compression driver; 72W / 24V (2 Hrs)
Rated Impedance	8 ohms	8 ohms
Input Connectors	Barrier Strip, NL4 connector	Barrier Strip, NL4 connector
Enclosure	15-ply Baltic birch plywood	15-ply Baltic birch plywood
Net Weight	48 lb / 21.7 kg	65 lb / 29.5 kg

¹ 2 hour rating using IEC60268 noise based on minimum impedance

² Mid-band based on nominal impedance



AcousticPerformance™ Series Loudspeakers

Installation Point-and-Shoot



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 DMT™	90° conical DMT™
Output ¹ (Peak SPL @ 1M)	129 dB	128 dB
Driver Information		
LF	15" driver with 4" VC; 525W / 65V (2 Hrs)	12" driver with 102 mm (4") VC; 450W / 60V (2 Hrs)
HF	3" voice coil, compression driver; 72W / 24V (2 Hrs)	3" voice coil, compression driver; 72W / 24V (2 Hrs)
Rated Impedance	8 ohms	8 ohms
Input Connectors	Barrier Strip, NL4 connector	Barrier Strip, NL4 connector
Enclosure	15-ply Baltic birch plywood	15-ply Baltic birch plywood
Net Weight	80 lb / 36.2 kg	63 lb / 28.3 kg



**AP-4122m****AP-212sw**

Frequency Range (-10 dB)	50Hz – 18kHz	35Hz – 250kHz
Power Capacity	400W / 40V continuous	600W / 49V continuous
System Sensitivity	96dB, 1W@1m	93dB, 1W@1m
Coverage Angle	90° conical DMT™	NA
Output ¹ (Peak SPL @ 1M)	128 dB	127 dB
Driver Information		
LF	12" driver with 2.5" VC	2 x 12" driver with weather resistant cone woofer
HF	1" compression driver; with 1.75" VC	
Rated Impedance	4 ohms	4 ohms
Input Connectors	Barrier Strip, NL4 connector	Barrier Strip, NL4 connector
Enclosure	15-ply Baltic birch plywood	15-ply Baltic birch plywood
Net Weight	39.7 lb / 18.1 kg	65.4 lb / 29.7 kg



ILA Series

Installation Line Array



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 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 1.75" 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.



ILA Series

Installation Line Array



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.

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.



K Series Active Loudspeakers

Portable/Production & Installed Sound



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.
- DEEP™ provides extended low-frequency performance.
- Intrinsic Correction™ ensures a flat sonic response.
- Integrated M10 suspension points on full range models.
- Rugged ABS enclosures (full-range models) with professional, discreet appearance.
- Monitor deployment angles on K10 and K12 models.
- On-board mixing of up to three audio sources.

	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.
- Integrated M10 suspension points on full range models.
- DEEP™ provides extended low-frequency performance.
- Intrinsic Correction™ ensures a flat sonic response.
- All birch plywood enclosures.
- On-board mixing of up to three audio sources.

	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 installation line array products. This fixed arcuate, active line array system is ideal for a wide range of permanently installed applications ranging from performance venues to houses of worship or other venues where a line array system is desired.

- 1,000 Watt Class D power module.
- Integrated XLR winput with loop thru.
- 90° x 18° coverage (each enclosure).
- Integrated M10 suspension points.
- 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.

	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

Available K Series Accessories

- K8 Yoke
- K10 Yoke
- K12 Yoke
- M10 Kit-C

Available KW Series Accessories

- M10 Kit-W
- KW Suspension Kit 122

Available KLA Series Accessories

- KLA AF12 Array Frame
- M10 Kit-C



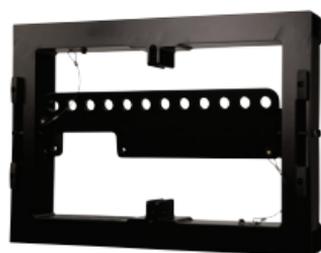
Yoke Mount



Yoke Mount



M10 Kit-C



AF12 Array Frame



KLA AF12 Array Frame

DIGITAL MIXERS

QSC TouchMix-16



TouchMix™ Series

Compact Digital Mixer



TouchMix-16

The TouchMix™ Series stands as the perfect compliment to any installation that might have live performance needs. It offers the power and capability of a large format console in a small, rack-mountable, fully integrated, affordable and easy-to-use product.

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. 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.



TouchMix-16



TouchMix-8

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.



Available rackmount accessory

TouchMix™ Series

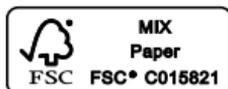
Compact Digital Mixer

	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)	



	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	





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