New Edition 08/09 Full Line Catalog

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1968-2008
QSC
Passionate About Sound

QSC™

Passionate About Sound

Infinite Solutions From One Source

What place do passion, art and dedication to quality have in business? For QSC it is right at the core of our existence, our reason for being. Today we have a large team of talented engineers working together to create the best systems available. They've been given state of the art facilities and the support to develop the best products available. Take a look inside to get a glimpse of the resulting passion, art and craftsmanship embodied in the new products we are releasing this year. All of them will make your job easier and enhance the performance of anyone using them.

Although famous as the world's largest professional amplifier producer, QSC is a dedicated systems developer and the fastest growing major speaker manufacturer. As a side note – speaker sales more than doubled again this year making QSC a larger speaker company than a number of the well established brands. Our speaker products can now be found on tour with national acts, in large and small installs and in cinemas and clubs. The vast majority are sold as entire systems – QSC signal processing, amplification and speakers – all designed and supported as one single brand system. Our rapid success comes from the people here. QSC is unique in the industry. Our large development team is staffed with many talented people across all the disciplines. Many of these people have redefined the industry. They are driven by passion, art and dedication to quality. We're fortunate to have so much talent under one roof.

In this catalog you will see our latest line of power amplifiers, the new PowerLight 3 Series which includes the range topping PL380. This lightweight 8000 watt powerhouse is redefining performance, value and reliability in the mega amp category. On the digital side we've released QSControl.net Version 3 with a host of new features, including the companion NAC-100 Network Audio Controller. For non-network systems the SC28 speaker processor delivers exceptional audio performance through highly developed tunings for QSC's line arrays. Speaking of line arrays, we've just added the WideLine-8. This ultra-compact high performance line array should redefine size and performance just as our WideLine-10 did a few years ago. The AcousticDesign line of small format installation speakers gets three new models while the successful HPR line gets an upgrade and the market redefining HPR122i. Compare this high-performance powered twelve-inch 2-way to any powered speaker on the market regardless of price. It easily outperforms the long established quality leaders. Customers know value when they see it, and as a result the HPR122i has quickly become an industry hit, and the new GX amplifiers have received an equally enthusiastic reception.

In closing, I would like to thank you for your support over the years. Without it we wouldn't have been able to create these products or provide the level of support for which we're famous. Being able to pursue our passions and commitment to quality to help further the art of music is a wonderful experience for us all. We'll continue to work hard to earn your business.

Best Regards,

Barry Andrews
CO-CEO

The Art of Audio

Experience, innovation, and systems design — QSC is leading the most talented team in history towards one shining goal: to be the most trusted provider of advanced audio systems on the planet. Our founder, Pat Quilter, has spent four decades designing the world's most trusted amplifiers. Many others have added their parts to the mix — an incredibly responsive production system, unmatched customer relationships, and in the last decade, world-class digital and loudspeaker products. This catalog presents the latest results of this program. But all of these products and services are aimed at only one mission — to enhance the lives of our customers and their audiences by supporting the art of audio in every possible way.

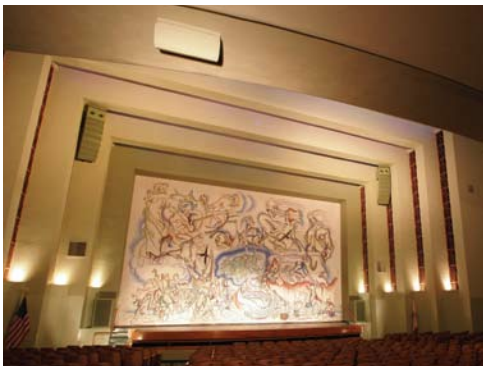
1

Better Sound in any Environment

Restaurants, nightclubs, theatres, and houses of worship. Health clubs, convention facilities, concerts, racetracks, and touring sound. An incredible variety of needs, but all with one common goal – great sound, all the time. With the introduction of many new products, QSC further broadens its range of solutions to bring premium sound to any venue, any place, indoors or out.

What is it that sets a QSC system apart? "No excuses." An audience expects a performance. It's our job to deliver. It's a mutual effort that requires testing, training, and experience. Our part as a manufacturer is to make your job easier. Our opportunity is to provide thoughtful, fully debugged system solutions that really work.

Easy to install, intuitive to use, and backed by 24/7 support, QSC systems build on the past to help you take your next big step into the future.



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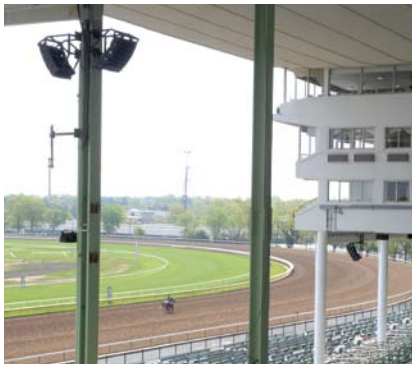

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1. Tatiana Restaurant and Nightclub, Hallandale Beach, Florida. **2.** Barnum Hall Theatre at Santa Monica High School, Santa Monica, California. **3.** Monmouth Park Racetrack, Oceanport, New Jersey. **4.** Dinitz Café, Prague, Czech Republic. **5.** Big Valley Grace Community Church, Modesto, California. **6.** Calgary Stampede, Calgary, Alberta, Canada. **7.** Hatfield Swim Centre, London, United Kingdom. **8.** Cividale del Friuli's MittelFest at the Tarpezzo stone quarry, San Pietro al Natisone, Italy. **9.** Koko Booth Amphitheater, Raleigh, North Carolina.

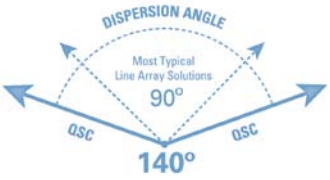
System Case Study: Monmouth Park Racetrack

QSC networked audio answers the call of fast times on the Jersey Shore.

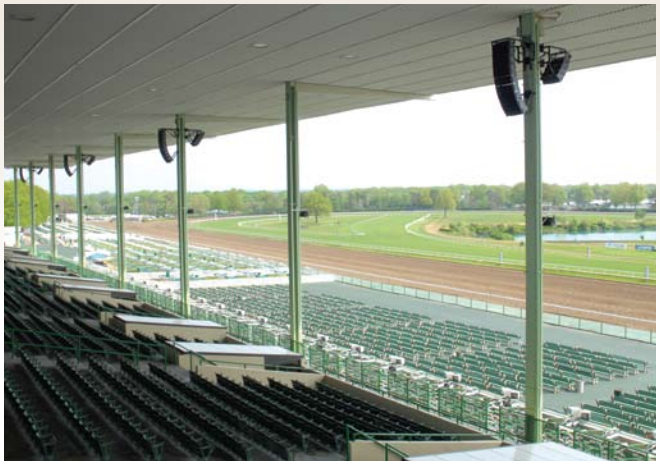
Each new season at Monmouth Park celebrates the rich history of thoroughbred racing with afternoons of fast-paced competition. As the 2007 host of the Breeders' Cup World Championships, the Jersey Shore's venerable track decided the time was right to upgrade its audio. Winning the bid to bring new sound to virtually every corner of the resort-like facility was SPL Integrated Solutions. Drawing upon QSC as a main resource, SPL developed a networked sound reinforcement blueprint serving Monmouth Park's 100-foot-wide, one-mile oval track and sweeping grandstands using Installation Line Array (ILA) loudspeakers, BASIS™ and RAVE processing, and CX Series amplification.

Wide Coverage, Unobtrusive Design

Distributed in clusters deployed upon steel columns supporting the grandstand roof, a total of 66 full-range, WL2082-i ILA cabinets occupy central positions within the system. Supported by 20 model AD-S282H loudspeakers from the AcousticDesign™ Series serving as downfills for areas directly beneath the arrays, the weather-resistant ILA line arrays were chosen for the task based upon their wide 140-degree dispersion, premium sonic quality, and the minimal footprint they leave within the environment.



"First and foremost, bringing sound reinforcement to this track was a matter of coverage," notes SPL Northeast Operations Manager Pat Corcoran. "It's a very big outdoor space, and the grandstands seem to go on forever. Sure, we could have done it with something else, but we would've needed a lot more devices, and that translates into more costs and labor. The ILA loudspeakers had the coverage and sonic quality we needed right out of the box, plus the



horsepower to rise above whatever amount of crowd noise comes our way, which is considerable when the racing action really heats up."

Sightlines were an issue at the park too, and on this count, the ILA arrays were winners across the board, taking up little more space than the width of the steel columns supporting them. Mounted high just about at the juncture of the columns and grandstand roof, the enclosures didn't impede the view from any seat.

Hearing is Believing

"When we initially saw the physical size of the ILA enclosures, we knew they were perfect for this application," recalls SPL's Shawn McAdams, who served on the project engineering team. "Seeing something is only one component of believing in this business, however, so that's why we were equally pleased when these boxes performed just like the factory said they would, and everyone heard the results. Combine the performance attributes of this system with the fact that we were effectively able to utilize QSC as a one-stop source for virtually every component needed from head-end amplification, processing, and digital signal transport on out to the loudspeakers, and the value of our choices becomes even greater. Everything here works together. Using QSC's DataPort connections linking the BASIS processors with the CX Series amps, there's no need for line-level cabling at all, and we can monitor the functions of the system at any time."

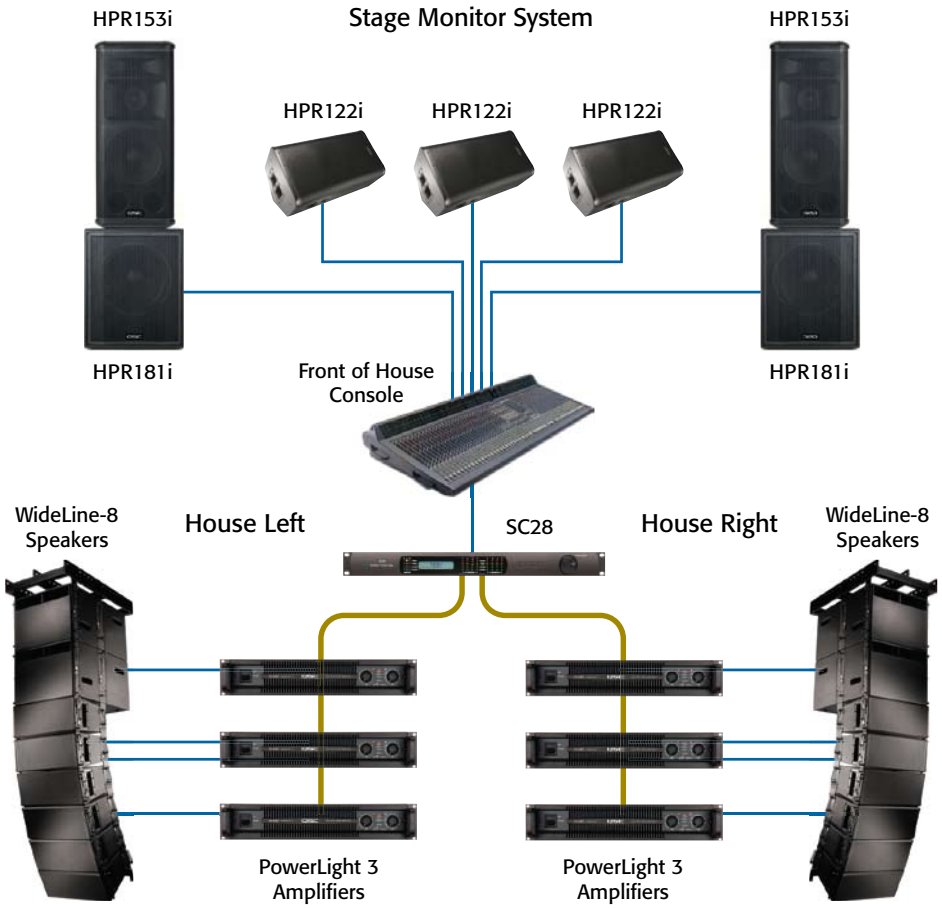
Working within the proprietary QSControl.net™ audio platform that seamlessly integrates Monmouth Park's amplifier and loudspeaker management, configurable DSP, and digital audio transport, QSC's Venue Manager software serves as the guiding hand of the system. Offering, among other things, graphic EQs, a variety of filtering, crossover functions and matrix mixing. Venue Manager was used at Monmouth Park to oversee the activities of a group of BASIS 914lz, BASIS 922uz, and RAVE 522ua processors.

Quality Shines Through

SPL was awarded the Monmouth Park bid in September of 2006, and the system was tuned with QSC's help on-site and completed by May 1, 2007, well in time for the first races later that month.

"Everyone is very happy with the outcome of this project, and so are we," Pat Corcoran is pleased to report. "At SPL we have a real passion for going the extra mile and making things just right. QSC shares this same vision in the quality of the components they build and the service and support they provide."

QSC Live Sound Solution

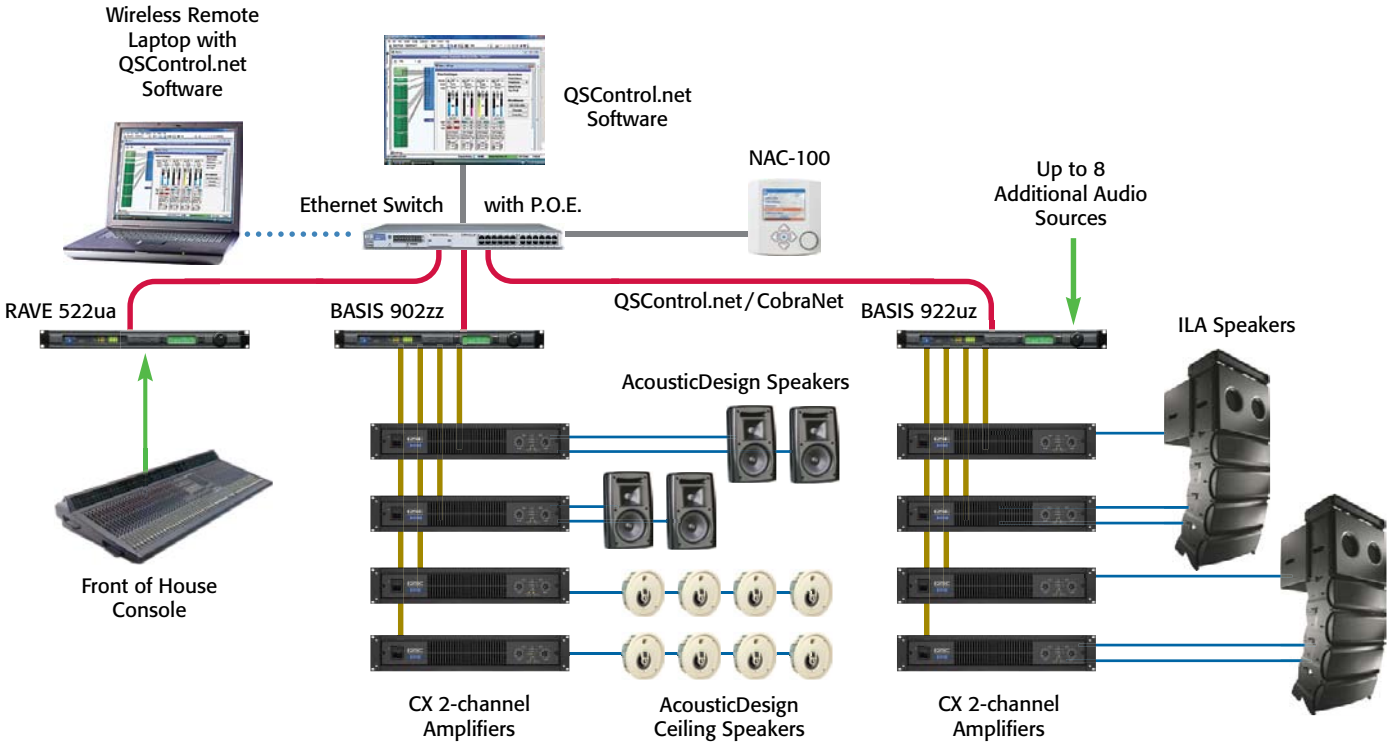


Whether your application is live performance, paging and background music, or some combination of these, QSC has a complete "B-chain" solution.

Pictured above is a live sound reinforcement system combining simplicity and high-performance. On the front-of-house side, the QSC SC28 processor with its FIR filters offers selectable, preset loudspeaker tunings incorporating QSC Intrinsic Correction™. The WideLine-8 arrays are amply powered by PowerLight™ 3 "ultimate analog" amplifiers.

Stage monitoring is handled by an assortment of powered HPR Series loudspeakers including the multi-purpose HPR122i. While priced for the working entertainer, HPR loudspeakers are making lots of friends in installation and touring applications.

QSC Distributed System Solution



In facilities ranging from hospitality to houses of worship to themed attractions, QSControl.net™ version 3 is capable of managing an entire venue's digital audio routing and processing requirements. The new NAC-100 wall controller may be programmed to perform a broad range of simple or complex system control tasks.

A growing selection of AcousticDesign™ ceiling and surface mount loudspeakers powered by the respected CX series amplifiers give system designers and installers the reliability and accurate reproduction they're looking for.

Reinforcement for live entertainment is handled by PowerLight 3 amplifiers driving the ILA Installation Line Array, a system which has set a new value standard for concert sound quality at an affordable price.

Product Index

GX Series NEW!

Entertainers | Musicians | DJs

GX5

The GX Series amplifiers offer maximum performance, portability and reliability on a limited budget, perfectly suited for use by entertainers, musicians and DJs. The two GX Series amplifiers are uniquely designed to supply optimal power to the sound reinforcement loudspeakers most often used by entertainment professionals. The GX3 is ideal for speakers in the 300 watt (Program) range, while the GX5 provides full performance for 500 watt (Program) speakers. Both models supply maximum possible power to 4 ohm and 8 ohm loads.

The use of subwoofers is supported with a crossover switch and front panel gain controls that allow easy access for balancing the sub with the full-range cabinet. GuardRail™ optimizes peak power to the two channels individually and its protection keeps the system working during demanding sets. With dramatic styling, easy hookup, flawless operation and protective circuitry, professional entertainers now have an amplifier that is designed for their specific application.

NEW	GX Series	Watts per channel	
	Model	8 Ω	4 Ω
	GX3	300	425
	GX5	500	700

Both channels driven.
1 kHz, onset of clipping.

RoHS

- Power levels matched to the most popular speakers used by entertainers.
- Optimized for maximum real-world headroom into 4 ohm and 8 ohm speaker systems.
- Inputs: XLR, 1/4" TRS and phono input connectors for compatibility with any source.
- Outputs: Speakon® combo accepts, 1/4" (TS) plugs or Speakon 2-pole and 4-pole plugs (connects 2 poles only). Binding posts support all other speaker wiring systems.
- Minimum depth chassis (10.1"/257 mm) fits in compact, inexpensive effects racks.
- Lightweight – less than 26 lb (12.5 kg).
- Detented gain controls for precise setting and matching of sensitivity.
- GuardRail™ automatically protects the amplifier and loudspeakers from damage due to temperature rise or overdrive without shutting down the show.
- Front panel LEDs monitor Power, Signal and Clipping.
- Subwoofer/Satellite crossover built-in.

RMX Series

Entertainers | Musicians | DJs
Concert Systems

RMX 2RU Models

The RMX Series is a proven line of amplifiers combining legendary QSC reliability, audio performance and affordability. Entertainers and touring users have made RMX one of the leading amplifier series in the world. For mid-power applications, the 2RU models offer 4 ohm power ratings from 300 to 750 watts per channel. For premium loudspeaker systems with extremely high power capacity the 3RU models (RMX4050HD and RMX5050) are unchallenged.

- Independent, defeatable clip limiters reduce distortion and protect speakers.
- Selectable low-frequency filters (30 or 50 Hz) protect speakers and increase headroom.
- High-current toroidal transformers yield higher power and less noise for 2 ohm operation.
- Front panel LED status indicators enable system monitoring and troubleshooting.
- Extensive protection circuitry and thermal protection ensure long-term reliability.
- Connectors: Input – XLR and 1/4" TRS.
  Outputs – Speakon®, binding post.

RMX 3RU Models

RMX Series	Watts per channel			
		Stereo		Bridged
Model	8 Ω	4 Ω	2 Ω*	4 Ω*
RMX850	200	300	430	830
RMX1450	280	450	700	1400
RMX1850HD	360	600	900	1800
RMX2450	500	750	1200	2400
RMX4050HD	850	1400	2000	4000
RMX5050	1100	1800	2500	5000

*1 kHz, 0.1% THD *1 kHz, 1% THD*

RoHS

PLX2 Series

Entertainers | Musicians | DJs
Concert Systems

PLX2 "02" Models

The PLX2 Series are powerful, lightweight amplifiers designed to meet the rigorous demands of live musicians, mobile entertainers, and portable PAs. Featuring third generation ***PowerLight***™ technology, the PLX2 Series delivers superb overall audio quality with especially powerful low frequency performance. The PLX2 series amps have a professional, attractive appearance, with a die-cast aluminum front panel acting as an integral I-beam, to create an extremely rugged, road-worthy device.

PLX2 consists of two series. The "02" models (1802, 2502, 3102, 3602) can drive 2 ohm loads and include subwoofer filtering and other signal processing amenities. For applications that do not require bridging, 2 ohm operation, or internal subwoofer signal processing, the "04" models (1104, 1804) deliver the same audio performance as the "02" models in a lighter-weight, more cost-effective unit.

- Front panel LED status indicators enable system monitoring and troubleshooting.
- Front panel gain controls (1 dB detents) allow precise input sensitivity adjustment.
- Speakon® NL-4 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.
- Balanced XLR and TRS parallel inputs accommodate the most commonly used input connectors for live sound and support loop-through routing.
- *Active Inrush Limiting* prevents AC mains circuit breakers from popping during turn-on.

PLX2 "04" Models

The "04" models (PLX1104 & PLX1804) offer advanced PLX2 technology with less weight, less chassis depth and even greater value for users who don't require 2 ohm or bridged operation.

PLX2 Series	Watts per channel			
	Stereo			Bridged
Model	8 Ω*	4 Ω*	2 Ω**	4 Ω**
PLX1104	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*

RoHS

CX Series

Installed Sound

CX 2-channel Models

CX 4-channel Models

CX 8-channel Models

The CX Series is a range of two, four and eight channel amplifiers designed for installations requiring premium sound quality and high output power. Recognized by sound contractors worldwide as the standard for reliability, the 2RU CX series features ***PowerLight***™ power supply technology which reduces weight while also improving audio quality and eliminating AC mains hum.

- *Active Inrush Limiting* brings the amplifiers on line gently, eliminating the need for costly AC power sequencers.
- Front-panel gain controls with1 dB detents allow precise level adjustment and are protected by tamper-proof security covers.
- DataPort connects directly to QSC accessories and digital signal processors for extensive remote control and monitoring of amplifier functions via QSControl.net™.
- Selectable clip limiters and infra-sonic filters protect loudspeakers from damage due to distortion and overexcursion.
- Transformerless 70 V and low-impedance models are available.
- Connectors: Input – XLR/F and 3-pin Euro-style. Output – barrier strip.

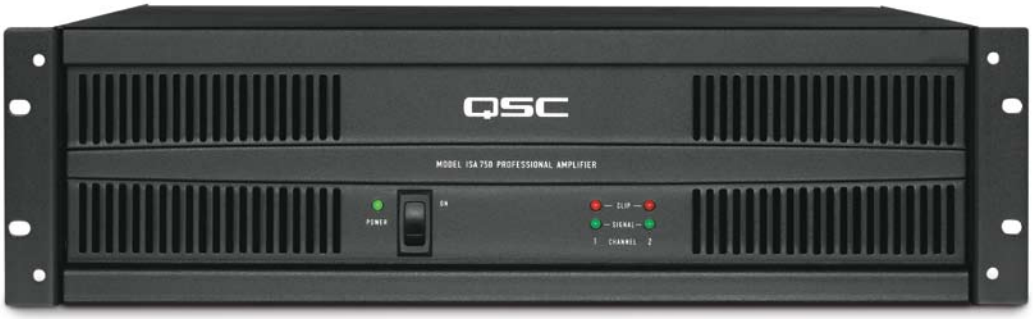
CX Series		Watts per channel		
2-Ch Models	70 V*	8 Ω	4 Ω	2 Ω**
CX302V	250	–	–	–
CX602V	440	550	–	–
CX1202V	1000	700	1100	–
CX302	–	200	325	600
CX502	–	300	500	800
CX702	–	425	700	1200
CX902	–	550	900	1500
CX1102	–	700	1100	1700
4-Ch Models	70 V*	8 Ω	4 Ω	2 Ω**
CX204V	220	–	–	–
CX254	–	170	250	450
CX404	–	250	400†	–
8-Ch Models	70 V††	8 Ω	4 Ω§	
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% THD

RoHS

ISA Series

Installed Sound



ISA amplifiers are ideal for installations where the budget is tight but reliability and sonic performance can't be compromised. The 3RU ISA Series offers models capable of driving 2 ohm loads and models with selectable 25, 70 and 100 volt outputs. "Ti" versions will drive a distributed and a 4 or 8 ohm system simultaneously from the same channel.

- Rear-mounted gain controls with 2 dB detents provide repeatable settings.
- 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.
- DataPort V2 is included for connection of DPV2-compatible signal processing accessories. (Not compatible with BASIS™ products.)
- Connectors: Input – XLR/F and 3-pin Euro-style. Output – barrier strip.

	ISA Series	Watts per channel			
	Model	70 V*	8 Ω**	4 Ω**	2 Ω†
	ISA280	–	185	280	430
THX	ISA450	–	260	425	700
THX	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

RoHS

PowerLight™ 3 Series

Concert Systems, Installed Sound

PL380

The PowerLight 3 Series are Pat Quilter's "Ultimate Analog" amplifiers, designed for the most demanding concert and live-sound reinforcement applications. All three models use our latest generation ***PowerLight***™ technology – the world's most efficient power supply. The 8000 watt Class D PL380 shares a clean, efficient control, connector and indicator layout with the Class H PL340 (4000 watts) and PL325 (2500 watts). All PowerLight 3 Series amplifiers have zero signal latency, for seamless integration with existing equipment and flawless loudspeaker alignment. The flexible 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.

The PL380 converts up to 85% of AC input power into speaker- and air-moving output: about twice the efficiency of typical switching amplifiers. The advanced design even recycles "back EMF" energy from the loudspeakers. Rigorous testing and precise alignment of feedback networks produce stable, accurate, linear response, on the bench or when driving loudspeakers.

PL3 Series	Watts per channel		
Model	**8 Ω**	**4 Ω**	**2 Ω**
PL325	500	850	1250
PL340	800	1250	2000
PL380	1500	2500	4000*

EIA 1 kHz, 1% THD
**Burst mode testing required due to AC service current limitations*

RoHS

PL325 & PL340

To prevent unauthorized adjustment of input attenuation settings, a security lockout plate is included with every PowerLight 3 amplifier.

PL380 output device (left) compared with typical output devices.

- A three-position Input Sensitivity switch makes it easy to integrate PowerLight 3 Series amplifiers into existing amp racks and power systems.
- Zero signal latency processing is standard on all PowerLight 3 amplifiers, with either the DSP-4 rear panel module or QSControl.net™ BASIS™ units. SC28 or other loudspeaker management processors can also be used.
- XLR, Euroblock and DataPort connectors simplify signal connections, allowing multiple options for loop-through wiring.
- Comprehensive internal protection is designed to protect amplifiers and speakers against over-current, excessive AC voltage, over-temperature and clipping – all without compromising the integrity of normal program signals.

XC-3 Two-way Crossover

The XC-3 is an active, two-way crossover module that mounts to the rear panel DataPort of two-channel QSC amps (DCA, PL2, PL3, CX, ISA).

The XC-3 features 4th order Linkwitz-Riley filters (24 dB/octave) with the low frequencies routed to amp channel 1 and the highs to channel 2. Each channel has an all-pass filter delay for time alignment of low- and high-frequency drivers, and a trim control (0-20 dB attenuation) to balance the frequency bands. The high-frequency channel offers up to 10 dB of boost at 20 kHz to compensate for cinema screen loss or to properly equalize constant-directivity horns. A three-way crossover can be implemented using the XC-3's low-frequency high-pass filter with the LF-3.

SF-3 Subwoofer Filter

The SF-3 subwoofer filter provides subwoofer signal processing without the need for a conventional crossover. The unit mounts to the rear panel DataPort of two-channel QSC amps (DCA, PL2, PL3, CX, ISA) to conserve cost and rack space. A 4th order Linkwitz-Riley low-pass filter may be set to 80, 150 or 250 Hz. The subsonic filter offers roll-off frequencies in the range 20-50 Hz to prevent driver overexcursion. An optional EQ is provided to extend the response of B6 speaker enclosures and is especially useful for cinema applications including the QSC SB-5218 and SB-7218 subwoofers. A trim control (0-20 dB of attenuation) allows balancing the various frequency bands.

DataPort

The QSC DataPort provides a simple, convenient means of connecting and powering digital and analog accessory devices to expand the capabilities of QSC CX, DCA, PowerLight, PowerLight 2 and PowerLight™ 3 amplifiers. Devices supported include the DSP-3, DSP-4, XC-3, LF-3 and SF-3. Note that ISA models require an external power adapter for the DSP devices, and PL380 for the DSP-3 device.

In addition, the DataPort HD15 connector provides a single-cable interface to BASIS™ processors and QSControl.net™. QSControl.net allows remote amplifier monitoring and control via Ethernet. This functionality is supported by CX, DCA, PowerLight, PowerLight 2 and PowerLight 3 amplifiers.

Please see the specifications for the specific accessory devices and amplifiers before planning a system.

LF-3 Low-Frequency Filter

The LF-3 low-frequency filter, when used with the XC-3 two-way crossover, provides a three-way active crossover system. The LF-3 mounts to the rear panel of two-channel QSC amps (DCA, PL2, PL3, CX, ISA) to conserve cost and rack space. The LF-3 is comprised of two discrete channels with 4th order Linkwitz-Riley low-pass filters (24 dB/octave slope). Each channel has a delay to time-align low-, mid-, and high-frequency speakers, and a trim control (0-20 dB of attenuation) to match levels. One amp-mounted LF-3 supports up to two other amps (even in stereo) with XC-3 accessories installed.

OT-300a Output Autoformer

The OT-300a is a robust step-up autoformer accessory that adapts power amplifier outputs (maximum voltage range 17-35 V) to drive a 70 V distributed line with up to 300 W. Four voltage taps can be selected to match the output voltage of your amplifier. Conversely, the OT-300a can be used as a high-power speaker transformer, driving speakers with up to 300 W from a 70 volt distributed line. The OT-300a is compatible with any amplifier rated at up to 350 W at 4 ohms.

OT-600 Output Autoformer

The OT-600 is a robust step-up autoformer accessory that adapts power amplifier outputs (maximum voltage range 40-50 V) to drive a 70 V distributed line with up to 600 W. Three voltage taps can be selected to match the output voltage of your amp. The OT-600 can also drive a 100 V line when used with an amp with a maximum output voltage in the range 55-70 V. Conversely, the OT-600 can be used as a high-power speaker transformer, driving speakers with up to 600 W from a 70 V distributed line. The OT-600 is compatible with amps rated between 350 and 650 W at 4 ohms.

IT-42 Output Isolation Transformer

The 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. The IT-42 is pre wired for quick and convenient mounting to the back of the CX302 amplifier and requires no additional rack space.

All the accessories listed are RoHS compliant. RoHS

Amplifier Overview

		Watts per channel						
GX SERIES	Channels	70 V	8 Ω	4 Ω	2 Ω	Bridged	RU	Net Weight / Shipping
GX3	2	–	300	425	–	–	2	25 lb (11.5 kg) / 30 lb (13.5 kg)
GX5	2	–	500	700	–	–	2	26 lb (12 kg) / 31 lb (14 kg)
RMX SERIES								
RMX850	2	–	200	300	430	830	2	35 lb (15.9 kg) / 41 lb (18.6 kg)
RMX1450	2	–	280	450	700	1400	2	40 lb (18.2 kg) / 46 lb (20.9 kg)
RMX1850HD	2	–	360	600	900	1800	2	44.5 lb (20.2 kg) / 50.5 lb (23 kg)
RMX2450	2	–	500	750	1200	2400	2	44.5 lb (20.2 kg) / 50.5 lb (23 kg)
RMX4050HD	2	–	850	1400	2000	4000	3	68 lb (30.8 kg) / 77 lb (34.9 kg)
RMX5050	2	–	1100	1800	2500	5000	3	75 lb (33.1 kg) / 87 lb (37.2 kg)
PLX2 SERIES								
PLX1104	2	–	325	550	–	–	2	13 lb (5.9 kg) / 18 lb (8.2 kg)
PLX1804	2	–	600	900	–	–	2	13 lb (5.9 kg) / 18 lb (8.2 kg)
PLX1802	2	–	330	575	900	1800	2	21 lb (9.5 kg) / 26 lb (11.8 kg)
PLX2502	2	–	450	750	1250	2500	2	21 lb (9.5 kg) / 26 lb (11.8 kg)
PLX3102	2	–	600	1000	1550	3100	2	21 lb (9.5 kg) / 26 lb (11.8 kg)
PLX3602	2	–	775	1250	1800	3600	2	21 lb (9.5 kg) / 26 lb (11.8 kg)

		Watts per channel						
CX SERIES	Channels	70 V	8 Ω	4 Ω	2 Ω	Bridged	RU	Net Weight / Shipping
CX302	2	–	200	325	600	1200	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX502	2	–	300	500	800	1600	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX702	2	–	425	700	1200	2400	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX902	2	–	550	900	1500	3000	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX1102	2	–	700	1100	1700	3400	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX302V	2	250	–	–	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX602V	2	440	550	–	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX1202V	2	1000	700	1100	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX254	4	–	170	250	450	900	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX404	4	–	250	400	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX204V	4	200	–	–	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX168	8	–	90	130	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
CX108V	8	100	–	–	–	–	2	21 lb (9.5 kg) / 27 lb (12.3 kg)
ISA SERIES								
ISA280	2	–	185	280	430	830	3	36 lb (16.3 kg) / 42 lb (19.1 kg)
ISA450	2	–	260	425	700	1400	3	42 lb (19 kg) / 48 lb (22.0 kg)
ISA750	2	–	450	650	1200	2400	3	47 lb (21.3 kg) / 53 lb (24.0 kg)
ISA1350	2	–	800	1300	2000	4000	3	68 lb (30.8 kg) / 77 lb (34.4 kg)
ISA300Ti	2	300	185	280	430	830	3	44 lb (20.0 kg) / 50 lb (22.7 kg)
ISA500Ti	2	500	260	425	700	1400	3	49 lb (22.3 kg) / 55 lb (25 kg)
ISA800Ti	2	800	450	650	1200	2400	3	57 lb (26 kg) / 63 lb (28.6 kg)
PL3 SERIES								
PL325	2	–	500	850	1250	2500	2	22 lb (10 kg) / 31.5 lb (14.3 kg)
PL340	2	–	800	1250	2000	4000	2	22 lb (10 kg) / 31.5 lb (14.3 kg)
PL380	2	–	1500	2500	4000	8000	2	24 lb (11 kg) / 33.5 lb (15.2 kg)

QSControl.net™ Version 3
BASIS™ | RAVE | DSP

Networked control, transport, processing and monitoring — from source to loudspeaker

QSControl.net is a versatile foundation for all-encompassing networked audio systems that extend from microphone and other inputs to loudspeakers and similar outputs. QSC designed this proprietary technology expressly for system integrators, contractors, consultants and audio engineers who need to integrate signal processing, amplifier management and audio transport functions with QSC power amplifiers and loudspeakers.

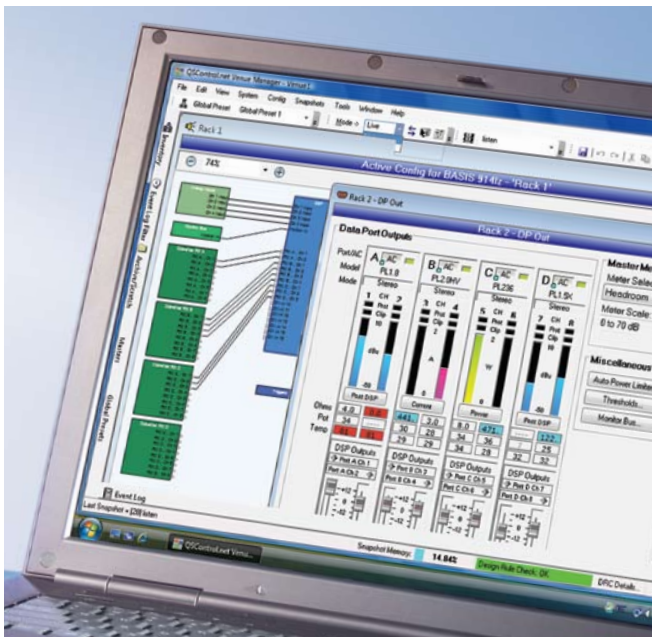
The powerful BASIS hardware platform integrates control, monitoring, protection and processing of amplifiers and loudspeakers with configurable DSP and CobraNet™ digital audio transport via Ethernet: BASIS products are the core of the ever-expanding range of QSControl.net enabled products. QSC's RAVE units, which combine DSP functions with CobraNet digital audio transport, and the DSP 322ua dedicated signal processor are also integral to QSControl.net systems. BASIS, RAVE and DSP units are all programmed and controlled via QSC's Venue Manager software.

Far more than digital signal transport and processing, QSControl.net integrates the entire audio system – CX, PL2, PL3 and DCA series amplifiers as well as a growing range of loudspeaker systems including AcousticDesign™, WideLine™, ILA, ModularDesign™ and DCS products. Ideally suited for applications both large and small, the power of QSControl.net is the logical choice anywhere a need exists for a complete system-wide audio solution – stadiums, arenas, theatres, nightclubs, restaurants, hotels, houses of worship, corporate campuses, educational facilities and more.

Integrated Technologies

QSControl.net combines the three distinct QSC technologies of configurable DSP, amplifier/loudspeaker control and monitoring, and CobraNet audio transport into a single unified system. As noted earlier, various QSControl.net hardware devices (BASIS, RAVE and the DSP 322ua) include functionally appropriate elements of all these technologies.

All of the technologies and devices found within the QSControl.net platform can be programmed and controlled from a single networked computer, from multiple networked computers simultaneously. Armed with wireless laptops, multiple operators can even make adjustments to different parts of a QSControl.net system concurrently and in real-time. The new NAC-100 wall controller gives customers quick and easy access to pre-defined functions and configurations.



Powerful, Programmable Processing

The QSControl.net platform provides an extensive set of processing functions, including:

Matrix Mixers

- Up to 24 Inputs and Outputs

Gain Sharing Automixing

- Facilitates any number of inputs up to 22
- Direct outputs available for every input
- A unique Program Reference Input automatically attenuates the selected input whenever program material is sensed.

  This latter feature is especially useful for applications using several microphones, an automixer and multiple sources of program material (e.g., CD, DVD, etc.). With the Program Reference Input, the volume of the microphones can be automatically attenuated to keep the other sources from bleeding into the system.

Routers

- Can accommodate any combination of inputs and outputs up to 24 x 24

Gain Controls

- Can accommodate any channel count up to 24

Graphic Equalizers

- Two Octave ISO
- One Octave ISO
- Two-Third ISO
- One-Third ISO
- Custom (choose number of bands, start frequency and end frequency)

Pink Noise, White Noise, Sine Generators

Crossovers

- Linkwitz-Riley
- Butterworth
- Bessel-Thomson in-phase
- Bessel-Thomson symmetrical
- 2-way, 3-way and 4-way general purpose adjustable

Dynamics

- Compressor
- Peak limiter
- Dynamics processor
- Noise gate
- Automatic Gain Control — automatically boosts below-threshold signal levels up to a user-defined target output level and reduces above-threshold signal levels down to a user-defined target output level. Music, speech and custom operating modes.

Duckers

- Up to eight channels of audio can be "ducked" simultaneously. Fade-in and fade-out times can be up to 60 seconds each. The priority channel can also be part of the ducker's output mix.

Filters

- High-pass, low-pass, all-pass, shelf, parametric, parametric shelf, Butterworth high and low-pass, Bessel-Thomson high and low-pass.

Delays

- Up to 910 milliseconds
- Units measured in time, meters, feet

Macros

- User-definable custom blocks with password protection

CM16a

Network amplifier control and monitoring

The CM16a Amplifier Network Monitor provides sixteen channels of audio level control, monitoring, and amplifier management for DataPort-equipped QSC amplifiers. Control and monitor data is communicated between the System Controller computer and CM16a over an Ethernet network. The CM16a, located in the amplifier rack, is linked to amplifiers via DataPort cables.

CM16a devices can be controlled and monitored using Venue Manager software. Some features of Venue Manager may not be applicable to the CM16a, such as QSCreator screens, global presets and masters. While the CM16a is not as feature-rich as the BASIS, RAVE and DSP products listed in the chart, it does have a viable use in systems which already have pre-processed audio.

Model	Inputs Analog	Inputs Digital	Inputs CobraNet	Outputs Analog	Outputs DataPort	Outputs CobraNet	Monitor I/O
BASIS 722az	8 line level	-	-	-	4 (8 channels)	-	YES
BASIS 902zz	-	-	24 of 32	-	4 (8 channels)	32	YES
BASIS 904zz	-	-	24 of 32	-	8 (16 channels)	32	YES
BASIS 914lz	4 XLR line level	-	16 of 32	-	8 (16 channels)	32	-
BASIS 922az	8 line level		16 of 32	-	4 (8 channels)	32	YES
BASIS 922dz	-	25 pin AES/EBU (8 channels)	16 of 32	-	4 (8 channels)	32	YES
BASIS 922uz	8 universal mic/line	-	16 of 32	-	4 (8 channels)	32	YES
DSP 322ua	8 universal mic/line	-	-	8 line level	-	-	-
RAVE 520uz	8 universal mic/line	-	16 of 32	-	-	32	-
RAVE 522aa	8 line level	-	16 of 32	8 line level	-	32	-
RAVE 522ua	8 universal mic/line	-	16 of 32	8 line level	-	32	-

THX

QSControl.net™ Version 3 continued

Customized System Management: Venue-Wide Design Mode, Auto Discovery of Devices, Global Presets

Venue Manager System-Wide Design Software

Venue Manager is QSControl.net drag-and-drop software. Providing access to real-time parameters for every device on the network, Venue Manager gives users the ability to monitor and build a log of system events, thereby making it easier to identify potential problems and stop them before they occur.

Extensive system-wide features found within Venue Manager include:

Comprehensive Venue-Wide Design Functions

- Design and view an entire system offline without the need for hardware
- Load your entire system design into all of the online devices with a single mouse command
- Two modes: Design and Live (both look and feel identical)
  - Easily switch back and forth between the modes as often as you like
  - Update either mode with new settings via a single mouse click

Auto-Discovery of Devices on the Network

- All of the devices on a network can be discovered with a single mouse click instead of entering each IP address manually

Masters

- Master Controls for the entire venue
- A single Master can access any number of similar slaves, from any number of devices

Global Presets

- A Global Preset is a collection of Configs, Snapshots, and Master Levels that can be recalled simultaneously across all devices
- Reconfigure an entire system with the click of a mouse
- Can include any number of parameters in the system (from one to all)
- Recall Global Presets from remote contact closures or logic signals
- Recall from front panel of BASIS™

Archives

- Configurations that are saved to the Archives can be accessed from any venue

QSCreator Custom Control Panels

QSCreator is hosted inside our Venue Manager system set up software to facilitate custom control panel creations. Control panels with a custom look and feel are designed by selecting from an extensive library of faders, knobs, buttons, meters, indicators and graphic tools. Once a control screen design has been developed, QSCreator can be established as the only software required for system operations. This prevents accidental adjustments or unauthorized tampering while keeping the control template as easy-to-use as possible.

QSControl.net™
Network Audio Controller

Introducing the QSControl.net NAC-100 Network Audio Controller

This fully networked wall controller adds a new dimension of versatility to QSControl.net systems. Its compact, unobtrusive design blends well with virtually any décor – convention facilities, retail environments, houses of worship and a multitude of other applications. The QSControl.net NAC-100 can be quickly and easily programmed to build an interface that customers will understand and appreciate.

The NAC-100 wall controller offers a simple, secure, cost-effective alternative to network PC control. Multiple wall controllers can be deployed in any project and used simultaneously to manage different aspects of your system.

Features

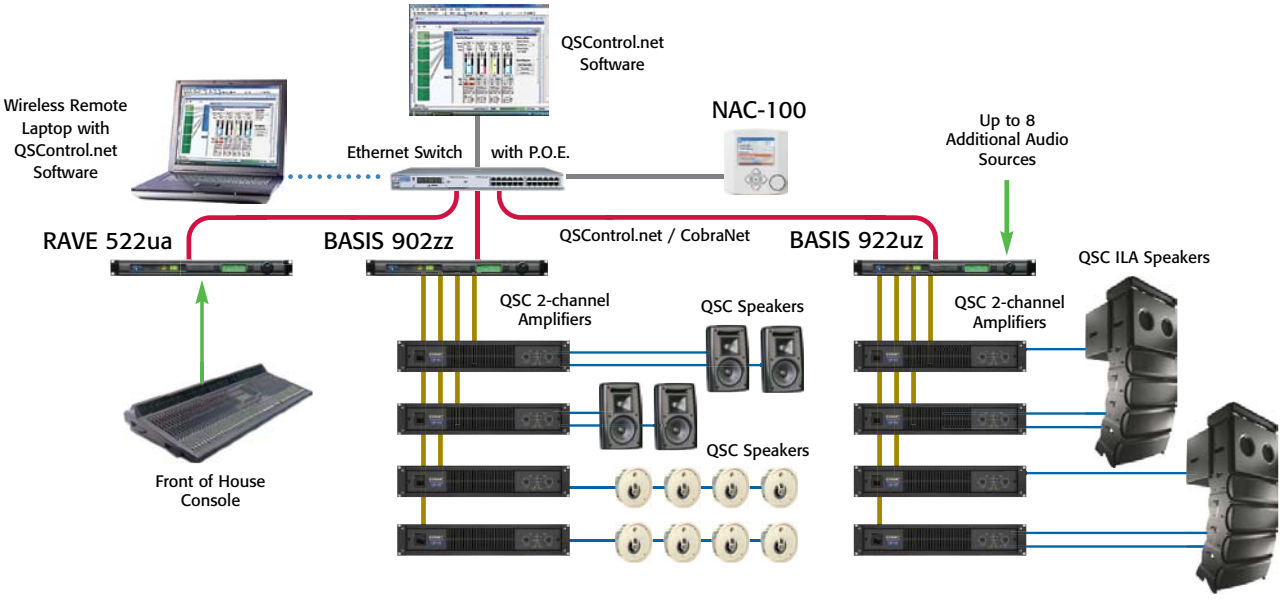
- Color graphics display
- Power over Ethernet
- Recall Global Presets
- Rotary "wheel" control of an entire system
- Controllers can track each other
- Available color options black or white

Applications

- Convention facilities
- Meeting rooms
- Retail environments
- Houses of worship
- Any permanently installed system

The QSControl.net Solution

QSControl.net brings seamless integrity to countless applications with its inherent ability to provide DSP, amplifier and loudspeaker management, plus CobraNet™ digital signal transport. QSControl.net provides these capabilities in a single unified hardware and software platform, eliminating the complexity of combining products from multiple vendors and providing single-source accountability to you and your customers. QSControl.net provides fast, reliable, rock-solid performance and is backed by the unrivaled service and support on which QSC has built its reputation.



SC28 System Controller

The SC28 is a dedicated line array processor with factory-optimized tunings for QSC loudspeaker systems. User-adjustable 6 band parametric equalizer, high and low shelving filters and signal delay optimize the system for acoustic, environmental or aesthetic considerations.

For uncompromised audio quality, the SC28 uses 48 kHz 24-bit A/D and D/A conversion with 32-bit floating point DSP. Advanced signal processing algorithms incorporate IIR (Infinite Impulse Response) as well as FIR (Finite Impulse Response) filters. QSC system engineers have employed the power of the SC28 System Controller's FIR filters to implement *Intrinsic Correction*™ of the loudspeaker. *Intrinsic Correction* is designed to produce flat acoustical amplitude, frequency and phase response by compensating for physical phenomena such as the effects of waveguide acoustical impedance and loudspeaker cone resonance. The result is excellent power response and extremely natural, uncolored sound across the loudspeaker's frequency band and coverage area. An array of loudspeakers with *Intrinsic Correction* will be very responsive to user-applied equalization.

The SC28 is designed for simple, straightforward operation. Audio inputs and outputs are via balanced, line-level, analog XLR connectors. Four outputs for each of the two inputs are provided for use with 2 or 3-way systems plus subwoofers. Tunings are selected by scrolling through a list of QSC loudspeakers and selecting the model on the LCD panel. A similar process is used to select the QSC amplifiers being used and to configure amplifier input sensitivity for proper dynamic protection and gain structure. Settings for future QSC products can be loaded into the SC28 via a rear-mounted USB port.

Once the processor settings have been matched to the system, the user or installer can take advantage of the integral equalization and delay functions. Password protection is included to prevent unauthorized tampering.

Intrinsic Correction™

- FIR filters optimize response in both frequency and time domains by pre-correcting for physical phenomena such as waveguide acoustical impedance and loudspeaker cone resonances

QSC Loudspeaker Selection

- Select the QSC loudspeaker and configuration (2-way, 3-way, 3-way + sub). The SC28 instantly reconfigures itself for optimal audio reproduction

QSC Amplifier Selection

- Select the QSC amplifier being used to calibrate the drive signal to the amplifier for proper balance and loudspeaker protection

User-Adjustable Input EQ

- Six (6) parametric filters with adjustable frequency, gain and bandwidth
- High and low shelf filters with adjustable frequency, gain and slope

User-Adjustable Delays

- Sub delay adjustable from 0 to 50 ms
- Array delay adjustable from 0 to 20 ms

Subwoofer Management

- Selectable stereo or mono-summed subwoofer
- Adjustable subwoofer gain
- System is optimized for operation with or without subwoofer

Loudspeaker Protection

- Optimized thermal and excursion protection for each transducer
- User-bypassable for output clip-limiting only

Channel Linking

- Select linked or independent control of stereo channel settings

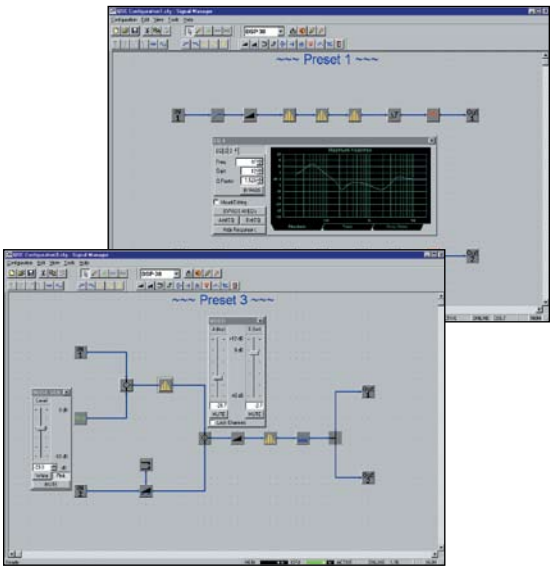
Features

- Two (2) XLR line-level inputs
- Eight (8) XLR line-level outputs
- Front panel meters for all inputs and outputs
- Universal AC power input
- Rear-panel USB port for quick and easy loading of new loudspeaker tunings

RoHS

DSP-30

The DSP-3 and DSP-4 are compact, two-channel signal processing modules that can plug into the back of most DataPort-equipped QSC amps to conserve rack space and simplify interconnection. They can also be mounted into a DPX-4 remote rack mounting bracket for use as a standalone, rack-mounted processing unit. The DSP-3/4 are professional audio processors featuring 24-bit/48 kHz A/D converters, balanced inputs, and presets that can be selected without turn-on pops or *zipper* noise. Their processing power is *dynamically allocated*, removing the limitations imposed by fixed signal-chain designs. The power and flexibility of the DSP-3/4 eliminates expensive outboard DSP gear, which reduces cost and installation time and simplifies setup.



The DSP is configured with an easy-to-use software interface. Signal processing icons from the toolbar are dropped onto the workspace and the signal path is routed with simple drawing tools.

Our PC-based Signal Manager software uses simple drag-and-drop tools to:

- Configure the processing functions and signal flow
- Display a graphical representation of DSP resources
- Produce hardcopy printout of signal flow and/or parameter settings
- Perform firmware upgrades via RS-232

Each channel includes:

- Crossover filters: Bessel, Butterworth, Linkwitz-Riley
- Compressors and limiters
- Multiple parametric EQs
- Precision attenuation (0.1 dB steps)
- High- and low-shelf filters
- Mix post-crossover audio (2-to-1 mixer)
- Multiple delays (max. 910 ms)
- Variable-frequency tone generator
- Pink and white noise generators
- Signal mute, splitter, and polarity reversal

The DSP-30 is a rack-mount device almost identical to the DSP-3. The other main differences between these three devices are their dynamic range specifications and output connectors:

Model	Dynamic Range (unweighted)	Output Connectors
DSP-3	>93 dB, 20 Hz to 20 kHz 1.5, 4, 9 V sensitivities	3-pin Euro-style
DSP-4	>104 dB 20 Hz to 20 kHz, 1.5, 4, 9 V sensitivities	XLR
DSP-30	>95 dB 20 Hz to 20 kHz, 1.5, 4 and 9 V sensitivities	XLR

RoHS

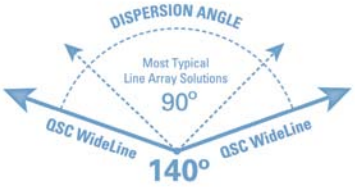
WideLine-10
Line Array System

Concert Systems
Installed Sound

WL2102 shown hung from Large Grid.

WL2102 | WL2102-w

The WideLine-10 WL2102 and WL2102-w are compact, high-output, wide dispersion line array loudspeaker systems renowned for their 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 provides full-range, warm, open, natural sound with exceptionally wide horizontal coverage (140°).



Wide coverage provides more latitude in array placement and may reduce or eliminate the need for supplemental fill speakers.

Each WideLine-10 array element consists of two 10", long-throw, low-frequency drivers in a ported trapezoidal enclosure. The high-frequency component is a 3" diaphragm, neodymium high-frequency driver mounted on QSC's patented* multiple aperture diffraction slot waveguide.

Both LF transducers handle low frequencies, but only one extends into the mid-frequencies thus reducing phase and coverage anomalies in the critical crossover region. The system may be operated in either bi-amplified or tri-amplified mode.

Two versions, with identical acoustical performance and compatible mechanical design are offered. The original, weather resistant, WL2102 Composolite version uses an enclosure constructed of a light yet rigid cored composite resulting in a total system weight of only 70 lb including the self-contained rigging hardware. For applications in which prolonged exposure to the elements is not a concern, the WL2102-w is housed in a premium-grade plywood enclosure and offers the same performance at lower cost.

A strong emphasis has been placed on reduction of system setup time and labor costs. Two array grids are available: The small grid supports up to 8 flown enclosures or 4 stacked; the large grid supports up to 24 flown or 12 stacked.

**Patent No. 7,177,437*

WideLine-10 shown hung from Large Grid with WideLine-8 hung beneath from AF8-10.

	WL2102 | WL2102-w RoHS
System Type	3-way line array element, Bi-amp or Tri-amp
Frequency Range (-10 dB)	48 Hz - 20 kHz
Frequency Response (±3 dB)	55 Hz - 18 kHz
Nominal Coverage	140° H
Power Handling [1] LF / MF	600 W
HF	80 W
Peak Output [2] LF / MF	133 dB / 133 dB
Driver Information LF	2 x 10" transducer, 3" voice coil, ferrite magnet
HF	3" titanium diaphragm, neodymium magnet
Controls / Selectors	Bi-amp/tri-amp selector switch, LF/MF shading switch
Input Connectors	NL8 x 2
Suspension / Attachment Point	Integral rigging system, vertical splay adjustable in 1 degree increments from 2-10 degrees, plus zero degrees
Dimensions (HWD) inches	10.8" x 27.4" x 20.75"
Dimensions (HWD) mm	274 mm x 696 mm x 527 mm
Net Weight (each)	WL2102: 70 lb / 31.8 kg WL2102-w: 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

- WL Small Grid: May be used to stack four (4) or fly eight (8) WL2102 or WL2102-w.
- WL Large Grid: May be used to stack twelve (12) or fly twenty-four (24) WL2102 or WL2102-w.
- WL-10 Eight-Pack Rack: Transport/storage unit, accommodates eight (8) WL2102 or WL2102-w plus one Large Grid.
- WL-Case: Transport/storage case, holds three (3) WL2102 or WL2102-w plus one Small Grid.
- AF8-10: Adapter frame that allows suspension of WL3082 under WL2012.

Empty WL-10 Eight Pack Rack.

Fully loaded WL-10 Eight Pack Rack.

NEW!

WideLine-10 Subwoofers

Concert Systems
Installed Sound

Four WL218-sw shown hung from AF218-sw.

The WL-218-sw and the GP218-sw are premium, high-performance, rectangular dual 18" subwoofers designed for use in the most demanding touring or installed concert applications. They are acoustically identical subwoofers, differing primarily in suspension hardware.

With an impressive combination of punch, low-frequency extension and musical accuracy, these subwoofers are ideal companions for the acclaimed QSC WideLine™ Series as well as other professional sound reinforcement systems. The 18" woofers incorporate a double layer spider and triple roll surround for extended and controlled excursion at extreme power. The 4" voice coil is wound on a fiberglass former to prevent deformation at high operating temperatures and is extensively vented to reduce power compression. Both enclosures are constructed of premium quality birch plywood with extensive internal bracing and finished to stand up to heavy use.

WL218-sw

The WL218-sw is equally at home in the air or ground stacked. Using the AF218-sw array frame, up to eight WL218-sw subwoofers may be suspended with a 10:1 design factor. The subwoofers may be stacked using the interlocking feet and recess features. For ease of transport, the WL218-sw includes a castor pallet with rugged 3.5" ball bearing casters and an easy-to-use, snap-on mechanism for attachment to the enclosure.

NEW GP218-sw

The GP218-sw omits the WL218-sw suspension hardware but retains all the acoustical performance of the WL218-sw at a lower cost. For ground-supported applications, the subwoofers may be stacked horizontally using their interlocking feet and recess features machined into the enclosure's top panel. For suspension in permanent installations each GP218-sw subwoofer includes a total of sixteen (16) threaded M10 inserts. An optional transport castor pallet is available.

GP218-sw

WL218-sw array shown with a combination WideLine-10 and WideLine-8 array.

	GP218-sw NEW	WL218-sw
System Type	2 x 18" vented subwoofer	2 x 18" vented subwoofer
Frequency Range (-10 dB)	27.4 Hz - 1.2 kHz (without processing)	31 Hz - 1 kHz (without processing)
Frequency Response (±3 dB)	31.4 Hz - 240 Hz (without processing)	37 Hz - 200 Hz (without processing)
System Performance		
Power handling [1]	1700 W	1700 W
Peak output [2]	140.5 dB	139 dB
Driver Information LF	Dual 18" transducers, 4" voice coil, ceramic magnet assembly	Dual 18" transducers, 4" voice coil, ceramic magnet assembly
Input Connectors	2 x NL4 in parallel	2 x NL4 in parallel
Suspension / Attachment Point	Integral rigging system, vertical splay adjustable in 1° increments from 0° - 10°	Integral rigging system, vertical splay adjustable in 1° increments from 0° - 10°
Dimensions (HWD) inches	20" x 47.17" x 30"	21.3" x 45.9" x 34.75"
Dimensions (HWD) mm	508 x 1198 x 762 mm	541 x 1166 x 882 mm
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.

RoHS

Available WideLine-10 Subwoofer Accessories

- AF218-sw: Array frame.
- CVR218: Soft cover.
- CP218-0: Castor pallet for GP218-sw.
- CP218-1: Castor pallet for GP218-sw, includes a padded soft cover.

For the WL218-sw the castor pallet and soft cover is included.

CP218-0

CP218-1

WideLine-8
Line Array System

Concert Systems
Installed Sound

WL3082 shown hung from AF3082-S.

WL3082

Designed for the most demanding concert and installation audio professionals, the WideLine-8 system packs full size line array performance into an ultra compact package measuring less than 20" (508 mm) wide and 9" (229 mm) high. WideLine-8 fits "difficult" venues with height or sightline restrictions that limit the placement and size of the array. It eases transport requirements to avoid rising fuel costs.

Each tri-amplified WideLine-8 element uses a pair of high-power neodymium 8" low-frequency drivers. Both generate the low frequencies, but to maintain wide 140° horizontal coverage at crossover, only one extends into the mid-range. High frequencies are handled by a 3" diaphragm, neodymium compression driver on QSC's patented* multiple aperture diffraction slot waveguide. Enclosures are Baltic birch plywood with an environmentally friendly, field-repairable water-borne polymer finish and lightweight, rustproof aluminum suspension fittings.

Flexible Arrays

An elegantly simple 4-point suspension system combined with light weight, compact size and excellent handling ergonomics mean that one crewperson can easily deploy an array. A single AF3082-L array frame suspends up to twelve line array elements or up to twelve line array elements plus four subwoofers.

Arrays can be assembled using only WL3082 elements for events where extreme low end below 62 Hz is not required. For additional subbass impact, WL212-sw subwoofers can be flown at the top of the array, or behind the fullrange array by utilizing the EB3082 extension bar.

Arrays of up to twelve WL3082 modules, with four WL212-sw subwoofers flown behind can be accommodated by the combination of 2 x AF3082-S small array frames and a single EB3082 extension bar. As many as twelve WL3082 modules can be suspended using one AF3082-S while the AF3082-L large array frame can be used to assemble arrays of up to twelve WL3082 modules alone or suspended below up to four WL212-sw subwoofers. The AF8-10 adapter frame allows the user to add WL3082 WideLine-8 arrays beneath WL2102 WideLine-10 arrays. The PB3082 pullback bar can be used to attain extra downangle in flown arrays or as a suspension bar for arrays of up to eight WL3082 modules.

**Patent No. 7,177,437*

Six WL3082 shown with two WL212-sw behind array, hung from two AF3082-S and one EB3082.

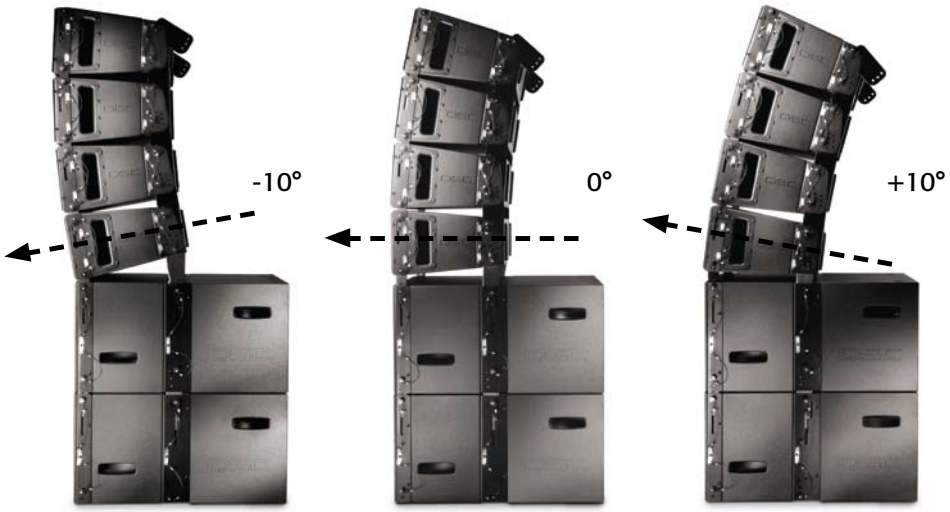
	WL3082
System Type	Dual 8", 3-way, tri-amp line-array
Frequency Range (-10 dB)	62 Hz - 20 kHz
Frequency Response (±3 dB)	68 Hz - 18 kHz
Nominal Coverage	140° H
Power Handling [1] LF / MF / HF	250 W / 250 W / 85 W
Peak Output [2] LF / MF / HF	128 dB / 128 dB / 133 dB
Driver Information LF	Dual, 8" woofer, 2.5" voice coil
HF	1.4" exit, 3" diaphragm, neodymium magnet compression
Input Connectors	NL8 x 2
Suspension / Attachment Point	Integral rigging system, vertical splay adjustable in 1 degree increments from 0-10 degrees
Dimensions (HWD) inches	9" x 20" x 16"
Dimensions (HWD) mm	229 mm x 508 mm x 406 mm
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.

RoHS

Optimized Groundstacking

The WideLine-8 system is equally at home in the air or ground stacked. WideLine-8 rigging doubles as an optimized groundstacking system. The WideLine-8 sub suspension system includes a unique provision that allows the lowest line array element stacked over a sub to be tilted up or down by as much as 10°, offering better coverage of listeners near the stage. WideLine-8 subs can be used as a base for stacking up to six WideLine-8 elements.



Four WL3082 on top of two WL212-sw.

NEW!

WideLine-8 Subwoofers

Concert Systems
Installed Sound

WL212-sw

GP212-sw

The WL212-sw, WideLine-8 Subwoofer, and the GP212-sw are acoustically identical subwoofers, differing primarily in suspension hardware. Both subwoofers set a new benchmark for extraordinary acoustic output from a miniscule enclosure. At first glance, the enclosure seems too small for a pair of 4" voice coil, long excursion 12" woofers. The extremely low profile (under 15" / 38 mm) also makes the WL212-sw sub a great choice for installed and portable use under a stage or in other tight quarters. The 4th order bandpass design produces 135 dB peak SPL and has LF extension to 32 Hz – all the power and punch needed for popular music.

WL212-sw

Enclosure width matches the WL3082 (WideLine-8) allowing it to be flown above or behind a WideLine-8 array. Adding WL212-sw subwoofers to tri-amplified WL3082 arrays creates a 4-way active system. A WideLine-8 system is equally at home in the air or ground stacked. WideLine-8 rigging doubles as an optimized ground-stacking system. The WL212-sw suspension system includes a unique provision that allows the lowest line array element stacked over a sub to be tilted up or down by as much as 10°, offering better coverage of listeners near the stage. WideLine-8 subs can be used as a base for stacking up to six WideLine-8 elements.

NEW

GP212-sw

The GP212-sw omits the WideLine-8 compatible suspension hardware but retains all the acoustical performance of the WL212-sw at a lower cost. For suspension in permanent installations each GP212-sw subwoofer includes a total of six (6) threaded M10 inserts. For ground-supported applications, the subwoofers may be stacked horizontally using their interlocking feet and recess features machined into the enclosure's top panel. A screw-in (M20) pole mount has been added to provide flexibility in use with small 2-way pole mount full-range speakers.

Both Models

- Dual 12" woofers in a 4th order band-pass enclosure
- 135 dB SPL peak output capability
- 32 Hz - 107 Hz frequency range
- Premium birch plywood with extensive internal bracing

WL212-sw

- May be flown at the top of a WL3082 array or behind the array
- Integral suspension hardware also supports WL3082 in ground stack applications

GP212-sw

- Six (6) threaded M10 flypoints for suspended applications
- M20 threaded pole-socket for sub/sat use

Two WL212-sw shown hung from AF3082-L with six WL3082 hung beneath.

	GP212-sw NEW	WL212-sw
System Type	Dual 12", 4th order bandpass subwoofer	Dual 12", 4th order bandpass subwoofer
Frequency Range (- 10 dB)	32 Hz - 107 Hz	32 Hz - 107 Hz
Frequency Response (± 3 dB)	40 Hz - 100 Hz	40 Hz - 100 Hz
Power handling [1]	1100 W	1100 W
Peak output [2]	135 dB	135 dB
Driver Information LF	Dual 12" transducers, 4" voice coil, ceramic magnet	Dual 12" transducers, 4" voice coil, ceramic magnet
Input Connectors	2 x NL8 in parallel	2 x NL8 in parallel
Suspension / Attachment Point	6 x M10 threaded inserts	Integral, non-adjustable
Dimensions (HWD) inches	15" x 20" x 29"	15" x 20" x 29"
Dimensions (HWD) mm	381 mm x 508 mm x 737 mm	381 mm x 508 mm x 737 mm
Net Weight (each)	109 lb / 49.4 kg	109 lb / 49.4 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.

RoHS

Available WideLine-8 Accessories

- AF3082-L: Large array frame, supports up to twelve (12) WideLine-8 elements and four (4) WideLine-8 subs with 10:1 design factor.
- AF3082-S: Small array frame, supports up to twelve (12) WideLine-8 elements with 10:1 design factor.
- AF8-10: Adapter frame that allows suspension of WL3082 under WL2012.
- EB3082: Extension bar, required for system with the subwoofers flown behind the main array.
- PB3082: Allows extra down-angle in flown arrays and functions as a suspension bar for small WL3082 arrays.
- CP3082: Caster pallet for four (4) WL3082 line array elements, includes a padded soft cover.
- CP212-1: Castor pallet for one (1) WL212-sw or one (1) GP212-sw, includes a padded soft cover.
- CP212-2: Castor pallet for two (2) WL212-sw or two (2) GP212-sw, includes a padded soft cover.

GP212-sw shown with HPR.

CP212-2

CP3082

Installation Line Array
ILA Series

Installed Sound

WL2802-i with WL115-sw using EB2082-i extension bar and FB2082-i fly-bar.

Line array systems have become the loudspeaker configuration of choice for touring sound companies and large installations. By focusing on installation applications and eliminating costly mechanical features required for touring, QSC's Installation Line Array (ILA) Series offers a professional system at a competitive price, making line array systems accessible to a broader range of applications.

WL2082-i

Each ILA WL2082-i uses a pair of high-power, neodymium, 8" low-frequency drivers in a two-and-a-half way configuration. Both woofers produce low frequencies but only one covers the midrange, resulting in more uniform directivity in the crossover region. For high frequencies, the WL2082-i uses a pair of 1.75" titanium dome neodymium compression drivers mounted on QSC's patented* multiple aperture diffraction slot waveguide. A WL2082-i system provides extremely wide coverage (140º), which often eliminates the need for side or center fill speakers, and preserves coherent stereo imaging across the entire coverage area. The system may be used in bi-amplified or tri-amplified mode. In general, the tri-amplified mode will produce the best performance and, for arrays larger than four boxes, will not increase the total cost of system amplification.

**Patent No. 7,177,437*

WL115-sw

The low frequency range of a WL2082-i array will be adequate for speech, voice and many acoustic music uses. For reinforcement of program material with more demanding low frequency content, a companion subwoofer, the WL115-sw, is also available. The WL115-sw is a 15" subwoofer using a 4th order, bandpass enclosure. Tooled ports with gently rounded terminations inside and out eliminate port turbulence distortion. Mesh grilles are integrated into the port design to obstruct the entry of wildlife and foreign objects into the enclosure. The WL115-sw includes rigging hardware and accessories that allow flying the subwoofers at the top or behind a WL2082-i array. All ILA Series components are available in black or white to blend with venue décor.

Available ILA Accessories

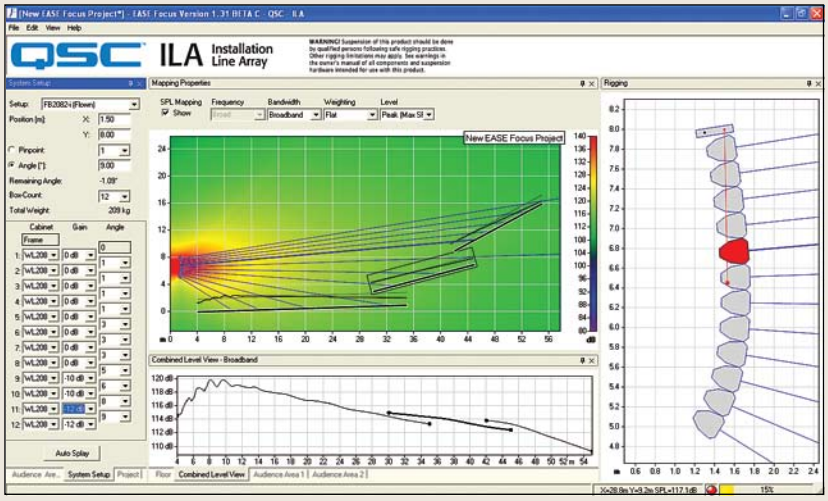
- FB2082-i: Fly-bar, may be used with either WL2082-i or WL115-sw.
- EB2082-i: Extension bar allows suspending WL115-sw behind WL2082-i
- PB2082-i: Pullback bar for WL2082-i.
- QRP-KIT-1: Four quick release pins, for use in place of included bolts.
- GS115-sw: Ground stack kit for WL115-sw.
- AB2082-i: Allow increased splay between enclosures.

	WL2802-i	WL115-sw
System Type	3-way line array element, Bi-amp or Tri-amp	15" bandpass subwoofer
Frequency Range (-10 dB)	68 Hz - 22 kHz	35 Hz - 112 Hz
Frequency Response (±3 dB)	80 Hz - 20 kHz	37 Hz - 107 Hz
Nominal Coverage	140° H	N/A
Power Handling [1] LF / MF	400 W	650 W
HF	100 W	N/A
Peak Output [2]	133 dB	124 dB
Driver Information LF	2 x 8" transducers; 2" voice coil; neodymium magnet	15" transducer, 4" voice coil, ferrite magnet
HF	2 x 1.75" titanium diaphragm, neodymium magnet	N/A
Controls / Selectors	Bi-amp/tri-amp selector switch, LF/MF shading switch	
Input Connectors	NL8 x 2	NL8 x 2
Suspension / Attachment Point	Integral rigging system, vertical splay adjustable in 1 degree increments from 0-10 degrees	Integral, non-adjustable (straight array only)
Dimensions (HWD) inches	11.8" x 27" x 13.4"	22.1" x 27" x 30.25"
Dimensions (HWD) mm	300 mm x 686 mm x 340 mm	561 mm x 686 mm x 768 mm
Net Weight (each)	37 lb / 16.8 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.

RoHS

WL115-sw over WL2802-i.



EASE Focus Software

This free software may be downloaded from the support section of the QSC website and is available for ILA, WideLine-8 and WideLine-10.

EASE Focus is a software tool that aids in system planning and deployment. Functions performed include:

- Calculating the number of enclosures required for a given space.
- Determining optimum splay angles between enclosures.
- Calculating the angle to set the array grid in a single (variable) pick-point or fixed suspension point application.
- Predicting the acoustical response and SPL throughout the venue.

AcousticDesign™ Series Ceiling Speakers

Installed Sound

AcousticDesign in-ceiling speakers are ideal for commercial applications including hotels, restaurants/pubs, offices, retail spaces, convention centers, recreation facilities, houses of worship, and airports. Delivering higher SPL over an unusually wide frequency range, AcousticDesign loudspeakers provide natural, musical, sound with very low distortion. AD-C ceiling speakers and AD-S surface mount speakers are designed for seamless sonic integration using common driver technologies.

Well suited for use in air handling spaces per UL2043 and UL1480, AcousticDesign ceiling speakers are shipped ready to install with a backcan, C-ring, tile rails, seismic tab and a paintable grille.

AD-C42T

The new AD-C42T ceiling mount loudspeaker is designed for background music and general purpose playback, and is acoustically matched with other AcousticDesign Series products. Rated for 40 watts continuous and 160 watts peak power handling, with 88 dB SPL sensitivity, the compact AD-C42T is suitable for any ceiling installation where a small, minimally intrusive footprint is desired.

The 4" woofer has a polypropylene cone and synthetic rubber surround for reliable operation in humid environments. In its sealed enclosure it is optimized to deliver usable output below 70 Hz. The 0.75" dome tweeter has a titanium diaphragm and a cloth surround. Its coaxial post is mounted slightly off center in the low frequency driver to minimize destructive interference and maintain smooth 100° conical dispersion.

The baffle and mounting tabs are molded high-impact polystyrene. The rear enclosure is heavy gauge powder coated steel. An attractive aluminum grille is backed with acoustically transparent white cloth. The input cup on the rear of the enclosure features a conduit attachment point, plus an additional knockout for daisy-chain wiring. The high-temperature-resistant ceramic input screw terminal complies with European safety standards.

The AD-C42T ships with C-rings and tile rails. New construction rings (ADC-NC4) and mud rings (ADC-MR4) are available separately. A 70/100 V transformer with multiple taps and an 8 ohm bypass is built-in.

AD-C81Tw

The new AD-C81Tw ceiling mount subwoofer is designed to supplement AcousticDesign systems with low-frequency extension that is acoustically matched with both ceiling mount and surface mount AcousticDesign Series products. Rated for 100 watts continuous and 400 watts peak power handling, the AD-C81Tw extends low frequency output below 40 Hz. Its built-in 120 Hz low-pass filter is switchable from the front panel.

For reliable operation, even in high humidity, the 8" woofer has a polypropylene cone and synthetic rubber surround. The driver works optimally with the large port to provide solid low frequency extension without undesirable port turbulence. This highly efficient design produces 92 dB SPL sensitivity.

The baffle and mounting tabs are molded high-impact polystyrene. The rear enclosure is heavy gauge powder coated steel. An attractive aluminum grille is backed with acoustically transparent white cloth. For minimum vertical clearance, the input cup is on the side of the enclosure: it features a conduit attachment point, plus an additional knockout for daisy-chain wiring. The high-

	AD-C42T	AD-CI52T	AD-CI52ST	AD-C81Tw
System Type	2-way, ceiling / flush mounted, sealed system	2-way, ceiling / flush mounted, ported system	Shallow can, 2-way, ceiling / flush mounted, ported system	Subwoofer, ceiling / flush mounted, ported system
Frequency Range (-10 dB)	60 Hz - 20 kHz	65 Hz - 20 kHz	53 Hz - 20 kHz	28 Hz - 208 Hz
Frequency Response (±3 dB)	72 Hz - 20 kHz	85 Hz - 20 kHz	63 Hz - 20 kHz	39 Hz - 184 Hz
Nominal Coverage	100° conical	90° conical	100° conical	N/A
Full Range Power Capacity [1] Sensitivity [2] Peak SPL [3]	 40 W (100 hrs) 88 dB 110 dB	 40 W (100 hrs) 86 dB 108 dB	 40 W (100 hrs) 87.5 dB 109 dB	 100 W (100 hrs) 92 dB 118 dB
Driver Information LF	4" weather resistant, polypropelene cone woofer	5.25" weather resistant, low distortion fiberglass cone woofer, 25 mm voice coil, neodymium magnet	5.25" weather resistant, low distortion fiberglass cone woofer, 25 mm voice coil, neodymium magnet	8" weather resistant, polypropelene cone woofer, rubber surround
HF	0.75" titanium dome tweeter, rubber surround	1" titanium dome tweeter, rubber surround	1" titanium dome tweeter, rubber surround	N/A
Controls / Selectors	70 V: 30, 15, 7.5, 3.8 W 100 V: 30, 15, 7.5 W 8 Ω Externally Selectable	70 V: 30, 15, 7.5, 3.8 W 100 V: 30, 15, 7.5, 3.8 W 8 Ω Externally Selectable	70 V: 30, 15, 7.5, 3.8 W 100 V: 30, 15, 7.5, 3.8 W 8 Ω Externally Selectable	70 V: 60, 30, 15, 7.5 W 100 V: 60, 30, 15 W 8 Ω Externally Selectable
Input Connectors	Ceramic block or 4-pin Euro terminals, fire protective sub-chamber	4-pin Euro terminals, fire protective sub-chamber	4-pin Euro terminals, fire protective sub-chamber	Ceramic block or 4-pin Euro terminals, fire protective sub-chamber
Suspension / Attachment Point	N/A	N/A	N/A	N/A
Dimensions (HWD) inches	7.5" x 7.5" x 9.3"	8.5" x 8.5" x 9.3"	12.6" x 12.6" x 3.75"	12.6" x 12.6" x 14.8"
Dimensions (HWD) mm	191 mm x 191 mm x 236 mm	216 mm x 216 mm x 236 mm	321 mm x 321 mm x 95 mm	320 mm x 320 mm x 376 mm
Net Weight (each)	6.1 lb / 2.7 kg	7.5 lb / 3.4 kg	8 lb / 3.7 kg	20 lb / 9.1 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.

RoHS

temperature-resistant ceramic input screw terminal complies with European safety standards.

The AD-C81Tw ships with C-rings and tile rails. New construction rings (ADC-NCS) and mud rings (ADC-MRS) are available separately. A 70/100 V transformer with multiple taps and an 8 ohm bypass is built-in.

AD-CI52T | AD-CI52ST

Both of these high performance ceiling speakers deliver accurate, high-fidelity sound in foreground / background music and paging systems. A weather-resistant 5.25" transducer with a fiberglass cone, 25-mm voice coil and rubber surround delivers the low frequencies in both the AD-CI52T and AD-CI52ST. The high-frequency driver is a pure titanium 1" dome tweeter with a neodymium magnet.

A custom low distortion, wide bandwidth transformer with a laminated core is included with both models. Multiple power taps are available on either 70 V or 100 V lines. A bypass switch enables 8 ohm operation.

The AD-CI52ST large ported enclosure extends its low-frequency response, while the shallow depth is ideal for installations with limited mounting space, such as cruise ships or in-wall placement. The AD-CI52T is smaller and even less visually intrusive. As a fully sealed system, the AD-CI52T is even more weather-resistant than the ported AD-CI52ST.

Available AD-C Accessories

- ADC-MR: Mud Ring Bracket for AD-CI52T.
- ADC-NC: New Construction Bracket for AD-CI52T.
- ADC-MRS: Mud Ring Bracket for shallow can model AD-CI52ST.
- ADC-NCS: New Construction Bracket for shallow can model AD-CI52ST.

AcousticDesign™ Series Loudspeakers

Installed Sound

AD-S32T

Designed for background and general purpose audio playback, the AD-S32T surface mount loudspeaker is acoustically matched with both ceiling and surface mount speakers in the AcousticDesign Series. Full sounding and fully featured in a surprisingly small package, the AD-S32T has 85 dB sensitivity, 30 watts continuous power handling and can handle 120 watt peaks.

The 3" woofer has a polypropylene cone and synthetic rubber surround for reliable operation in high humidity. It is optimized to deliver useable output below 70 Hz. The humbucking magnet structure can be used next to CRT monitors without interference. The 0.75" dome tweeter has a titanium diaphragm and a cloth surround. The waveguide provides 100° by 100° dispersion.

The attractive, compact enclosure is molded from high-impact polystyrene, and like all the AcousticDesign Series loudspeakers, is available in black or white and can be painted to match any specific décor. An aluminum grille backed with acoustically transparent foam protects the components from the elements. For outdoor applications, the plated screw input signal terminals can be sealed with the included weather cover. A wide bandwidth transformer with multiple power taps for either 70 V or 100 V lines and a bypass switch for 8 ohm operation is part of the AD-S32T system. A versatile ball mount assembly and yoke mount, both included, simplify installation.

AD-S52 | S52T

The AD-S52 is designed for flat, full-range output: ideal for background / foreground music, paging, secondary coverage in live performance venues, or anywhere accurate reproduction and audio quality are key requirements. Sleek, contemporary styling blends easily into hotels, restaurants, sports bars, convention facilities, and multimedia environments.

The AD-S52 high-output, 2-way design includes a 5.25" weatherproof, low-frequency transducer with magnetic shielding for use next to CRT monitors, along with a 1" neodymium tweeter. Dynamic power protection incorporated into the crossover network protects the system against accidental overloads. The AD-S52T includes a 70/100 V matching transformer for distributed systems. A rear panel switch selects the power level: it can also bypass the transformer completely for 8 ohm operation, providing greater flexibility than many competing products.

The AD-S52 system includes a ball-mount assembly for convenient installation in a wide variety of orientations. The ball mount adapter's back plate can be removed to reduce the overall depth of the assembly and the footprint of the wall mount. A weather-resistant, input connection cover protects the input terminals.

Available AD-S52 | S52T Accessories

- YM-5 Yoke Mount

AD-S82 | S82H

When higher acoustic output is called for, the full-range AD-S82 and AD-S82H surface mount loudspeakers are the choice for background / foreground music and paging applications that require accurate reproduction and audio quality. Their flat response also makes them ideal for secondary coverage in live performance facilities. Sleek, contemporary, yet unobtrusive styling meets the needs of multiple venues including hotels, restaurants, sports bars, convention

	AD-S32T	AD-S52	AD-S52T	AD-S82 (standard output)	AD-S82H (high output)	AD-S282H	AD-S282HT
System Type	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system	Compact 2-way, surface mount, ported loudspeaker system
Frequency Range (-10 dB)	65 Hz - 20 Hz	60 Hz - 20 kHz	60 Hz - 20 kHz	65 Hz - 19 kHz	60 Hz - 22 kHz	60 Hz - 29.5 kHz	60 Hz - 29.5 kHz
Frequency Response (-6 dB)	73 Hz - 20 kHz	75 Hz - 19 kHz	75 Hz - 19 kHz	85 Hz - 18 kHz	80 Hz - 21 kHz	80 Hz - 27.7 kHz	80 Hz - 27.7 kHz
Nominal Coverage	100°H x 100°V	90°H x 90°V	90°H x 90°V	90°H x 60°V (rotatable)	90°H x 60°V (rotatable)	90°H x 60°V (rotatable)	90°H x 60°V (rotatable)
Full Range Power Capacity [1] Sensitivity [2] Peak SPL [3]	 30 W (100 hrs) 85 dB 105 dB	 60 W (100 hrs) 86.5 dB 110 dB	 60 W (100 hrs) 86 dB 107 dB	 110 W (8 hrs) 90.5 dB 117 dB	 240 W (8 hrs) 90.5 dB 120 dB	 450 W (8 hrs) 93 dB 126 dB	 450 W (8 hrs) 93 dB 126 dB
Driver Information LF	3" weather resistant, polypropylene cone woofer	5.25" shielded, weather-resistant	5.25" shielded, weather-resistant	8" fiberglass cone, 1 1/4" voice coil	8" high power treated paper cone, 2" voice coil, neodymium magnet	8" high power treated paper cone x 2, 2" voice coil, neodymium magnet	8" high power treated paper cone x 2, 2" voice coil, neodymium magnet
HF	0.75" neodymium tweeter	1" neodymium tweeter	1" neodymium tweeter	1" titanium dome tweeter, neodymium magnet	1" high output compression driver	1" high output compression driver	1" high output compression driver
Controls / Selectors	70 V: 30, 15, 7.5, 3.8 W 100 V: 30, 15, 7.5 W 8 Ω Selectable Rotary Knob	N/A	70 V: 30, 15, 7.5 3.75 W 100 V: 30, 15, 7.5 W 8 Ω Selectable Rotary Knob	N/A	N/A	N/A	70V 200, 100, 50, 25 W 100V 200, 100, 50 W 8 Ω Externally Selectable
Input Connectors	Screw Terminals	5-way binding posts x 2	5-way binding posts x 2	Concealed 5-way binding posts x 2, IntelliDock mounting/ connection system	Concealed 5-way binding posts x 2, IntelliDock mounting/ connection system	Barrier Strip (switchable: passive/active)	Barrier Strip
Suspension / Attachment Point	N/A	N/A	N/A	N/A	N/A	OmniMount Pro60.0 Attachment	N/A
Dimensions (HWD) inches	7.9" x 4.8" x 5.5"	11.3" x 7.0" x 8.3"	11.3" x 7.0" x 8.3"	17.4" x 10.0" x 11.2"	17.4" x 10.0" x 11.2"	26.2" x 10.2" x 11.4"	26.2" x 10.2" x 11.4"
Dimensions (HWD) mm	201 mm x 122 mm x 140 mm	287 mm x 178 mm x 212 mm	287 mm x 178 mm x 212 mm	445 mm x 255 mm x 285 mm	445 mm x 255 mm x 285 mm	445 mm x 255 mm x 285 mm	445 mm x 255 mm x 285 mm
Net Weight (each)	4 lb / 1.8 kg	15 lb / 6.8 kg	18 lb / 8.2 kg	16.9 lb / 7.4 kg	16.2 lb / 7.7 kg	27.7 lb / 12.6 kg	35.6 lb / 16.1 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.

RoHS

facilities, and multimedia environments. Its magnetically shielded low-frequency driver is suitable for use near CRT monitors.

The AD-S82 is a 2-way system housed in a weather resistant, ported enclosure made from injection-molded, high-impact polystyrene. The low-frequency transducer is an 8" weatherproof driver with a heavy-duty double-roll cloth surround. For applications requiring higher power handling and acoustic output, the ADS82H (High Output) replaces the 1" titanium dome tweeter used in the AD-S82 with a 1" exit compression driver. Both models use a 90° x 60° version of QSC's patented, rotatable Advanced Directivity™ waveguide. Both are available with or without a 70/100 V transformer.

With QSC's revolutionary patent pending IntelliDock™ intelligent mounting system, the AD-S82 sets a new standard for ease of installation and security. The IntelliDock system includes everything necessary to mount, wire, and position the speaker. A single step locks the speaker securely onto the docking station while simultaneously making electrical connections. This unique and innovative design reduces installation time and wiring, while decreasing the risk of theft. Four mounting configurations are available, including a standard yoke mount.

Available AD-S82 Mounting Accessories

- ID-8/ ID-8T IntelliDock
- YM-8/YM-8T Yoke Mount

AD-S282H | S282HT

When additional low-frequency performance and higher acoustical output are required, choose the dual-8" AD-S282H with 1" exit compression driver. For mounting flexibility, a yoke bracket is included. The AD-S282HT includes a 70/100 V transformer for distributed systems. A rear panel switch selects the power level or bypasses the transformer for 8 ohm operation, providing greater flexibility than many competing products.

HPR Series Powered Loudspeakers

Entertainers | Musicians | DJs
Concert Systems

The HPR Series combines the simplicity and versatility of powered loudspeaker systems with the power, technology and legendary reliability of QSC amplification. Whether your application is vocal reinforcement, dance music or full-tilt rock and roll sound, there's an HPR speaker system for you.

Every HPR model is built around a high-output, reliable QSC power module using the same top-quality components and design standards as QSC RMX Series amplifiers. Unlike powered speakers with low-cost "chip amps," the HPR Series uses discrete component designs to deliver the best possible performance even when pushed to the limit. The power modules incorporate sophisticated signal processing functions carefully tailored to the loudspeaker system. Each amplifier channel includes its own limiting with the parameters individually optimized for the frequency band. Thick aluminum heat sink extrusions with deep fins provide mechanical strength and plenty of surface area to keep the module running cool.

All HPR enclosures are constructed of rugged birch. Drivers and woofers are protected by a heavy 16 gauge perforated steel grille with a distinctive and professional appearance. The grille-mounted power LED can be disabled by means of a rear-panel switch when desired. The HPR122i, HPR152i and HPR153i also feature integrated M10 suspension points for installed applications.

HPR122i

The multipurpose HPR122i performs superbly as a stage monitor or main PA speaker. Available accessories mate to the 9 threaded M10 inserts for pole or yoke mounting or flying in vertical or horizontal orientation. A 12" woofer with 3" voice coil and lightweight neodymium magnet is driven by 400 watts of Class H power. The 1.4" diaphragm neodymium compression driver is powered by a 100 watt, class AB+B amplifier and is loaded on a 75° conical horn. It's the same high-frequency driver you'll find on the HPR153i 3-way loudspeaker system.

HPR152i

The bi-amplified 15" 2-way HPR152i is a versatile workhorse, built to handle nearly any sound reinforcement challenge. A high-power woofer with a 3" voice coil provides low frequency extension down to 47 Hz. The 1.75" diaphragm compression driver on a 90° x 60° horn delivers smooth high frequencies up to 20 kHz. The power module includes a 100 Hz low-cut filter for use with subwoofers. Three threaded M10 inserts allow for vertical suspension.

HPR153i

The HPR153i 3-way loudspeaker is a great choice when the warmth, clarity and projection of a horn-loaded mid-range design is desired. The 15" low-frequency driver provides extension down to 36 Hz while the 6" mid-range driver seamlessly handles the critical vocal region. A 1.4" diaphragm compression driver delivers brilliant top end response. Three threaded M10 inserts allow for vertical suspension.

	HPR122i	HPR152i	HPR153i	HPR151i	HPR181i
System Type	12" 2-way multipurpose	15" 2-way full-range	15" 3-way full-range	15" subwoofer	18" subwoofer
Frequency Range (-10 dB)	53 Hz - 22 kHz	47 Hz - 20 kHz	36 Hz - 20 kHz	43 Hz - 145 Hz	39 Hz - 140 Hz
Frequency Response (-3 dB)	62 Hz - 18 kHz	54 Hz - 17.5 kHz	41 Hz - 17.5 kHz	51 Hz - 105 Hz	45 Hz - 95 Hz
Nominal Coverage (-6 dB)	75° conical	90° x 60°	90° x 40°	N/A	N/A
System Performance					
Output[1] (Peak SPL @ 1M)	131 dB	135 dB	133 dB	133 dB	134 dB
Amplifier Power LF	400 W	400 W	400 W	700 W	700 W
MF	N/A	N/A	100 W	N/A	N/A
HF	100 W	100 W	100 W	N/A	N/A
Current Consumption 1/8 Average Power[2] (120 V / 230 V)	1.5 A (0.8 A)	1.5 A (0.8 A)	1.8 A (0.9 A)	2.2 A (1.1 A)	2.5 A (1.3 A)
Driver Information LF	15" cone transducer, 3" voice coil	15" cone transducer, 3" voice coil	15" cone transducer, 3" voice coil	15" cone transducer, 3" voice coil	18" cone transducer, 4" voice coil
MF	N/A	N/A	6.5" horn loaded mid-range	N/A	N/A
HF	1.4" diaphragm compression driver	1.75" diaphragm compression driver	1.4" diaphragm compression driver	N/A	N/A
Controls / Selectors	Gain, Low-cut filter, Front LED On/Off, Power, Circuit breaker				
Indicator LEDs	Power on, signal present, limiter active				
Signal Connectors	Balanced female XLR line level input. Balanced male XLR full range line level output			Balanced female XLR line level inputs x 2 (L+R) Balanced male XLR full range line level through puts x 2 (L+R) Balanced male XLR low-cut line level outputs x2 (L+R)	
AC Power Connector	IEC AC Inlet	IEC AC Inlet	IEC AC Inlet	IEC AC Inlet	IEC AC Inlet
Dimensions (HWD) inches	26.9" x 14.7" x 14.9"	33.6" x 19.1" x 17.9"	45.1" x 19.1" x 17.9"	25.6" x 22" x 20.75"	28.6" x 23.5" x 22.9"
Dimensions (HWD) mm	683 mm x 373 mm x 379 mm	853 mm x 485 mm x 455 mm	1144 mm x 485 mm x 455 mm	651 mm x 559 mm x 525 mm	727 mm x 597 mm x 582 mm
Net Weight (each)	60 lb / 27.2 kg	100 lb / 45.5 kg	118 lb / 54 kg	98 lb / 44.5 kg	127 lb / 58 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.

RoHS

HPR151i | HPR181i Subwoofers

The HPR Series subwoofers supply the extended low frequency response required for dance music, bass instruments and kick drums. Both HPR subwoofers use a 700 W QSC amplifier. Flexible input signal processing and connectivity allow configuration of systems consisting of a single sub with two mid-high speakers, or larger systems employing multiple subwoofers. The signal processing includes a stereo electronic crossover with XLR line-level outputs for connection to any powered two- or three-way mid-high speaker. A top-mounted, 35-mm pole socket is provided for mounting a mid-high speaker, and heavy-duty 3" casters on the HPR181i facilitate load-in.

The compact HPR151i subwoofer uses a single 15" low-frequency driver. It produces 133 dB SPL peak (at 1 m) with frequency response down to 43 Hz. The HPR151i subwoofer's tight, punchy sound quality rivals many 18" subwoofers.

The HPR181i subwoofer uses a single 18" low-frequency speaker with a 4" voice coil. It produces 134 dB SPL peak (at 1 m) with frequency response down to 39 Hz. The HPR181i offers truly impressive, uncompromising low-frequency response and output.

Available HPR Accessories

- HPR Cover 122
- HPR Cover 152
- HPR Cover 153
- HPR Cover 151
- HPR Cover 181
- HPR Pole 26
- HPR Pole 31
- HPR Yoke 122
- HPR M10 Kit
- HPR Suspension Kit 122

ISIS Series

Concert Systems
Entertainers | Musicians | DJs

I-82H

The QSC I-82H is an 8", 2-way, full-range loudspeaker that is well suited to applications in which low to moderate levels and very high-quality sound reinforcement are required. With the ability to be pole and mic stand mounted, truss mounted, or used as a floor monitor/stage fill, these injection molded speakers are an excellent choice for musicians, mobile entertainers, and others needing a high-quality, lightweight SR package that sounds great, is visually unobtrusive, and is easy to transport.

The I-82H enclosure incorporates an 8" weatherproof, LF transducer and a 1" exit HF compression driver. Dynamic Protection circuitry is included in the network to protect the HF driver from overload damage. The HF driver is coupled with QSC's unique Advanced Directivity™ rotatable waveguide — enabling the loudspeaker to deliver well-controlled coverage, regardless of its orientation.

An ideal solution for a variety of mobile SR applications, the I-82H includes a pole cup bracket for pole mount applications as well as a 5/8"-27 mic stand adapter. With the addition of QSC's optional I-YM8 Yoke Mount/Floor Monitor Kit, the I-82H can be horizontally pole mounted for pan and tilt aiming or used as a floor monitor. For truss mounting, the I-YM8 accepts most industry standard truss clamps.

I-82H Accessories Included

- Pole cup bracket
- Mic stand adapter

Optional I-82H Accessories

- I-YM8 Yoke Mount/Floor Monitor Kit (P/N: I-YM8)

	I-82H	I-282H
System Type	Compact 2-way, ported enclosure	Compact 2-way, ported enclosure
Frequency Range (-10 dB)	60 Hz - 22 kHz	60 Hz - 29.5 kHz
Frequency Response (-6 dB)	80 Hz - 21 kHz	80 Hz - 27.7 kHz
Nominal Coverage	90°H x 60°V (rotatable)	90°H x 60°V (rotatable)
Power Capacity [1] / Sensitivity [2] / Peak SPL [3]		
Full Range	240 W (8 hrs) / 90.5 dB / 120 dB	450 W (8 hrs) / 93 dB / 126 dB
Driver Information LF	8" high power treated paper cone, 2" voice coil, neodymium magnet	8" high power treated paper cone x 2, 2" voice coil, neodymium magnet
Driver Information HF	1" exit compression driver	1" exit compression driver, 1.7" voice coil
Input Connectors	NL4 in parallel x 2	NL4 in parallel x 2
Suspension / Attachment Point	Yoke mount optional, pole mount socket, mike stand adapter included	Yoke mount, pole mount socket, mike stand adapter included
Dimensions (HWD) inches	17.4" x 10" x 11.2"	26.17" x 11.44" x 10.21"
Dimensions (HWD) mm	442.0 mm x 254 mm x 284.5 mm	561 mm x 686 mm x 768 mm
Net Weight (each)	17.5 lb / 7.9 kg	28.5 lb / 12.9 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.

RoHS

I-282H

The QSC I-282H is a dual 8", 2-way, full-range loudspeaker that is well suited to applications in which moderate levels and very high-quality sound reinforcement are required. Pole mounted, truss mounted, or used as a floor monitor/stage fill, these injection molded speakers are an excellent choice for musicians, mobile entertainers, and anyone else needing a high-quality, lightweight SR package that sounds superb, is visually unobtrusive, and with its built-in handles, is easy to transport.

The I-282H enclosure incorporates two 8" weather resistant, LF transducers and a 1" exit HF compression driver. Bi-amplified or full-range operation may be selected by means of a rear-panel switch. The HF driver is coupled with QSC's unique Advanced Directivity™ rotatable waveguide — enabling the loudspeaker to deliver well-controlled coverage, regardless of its orientation.

An ideal solution for a variety of mobile SR applications, the I-282H includes a cup for pole mounting. By using the included yoke mount with swivel extension feet, the I-282-H can be vertically or horizontally mounted for pan and tilt focusing or used as a floor monitor. For truss mounting, the yoke accepts most industry standard truss clamps.

I-282H Accessories Included

- Yoke Mount

Call 800-854-4079 or 714-957-7100 for more information today
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