PHONIC
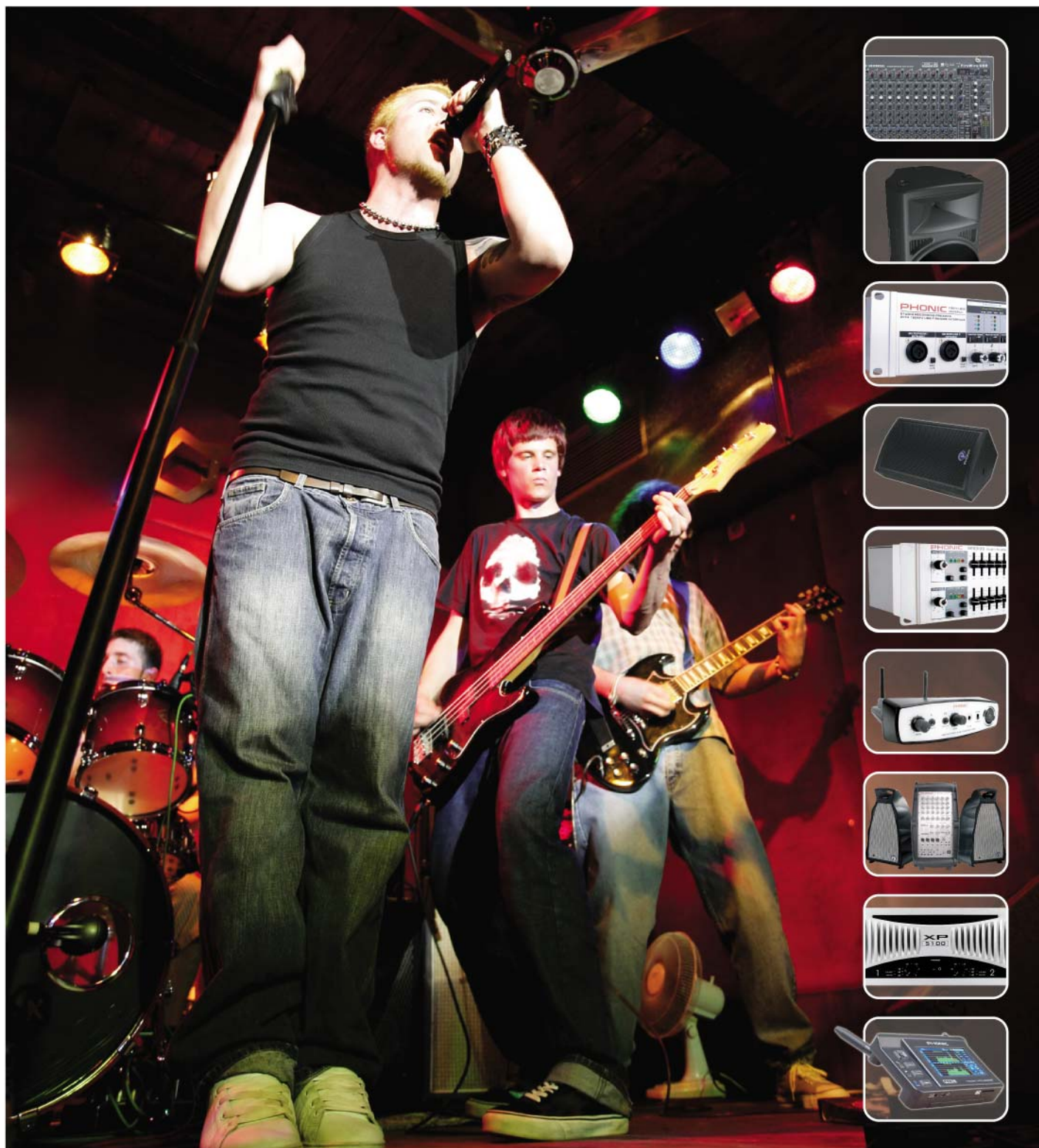
HOW FAR WILL YOUR MUSIC GO ?

Mixers   Amplifiers   Speakers   Audio Testing   Wireless   Effects   Mobile PAs   Digital Interfaces   Signal Processors

CHINA
TAIWAN

PHONIC

www.PHONIC.COM

You wanted high-quality professional audio equipment that's also accessible, and we listened. For over 30 years, our goal has been to satisfy the needs of today's music makers. We bring you quieter, more versatile mixers, higher fidelity speakers with more reach, and amplifiers that pack more clean power. Today, while most companies seek to cut costs by outsourcing, we manufacture our products in 100% owned, ISO-certified factories to ensure oversight on everything from components to quality control. We continue to talk to musicians and sound engineers to develop creative solutions that make you sound better.

Phonic's global sales force and distribution partners are strategically located with offices in almost every country. Wherever you are, Phonic is sure to be there. We follow up our sales effort with equally enthusiastic customer service. Check us out at www.phonic.com or road test our gear at your nearest Phonic dealer.
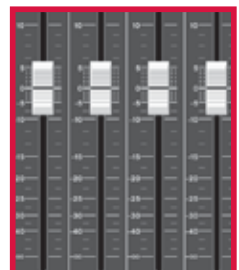
Summit Digital Mixer

Intuitive 16-Channel 8-Bus Digital Mixing Console

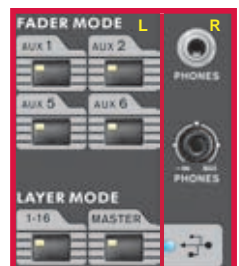**Low-noise preamplifiers**

GUI accessed through color touch screen

Fully-automated 100 mm faders

L: Level controls arranged in 2 layers
R: Stereo headphone output with level control

Digital AES/EBU input and output

- 12 mono mic/line with grouped phantom power, 4 mono line input channels
- Internal digital sampling rate up to 96 kHz in 24-bit resolution
- Compact design achieved through 16 faders encompassing two layers (Channel, AUX/Group)
- 16 ultra-smooth 100 mm automated faders arranged in a familiar analog mixer arrangement
- Eight balanced 1/4" phone jack 'multi' outputs
- High quality GUI interface onboard accessed through a full-color touch-screen
- Up to 8 AUX and 8 Group buses assignable to 'multi' outputs
- 4-band semi-parametric EQs assignable to input channels, multi outputs and main outputs
- Digital AES/EBU I/O onboard

- Professional quality digital EFX processor assignable to AUX channels
- Dynamic processor assignable to input channels, 'multi' outputs
- Save and instantly recall up to 99 scenes at the touch of a button
- Stereo headphone mix with independent level control
- Processing accomplished through a high quality 40-bit fixed point digital signal processor
- Optional FireWire & USB 2.0 expansion card (16-in, 16-out) for multi-track recording
- FireWire & USB 2.0 card compatible with Windows XP/Vista and Mac OSX operating systems

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New

- **24-bit resolution, up to 192 kHz sampling rate**
- **Headphone output and main output with volume control for monitoring purposes**
- **S/PDIF I/O, AES/EBU I/O, MIDI I/O and word clock I/O**
- **Stand-alone mixer functionality for field and studio use without computer**
- **Compatible with Mac OSX and Windows XP / Vista**
- **Steinberg Cubase LE 4 DAW software included**

483 x 88 x 286 mm (19" x 3.2" x 11.22")   2 kg (11 lbs)

Phonic's Firefly 808 and Firefly 808 Universal rack-mountable pre-amplified units with digital interface are easy-to use, professional quality recording interfaces for songwriters to record guitars, keyboards, vocals and more to the computer through FireWire and USB 2.0 (USB 2.0 on Universal model only). Featured are 8 analog (XLR and 1/4") inputs and 8 analog (1/4") outputs, as well as S/PDIF, AES/EBU, MIDI and ADAT inputs and outputs – all of which are streamed to and from the computer in real time through the FireWire or USB 2.0 connection in superb 24-bit / 192kHz audio. Compatible with most popular of Digital Audio Workstation software, these powerful units provide recording musicians and engineers alike the kind of sophisticated - yet easy to-use - recording device they so desperately desire.

FIREFLY 808
Studio Recording Preamp with 192 kHz FireWire Interface

FIREFLY 808 UNIVERSAL
Studio Recording Preamp with 192 kHz USB 2.0/FireWire Interface

- FireWire (IEEE 1394) and USB 2.0 audio interface
- 18 simultaneous inputs and outputs
- 8 microphone preamps with trim control and individual phantom power switches
- 8 analog line Inputs including 2 Instrument Inputs
- 8 channels of optical ADAT I/O (4 ch. via 96k dual SMUX)
- Channel meters on channel 1 to 8 for input or output
- Synchronization, sampling rate, digital I/O and MIDI in/out indicators
- Dual FireWire ports for daisy chaining and direct connection to Mac or PC
- Instrument input, pad switch, balanced TRS send jacks on Inputs 1 and 2

CUBASE LE4 Included   **Compatible**

FIREFLY 302 PLUS
Portable 5 x 6 FireWire Audio Interface

- 5 x 6 24-bit/192kHz I/O
- 2 x 2 analog operation (RCA)
- Digital S/PDIF (coaxial) I/O (PCM)
- Front-panel microphone in (XLR) with: 48V phantom power
- Headphone output with dedicated level control
- Near-zero latency ASIO software monitoring
- 1 x 1 16-channels MIDI I/O
- Power indicator LED
- Powered via FireWire bus or included DC power supply
- Dual FireWire (6 and 4 pin ports) with bus-power
- Sig and Clip LEDs for input and output
- Mac and Windows XP / Vista compatible

155 x 196 x 51 mm (6.1" x 7.7" x 2")
0.9kg (1.98 lbs)

FIREFLY 302 USB
Portable 5 x 6 USB2.0 Audio Interface

- 5 x 6 24-bit/192kHz USB Stream I/O
- 2 x 2 analog operation (RCA)
- Front-panel microphone in (XLR) with 48V phantom power
- Headphone output with dedicated level control
- Near-zero latency ASIO software monitoring
- Power indicator LED
- Powered via included DC power adaptor
- An easy-to-read LED sig and clip indicators for input and output
- Mac and Windows XP / Vista compatible

	Firefly 302 Plus	Firefly 302 USB	Firefly 808	Firefly 808 Universal	
Inputs	2	2	8	8	**1/4"**
	2	2	-	-	**RCA**
	√	√	8	8	**Mic**
	√	√	√	√	**S/PDIF**
	√	√	√	√	**MIDI**
	√	√	√	√	**Phones**
	-	-	√	√	**ADAT**
	-	-	√	√	**AES/EBU**
Outputs	2	2	5	5	**1/4"**
	2	2	2	2	**RCA**
	√	√	√	√	**S/PDIF**
	√	√	√	√	**MIDI**
FireWire	5	-	8	8	**Inputs**
	2	-	8	8	**Outputs**
USB 2.0	-	5	-	8	**Inputs**
	-	2	-	8	**Outputs**
Sampling Rates (kHz)	44.1, 48, 88.2, 96, 176.4, 192				
Phantom Power	universal	universal	individual	individual	
Level Meter	-	-	16 x 10-pt	16 x 10-pt	
Indicators	mic, clip	mic, clip	level, sync, clock, digital in/out		

HELIX BOARD

USB 2.0 + FireWire Mixers
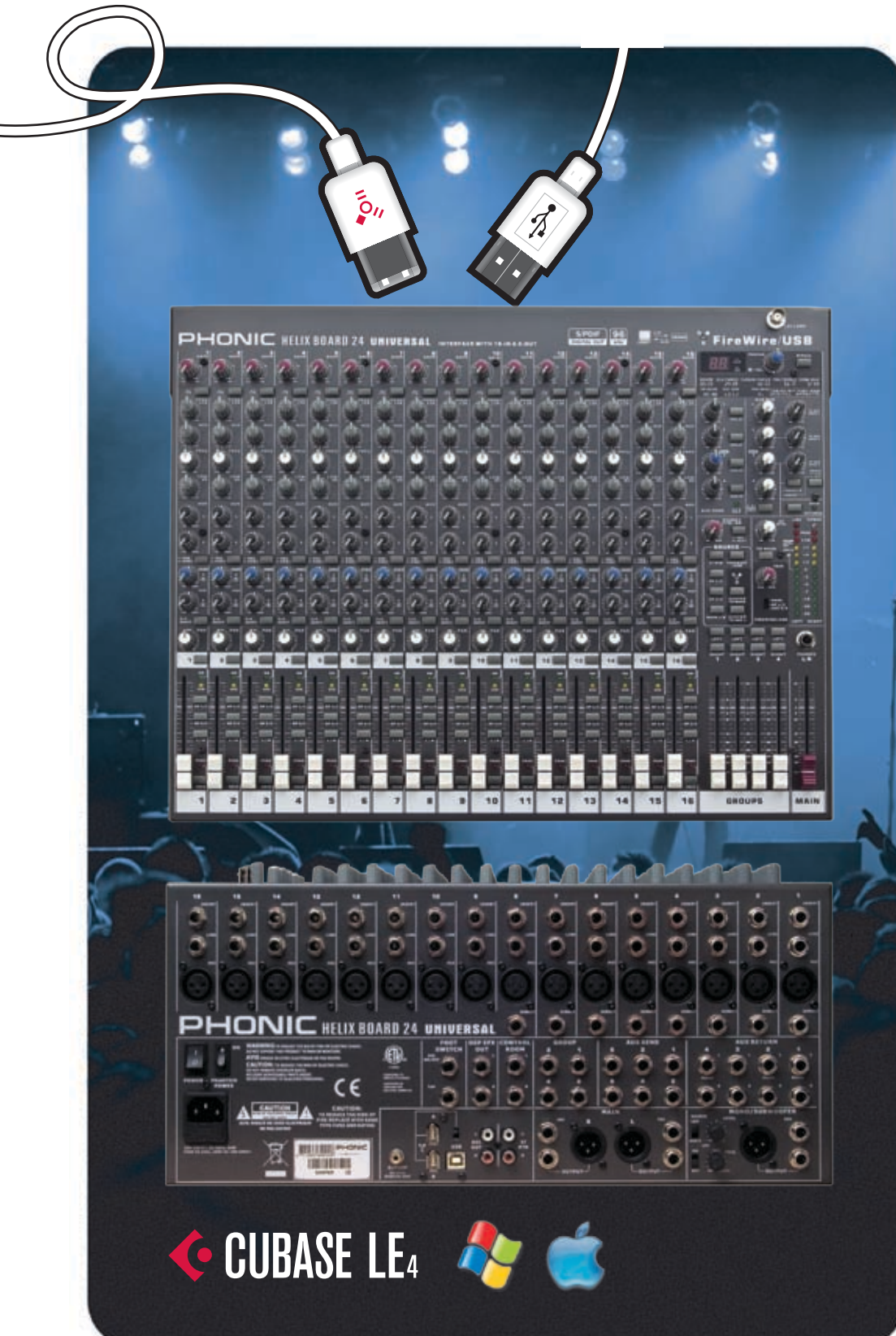
LOW NOISE PREAMPLIFIERS

FIREWIRE/USB INTERFACE

3-BAND EQUALIZER

DIGITAL EFFECTS

PRE/POST SWITCH

CUBASE LE4

Features Overview

The following is an explanation of a few of the features you will find on each and every Helix Board. Though the Helix Boards do feature a number of common features, such as those described on this page, they all incorporate their own unique characteristics as well.

LOW NOISE PREAMPLIFIERS

The lack of noise in our preamps can pass muster with even the toughest of critics. Phonic have had upwards of 30 years experience in manufacturing preamps, and the results are nothing short of spectacular.

RACK EARS

Sounds pretty basic, right? Rack-ears are a must-have for any mixer. Can you even imagine the headache if we didn't provide them along with the mixer? Lucky for you, we do.

FIREWIRE INTERFACE

This is really why we're all here, isn't it? The FireWire interface on all Helix Board units allows for a 96 kHz / 24-bit audio signal to be sent to the computer for recording, mixing, editing, and tweaking. A signal containing all of the Helix Board's input channels, as well as an additional stereo channel, will be sent at lightning quick speeds to the computer, and right into your Digital Audio Workstation software.

FIREWIRE RETURN

Users are given a stereo return signal through the FireWire interface, perfect for monitoring the recorded audio. Send the FireWire return signal to the Main, AUX or Control Room mixes with the touch of a button.

3-BAND EQUALIZER

Don't underestimate the appeal of a good EQ. The Helix Boards provide a 3-band EQ on all channels, with high and low frequency points set at 12 kHz and 80 Hz respectively. The Helix Board '12' models offer a mid control set at 2.5 kHz, whereas all other models offer a swept mid on mono channels, adjustable between 100 Hz and 8 kHz. A total of 12 dB of boost or cut is available through these controls. Add a little bass to your kick drum or more intensity to your guitar.

DIGITAL EFFECTS

A hundred digital effects standard sounds good on paper, but how do they stand up in real-life, studio and live situations? That's just the thing; all of our digital effects were designed by real musicians, to be used in real situations where digital effects can enhance your performance. When it all comes down to it, that's what makes a digital effect processor more than just another useless feature.

PRE/POST SWITCH

We know a lot of engineers like to use the Helix Board for live performances, and there are also those who want to use the board in the studio. That being the case, the pre/post switch is a feature that really separates the big players from the wannabes. Conveniently placed on every single input channel, users can switch the signal sent to their computer between that of a pre-fader signal and that of a post-fader signal. For people recording live performances, a pre-fader signal will allow you to adjust EQ and level settings for the live audio without affecting the recorded signal. If you're using the Helix Board in the studio, setting this switch to 'post' will give you total control over EQ and level settings for signals sent through the FireWire interface.

DRIVERS & SOFTWARE

PC users will naturally need to use drivers for use with the Helix Boards FireWire and Universal. A driver CD will be packaged along with the unit. Updated drivers will be made available through the Phonic website periodically. New drivers often provide fixes on minor bugs or enable the unit to be used with newly developed software. The control panel software (part of the driver) allows users to adjust sampling rates, buffer lengths, choose synchronization settings, rename input and output channels, and a good number of other features.

Mac users do not need to install drivers and can just plug the Helix Board in to get a multi-track signal to their computer. The Helix Board's sampling rate and other properties are adjusted through the MIDI audio setup page on the Mac. The Helix Board is compatible with Garage Band and the latest versions of Logic Pro and Logic Express.

STEINBERG CUBASE LE 4

Phonic offers a 'Light Edition' of Steinberg's popular Cubase digital audio workstation software packaged along with all of its Helix Board mixers. Along with Cubase LE, Helix Board users can make high quality multi-track recordings of their audio, edit their recordings as needed – adding effects, equalization and other necessities – and export the final mixdown of their tracks.

Rack-mounting
kit included

New

HELIX BOARD SERIES

Get a quality front-end for your computer. Helix Board mixers are Phonic's newest, digitally-enabled mixers that sound great and work hard both in and out of the studio. Connect a Helix Board mixer to your computer's USB 2.0 or FireWire port to get live, CD-quality sound. Low-latency playback lets you record directly to your computer and monitor in real-time. Helix Board mixers assure perfect audio quality when multi-track recording by allowing you to monitor previously recorded audio files through your headphones while recording another track. Combine the digital audio capabilities of these mixers with audio workstation software, and there's no limit to what you can do.

HelixBoard18FireWire MKII

407 x 89 x 357 mm (16" x 3.5" x 14")
5.1 kg (11.2 lbs)

HELIX BOARD 24 UNIVERSAL
24-Input 4-Subgroup Mixer with USB 2.0/FireWire Interface

■ 96kHz USB 2.0 / FireWire interface for streaming 18 independent channels of audio to computer with zero latency
■ Pre/post setting for swapping input channels sent to the computer from pre-low cut, -EQ to post-EQ, post-fader
■ 2 channels of monitoring from computer via USB 2.0 / FireWire interface, can be assigned to control room monitors, main mix and AUX 1
■ DFX, our 32/40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
■ Channel 17/18 routed to computer can be selected from Main mix, Group 1/2 and AUX 3/4
■ 16 Mic/Line channels with inserts
■ 3-band EQ with swept mid-range
■ 75 Hz low-cut filter on each channel
■ AUX 1 & 2 with Pre/Post switch
■ Six AUX send mixing bus
■ Four stereo AUX returns, three with effect to monitor
■ +48V phantom power on Mic channels
■ Four true Subgroups with Main L and R routing switches
■ Direct outputs for multi-track recording
■ Control Room and Phones outputs with multi-input source matrix
■ Mono out with variable low pass filter from 60 Hz to 160 Hz for subwoofer
■ Dual-position I/O pod
■ Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz
■ Rack-mounting kit included
■ S/PDIF digital audio output
■ Compatible with Mac OSX and Windows XP / Vista
■ Steinberg Cubase LE 4 included

HELIX BOARD 24 FIREWIRE MKII
24-Input 4-Subgroup Mixer with DFX & FireWire Interface

■ 24-input analog mixer with extremely low noise circuitry
■ 96kHz FireWire interface for streaming 18 independent channels of audio to computer with near-zero latency
■ Pre/post internal setting for swapping streaming input channels to computer from pre low cut, EQ to post EQ, post fader
■ 2 channels of monitoring from computer via FireWire interface, can be assigned to control room monitors, main mix and aux1
■ DFX, our 40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
■ 16 Mic/Line channels with inserts
■ 3-band EQ with swept mid-range
■ 75 Hz low-cut filter on each channel
■ AUX 1 & 2 with Pre/Post switch
■ Six AUX send mixing bus
■ Four stereo AUX returns, three with effect to monitor
■ +48V phantom power on Mic channels
■ Four true subgroups with main L and R routing switches
■ Direct outputs for multi-track recording
■ Control Room and Phones outputs with multi-input source matrix
■ Mono out with variable low pass filter from 60 Hz to 160 Hz for subwoofer
■ Dual-position I/O pod
■ Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz
■ S/PDIF digital audio output

HELIX BOARD 18 UNIVERSAL
18-Input Mixer with USB 2.0/FireWire Interface

■ Pre/post setting for swapping USB 2.0/FireWire input channels sent to computer from pre-low cut, -EQ to post-EQ, post-fader
■ 18-input small-format analog mixer with extremely low noise circuitry
■ 96kHz USB 2.0/FireWire interface for streaming 16 independent channels of audio to computer with zero latency
■ 2 channels of monitoring from computer via USB 2.0 / FireWire interface, can be assigned to control room monitors, Main mix and AUX 1
■ Channel 15/16 routed to computer can be selected from main mix, group 1/2 and AUX 2/3
■ DFX, our 32/40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay, foot switch jacks and volume controls for sending processed signal to aux send 1 & 2
■ Six Mic/Line channels with inserts
■ 8 extremely low noise mic preamps
■ Four stereo Line channels
■ 3-band EQ with swept mid-range
■ 75 Hz low-cut filter on mono channels
■ Three AUX sends, one with Pre/Post switch
■ Two stereo AUX returns, one with effect to monitor level control
■ +48V phantom power on Mic channels
■ Solo feature on each input and output
■ Two true subgroups with Main L and R routing switches
■ Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz
■ Rack-mounting kit included
■ S/PDIF digital audio output
■ Compatible with Mac OSX and Windows XP / Vista
■ Steinberg Cubase LE 4 included

CUBASE LE4 Included   Compatible

HELIX BOARD 18 FIREWIRE MKII
18-Input 2-Subgroup Mixer with DFX & FireWire Interface

- 18-input small-format analog mixer with extremely low noise circuitry
- 96kHz FireWire interface for streaming 16 independent channels of audio to computer with near-zero latency
- 2 channels of monitoring from computer via FireWire interface, assignable to control room monitors, main mix and AUX 1
- Pre/post switch for swapping streaming input channels to computer from pre low cut, EQ to post EQ, post fader
- Channel 15/16 routed to Computer can be selected from main mix, group 1/2 and aux 2/3
- DFX, our 40-bit high definition algorithm digital multi-effect processor with 100 programs plus tap delay, test tones and foot switch jacks
- Six Mic/Line channels with inserts
- 8 extremely low noise mic preamps
- Four stereo Line channels
- 3-band EQ with swept mid-range
- 75 Hz low-cut filter on mono channels
- Three AUX sends, one with Pre/Post switch
- Two stereo AUX returns with effect to monitor level control
- +48V phantom power on Mic channels
- Solo feature on each input and output
- Two true subgroups with main L and R routing switches
- Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz
- S/PDIF digital audio output

HELIX BOARD 12 UNIVERSAL
12-Input Mixer with USB 2.0 & FireWire Interface

- 12-input small-format analog mixer with extremely low noise circuitry
- Pre/post switch for streaming input channels to computer from pre low cut, EQ or from post EQ, post channel fader
- 96 kHz USB 2.0 & FireWire interface for streaming 10 independent channels of audio to computer with near-zero latency
- DFX, our 40-bit digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
- Two channels of monitoring from computer via USB or FireWire interface
- Four mono Mic/Line channels
- Two stereo channels, two stereo AUX Returns, two AUX sends
- 3-band EQ on each channel
- 75 Hz low-cut filter on mono channel
- Inserts on channel 1 & 2
- +48V phantom power on Mic channels
- Stereo AUX Send 1 cue for monitoring individual channel
- Master AUX section with EFX to Monitor
- Extra ALT 3-4 stereo bus
- Control room/Phones source matrix
- Balanced master output with 60 mm fader control
- High-volume headphone output

HELIX BOARD 12 PLUS
12-Input Mixer with DFX & USB 2.0 Interface

- 12-input small-format analog mixer with extremely low noise circuitry
- Pre/post switch for streaming input channels to computer from pre low cut, EQ or from post EQ, post channel fader
- 192 kHz USB 2.0 interface for streaming 10 independent channels of audio to computer with near-zero latency
- DFX, our 40-bit digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
- Two channels of monitoring from computer via USB interface
- Four mono Mic/Line channels
- Two stereo channels, two stereo AUX Returns, two AUX sends
- 3-band EQ on each channel
- 75 Hz low-cut filter on mono channel
- Inserts on channel 1 & 2
- +48V phantom power on Mic channels
- Stereo AUX Send 1 cue for monitoring individual channel
- Master AUX section with EFX to Monitor
- Extra ALT 3-4 stereo bus
- Control room/Phones source matrix
- Balanced master output with 60 mm fader control
- High-volume headphone output

HELIX BOARD 12 FIREWIRE MKII
12-Input Mixer with DFX & FireWire Interface

- 12-input small-format analog mixer with extremely low noise circuitry
- Pre/post switch for streaming input channels to computer from pre low cut, EQ or from post EQ, post channel fader.
- DFX, our 40-bit digital multi-effect processor with 100 programs plus tap delay and foot switch jacks
- 96 kHz FireWire interface for streaming 10 independent channels of audio to computer with near-zero latency
- Two channels of monitoring from computer via FireWire interface
- Four mono Mic/Line channels
- Two stereo channels, two stereo AUX Returns, two AUX sends
- 3-band EQ on each channel
- 75 Hz low-cut filter on mono channel
- Inserts on channel 1 & 2
- +48V phantom power on Mic channels
- Stereo AUX Send 1 cue for monitoring individual channel
- Master AUX section with EFX to Monitor
- Extra ALT 3-4 stereo bus
- Control room/Phones source matrix
- Balanced master output with 60 mm fader control
- High-volume headphone output

		HB12FW MKII	HB18FW MKII	HB24FW MKII	HB12 Plus	HB12 U	HB18U	HB24U	
Inputs		12	18	24	12	12	18	24	Total*
		4	8	16	4	4	8	16	Mic
		4	8	16	4	4	8	16	Line
		4	4	4	4	4	4	4	Stereo*
		√	√	√	√	√	√	√	Stereo RCA
Outputs		8	10	17	8	8	10	17	1/4" TRS
		-	2	3	-	-	2	3	XLR
		√	√	√	√	√	√	√	Stereo RCA
		-	√	√	-	-	√	√	S/PDIF
FireWire		10	16	18	-	10	16	18	Input Channels
		2	2	2	-	2	2	2	Output Channels
USB		-	-	-	10	10	16	16	Input Channels
		-	-	-	2	2	2	2	Output Channels
Sampling Rate		24-bit / 96 kHz	24-bit / 96 kHz	24-bit / 96 kHz	24-bit / 192 kHz	24-bit / 96 kHz	24-bit / 96 kHz	24-bit / 96 kHz	
Channel EQ		3-band	3-band with swept mid		3-band	3-band	3-band with swept mid		
Master EQ		-	Stereo 10-band	-	-	-	Stereo 10-band	-	
Level Meter		10-pt	13-pt	12-pt	10-pt	10-pt	13-pt	12-pt	
DFX		100+ effects, tap delay and test tones							

*AUX inputs included

CUBASE LE4 Included   Compatible

SONIC STATION SERIES

Sonic Station mixers are bursting with inputs! Every channel has a Mic preamp and balanced line input. The 3-band EQ with swept-mid (4-band EQ on stereo channels), insert points for connection to external processors, 6 AUX send mixing bus (2 AUX sends with pre/post buttons), and 8-28 direct outputs for multi-track recording allow users incredible flexibility with mix control and signal routing. But that's not all. The built-in 32/40-bit digital effect processor has 16 awesome programs, main parameter control, foot switch control and tap delay. And if you get any "sub" Sonic noise in your Mics just hit the low cut filter to get rid of breath pops, stage rumble and wind noise. Top it off with a subwoofer output, four true subgroups and phantom power, and you've got a perfect mixer for live events or studio mixing.

SONIC STATION 16
24-Input 4-Bus Mixing Console with Dual-Position I/O Pod and DFX

- DFX, our 32/40-bit digital multi-effect processor with 16 programs plus one main parameter control, tap control and foot switch jack
- 16 Mic/Line channels with inserts
- 3-band EQ with swept mid-range
- 75 Hz low-cut filter on each channel
- Four true subgroups with main L and R routing switches
- Direct outputs for multi-track recording
- Control Room and Phones outputs with multi-input source matrix
- Mono out with variable low pass filter from 60 Hz to 160 Hz for subwoofer
- Dual-position I/O pod
- Rec out with trim control for record level matching
- Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz

Rack-mounting kit included

440 x 210 x 475 mm (17.3" x 8.26" x 18.7")
9.5 kg (20.9 lbs)

SONIC STATION 22
30-Input 4-Bus Mixing Console with DFX

- 22 channel 4-bus mixing console, 20 mic preamps
- Dual effect engines with 16 EFX plus one main parameter control, Effect 2 with tap delay and foot switch jacks
- Direct out with pre-EQ switch for multi-track recording
- Rec out with independent trim control
- Talkback mic built-in
- 4 stereo AUX return, each with to aux 1~4 (effect to monitor)
- Group 1-4 and AUX 1-4, Main fader and control room volume control can be swapped for monitor console use
- Variable LPF on mono output for subwoofer
- Seven 12-segment level meters for main, group or AUX
- 3-band with swept mid-range ch EQ on mono channel
- 6 AUX mixing bus, two pairs with pre/post switch
- On, Peak/Solo and Signal indicators on each input channel
- Pad/Line in switch on mono channels
- Two stereo channels with XLR mic in, 1/4" and RCA line inputs
- 12V gooseneck lamp socket
- Main stereo and mono out with XLR jacks and inserts

859 x 102.79 x 547.42 mm (33.8" x 4.05" x 21.6")
15.5 kg (34.1 lbs)

SONIC STATION 32
40-Input 4-Bus Mixing Console with DFX

- Pad switch on mono channels
- Two stereo channels with XLR mic in, 1/4" and RCA line inputs
- 12V gooseneck lamp socket for dark working environments
- Main stereo and mono out with XLR jacks and inserts
- 30 Mic preamps
- Dual digital effect engines, each with 16 programs plus one main parameter control, tap delay and foot switch jacks
- 28 direct outputs with pre-fader switch for multi-track recording
- Rec out with independent trim control
- Talkback Mic built-in
- Four stereo AUX returns, each with switches to route signal to AUX 1-4 (effect to monitor)
- Groups 1-4 and AUX 1-4 can be swapped for monitor console use
- Talkback mic built-in
- Variable LPF on mono output for subwoofer
- Six 12-segment level meters for main, group or AUX
- Independent solo level control
- 3-band channel EQ with swept mid-range on mono channels, 4-band EQ on stereo channels
- Six AUX mixing bus, two pairs with pre/post switch
- ON, SIGNAL and PEAK/SOLO LED indicators on each input channel

1155.5 x 102.79 x 547.42 mm (45.5" x 4.05" x 21.6")
18 kg (39.7 lbs)

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IMPACT SERIES

The Impact mixers are easy-to-use mixing consoles that provide all the features you need for any project studio or live sound reinforcement. Models vary between 10 and 26 ultra-quiet Mic preamps with high headroom and phantom power, as well as two stereo line channels on every mixer. All mono channels feature inserts, for inclusion of external processors, and low-cut switches, for removing unwanted ground noise. A 3-band EQ with swept-mid is included on mono channels, and a 4-band EQ on stereo channels, giving you greater control over your audio. Four AUX sends and two stereo AUX returns can be used to connect a variety of outboard signal processors or to create special mixes to send to your monitor speakers. Impact mixers also feature an onboard 32-bit stereo digital effects processor with 100 preset programs plus one main parameter control, tap control and foot switch jacks. Output is achieved through XLR or 1/4" phone jacks, with an additional mono output topped with an adjustable LPF - ideal for use with subwoofers. The addition of mini stereo input/outputs makes these mixers perfect for anyone connecting MP3, MD, computer audio or recording devices. The Impact mixers are ideal for houses of worship, small to medium-sized halls and project studios.

IMPACT 8.4X
12-Channel Mic/Line Mixer with DFX

IMPACT 12.4X
16-Channel Mic/Line Mixer with DFX

IMPACT 16.4X
20-Channel Mic/Line Mixer with DFX

IMPACT 24.4X
28-Channel Mic/Line Mixer with DFX

- Audiophile quality & ultra low noise
- Multiple low-noise mic preamps
- Mono channels have 3-band EQ with swept mid-range, 75Hz (18 dB/octave) low-cut filter, inserts and phantom power
- Two stereo channels with 4-band EQ
- 4 AUX sends, AUX 1 & 2 with XLR and 1/4" phone output jacks
- 32/40 bit digital stereo multi-effect processor with 100 programs, tap control and foot switch jacks

- 2 stereo AUX returns with effect to monitor
- Low cut on each mono channel
- PAD control on all mono channels
- Main Stereo and Mono output with XLR and 1/4" phone jacks
- Mono output with variable low pass filter for subwoofer
- Tape input can be routed to AUX 1 and AUX 2
- Mini stereo I/O for MD, MP3 player/recorder
- Built-in switching power supply with universal connector, 100-240VAC 50/60Hz

ZX2
2 Zone Mixer

- Three stereo RCA line inputs with individual trim controls
- Paging microphone input and 1/4" TRS emergency input for emergency message broadcasting
- Two stereo zone outputs with independent source select switches and level controls
- Subwoofer output on each zone
- High and low EQ controls on each zone
- Microphone ducking depth and EQ controls
- Utility output provides audio to general utility areas (foyers, restrooms, etc.)
- Utility output source selectable
- Stereo/Mono switch on zone 1 and 2
- Remote level controls can be wired to the two zones for applications requiring remote adjustment of audio levels

ZX4
4 Zone Mixer

- Three stereo RCA line inputs with individual trim controls
- Paging microphone input and 1/4" TRS emergency input for emergency message broadcasting
- Three stereo and one mono zone output with independent source select switches and level controls
- Microphone ducking depth and EQ controls
- Utility output provides audio to general utility areas (foyers, restrooms, etc.)
- Utility output source selectable
- Stereo/Mono switch on zone 1 and 2
- Remote level controls can be wired to the four zones for applications requiring remote adjustment of audio levels
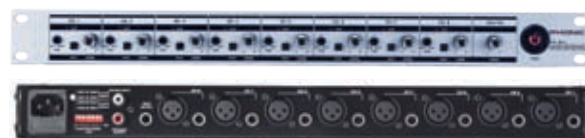
PM 801
Single Rack Unit 8-Channel Mixer with Tone Control

- 8 balanced Mic/Line inputs
- Ultra low noise pre-amp circuitry offering up to 62 dB gain (Mic In)
- EQ and Direct Out features
- Mute control, Clip Indicator, and Tone control on each channel
- Pre-fader Out and AUX Bus In for connecting additional units to maximize the application flexibility
- +48V phantom power on every channel
- Built-in power supply - no wall wart!

Optional Paging Controls
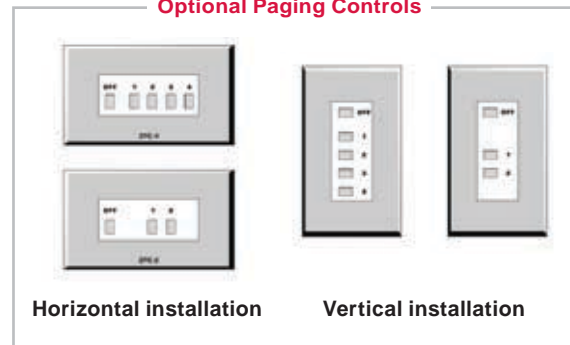
Horizontal installation   **Vertical installation**

MU SERIES

156 x 51 x 244 mm
(6.1" x 2" x 8.8")
1.1 kg (2.4 lbs)

MU 502
5-Input Compact Mixer

- Two low-noise microphone inputs and five line inputs
- 2-band EQ, low cut filter and insert on mono input channel
- Stereo RCA and mini stereo 2T return and Record I/O, both with trim controls
- Global +48V phantom power
- Dual 4-segment master level meter
- Peak LED on mono input channel
- Headphones output with volume control
- Balanced master output

190 x 56 x 233 mm
(7.5" x 2.2" x 9.2")
1.5 kg (3.3 lbs)

MU 1002X
10-Input Compact Mixer with DFX

- Two balanced Mic/Line channels each with Peak indicators
- Four stereo Line channels each with +4/-10 level matching
- DFX, our 32/40-bit digital multi effect processor with 16 programs plus one main parameter control and tap delay
- 3-band EQ on Mic/Line input channel
- 75 Hz low-cut filter on mono channels
- EFX send on every channel
- Mini stereo and stereo RCA 2T return and Record I/O
- Global +48V phantom power for Mic inputs
- Stereo EFX send cue for monitoring individual channel
- Mono button on master output allows users to select a stereo or dual mono output
- Headphone output with separate rotary level control
- Balanced master output with 60 mm fader control

275 x 60 x 271 mm
(10.8" x 2.4" x 10.7")
2.2 kg (4.85 lbs)

MU 1202
12-Input Compact Mixer

- Four balanced Mic/Line channels and four stereo Line channels
- 3-band EQ on each mono channel
- 75 Hz low-cut filter on mono channels
- AUX sends on every channel
- Stereo RCA 2T and Record I/O
- Global +48V phantom power for Mic inputs
- Stereo AUX cue for monitoring individual channels
- High-volume headphone output
- Flexible 2T Return routing buttons
- Dual 5-segment level meter
- Balanced 1/4" TRS outputs
- Balanced master output with 60 mm fader control

245 x 86 x 271 mm
(9.7" x 3.4" x 10.7")
2.6 kg (5.73 lbs)

MU 1202X
12-Input Compact Mixer with DFX

- Four balanced mono Mic/Line channels
- Four stereo Line channels each with +4/-10 level matching
- DFX, our 32/40-bit digital multi effect processor with 16 programs plus one main parameter control and tap delay
- 3-band EQ and 75 Hz low-cut filter on every mono channel
- AUX send control on every channel strip
- Stereo RCA 2T return and Record I/O
- Global +48V phantom power for Mic inputs
- Master EFX controls with EFX to Monitor
- High-volume headphone output
- Balanced master output with 60 mm fader control

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Rack-mounting kit included

MU 1722X
17-Input 2-Bus Compact Mixer with DFX

- Four balanced mono Mic/Line channels with inserts
- Four stereo Line input channels, two with Mic inputs
- DFX, our 32/40-bit digital multi effect processor with 16 programs plus one main parameter control and tap delay
- 3-band EQ with swept mid-range on mono channels
- 75 Hz low-cut filter on all mono channels
- Two AUX sends per channel, one with Pre/Post switch
- Two stereo AUX returns with effect to monitor control
- Global +48V phantom power for Mic inputs
- Mini stereo and stereo RCA I/O, Record output with trim control
- Solo feature on each input and output
- Two true subgroups with main L and R routing switches
- Built-in switching power supply with universal connector, 100-240 VAC, 50/60Hz

300 x 89 x 340 mm (11.8" x 3.5" x 13.4")
4.2 kg (9.25 lbs)

MU 1822X
18-Input 2-Bus Compact Mixer with Graphic EQ and DFX

- Six Mono Mic/Line channels with inserts
- 8 Mic preamps in total
- Four stereo Line channels, including two dual function Mic/Line stereo channels
- DFX, our 32/40-bit digital multi effect processor with 16 programs plus one main parameter control and tap delay
- 3-band EQ with swept mid-range on all mono channels
- 75 Hz low-cut filter on all Mic channels
- Three AUX sends on each channel, one with Pre/Post switch
- Two stereo AUX returns with effect to monitor level control
- Mini stereo and stereo RCA I/O, Record out with trim control for level matching
- Global +48V phantom power for Mic inputs
- Solo feature on each input and output
- Stereo 7-band graphic EQ, assignable to main mix or AUX 1 send
- Two true subgroups with main L and R routing switches
- Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz

407 x 89 x 357 mm (16" x 3.5" x 14")
4.8 kg (10.6 lbs)

MU 2442X
24-Input 4-Bus Rack Mixer with DFX

- 8 mono Mic/Line channels with inserts
- 4 stereo channels, two with mic inputs
- 10 Mic preamps in total
- DFX, our 32/40-bit digital multi effect processor with 16 programs plus one main parameter control and tap delay
- 3-band EQ with swept mid-range on mono channels, 4-band EQs on stereo channels
- 75 Hz low-cut filter on all Mic channels
- Four AUX sends, AUX 1 & 2 with Pre/Post switch
- Four stereo AUX returns, two with effect to monitor
- Pad on 4 mono channels to handle difficult signals
- Mini stereo and stereo RCA I/O, Record out with trim control
- Global +48V phantom power for Mic inputs
- Mono button on main L/R out
- Four true subgroups with main L and R routing switches and double-bused outs
- Eight direct outputs for multi-track recording
- Individual headphones, control room monitors and solo level control
- Control Room and Phones outputs with multi-input source matrix
- Built-in switching power supply with universal connector, 100-240 VAC, 50/60 Hz

418 x 140 x 438 mm (16.5" x 5.5" x 17.2")
5.9 kg (13 lbs)

* See Appendix III on page 32 for full specifications

AM SERIES

156 x 51 x 244 mm
(6.2"x 2" x 9.6")
1.1 kg (2.4 lbs)

190 x 56 x 233 mm
(7.5"x2.2" x 9.2")
1.5 kg (3.3 lbs)

190 x 56 x 233 mm
(7.5"x2.2" x 9.2")
1.5 kg (3.3 lbs)

AM 120 MKII
1 Mic/Line 2 Stereo Input Compact Mixer

■ Audiophile-quality mic preamps & ultra
low noise
■ 1 mic/line and 2 stereo channels
■ 2-Band EQ on mono input channel
■ 2T RTN & 2T REC for CD or tape
recorder
■ Dual 4-segment master level meter
■ Headphones output with volume control
■ Peak LED on mono input channel
■ Balanced master output

AM 220
2 Mic/Line 2 Stereo Input Compact Mixer

■ Audiophile-quality & ultra low noise
■ Two balanced Mic/Line inputs with 3-band EQ
■ Two stereo inputs with 3-band EQ
■ One stereo AUX return
■ Post-fader EFX send on every input
■ Peak and VU Metering
■ Peak indicators on each mono input channel
■ 2T RTN assignable individually to Main or
Control room
■ Balanced master output with 60mm fader
control

AM 240
2 Mic/Line 4 Stereo Input Compact Mixer

■ Audiophile-quality & ultra low noise
■ Two balanced Mic/Line inputs with 3-band EQ
and low cut
■ Four stereo inputs with +4/-10 select button
■ Post-fader AUX send on every input
■ Global +48V Phantom Power
■ CTRL RM and headphones outputs
■ Peak indicators on each mono input channel
■ Convenient RCA stereo I/O for MD, MP3 player.
■ Balanced master output with 60mm fader control

190 x 56 x 233 mm
(7.5" x 2.2" x 9.2")
1.5 kg (3.3 lbs)

242 x 55 x 255 mm
(9.5"x2.2" x 8.9")
1.7 kg (3.8 lbs)

AM 240D
2 Mic/Line 4 Stereo-in Compact Mixer with EFX

■ Audiophile-quality & ultra low noise
■ Two balanced Mic/Line inputs with 3-band EQ and low cut
■ Four stereo inputs with +4/-10 select button
■ Post-fader AUX send on every input
■ 32/40-bit DSP with 100 EFX + creative Tap-delay
■ Separated EFX route control assignable to main or monitor
■ Global +48V Phantom Power
■ Peak indicators on each mono input channel
■ Convenient RCA stereo I/O for MD, MP3 player.
■ Stereo EFX send cue for better monitoring individual channel
■ Balanced master output with 60mm fader control

AM 440
4 Mic/Line 4 Stereo Input Compact Mixer

■ Audiophile-Quality & ultra low noise
■ 4 mono mic/line channels
■ 4 stereo channels
■ AUX send on each channel
■ 75Hz low-cut filter on mono channel
■ 3-band EQ on each channel
■ +48V phantom power on mic channels
■ Control room/Phones source matrix for maximum
monitor flexibility
■ EFX/AUX send cue for monitoring individual channel
■ Balanced master output with 60mm fader control

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* See Appendix III on page 32 for full specifications

Rack-mounting kit included

242 x 55 x 255 mm
(9.5" x 2.2" x 8.9")
1.7 kg (3.8 lbs)

300 x 89 x 340 mm
(11.8" x 3.5" x 13.3")
4.2 kg (9.3 lbs)

AM 440D
4 Mic/Line 4 Stereo-in Compact Mixer with EFX

- Audiophile-Quality & ultra low noise
- 4 mono mic/line channels
- 4 stereo channels
- AUX send on each channel
- 75Hz low-cut filter on mono channel
- 3-band EQ on each channel
- 32/40-bit DSP with 100 EFX + Tap-delay
- Separated EFX route control
- 2T return can be routed to Main or Control room individully
- +48V phantom power on mic channels
- EFX/AUX send cue for monitoring individual channel
- Balanced master output with 60mm fader control

AM 442D
4 Mic/Line 4 Stereo 2 Group Mixer with DFX

- Audiophile-quality & ultra low noise
- 4 Mic/Line channels with inserts and phantom power
- 4 stereo channels with 4-band EQ
- 3-band EQ with swept mid-range plus low cut on each mono channel
- 2 Aux sends, Aux1 with Pre/Post switch
- 32/40-bit digital stereo multi-effect processor with 100 programs + Tap delay
- 2 true subgroups with main L and R routing switches
- 2 stereo aux returns with effect to monitor level control
- Solo feature on each input and output
- XLR connectors available on main L / R output
- Convenient stereo RCA I/O 2T input with level control
- Built-in switching power supply with universal connector, 100-240VAC, 50/60Hz

Rack-mounting kit included

Rack-mounting kit included

407 x 89 x 357 mm
(16" x 3.5" x 14")
4.8 kg (10.6 lbs)

418 x 140 x 438 mm
(16.5" x 5.5" x 17.2")
5.9 kg (13 lbs)

AM 642D
6 Mic/Line 4 Stereo 2 Groups 9-Band GEQ 100+Tap EFX Mixer

- Audiophile-quality & ultra low noise
- 6 Mic/Line channels with inserts and phantom power
- 4 stereo channels with 4-band EQ
- 3-band EQ with swept mid-range plus low cut on each mono channel
- 3 Aux sends, one with Pre/Post switch
- 32/40-bit digital stereo multi-effect processor with 100+ tap delay plus foot switch jack
- Stereo 9-band graphic EQ, assignable to main mix or aux 1 send
- 2 true subgroups with main L and R routing switches
- 2 stereo aux returns with effect to monitor level control
- Solo feature on each input and output
- XLR connectors available on main L / R output
- Built-in switching power supply with universal connector, 100-240VAC, 50/60Hz

AM 844D
8 Mic/Line 4 Stereo 4 Groups 100+Tap EFX Mixer

- Audiophile-Quality & ultra low noise
- 8 Mic/Line channels with inserts and phantom power
- 4 stereo channels with 4-band EQ
- 4 true subgroups with main L and R routing switches and double-bused outs
- Direct outputs for multi-track recording
- 3-band EQ with swept mid-range plus low cut on each mono channel
- 18dB/oct, 75Hz low cut filter on each mic channels
- 4 aux sends, aux 1 & 2 with Pre/Post switch
- 32/40-bit digital stereo multi-effect processor with 100+ tap delay plus foot switch jack
- 4 stereo aux returns, 2 with effect to monitor
- Headphones, control room monitors and solo level control
- Control Room and Phones outputs with multi-input source matrix
- Built-in switching power supply with universal connector, 100-240VAC, 50/60Hz
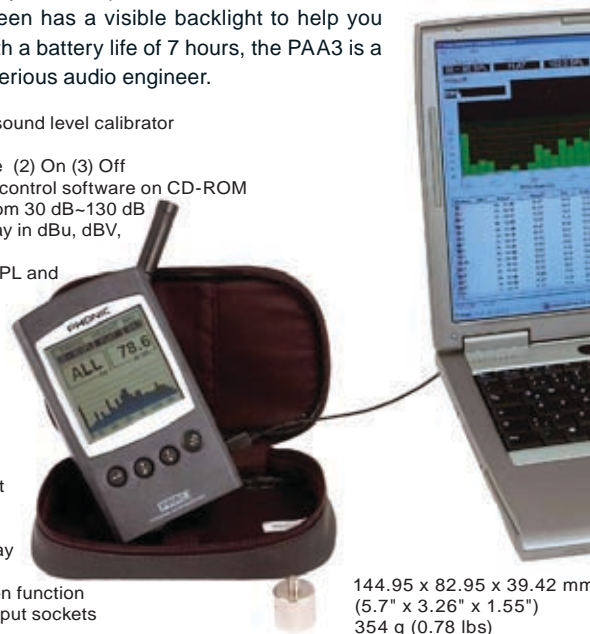
PAA3

Handheld Audio Analyzer with USB 2.0 Interface

The PAA3 is a highly accurate handheld audio analyzer that gives sound engineers a rich array of sound analysis tools. Features include 31-band real time spectrum analysis, RT60, SPL and line meter, internal generator, EQ setting program, microphone calibration and speaker phase checking abilities. All functions and menus can be accessed through a central jog dial, leaving your other hand free to adjust audio settings. Easily upload information and settings to your computer via the built-in USB interface. The large LCD screen has a visible backlight to help you see in dark environments. With a battery life of 7 hours, the PAA3 is a multifunctional tool for every serious audio engineer.

- SPL meter calibration through sound level calibrator
- 4 standard response time
- 3 power modes: (1) Power Save (2) On (3) Off
- Audio test signals and desktop control software on CD-ROM
- Sound Pressure Level Meter from 30 dB~130 dB
- Line signal measurement display in dBu, dBV, or Volts (AC)
- 3 level range selection for dB SPL and line signal
- Maximum level display
- Peak hold display
- Adapter operation available
- 7 hours continuous operation with 4 AA batteries
- 31-band Real Time Spectrum Analyzer
- RT60 measurement
- Built-in calibrated measurement microphone
- Phase checker
- 31-band EQ setting value display (Boost/Cut)
- Memory and average calculation function
- USB 2.0 and XLR input and output sockets
- Noise generator with pink noise, 1 kHz and polarity test signal, balanced output

144.95 x 82.95 x 39.42 mm
(5.7" x 3.26" x 1.55")
354 g (0.78 lbs)

	PAA3	
Inputs/Outputs	√	**Built-in Omni-directional Mic**
	√	**XLR Jacks (input and output)**
	√	**USB Interface**
Display	160 x 160	
Measurement Range	30 to 130 dB SPL	**SPL (Mic Input)**
	-50 to +40 dBu	**dBu (Line Input)**
	-52 to +38 dBV	**dBV (Line Input)**
	5 mV to 80 V	**Voltage (Line Input)**
Settings	A, C or Flat	**Weighting**
	ON/OFF	**Peak Hold**
	RESET	**Maximum Level Display**
	35ms, 125ms, 250ms, 1sec	**Response Time**
Noise Generators	√	**Pink noise**
	√	**1 kHz Signal**
	√	**Polarity Signal**
Other Functions	√	**31-band RTA**
	√	**Average Calculation**
	√	**Phase Checker**
	√	**Reverb Time Analyzer (RT60)**
	√	**Memory**
	√	**EQ Setting Value Display**
Power Source	4 x AA batteries	
Battery Life	Up to 7 hours	

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New

174.5 x 40 x 105.5 mm
(6.89" x 1.57" x 4.17")
465 g (1 lbs)

PAA6
2-Channel Audio Analyzer with Color Touch LCD

The PAA6 is the latest and the greatest in Phonic's popular handheld audio analyzer series. All functions and menus are easily accessed through a 480 x 272 color touch-screen display. The PAA6 incorporates significantly improved versions of real time spectrum analyzer, RT60, tone generator, LEQ, EQ setting and Phase checking from the PAA3. Moreover, the PAA6 audio tester provides engineers with an even wider array of essential sound analysis tools than ever before - now adding FFT, THD+N, Polarity and Scope functions to the mix, as well as two built-in mics that can take highly accurate measurements from multiple positions in any given room. A USB 2.0 connector and SD card slot have been included to assist in transferring information to and from your computer. This feature-rich, portable audio tester is sure to satisfy even the most discerning professional audio engineer.

- Powerful dual channel palm-size audio analyzer
- 480 x 272 color LCD touch screen
- Two built-in measurement condenser mics
- Tone generator includes pink noise, white noise, sine wave, sweep, polarity, triangle and square
- Useful functions include RTA, LEQ, RT-60, FFT, THD+N, Polarity, Phase, Scope and Meter (dB SPL, dBu, dBV, Volt)

- Elegant graphical user interface
- Long-lasting rechargeable lithium-ion battery system
- USB 2.0 port and SD card slot included for storing and retrieving data
- 30 to 130 dB SPL meter
- ANSI S1.4 Type 2 & IEC 61672 Type 2

Microphone	Built-in condenser mic x2	
Display	480 x 272, 16-bit, full color touch screen	
Inputs / Outputs	XLR input x2 (Balanced/Unbalanced), XLR output x1 (Servo Balanced)	
Interface	USB High Speed 2.0 Interface	
Display	480 x 272, 16-bit, full color touch screen	
Input Methods	Microphone / Line Inputs	
Test Units	dB SPL, dBu, dBV, Volt (for most functions)	
RTA	Frequency	20 Hz ~ 20 KHz, All Frequencies
	EQ Setting	EQ Cut or Boost
	Subtract / Sum	CH1+CH2, CH1-CH2, CH2-CH1
	Peak Hold	Off, 0.5 ms, 1 Sec, 2 Sec, 4 Sec, Continue
	Frequency Detect	On, Off
	Dynamic Range	30 ~130 dB. 60dB display range, eg. 70~130, 60~120, 50~110
	dB-scale setting	+/- 5dB steps on Y-Axis
	Octave	1/1, 1/3, 2/3, 1/6
	Weighting	A. B. C. Flat
FFT	Frequency Range	13 selectable bandwidths
	Subtract / Sum	CH1+CH2. CH1-CH2. CH2-CH1
	Peak Hold	Off, 0.5 ms, 1 Sec, 2 Sec, 4 Sec, Continue
	Frequency Detect	On , Off
	Octave	1/1, 1/3, 2/3, 1/6
	Weighting	A, B, C, Flat
RT-60	Trigger	Internal , External
	Weighting	A. B. C. Flat. 1 Octave
THD+N	Unit	dB SPL, dBu, dBV, Volt
Meter	Level Range	30~130 dB SPL, -85~25 dBu, -87.2~22.8 dBV, 0.0436mV~13.8V
	Max	Peak Hold
Phase	Phase Degree	Phase Correlation (out of phase or in phase)
Oscillator Scope	Trigger	CH1, CH2, CH1+CH2
	Mode	Auto , Normal
Polarity	Polarity checker	Negative, Positive
LEQ	Weighting	A, B, C, Flat
	Selectable Frequency	31.5Hz, 63Hz, 125Hz, 250Hz, 500Hz, 1KHz, 2KHz, 4KHz, 8KHz, 16KHz

POWERPOD SERIES

Built to meet remarkably high standards, the Powerpod powered mixers from Phonic feature super-smooth controls, low noise, brawny amplification, and sturdy constructions for maximum reliability. The series begins with the entry level Powerpod 410 and advances to the more sophisticated Powerpods K-12 Plus and K-16 Plus, giving musicians more flexibility, functions and power to cater to larger audiences. Phonic has designed the entire Powerpod series with varying input numbers, different signal routing capabilities, and various amplification levels - ensuring there is a perfect Powerpod for everyone, depending on venue size, the size of the audience and the different needs of Musicians and engineers.

POWERPOD 410
100W 4-Channel Powered Mixer with Variable Delay

- 100W output power
- 4 Mic/Line channels
- Variable digital delay with time and repeat control
- Amplifier power assignable with additional 1/4" stereo jack
- Stereo RCA 2T Return and Record I/O
- Super musical 2-band EQ on mono channels

POWERPOD 620 PLUS
200W 6-Channel Powered Mixer with DFX

- 100W + 100W / 4 ohms dual channel power amplifier for Main 1/2 or Main/Monitor (Bridge Mono, 200W / 8 ohms)
- 32/40-bit digital multi-effect processor with 16 programs plus parameter control
- Six balanced Mic inputs and eight Line inputs
- Two Super Hi-Z inputs optimized for direct instrument input
- 2-band EQ on input channels
- 7-band master graphic EQ
- Pad control on channels 1 to 4
- AUX input
- Stereo RCA I/O
- Global +48V phantom power for Mic inputs
- Built-in limiters
- Monitor and effect sends on each input channel
- Drive level / Effect out master control to the input of built-in effect processor

POWERPOD 740 PLUS
440W 7-Channel Powered Mixer with DFX

- 220W + 220W / 4 ohms dual channel power amplifier for Main 1/2 or Main/Monitor (Bridge Mono, 440W / 8 ohms)
- 32/40-bit digital multi-effect processor with 16 programs plus parameter control
- Seven balanced Mic inputs
- 10 Line inputs
- Two super Hi-Z inputs optimized for direct instrument input
- 3-band channel EQ
- Dual 7-band graphic equalizers with In/Out switches for Main L/R or Main/Monitor
- Rumble filters for Mic inputs
- Pad control on channels 1-4
- One AUX input
- Monitor and effect sends on each input channel
- Global +48V phantom power for Mic inputs
- Two built-in limiters
- Rec out with trim control for record level matching
- Mains power switchable between 115 VAC and 230 VAC

See Appendix IV on page 33 for full specifications

POWERPOD 780 *PLUS*
600W 7-Channel Powered Mixer with DFX

- 300W + 300W / 4 ohms dual channel power amplifier for Main 1/2 or Main/Monitor
- 32/40-bit digital effect processor with 16 programs plus one main parameter control
- Seven balanced Mic inputs
- 10 Line inputs
- Two super Hi-Z inputs optimized for direct instrument input
- 3-band channel EQ
- Dual 7-band graphic equalizers with In/Out switches for Main L/R or Main/Monitor
- Rumble filters for Mic inputs
- Pad control on channels 1-4
- One AUX input
- Monitor and effect sends on each input channel
- Global +48V phantom power for Mic inputs
- Two built-in limiters
- Rec out with trim control for record level matching
- Mains power switchable between 115 VAC and 230 VAC

POWERPOD 820
200W 8-Channel Powered Mixer with DFX

- Built-in 100W + 100W stereo power amplifier
- DFX, our 32-bit digital multi-effect processor with 16 programs plus one main parameter control
- Four balanced Mic/Line channels with inserts
- Two stereo Line channels
- 3-band EQ on each channel
- Global +48V phantom power for Mic inputs
- 75Hz low-cut filter on mono channels
- Extra ALT 3-4 stereo bus
- Two AUX sends per channel
- Two stereo AUX returns
- AUX Cue allows from 1 to 8 channels to be independently monitored in stereo
- Master AUX section with EFX to Monitor
- Mini stereo and stereo RCA input and output
- Rec Out with trim control for record level matching
- Control Room/Phones source matrix
- High-volume headphone output

POWERPOD 865 *PLUS*
600W 8-Channel Powered Mixer with Dual Graphic EQ & DFX

- 300W + 300W / 4 ohms stereo power amplifier for Main L/R or Main/Monitor (Bridge mono, 600W / 8 ohms)
- Dual position 45 degree angular molded cabinet
- Tripod-stand mountable for easy, eye-level operation
- Vocal eliminator for karaoke application
- Two Super Hi-Z inputs optimized for direct instrumental input
- DFX, our 32-bit digital multi-effect processor with 16 preset programs plus one main parameter control
- Wireless Mic module slot
- 8 balanced Mic inputs
- 10 Line inputs
- 3-band channel EQ (two channels with swept mid-range)
- Dual 7-band graphic equalizers with feedback detection system
- Pad control on channels 1-6
- Monitor and effect sends on each input channel
- Stereo AUX input
- Global +48V phantom power for Mic inputs
- sPs for smoother high frequencies and enhanced low-end output
- Two built-in limiters

POWERPOD 885 *PLUS*
800W 8-Channel Molded Powered Mixer with Graphic EQ and DFX

- Dual 45 degree angular molded cabinet
- 400W + 400W / 4 Ohms stereo power amplifier for Main L/R or Main/Monitor (Bridge mono, 800W / 8 Ohms)
- Dual DFX, our 32-bit digital multi-effect processor with 16 programs plus parameter control
- Wireless Mic module slot
- 8 balanced Mic inputs
- 10 Line inputs
- Two super Hi-Z inputs optimized for direct instrument inputs
- 3-band channel EQ (two channels with sweepable mid-range)
- Dual 7-band graphic equalizers with feedback detection system
- Pad control on channels 1-6
- Monitor and effect sends on each input channel
- Stereo AUX input
- Global +48V phantom power
- Vocal eliminator for karaoke application
- sPs for smoother high frequencies and enhanced low-end output on Speakers
- Two built-in limiters
- Rec out with trim control for record level matching
- Speakon-type connectors and 1/4" phone jacks for speaker connection

POWERPOD 1062 PLUS
600W 10-Channel Powered Mixer with DFX

- 300W / 4 ohms stereo power amplifier for Main L/R or Mono/Monitor
- DFX, our 32/40-bit digital multi-effect processor with 16 programs plus parameter control
- 9 balanced Mic inputs
- 12 Line inputs
- Two super Hi-Z inputs optimized for direct instrument inputs
- 3-band EQ on channels 1 through 9
- Dual 8-band graphic equalizers with in/out switches for Main L/R and Monitor or Main L/R
- Rumble filters for Mic inputs
- Pad control on channels 1-6
- Monitor and effect sends on each input channel
- Global +48V phantom power for Mic inputs
- Two built-in limiters
- Rec out with trim control for record level matching
- Mains power switchable between 115 VAC and 230 VAC

POWERPOD 1082 PLUS
800W 10-Channel Powered Mixer with DFX

- 400W / 4 ohms stereo power amplifier for Main L/R or Mono/Monitor
- DFX, our 32/40-bit digital multi-effect processor with 16 programs plus parameter control
- 9 balanced Mic inputs
- 12 Line inputs
- Two super Hi-Z inputs optimized for direct instrument inputs
- 3-band EQ on channels 1 through 9
- Dual multi-band graphic equalizers with in/out switches for Main L/R and Monitor or Main L/R
- Rumble filters for Mic inputs
- Pad control on channels 1-6
- Monitor and effect sends on each input channel
- Global +48V phantom power for Mic inputs
- Two built-in limiters
- Rec out with trim control for record level matching
- Mains power switchable between 115 VAC and 230 VAC

POWERPOD 1860 PLUS
800W 12-Ch Powered Mixer with Graphic EQ, DFX

- 400W + 400W / 4 ohms stereo power amplifier (bridgeable and patchable)
- DFX, our 32/40-bit digital multi-effect processor with 16 programs plus parameter control and foot switch jack
- 8 balanced Mic inputs with inserts
- Total of 12 Line inputs
- Two stereo Line input channels capable of accepting RCA/Phone inputs
- 3-band channel EQ
- Stereo 7-band graphic EQ
- Four AUX sends (AUX 1/2 are pre-fader and EFX 1/2 are post-fader)
- Two stereo AUX returns, each can be routed to AUX 1 & 2 sends (effect to monitor)
- Stereo RCA I/O for CD/TAPE external sources
- Grouped +48V real phantom power for broader application
- Mono output for extra zone filling or as subwoofer processing source
- PFL on each input and AFL on each output
- Standby switch to mute channels 1 through 12 for playing music between sets
- Zone 2 output for side fill or another PA system
- Headphone/control room output with rotary level control
- One professional Speakon-type jack and two 1/4" jacks per channel for speaker connection
- Rugged metal main chassis with integrated handle
- Molded protective cover prevents scratching or damage to mixer
- Mains power switchable between 115 VAC and 230 VAC

* See Appendix IV on page 33 for full specifications

POWERPOD K-12 PLUS

1000W 12-Channel Powered Mixer with Graphic EQ and Dual DFX

- 500W + 500W / 4 ohms stereo power amplifier (bridgeable and patchable)
- Dual DFX, our 32/40-bit digital effects processor with 16 programs plus parameter control
- 8 balanced Mic inputs (8 with inserts)
- 12 Line inputs
- Two stereo input channels with 1/4" and RCA inputs
- 3-band channel EQ with swept mid-range
- Stereo 7-band graphic EQ
- Four AUX sends (AUX 2 can be set to pre- or post-fader)
- Two stereo returns - each can be routed to AUX 1 & 2 sends (effect to monitor)
- Global +48V phantom power for Mic inputs
- Mono output with variable low pass filter from 60 Hz up to 160 Hz
- PFL on each input and AFL on each output
- Standby switch for playing music between sets
- Zone 2 output for side fill or another PA system
- Headphone output with separate rotary level control
- One Speakon-type connector and two 1/4" phone jacks per channel for speaker connection
- Molded protective cover prevents scratching or damage to mixer
- Rugged metal main chassis with integrated handle

POWERPOD K-16 PLUS

1000W 16-Channel Powered Mixer with Graphic EQ and Dual DFX

- 500W + 500W / 4 ohms stereo power amplifier (bridgeable and patchable)
- Dual DFX, our 32/40-bit digital effects processor with 16 programs plus parameter control
- 12 balanced Mic inputs (12 with inserts)
- 16 Line inputs
- Two stereo Line input channels
- 3-band channel EQ with swept mid-range
- Stereo 7-band graphic EQ with feedback detection system
- Four AUX sends (AUX 2 can be set to pre- or post-fader)
- Two stereo returns - each can be routed to AUX 1 & 2 sends (effect to monitor)
- Global +48V phantom power for microphone inputs
- Vocal eliminator for karaoke application
- sPs for smoother high frequencies and enhanced low-end output on speakers
- Mono output with variable low pass filter from 60 Hz up to 160 Hz
- PFL on each input and AFL on each output
- Standby switch for playing music between sets
- Zone 2 output for side fill or another PA system
- Headphone output with separate rotary level control
- One Speakon-type connector and two 1/4" phone jacks per channel for speaker connection
- Molded protective cover prevents scratching or damage to mixer
- Rugged metal main chassis with integrated handle

KA920

460W Karaoke Powered Mixer

- 2 x 460W @ 4 ohms
- 2 x 300W @ 8 ohms
- 32/40-Bit DSP reverb and professional digital echo for superior vocal enhancement
- +/- 8-Step Digital Key Controller changes the key of the music without changing the tempo
- On-board video switching with four sets of A/V Inputs, two audio outputs and two video outputs
- Gain and Echo Send control on each microphone input
- Ch 1-4 Mic inputs each with individual 3-band EQ
- One AUX output and one stereo AUX input
- 3-band EQ on music input
- Balance control on master Music and Mic sections
- High, Mid, Low controls on Music source input
- Individual Master Microphone and Music volume controls
- Multi-functional remote control
- Switching-mode power supply
- 3 RU rack mountable

PHONIC

ICON SERIES

Icon Series power amplifiers are designed with the needs of sound contractors in mind. The binding post outputs allow for connection to standard low impedance speakers. Barrier strip outputs enable 25V, 70V and 100V Line operation. Each amplifier channel has a separate toroidal secondary transformer that provides full electrical isolation and ensures maximum audio separation. Features like power up muting, full short-circuit temperature, DC offset protection and a built-in 45 Hz subsonic filter, combine to make the Icon Series an attractive, cost effective solution for any audio installation.

- **Barrier strip connection determines output mode: 25V, 70V, 100V and low impedance outputs available simultaneously**
- **Rear panel detented gain controls**
- **Stereo, bridge, and parallel operating modes**
- **XLR inputs and outputs for easy signal pass through in multi-amp setups**
- **Built-in 45 Hz subsonic filter prevents speaker transformer saturation with minimal effect on program material**

ICON 300
300W Contractor Amp

132 x 480 x 428 mm (5.2" x 18.9" x 16.9")
20.2 kg (44.5 lbs)

- Output power: 2 x 150W @ 70V or 100V
- Automatic dual-speed, high-efficiency cooling fan
- XLR and barrier strip inputs
- Full short-circuit, temperature and DC offset protection
- Toroidal output transformers provide full electrical isolation and meet worldwide safety standards

ICON 700
700W Contractor Amp

132 x 480 x 428 mm (5.2" x 18.9" x 16.9")
24.3 kg (53.5 lbs)

- Output power: 2 x 350W @ 70V or 100V
- Automatic dual-speed, high-efficiency cooling fan
- XLR and barrier strip inputs
- Full short-circuit, temperature and DC offset protection
- Toroidal output transformers provide full electrical isolation and meet worldwide safety standards

	ICON 300	ICON 700	
Output Power	300W + 300W	550W + 550W	2Ω stereo
	200W + 200W	400W + 400W	4Ω stereo
	540W	1100W	4Ω bridge
Constant Voltage Output	150W + 150W	350W + 350W	100V or 70V
	120W + 120W	280W + 280W	25V
Frequency Response	50Hz-50KHz		
Inputs	√	√	Barrier Strip
	√	√	XLR
Outputs	√	√	Barrier Strip
Protection	√	√	Thermal
	√	√	Short Circuit
	√	√	DC Offset
Size (Rack Space Units)	2	2	
Weight	20.2Kg(44.5lbs)	24.3Kg(53.5lbs)	

PHONIC
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XP SERIES

Built around robust and advanced toroidal transformers, Phonic XP Series power amplifiers deliver clean power on demand. The advanced protection circuitry guards against short circuit and open circuit, and also protects against ultrasonic and RF interference. A dual mono, high current power supply increases reliability and performance, and the variable speed fans effectively cool the amp with rear to front air flow and protect against overheating. Phonic's XP Power Amplifiers are specially designed for professionals who value high power, audio clarity, reliability and lasting performance.

- **High continuous current output from robust toroidal transformer**
- **Switchable input peak limiter and selectable high pass filter (30Hz, 50Hz) to reduce distortion and protect speakers**
- **Bridge mono and parallel mode LEDs**
- **Fast Recovery design for lower distortion if clipping occurs**
- **Active balanced inputs for low noise**
- **Front mounted detented gain controls for easy access**
- **Signal level at -40, -20, -10, protect and clip LED indicators to monitor performance**

- **Ground Lift switch to prevent humming**
- **Ventilation through variable speed fans**
- **Selectable stereo, parallel & bridge mono amp modes**
- **Speakon-type connectors and binding post speaker outputs**
- **XLR & 1/4" TRS connectors for maximum input flexibility**
- **Advance protection circuitry guards against: short circuit, open circuit, thermal, ultrasonic, and RF protection, stable into mismatched loads, on/off muting, DC fault output crowbar**

XP 1000
1120W Power Amp

- Output Power: 560W @ 2 ohms stereo, 440W @ 4 ohms stereo
- Requires two standard rack units for mounting

XP 2000
1920W Power Amp

- Output Power: 960W @ 2 ohms stereo, 660W @ 4 ohms stereo
- Requires two standard rack units for mounting

XP 3000
2800W Power Amp

- Output Power: 1400W @ 2 ohms stereo, 1100W @ 4 ohms stereo
- Requires three standard rack units for mounting

XP 3100
2800W Power Amp with Subwoofer

- Output Power: 1400W @ 2 ohms stereo, 1100W @ 4 ohms stereo
- XLR & 1/4" TRS connectors for maximum input flexibility
- Two low pass filters with selectable frequencies at 60, 90 or 120 Hz for subwoofer use
- Requires three standard rack units for mounting

XP 5000
5000W Power Amp

- Output Power: 2500W @ 2 ohms stereo, 1800W @ 4 ohms stereo
- High-current toroidal transformers for greater two-ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- XLR, 1/4" and barrier strip inputs all included
- Requires three standard rack units for mounting

XP 5100
5000W Power Amp with Subwoofer

- Output Power: 2500W @ 2 ohms stereo, 1800W @ 4 ohms stereo
- Two low pass filters with selectable frequencies at 60, 90 or 120 Hz for subwoofer use
- High-current toroidal transformers for greater two-ohm power and low noise
- Independent user-defeatable clip limiters reduce distortion
- XLR, 1/4" and barrier strip inputs all included
- Requires three standard rack units for mounting

MAX SERIES

All 5 of the Phonic MAX series power amplifiers provide a range of different power options and are big on added features. Input to the MAX amps is achieved via the XLR and 1/4" jacks, and output is achieved through either the professional standard speakon connectors or traditional binding posts. Common to all models are such features as ground switches, user defeatable clip limiters, selectable high pass filters, as well as the ability to choose stereo, parallel or bridge operating modes. All of this, plus the high efficiency circuitry design and ultra-cool operation makes the MAX series amplifiers ideal for real world, large scale application.

MAX 250
160W Power Amp

- Output power: 80W @ 4 ohms stereo, 60W @ 8 ohms stereo
- Studio quality performance with very low noise and wide dynamic range
- Class H high efficiency circuitry design
- Ultra-low total harmonic distortion
- High damping factor provides exceptional loudspeaker motion control
- Detented level controls for precise repeatability
- Signal and CLIP indicators to monitor performance
- Short circuit, thermal, subsonic, RF protection, output DC offset, over-heat protection and power on/off muting
- Convection cooling system dissipates heat through the heat sink and chassis for noise-free operation
- One rack unit

MAX 500
240W Power Amp

- Output power: 120W @ 4 ohms stereo, 90W @ 8 ohms stereo
- Studio quality performance with very low noise and wide dynamic range
- Class H high efficiency circuitry design
- Ultra-low total harmonic distortion
- High damping factor provides exceptional loudspeaker motion control
- Detented level controls for precise repeatability
- Signal and CLIP indicators to monitor performance
- Protect indicator
- Short circuit, thermal, subsonic, RF protection, output DC offset, over-heat protection and power on/off muting
- Convection cooling system dissipates heat through the heat sink and chassis for noise-free operation
- One rack unit

MAX 860 *PLUS*
600W Power Amp

- Output power: 300W @ 4 ohms stereo, 200W @ 8 ohms stereo
- High-current toroidal transformers for greater power and low noise
- Balanced XLR and 1/4" phone jack inputs
- Binding post and Speakon-type outputs
- Front mounted gain controls for easy access
- Signal and Peak LED indicators to monitor performance
- Short circuit, thermal, subsonic, RF protection, output DC offset
- Power on/off muting
- Grounding / Floating switch to avoid grounding loop

MAX 1500 *PLUS*
900W Power Amp

- Output power: 450W @ 4 ohms stereo, 280W @ 8 ohms stereo
- High-current toroidal transformers for greater power and low noise
- Balanced XLR and 1/4" phone jack inputs
- Binding post and Speakon-type outputs
- Front mounted gain controls for easy access
- Signal and Peak LED indicators to monitor performance
- Short circuit, thermal, subsonic, RF protection, output DC offset
- Power on/off muting
- Grounding / Floating switch to avoid grounding loop

New

MAX 2500 *PLUS*
1500W Power Amp

- Output power: 750W @ 4 ohms stereo, 500W @ 8 ohms stereo
- High-current toroidal transformers for greater power and low noise
- Balanced XLR and 1/4" phone jack inputs
- Binding post and Speakon-type outputs
- Front mounted gain controls for easy access
- Signal and Peak LED indicators to monitor performance
- Short circuit, thermal, subsonic, RF protection, output DC offset
- Power on/off muting
- Grounding / Floating switch to avoid grounding loop

PHONIC
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NEXUS SERIES

The Nexus Active Subwoofers are 15" subs built into stylish, molded enclosures specially designed for maximum bass dispersion. With 450 Watt amplifiers built in, the Nexus subwoofers offer high sound pressure levels with versatile operation through the included XLR inputs and outputs. The Nexus 935SB increases flexibility further by offering two powered outputs able to provide 200 Watts of power to two full-range speakers. All these features, plus the built-in protection circuitry, combine to make the Nexus Subwoofers the most reliable and versatile available.

New

645 x 495 x 440 mm (25.4" x 19.5" x 17.3")
24 kg (52.9 lbs)

NEXUS 915SB
450W Active 15" Subwoofer

- ■ Built-in 450 Watt (RMS) amplifier
- ■ Balanced XLR input and output
- ■ Built-in protection circuitry
- ■ Lightweight cabinet with dynamic sound
- ■ 128 dB Max SPL (1 Watt @ 1 meter)
- ■ 22k ohm input impedance
- ■ 35mm pole mounting point

NEXUS 935SB
250W Active 15" Subwoofer Plus 2x100W for External Full Range Speakers

- ■ Built-in 250 Watt (RMS) amp for the subwoofer and 2 x 100 Watts (RMS) for external full range speakers
- ■ Balanced XLR input and output
- ■ Two 1/4" phone jack outputs for powering passive full-range speakers with 100 Watts (per channel)
- ■ Built-in protection circuitry
- ■ Lightweight cabinet with dynamic sound
- ■ 123 dB Max SPL (1 Watt @ 1 meter)
- ■ 22k ohm input impedance
- ■ 35mm pole mounting point

	Nexus 915SB	Nexus 935SB	
Output RMS	450W	250W + 100W x 2	
Frequency Response	30 Hz - 150 Hz	38 Hz - 150 Hz	
Woofer	15"	15"	
Tweeter	-	-	
Inputs	-	√	XLR
	√	√	1/4" Phone Jacks
Output	√	√	XLR
	-	2 x Powered	1/4" Phone Jacks
Impedance	20k Ω balanced ; 10k Ω unbalanced		
Sensitivity	50 - 0 dB on input		
Max SPL @ IM	128 dB	123 dB	
Net Weight	24 kg (52.9 lbs)	24 kg (52.9 lbs)	

CENTER SERIES

The Phonic Center loudspeakers provide high power handling, low distortion, and consistent polar response in compact, scratch-proof enclosures. The Center speakers come in 2-way and subwoofer models, and feature 10" to 18" low-frequency drivers matched with 1" compression drivers (with exception to subwoofer models). The Phonic Center speakers have a number of sound reinforcement applications: as main front-of-house loudspeakers in small venues, as floor monitors for musicians (Center 12M), for bass enhancement ('SB' models), or as side-fill loudspeakers in larger systems. Most models can be suspended from ceilings and angled for better coverage, or mounted onto stands, poles and trusses. With the versatility of the range, the set-up possibilities are virtually endless with the Phonic Center series.

- ■ Constructed from A-grade MDF and finished with anti-scratch paint
- ■ Extremely high power handling in a light weight, compact enclosure
- ■ Integrated passive crossover offered on all 2-way models
- ■ Incredible fidelity and outstanding high and low frequency performance

CENTER 10
10" 2-Way Stage Speaker

- ■ Frequency response: 60Hz-20kHz
- ■ Coverage pattern: 90 degrees x 60 degrees nominal
- ■ Power rating: 200W RMS, 400W Program
- ■ 10" Differential drive woofer
- ■ 1" compression driver
- ■ Forged eyebolts for fixed installation
- ■ Maximum sound pressure level: 122 dB

CENTER 12
12" 2-Way Stage Speaker

- ■ Frequency response: 55Hz-18kHz
- ■ Coverage pattern: 90 degrees x 60 degrees nominal
- ■ Power rating: 300W RMS, 600W Program
- ■ 12" Differential drive woofer
- ■ 1" compression driver
- ■ Forged eyebolts for fixed installation
- ■ Maximum sound pressure level: 125 dB

CENTER 15
15" 2-Way Stage Speaker

- ■ Frequency response: 50Hz-18kHz
- ■ Coverage pattern: 90 degrees x 60 degrees nominal
- ■ Power rating: 400W RMS, 800W Program
- ■ 15" Differential drive woofer
- ■ 1" compression driver
- ■ Forged eyebolts for fixed installation
- ■ Maximum sound pressure level: 126 dB

New

CENTER 12M
12" 2-Way Stage / Floor Monitor Speaker

- ■ Frequency response: 55Hz-18kHz
- ■ Coverage pattern: 90 degrees x 60 degrees nominal
- ■ Power rating: 300W RMS, 600W Program
- ■ 12" Differential drive woofer
- ■ 1" compression driver
- ■ Maximum sound pressure level: 125 dB

CENTER 215
Dual 15" 2-Way Stage Speaker

- ■ Dual 15", 2-way, speaker cabinet system
- ■ Frequency response: 45Hz-18kHz
- ■ Coverage pattern: 90 degrees x 60 degrees nominal
- ■ Power rating: 800W RMS, 1600W program
- ■ Dual 15" Differential drive speakers
- ■ 1" compression driver for mids and highs
- ■ Maximum sound pressure level: 129 dB

CENTER 215SB
Dual 15" Subwoofer

- ■ Frequency Response : 40Hz - 250Hz
- ■ Power Rating (Continuous/Program): 600W/1200W
- ■ Sensitivity (1w @ 1m): 96dB SPL
- ■ Dual 15" Differential drive woofer
- ■ Nominal Impedance: 4 ohms parallel
- ■ Maximum sound pressure level: 129 dB

CENTER 18SB
18" Subwoofer

- ■ Frequency response: 35Hz-200Hz
- ■ Power rating: 500W RMS, 1000W program
- ■ Rugged, plywood construction and internal bracing reduces acoustic losses
- ■ Top-mounted pole receptacle for easy expansion
- ■ Maximum sound pressure level: 130 dB

CENTER 218SB
Dual 18" Subwoofer

- ■ Frequency Response : 40Hz - 350Hz
- ■ Power Rating (Continuous/Program): 1000W/2000W
- ■ Sensitivity (1w @ 1m): 100dB SPL
- ■ Dual 18" Differential drive woofer
- ■ Nominal Impedance: 4 ohms parallel
- ■ Maximum sound pressure level: 131 dB

* See Appendix IX on page 34 for full specifications

IMPRESSION PLUS SERIES

IMPRESSION 215 PLUS

Dual 15" 2-Way Stage Speaker

- Power handling: 600 Watts (RMS) / 1200 Watts (Program) @ 4 ohms
- High sound pressure level: 100 dB SPL @ 1 W / 1 M
- Frequency response: 40 Hz ~ 20 kHz
- 1.75" (44mm) diaphragm tweeter
- Constant directivity horn with 90 x 60 degrees of coverage
- HF driver protection system
- Durable die-cast handles
- Trapezoidal enclosure
- Professional speaker connectors and 1/4" phone jacks (IN and LINK OUT)

IMPRESSION 15SB PLUS

15" Subwoofer

- Power handling: 500 Watts (RMS), 1000 Watts (Program) @ 4 ohms
- High sound pressure level: 98 dB SPL @ 1 W / 1 M
- Frequency response: 38 Hz ~ 250 Hz
- Durable die-cast handles
- One 35 mm socket on top for pole mounting
- Speakon-type connectors and 1/4" phone jacks (In and Link Out)
- Solid steel grille protection

IMPRESSION 18SB PLUS

18" Subwoofer

- Power handling : 700 Watts (RMS) / 1400 Watts (Program) @ 4 ohms
- High sound pressure level: 99 dB SPL @ 1 W / 1 M
- Frequency response: 33 Hz ~ 250 Hz
- Durable die-cast handles
- One 35 mm socket on top for pole mounting
- Speakon-type connectors and 1/4" phone jacks (In and Link Out)
- Solid steel grille protection

IMPRESSION 15 PLUS

15" 2-Way Stage / Floor Monitor Speaker

- Power handling: 300 Watts (RMS) / 600 Watts (Program) @ 8 ohms
- Versatile use as a floor monitor or mounted as a raised sound reinforcement speaker
- High sound pressure level: 97 dB SPL @ 1 W / 1 M
- Frequency response: 48 Hz ~ 20 kHz
- 1.75" (44 mm) diaphragm tweeter
- Constant directivity horn with 90 x 60 degrees of coverage
  - HF driver protection system
  - Trapezoidal enclosure for array system
  - One 35 mm socket at bottom for stand or pole mounting
  - Speakon-type connectors and 1/4" phone jacks (In and Link Out)
  - Solid steel grille protection

IMPRESSION 12 PLUS

12" 2-Way Stage / Floor Monitor Speaker

- Power handling: 250 Watts (RMS) / 500 Watts (Program) @ 8 ohms
- Versatile use as a floor monitor or mounted as a raised sound reinforcement speaker
- High sound pressure level: 96 dB SPL @ 1 W / 1 M
- Frequency response: 55 Hz ~ 20 kHz
- 1.75" (44 mm) diaphragm tweeter
- Constant directivity horn with 60 x 90 degrees of coverage
- HF driver protection system
- Trapezoidal enclosure for array system
- One 35 mm socket at bottom for stand or pole mounting
- Professional speaker connectors and 1/4" phone jacks (In and Link Out)
- Solid steel grille protection

SEM PLUS SERIES

SEM 710 PLUS

10" 2-way Stage/Floor Speaker

- Double duty: use as a floor monitor or mounted as a raised sound reinforcement speaker
- Power handling: 150 Watts (RMS); 300 Watts (Program)
- Frequency response: 65 Hz ~ 20 KHz
- High sound pressure level, 96 dB SPL @ 1W / 1M
- 10" heavy-duty woofer and piezo tweeter
- 8 ohm nominal load
- Built-in handle
- 35 mm stand adapter built-in
- Dual 1/4" phone jacks

SEM 712 PLUS

12" 2-way Stage/Floor Speaker

- Double duty: use as a floor monitor or mounted as a raised sound reinforcement speaker
- Power handling: 175 Watts (RMS); 350 Watts (Program)
- Frequency response: 60 Hz ~ 20 KHz
- High sound pressure level, 95 dB SPL @ 1W / 1M
- 12" heavy-duty woofer and piezo tweeter
- 8 ohm nominal load
- Built-in handle
- 35 mm stand adapter built-in
- Dual 1/4" phone jacks

SEM 715 PLUS

15" 2-way Stage/Floor Speaker

- Double duty: use as a floor monitor or mounted as a raised sound reinforcement speaker
- Power handling: 230 Watts (RMS); 460 Watts (Program)
- Frequency response: 50 Hz ~ 20 KHz
- High sound pressure level, 98 dB SPL @ 1W / 1M
- 15" heavy-duty woofer and piezo tweeter
- 8 ohm nominal load
- Built-in handle
- 35 mm stand adapter built-in
- Dual 1/4" phone jacks

SE 725 PLUS

Dual 15" Passive Speaker

- Power handling: 400 Watts (RMS); 800 Watts (Program) at 4 ohms
- Two 15" woofers matched with a 1" piezo tweeter
- High sound pressure level
- Wide frequency response: 40 Hz - 20 kHz
- 1/4" phone jack inputs
- High sound pressure level: 100 dB SPL @ 1 W / 1 M
- Carpeted trapezoidal box

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IMPRESSION 12 PLUS / IMPRESSION 15 PLUS / IMPRESSION 215 PLUS / IMPRESSION 15SB PLUS / IMPRESSION 18SB PLUS / SEM 710 PLUS / SEM 712 PLUS / SEM 715 PLUS / SE 725 PLUS

STUDIO MONITORS

Phonic Active Studio Monitors produce extremely accurate, crystal clear sound. Featuring a bi-amplified design with outputs starting at 70 Watts (program) and 140 Watts (peak). They also feature bi-colored On/Clip Indicators, built-in overload protection circuits, and incredibly flat frequency response. Use these speakers in acoustically perfect or challenging environments for consistent performance and quality every time.

* See Appendix XIII on page 35 for full specifications

P5A

210W 2-Way High Resolution Active Speaker

- Bi-amplified design with 140W for the low frequencies and 70W for the highs
- Flat response from 70 Hz to 20 kHz
- Extremely wide sweet spot and good imaging
- Built-in speaker response controls
- 5" Woofer, 1" silk-dome tweeter
- Built-in adjustable high match, low match
- Room Compensation
- Magnetically shielded
- Overload protection
- Front bi-color (On/Clip) indicator
- XLR and 1/4" inputs
- High grade MDF wooden cabinet

P6A

210W 2-Way High Resolution Active Speaker

- Bi-amplified design with 140W for the low frequencies and 70W for the highs
- Flat response from 55 Hz to 20 kHz
- Extremely wide sweet spot and good imaging
- Built-in speaker response controls
- 6 1/4" Woofer, 1" silk-dome tweeter
- Built-in adjustable high match, low match
- Room Compensation
- Magnetically shielded
- Overload protection
- Front bi-color (On/Clip) indicator
- XLR and 1/4" inputs
- High grade MDF wooden cabinet

P8A

320W 2-Way High Resolution Active Speaker

- Bi-amplified design with 212W for the low frequencies and 106W for the highs
- Flat response from 45 Hz to 22 kHz
- Extremely wide sweet spot and good imaging
- Built-in speaker response controls
- 8 3/4" Woofer, 1" silk-dome tweeter
- Built-in adjustable high match, low match
- Room compensation circuitry
- Strong bass
- Magnetically shielded
- Overload protection
- Front bi-color (On/Clip) indicator
- XLR and 1/4" inputs
- High grade MDF wooden cabinet

CONTRACTOR SPEAKERS

SE 206

5 1/4" 2-Way Molded Speaker

- Extended bass response
- Lightweight plastic enclosure
- Internal threaded inserts
- U-mount bracket included
- Optional universal swivel mounting bracket

SEp 206

Powered 5 1/4" Molded Speaker

- Built-in 20W power amplifier
- One XLR (female) input jack
- Frequency Response: 80 Hz ~ 16 kHz
- 1" Tweeter and 5 1/4" Woofer
- U-mount Bracket included

SE 207

6 1/2" 2-Way Molded Speaker

- Power Capacity: 50 Watts
- Sensitivity: 90 dB SPL @ 1W / 1M
- Frequency Response: 70 Hz ~ 20 kHz
- 1" Tweeter and 6 1/2" Woofer
- U-mount Bracket included

SEp 207

Powered 6 1/2" Molded Speaker

- Built-in 20W power amplifier
- One XLR (female) input jack
- Frequency Response: 70 Hz ~ 20 kHz
- 1" Tweeter and 6 1/2" Woofer
- U-mount Bracket included

VERSATAP 30

4" 2-way Speaker with Transformer

- Power Capacity: 30W @ 8 Ohm
- Frequency Response: 120 Hz - 20 kHz
- Sensitivity: 84 dB SPL @ 1W/1M, 1 kHz
- 4" poly carbon woofer and 1" soft dome
- Transformer with 4 taps positions (2, 4, 8, 16W) and 30W (8 Ohm) bypass
- Moisture resistant aluminum enclosure available in black or white
- Lightweight and compact
- U-mount bracket included

VERSATAP 50

6 1/2" Molded Speaker with Transformer

- Power Capacity: 50W @ 8 Ohm
- Frequency Response: 75 Hz - 20 kHz
- Sensitivity: 90 dB SPL @ 1W/1M, 1 kHz
- 6.5" poly carbon woofer and 1" soft dome
- Transformer with 4 taps positions (2.5, 5, 10, 20W) and 50W (8 Ohm) bypass
- Moisture resistant lightweight plastic enclosure
- U-mount bracket included

CEILING SPEAKERS

New

- ■ Iron-molded circular construct with fire-proof coating
- ■ Coaxial driver reduces size and improves sound quality
- ■ Mount speakers with C-type iron rings or lightweight V-type steel brackets; fasten with auto-lock nails
- ■ Built-in transformer

	IW5006	IW6510	IW4030	IW8030	IW8030LP	IW1060	IW506	IW656	IW810
Speaker Diameter	5"*3/4" coaxial driver	6.5"*1" coaxial driver	4"*1.5" driver	8"*1" coaxial driver	8"*1" coaxial driver	10" subwoofer driver	5" driver	6.5" driver	8" driver
Operating Mode	100V	100V	100V	70V	70V	70V	100V	100V	100V
Power Handling	1.5W, 3W, 6W	1.5W, 3W, 6W	20W.30W	3.7W, 7.5W, 15W, 30W	3.7W, 7.5W, 15W, 30W	15W, 30W, 60W	1.5W,3W,6W	1.5W,3W,6W	3W,6W
Frequency Response	65 Hz - 18 kHz	60 Hz - 18 kHz	80 Hz - 20 kHz	50 Hz - 20 kHz	50 Hz - 20 kHz	45 Hz - 150Hz	150 Hz - 12 kHz	130 Hz - 13 kHz	80 Hz - 12 kHz
S.P.L.at Rated Input(1m)	92dB	90dB	90dB	91dB	91dB	94dB	91dB	91dB	90dB
Beam width (at 1 kHz)	130°	140°	130°	110°	110°	N/A	N/A	N/A	N/A
Dimensions (outer diameter)	180mm	230mm	181mm	270mm	270mm	320mm	153mm	183mm	220mm
Height	123.5mm	123.5mm	176mm	255mm	190mm	303mm	75mm	72mm	66mm
Weight	1.05kg	1.5kg	2.1kg	5kg	5kg	7kg	0.87kg	1.1kg	1.1kg
Mount Type	V	V	V	C	C	C	V	V	V

WIRELESS

Universal System For All Active Speakers

WM-SYS3

Single Channel Wireless System For Active Speakers

- ■ WM60 single channel transmitter
- ■ WM400-L receiver
- ■ M6, M8, M10 screws & velcro strip for attaching to speakers

WM-SYS4

Dual Channel Wireless System For Active Speakers

- ■ WM70 dual channel transmitter
- ■ WM400-L left channel receiver
- ■ WM400-R right channel receiver
- ■ M6, M8, M10 screws & velcro strip for attaching to speakers

Transmitters

Receivers

WM60

- ■ Single Channel Wireless Transmitter
- ■ 16 selectable UHF preset channels
- ■ XLR and 1/4" phone jack inputs
- ■ Transmits over 70 meters (230 feet)

WM40-L
WM40-R

- ■ Single Channel Receiver
- ■ 16 selectable UHF preset channels
- ■ For use with the Phonic Nexus active speakers

WM70

- ■ Dual Channel Wireless Transmitter
- ■ 16 selectable UHF preset channels
- ■ Volume controls to avoid clipping
- ■ Combo inputs accepting 1/4" and XLR Mono/Stereo select switch
- ■ Transmits over 70 meters (230 feet)

WM400-R

WM400-L

WM400-L
WM400-R

- ■ Single Channel Receiver
- ■ 16 selectable UHF preset channels
- ■ XLR output
- ■ For use with any active speaker

MICROPHONES

Now Phonic provides users with a complete wireless microphone range compatible with their most popular ranges of pro audio gear. The UM30, UM40 and UM50 Wireless Microphone sets are all compatible with the incredibly popular Sound Ambassador Mobile Sound Systems. The UM31, UM41 and UM51, on the other hand, are compatible with the popular RoadGear sets, Active Wireless Nexus Speakers and Powerpod 865 Plus and 885 Plus Molded Powered Mixers, making them incredible versatile as well as simple to use.

Sound Ambassador

For Sound Ambassador, see page 28

UM-R10   HT-100

UM30
Wireless UHF Handheld System

■ HT-100 Handheld Transmitter
■ UM-R10 Wireless Receiver Module

BT-200   ML-10   UM-R10

UM40
Wireless UHF Lavaliere System

■ BT-200 Bodypack Transmitter
■ ML-10 Lavaliere Mic
■ UM-R10 Wireless Receiver Module

BT-200   MH-20   UM-R10

UM50
Wireless UHF Head-set System

■ BT-200 Bodypack Transmitter
■ MH-20 Headset Mic
■ UM-R10 Wireless Receiver Module

**Powerpod 865 Plus
Powerpod 885 Plus**

RoadGear

Nexus

For RoadGear, see page 29
For Nexus, see page 22

HT-100   UM-R11

UM31
Wireless UHF Handheld System

■ HT-100 Handheld Transmitter
■ UM-R11 Wireless Receiver Module

BT-200   ML-10   UM-R11

UM41
Wireless UHF Lavaliere System

■ BT-200 Bodypack Transmitter
■ ML-10 Lavaliere Mic
■ UM-R11 Wireless Receiver Module

BT-200   MH-20   UM-R11

UM51
Wireless UHF Head-set System

■ BT-200 Bodypack Transmitter
■ MH-20 Headset Mic
■ UM-R11 Wireless Receiver Module

SOUND AMBASSADOR

331 x 230 x 244 mm (13" x 9" x 9.6")
7 kg (15 lbs)

SOUND AMBASSADOR 35 DELUXE
35 Watt Mobile Sound System

- All-in-one compact mobile wireless sound system
- 6.5" full range speaker and 35 watts power amplifier built-in
- Optional UHF wireless microphones
- Optional anti-shock CD player with MP3 playback
- Built-in DC charging circuit
- 12 VDC supply from built-in, maintenance-free lead acid type rechargeable batteries, 2.7Ah
- DC inlet for external power supply
- Two expansion slots for the addition of UHF PLL synthesized diversity wireless receiver modules
- Built-in diversity receiving antennas
- One 1/4" phone jack for wired microphone input
- 1/4" phone jack for line-level input and output
- Built-in limiter and protection circuitry to minimize distortion and overload
- Individual volume control for wired and wireless microphones
- Echo effect with level and time/repeat controls
- Compatible with the Phonic S3 tripod speaker stand

SOUND AMBASSADOR 75 DELUXE
75 Watt Mobile Sound System

- Portable sound system with wheels and retractable handle
- Optional wireless microphones (UHF) and anti-shock CD player with MP3 playback
- 100 - 240VAC switching power supply
- 10" 2-way speaker system (75 Watts @ 4 ohms)
- Built-in DC charging circuit
- 24 VDC supply from two built-in, maintenance-free lead acid type rechargeable batteries
- One XLR and one 1/4" phone jack for wired microphone input
- 1/4" phone jack and mini-stereo jacks for line-level input and output
- Built-in limiter and protection circuitry to minimize distortion and overload
- Individual volume control for wired and wireless microphones
- Master volume control
- Switched and unswitched speaker output jacks
- Tripod stand adapter included
- Compatible with the Phonic S1 and S2 speaker mounts

Optional Accessories:
- UM30: Wireless UHF Handheld Microphone System
- UM40: Wireless UHF Lavaliere Microphone System
- UM50: Wireless UHF Headset Microphone System
- CD Player with MP3 Playback

This picture is for reference only and features optional components. Your Sound Ambassador 75 Deluxe may differ to what is shown here.

612 x 300 x 350 mm (24" x 11.8" x 13.8")
19.5 kg (43 lbs)

SOUND AMBASSADOR 40A
Active Expansion Speaker for the Sound Ambassador 35 Deluxe

- 6.5" full range speaker and 35 watt power amp built-in
- 2.7Ah acid-lead battery built-in, operates on DC or AC power
- Echo effect and tone control for sweetening your voice
- 25mm diameter tripod stand adapter included
- Speaker output jack for external passive speaker (Sound Ambassador 40P)

SOUND AMBASSADOR 40P
Passive Expansion Speaker for the Sound Ambassador 35 Deluxe

- Passive speaker for the extension of SA35D
- 6.5" full range speaker and 35 watts program power handling
- Sensitivity 92dB SPL @1W/1M
- 25mm diameter tripod stand adapter included

SOUND AMBASSADOR 80A
Active Expansion Speaker for the Sound Ambassador 75 Deluxe

- 10" 2-way speaker system with 75 watt power amplifier
- Frequency response: 50Hz to 18kHz
- 100-240VAC switching power supply
- Built-in DC charging circuit
- 24 VDC supply from two built-in, maintenance-free lead acid type rechargeable batteries
- 24-32VDC inlet for external power supply
- Two 1/4" phone jacks for input & output
- Built-in limiter and protection circuitry to minimize distortion and overload
- Tripod stand adapter included

SOUND AMBASSADOR 80P
Passive Expansion Speaker for the Sound Ambassador 75 Deluxe

- 10" 2-way speaker system
- Power handling: 75 watts
- Frequency response: 50Hz to 18kHz
- Sensitivity: 96dB SPL @ 1m
- Two 1/4" phone jack for input & output
- Tripod stand adapter included

ROADGEAR *PLUS* SERIES

The RoadGear Series is a totally hassle-free, mobile sound solution. The RoadGear 160 Plus and 260 Plus are self-sufficient systems housing 2-way 8" speakers, a 5- or 8-channel powered mixer, a dynamic microphone (two with the 260) and all the necessary cables. The road-worthy, high-impact modular polymer construction in a wheelbase, luggage-style cabinet makes RoadGear the ideal mobile sound solution for live performers, schools, churches, conferences, special events, and anywhere that calls for a quick, five minute setup.

ROADGEAR 160 *PLUS*

160 Watt Mobile Sound System

■ Luxury luggage-style molded cabinet with wheels
■ 160W (80W per channel) stereo power amplifier
■ 5-Channel powered mixer (three Mic/Line, one stereo) with phantom power
■ Speaker system with 1" compression driver and 8" woofers
■ Echo effect with delay and repeat controls
■ 2-band EQ on each input channel
■ System bass/treble control
■ One stereo input channel and one stereo AUX return
■ Speaker output with send and return
■ One dynamic microphone with mic clip, cable and carry bag
■ Two 30 ft speaker cables
■ Storage compartments for microphones, cables and accessories
■ Operates on AC or DC power

ROADGEAR 260 *PLUS*

260 Watt Mobile Sound System

■ Luxury luggage-style molded cabinet with wheels
■ 260W (130W per channel) stereo power amplifier
■ 8-Channel powered mixer (four Mic/Line, two stereo) with phantom power
■ Speaker system with 1" compression driver and 8"woofer
■ DFX, our 24-bit digital multi-effect processor with 16 programs and foot switch jack
■ 2-band EQ on each input channel
■ 3-band system equalizer
■ One stereo input channel and one stereo AUX return
■ Speaker output with send and return
■ Two dynamic microphones with mic clips, cables and carry bags
■ Two 30 ft speaker cables
■ Storage compartments for microphones, cables and accessories
■ Operates on AC or DC power

Optional Accessories:
■ Wireless UHF handheld, lavaliere and head-set microphones (UM31, UM41, UM51, respectively)
■ Speaker stands and mounts (MK1-RG, MK2-RG, SK1, SK2)
■ RoadGear travel bag (TB-RG)

818 x 635 x 352 mm (32.2" x 25" x 13.86")
28 kg (62 lbs)

	RoadGear 160 Plus	RoadGear 260 Plus	
Speakers	8"		Woofer
	1" Driver		Tweeter
Output Power	80W + 80W	130W + 130W	8Ω
Low/High Crossover Point	2 kHz		
Inputs	3	4	XLR
	3	4	1/4"
	2	3	1/4" Stereo
	1	1	Stereo RCA
Speaker Outputs	2	4	1/4"
System EQ	Treble or Bass	3-band	
Minimum Impedance (Power Amp)	8Ω	4Ω	
Amp Mode	L & R or MAIN & MONITOR		
DFX	Echo	16 & Tap Delay	
Phantom Power		√	
Wireless microphone expansion slots	2	2	
Included Accessories	1	2	Mic
	√	√	Cables & Dust Cover

SIGNAL PROCESSORS

GEQ1500

482 x 183 x 44 mm
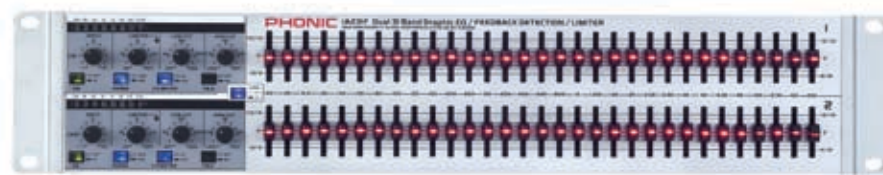(19" x 7.2" x 1.7")
2.29 kg (5.05 lbs)

GEQ3100

482 x 183 x 88 mm
(19" x 7.2" x 3.6")
4.4 kg (9.7 lbs)

DYN2000

482 x 183 x 44 mm
(19" x 7.2" x 1.7")
2.29 kg (5.05 lbs)

iA231F

485.5 x 88 x 182 mm
(19" x 3.5" x 7.2")
3.2 kg (7.1 lbs)

GEQ1500
15-band Graphic Equalizer

- Two 15-band, 2/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±12 dB
- 12 dB per octave 50Hz low-cut filter
- Front-panel bypass switch
- ±12 dB input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inputs and Outputs
- Internal Toroidal Transformer

GEQ3100
31-band Graphic Equalizer

- Two 31-band, 1/3-octave Constant Q frequency bands
- Switchable boost/cut ranges of ±6 or ±12 dB
- 12 dB per octave 50Hz low-cut filter
- Front-panel bypass switch
- ±12 dB input gain range
- 4-segment LED ladders for monitoring output levels
- XLR and TRS Inputs and Outputs
- Internal Toroidal Transformer

DYN2000
Dual Channel Compressor and Limiter

- Stereo or Dual Mono operation of gating, compression and peak limiting
- Expander/Gate Circuit with variable release time and +15dBu maximum threshold
- Hard Knee Selection allows selection between compression curve and the classic Hard Knee curve
- Low Frequency Shelf (via Contour button) in the Sidechain Path function
- Limiting - provides control of maximum peak levels at output regardless of other controls
- Peak Limiter comes after the compression, gating and other circuitry including the output gain
- Absolute limit for peak excursions before they reach the output
- True RMS Level Detection senses the power in the program, in a similar way as human hearing does, giving results superior to peak or average detection
- Bypass Buttons on both channels - comparing the processed and unprocessed signals
- LED Display for Gain Reduction and output
- Balanced XLR and 1/4" TRS Input and Output Jacks
- Separate Sidechain Inserts enable an outboard processor or signal to control compression or gating

iA231F
Dual Channel Digital 31-Band Graphic Equalizer

- 30 mm VR Sliders for precise adjustment
- Feedback Detection System instantly reveals critical frequencies
- Additional HPF filter removes unwanted frequencies
- Switchable boost/cut range between 6 dB and 12 dB
- EQ IN/OUT switch
- I/O Level meter switch
- Dedicated mono subwoofer output with adjustable crossover frequency
- +15 dB to -oo input gain range for easy level matching
- 8-segment LED meter with clip warning for input
- Illuminated faders
- Relay-controlled bypass
- Channel-link function
- Balanced inputs and outputs with 1/4" TRS and XLR connectors
- Built-in limiter control from -20 dB to +20 dB (OFF)

i7100
51.3 x 482 x 207.6 mm
(2.02" x 18.98" x 8.17")
2.2Kg (4.8lbs)

i7300
51.3 x 482 x 207.6 mm
(2.02" x 18.98" x 8.17")
2.5 kg (5.5 lbs)

i7600
483 x 44 x 206 mm
(19" x 1.75" x 8")
2.5 kg (5.5 lbs)

PPC8000
44.44 × 48.2 × 152 mm
(2.75" × 19" × 6")
2.4kg (5.29 lbs)

PPC9000
44.44 × 48.2 × 152 mm
(2.75" × 19" × 6")
2.4kg (5.29 lbs)

PCR2213
482 × 44.5 × 167 mm
(19" × 1.75" × 6.57")
3.21kg (7.1 lbs)

i7100
Digital Feedback Eliminator

- 24 fully programmable parametric filters can be set manually
- Auto Mode constantly monitors the mix and automatically resets the filters
- Manual Mode provides each channel with up to 12 fully parametric filters
- Single-Shot, Auto, and Manual modes can be assigned to each individual filter
- Most recent changes are automatically stored and kept, even after the power is off

i7300
Digital Multi Reverb

- 24-bit A/D and D/A converters with 256/512 times over sampling for high headroom and resolution
- Internal 32-bit processor with 44.1 kHz sampling rate
- True stereo performance and variable stereo image parameters
- 100 factory programs and 100 user programs
- Dual 10-segment LED level meters
- Balanced XLR and 1/4" TRS inputs and outputs
- Operating levels of +4 dBu and -10 dBV independently selectable for input and output
- Foot switch connector for hands-free program selection and bypass
- MIDI capability allowing real-time program selection and dump
- Dedicated rotary controls and illuminated buttons for quick and easy operation
- Large LCD display

i7600
Dual 30-Band 1/3 Octave Digital Graphic Equalizer with RTA

- Dual-channel 29-band real-time spectrum analyzer (RTA)
- 24-bit A/D and D/A converters with 256/512 times over sampling for high headroom and resolution
- Internal 32-bit/44.1 KHz processor
- Provides 12 dB of boost or cut
- Channel-link function
- Stores up to 60 programs: 30 factory-set, 30 user-defined
- Selectable unit of measurement for RTA line signal: dBu or dBV
- Six view range options for band-level measurement
- Six response time options
- Peak-hold options: permanent and none
- Three weighting options: A weighting, C weighting, and flat
- Pink noise generator outputs balanced test signals at 0 dB
- Bypass function
- Variable low-pass filter (LPF) and high-pass filter (HPF)
- Balanced XLR and 1/4" TRS inputs and outputs
- Operating levels of +4 dBu and -10 dBV independently selectable for input and output
- 780 bright LED indicators
- Rack mountable in one rack-space chassis

PPC8000
Power Conditioner with Light Modules

- 8 switched outlets on the rear of the unit
- Single, unswitched outlet on the front
- Two swiveling light fixtures with dimmer switch for rack illumination
- RFI / EMI filtering
- Circuit Breaker with 15 amp rating
- Heavy-duty 14-gauge AC power cord
- Triple-mode Varistor spike and surge protection

PPC9000
Power Conditioner with Light Modules

- 8 switched outlets on the rear of the unit
- Single, unswitched outlet on the front
- Two swiveling light fixtures with dimmer switch for rack illumination
- RFI / EMI filtering
- Circuit Breaker with 15 amp rating
- Heavy-duty 14-gauge AC power cord
- Triple-mode Varistor spike and surge protection
- 20-segment, line Voltage meter reading from 90 to 128 VAC

PCR2213
Active Crossover

- Stereo 2-way or mono 3-way operation
- 24 dB/octave Linkwitz-Riley filters with zero phase error at crossover frequencies
- Perfect flat summed amplitude response at all crossover frequencies
- Independent limiters on all outputs with pre-defined time parameters
- Latching mute push Buttons on all outputs, vital during setting up and troubleshooting
- LED indication on all important switching functions for easy status identification
- Crossover frequencies continuously variable from 80 - 8000 Hz
- Time/phase alignment via polarity switches and 4 ms time delay controls
- Switchable horn EQ curve to compensate the HF roll-off
- RF and Subsonic input filters
- High precision components and potentiometers ensure excellent quality and accuracy of settings
- Balanced XLR inputs and outputs

APPENDIX

Appendix I: Sonic Station Series Mixers

	Sonic Station 16	Sonic Station 22	Sonic Station 32	
Total Inputs	24	30	40	
	16	20	30	Mic
	16	18	28	Line
	4	6	6	Stereo*
	-	1	1	Talkback Mic
	√	-	-	Mini Stereo
	1	3	3	Stereo RCA
Outputs	5	12	12	1/4" TRS
	3	3	3	XLR
	8	18	28	Direct Outs
	√	-	-	Mini Stereo
	√	√	√	Stereo RCA
Inserts	√	√	√	
Channel EQ	3-band with swept mid			
Level Meter	2 x 12-pt	7 x 12-pt		
DFX	One 16-EFX	Dual DFX		
Lamp Jack	BNC			
Dimensions (H x W x D)	440 x 210 x 475 mm (17.3" x 8.26" x 18.7")	859 x 102.79 x 547.42 mm (33.8" x 4.05" x 21.6")	1155.5 x 102.79 x 547.42 mm (45.5" x 4.05" x 21.6")	
Weight	9.5 kg (20.9 lbs)	15.5 kg (34.1 lbs)	18 kg (39.7 lbs)	

*AUX inputs included

Appendix II: MU Series Mixers

	MU502	MU1202	MU1002X	MU1202X	MU1722X	MU1822X	MU2442X	
Inputs	5	12	10	12	17	18	24	Total
	2	4	2	4	6	8	10	Mic
	2	4	2	4	4	6	8	Line
	√	-	√	-	√	√	√	Mini Stereo
	2	4	4	4	6	6	8	Stereo*
Outputs	3	6	6	6	9	8	18	1/4" TRS
	-	-	-	-	2	2	2	XLR
	-	-	-	-	-	-	8	Direct Outs
	√	-	√	-	√	√	√	Mini Stereo
	√	√	√	√	√	√	√	Stereo RCA
Channel Inserts	-	-	-	-	4	8	8	
Channel EQ	2-band	3-band	3-band	3-band	3-band	3-band	3-band	
Level Meter	2 x 4-pt	2 x 5-pt	2 x 5-pt	2 x 5-pt	2 x 11-pt	2 x 12-pt	2 x 12-pt	
DFX	-	-	16	16	16	16	16	
Dimensions (H x W x D)	156 x 51 x 244 mm (6.1" x 2" x 8.8")	275 x 60 x 271 mm (10.8" x 2.4" x 10.7")	190 x 56 x 233 mm (7.5" x 2.2" x 9.2")	245 x 86 x 271 mm (9.7" x 3.4" x 10.7")	300 x 89 x 340 mm (11.8" x 3.5" x 13.4")	407 x 89 x 357 mm (16" x 3.5" x 14")	418 x 140 x 438 mm (16.5" x 5.5" x 17.6")	
Weight	1.1 kg (2.4 lbs)	2.2 kg (4.85 lbs)	1.5 kg (3.3 lbs)	2.6 kg (5.73 lbs)	4.2 kg (9.25 lbs)	4.8 kg (10.6 lbs)	5.9 kg (13 lbs)	

*AUX inputs included

Appendix III: AM Series Mixers

	AM 120 MKII	AM 220	AM 240	AM 440	AM 240D	AM 440D	AM 442D	AM 642D	AM 844D	
Total Inputs	5	8	10	12	10	12	17	18	24	
	1	2	2	4	2	4	4	6	8	Mic
	1	2	2	4	2	4	5	6	8	Line
	2	2	4	4	4	4	6	6	8	Stereo*
Outputs	3	5	5	5	5	5	9	10	15	1/4" TRS
	-	-	-	-	-	-	2	2	2	XLR
	√	√	√	√	√	√	√	√	√	Stereo RCA
Channel EQ	2-band	3-band					3-band with swept MID			
Level Meter	2 x 4-pt						2 x 12-pt			
DFX	-	-	-	-	100 + Tap delay					
Dimensions (H x W x D)	156x51x244mm (6.2"x2"x9.6")	190x56x233mm (7.5"x2.2"x9.2")	190x56x233mm (7.5"x2.2"x9.2")	242x55x255mm (9.5"x2.2"x8.9")	190x56x233mm (7.5"x2.2"x9.2")	242x55x255mm (9.5"x2.2"x8.9")	300x89x340mm (11.8"x3.5"x13.3")	407x89x357mm （16"x3.5"x14")	418x140x438mm (16.5"x5.5"x17.2")	
Weight	1.1 kg (2.4 lbs)	1.5 kg (3.3 lbs)	1.5 kg (3.3 lbs)	1.7 kg (3.8 lbs)	1.5 kg (3.3 lbs)	1.7 kg (3.8 lbs)	4.2 kg (9.3 lbs)	4.8 kg (10.6 lbs)	5.9 kg (13 lbs)	

*AUX inputs included

Appendix IV: Powerpod Series Mixers

	Powerpod 410	Powerpod 620 Plus	Powerpod 740 Plus	Powerpod 780 Plus	Powerpod 820	Powerpod 1062 Plus	Powerpod 1082 Plus	
Inputs	4	6	7	7	8	10	10	Total
	4	4	7	7	4	9	9	Mic
	4	2	2	2	4	4	4	Line (Hi-Z)
	-	2	2	2	-	2	2	Line (Super Hi-Z)
	-	-	3	3	4	5	5	Stereo*
	√	√	√	√	√	√	√	Stereo RCA
Outputs	1	3	3	3	4	4	4	1/4" TRS
	√	√	√	√	√	√	√	Stereo RCA
Speaker Outputs	2	5	5	4	4	4	4	1/4" Phone Jack
Power Amplifier	100W total	100W + 100W	220W + 220W	300W + 300W	100W + 100W	300W + 300W	400W + 400W	4Ω stereo
	-	200W	440W	-	-	-	-	8Ω bridge
Channel EQ	2-band		3-band					
System EQ	-	7-band stereo			-	2 x 8-band	2 x 8-band	
Level Meter	-	2 x 5-pt			2 x 10-pt	5-pt	5-pt	
DFX	Variable Echo Delay	16	16	16	16	16	16	
Weight	7.4 kg (16.3 lbs)	12 kg (26.46 lbs)	15.5 kg (34.18 lbs)	15.5 kg (34.18 lbs)	3.2 kg (7 lbs)	21.5 kg (47.4 lbs)	22.5 kg (49.6 lbs)	

*AUX inputs included

	Powerpod 1860 Plus	Powerpod K-12 Plus	Powerpod K-16 Plus	Powerpod 865 Plus	Powerpod 885 Plus	
Total Inputs	16	16	20	12	12	Total
	8	8	12	8	8	Mic
	8	8	12	6	6	Line
	5	5	5	6	6	Stereo*
	3	3	3	√	√	Stereo RCA
Outputs	10	10	10	7	7	1/4" TRS
	√	√	√	√	√	Stereo RCA
Speaker Outputs	2	2	2	2	2	Speakon
	4	4	4	4	4	1/4" Phone Jack
Power Amplifier	400W + 400W	500W + 500W	500W + 500W	300W + 300W	400W + 400W	4Ω stereo
	800W	1000W	1000W	600W	800W	8Ω bridge
Wireless Module Slot	-	-	-	√	√	
Vocal Elimination	-	-	√	√	√	
Feedback Detection	-	√	√	√	√	
sPs	-	-	√	√	√	
Channel EQ	3-band	3-band with swept mids		3-band, 2 channels with swept mids		
System EQ	7-band stereo					
Level Meter	2 x 12-pt			3 x 5-pt		
DFX	16	2 x 16	2 x 16	16	16	
Dimensions (H x W x D)	448x147x465 mm (17.6" x 5.8" x 18.3")	483x143x466 mm (19" x 5.6" x 18.4")	583x143x466 mm (23" x 5.6" x 18.3")	475x306x324 mm (18.7" x 12" x 12.8")	475x306x324 mm (18.7" x 12" x 12.8")	
Weight	14.3 kg (31.5 lbs)	14.5 kg (31.94 lbs)	19.5 kg (42.95 lbs)	11 kg (24.2 lbs)	12 kg (26.4 lbs)	

*AUX inputs included

Appendix V: Sound Ambassador Series

	Sound Ambassador 35 Deluxe	Sound Ambassador 75 Deluxe	Sound Ambassador 40A	Sound Ambassador 40P	Sound Ambassador 80A	Sound Ambassador 80P	
Output RMS	35W	75W	35W	-	75W	-	
Power Handling (Program)	-	-	-	40W	-	150W	
Frequency Response	60 Hz - 18 kHz	50 Hz - 20 kHz	60 Hz - 18 kHz	60 Hz - 18 kHz	18 Hz - 20 kHz	50 Hz - 18 kHz	
Woofer	6.5"	10"	6.5"	6.5"	10"	10"	
Tweeter	1"	1"	1"	1"	1"	1"	
Inputs	√	2	√	√	√	√	1/4"
	√	√	-	-	-	-	XLR
	-	√	-	-	-	-	Mini-stereo
Outputs	√	√	√	√	√	√	Line Out
	-	2	-	-	√	-	Speaker Out
	-	√	-	-	-	-	Mini-stereo
Channel Tone Control	√	√	-	-	-	-	
Internal Battery	√	2	√	-	√	-	
Optional Accessories	√	√	-	-	-	-	Wireless Mic
	-	√	-	-	-	-	CD Player
Dimensions	331 x 230 x 244 mm (13" x 9" x 9.6")	612 x 300 x 350 mm (24" x 11.8" x 13.8")	336 x 220 x 216 mm (13.2" x 8.7" x 8.5")	336 x 220 x 216 mm (13.2" x 8.7" x 8.5")	612 x 300 x 350 mm (24" x 11.8" x 13.8")	612 x 300 x 350 mm (24" x 11.8" x 13.8")	
Net Weight	7 kg (15.4 lbs)	19.5 kg (43 lbs)	6.5 kg (14.3 lbs)	4 kg (8.8 lbs)	18 kg (39.7 lbs)	12 kg (26.5 lbs)	

Appendix VI: ZX2 / ZX4 / PM 801

	ZX2	ZX4	PM801	
Inputs	1	1	8	Microphone
	3 x stereo	3 x stereo	1 x mono	Stereo RCA
	√	√	-	Emergency Audio
Outputs	2	4	-	Zones
	√	√	-	Utility
	7	8	1	1/4" Jacks
Level Controls	√	√	√	
Zone EQ	2-band	-	-	
Microphone EQ	2-band	2-band	Tone controls	
Mic Depth Control	√	√	-	
Source Selection	√	√	-	
Source Link	√	√	-	
Size (rack spaces)	1 unit	1 unit	1 unit	
Weight	2.5 kg (5.5 lbs)	2.5 kg (5.5 lbs)	2.3 kg (5.3 lbs)	

Appendix VII : XP Amplifiers

	XP 1000	XP 2000	XP 3000	XP 3100	XP 5000	XP 5100	
Continuous Power Output	560W + 560W	960W + 960W	1400W + 1400W	1400W + 1400W	2500W + 2500W	2500W + 2500W	2Ω stereo
	1120W	1920W	2800W	2800W	5000W	5000W	4Ω bridge
Inputs	√	√	√	√	√	√	XLR
	√	√	√	√	√	√	1/4"
					√	√	Barrier Strip
Outputs	√	√	√	√	√	√	Binding Posts
	√	√	√	√	√	√	Speakon®-type
				√	√	√	XLR
Subwoofer Output	-	-	-	√	-	√	
Frequency Response	20 Hz - 20 kHz, 0/-1 dB; -3 dB points: 5 Hz - 100 kHz						
Gain	40 x (32 dB)						
High Pass Filter (30Hz, 50Hz)	√	√	√	√	√	√	
Low Pass Filter (60Hz, 90Hz, 120Hz)	-	-	-	√	-	√	
Input Impedance	20 kΩ balanced, 10 kΩ unbalanced						
Damping Factor @ 8 Ω	>2000	>500	>500	>500	>500	>500	
Size (rack space units)	2	3	3	3	3	3	
Weight	17.5 kg (38.5 lbs)	21.8 kg (48 lbs)	24.2 kg (53.3 lbs)	24.2 kg (53.3 lbs)	28.2 kg (62 lbs)	28.2 kg (62 lbs)	

Appendix VIII: MAX Amplifiers

	MAX 250	MAX 500	MAX 860 PLUS	MAX 1500 PLUS	MAX 2500 PLUS	
Continuous Power Output	80W + 80W	120W + 120W	300W + 300W	450W + 450W	750W + 750W	4Ω stereo
	60W + 60W	90W + 90W	200W + 200W	280W + 280W	500W + 500W	8Ω stereo
	-	-	600W	900W	1500W	8Ω bridge
Inputs	√	√	√	√	√	XLR
	√	√	√	√	√	1/4" Jacks
Outputs	-	-	√	√	√	Speakon®-type
	√	√	√	√	√	Binding Posts
Frequency Response	20 Hz - 20 kHz, +0/-1 dB					
Input Impedance	20 kΩ balanced, 10 kΩ unbalanced					
Protection	Short circuit, thermal, subsonic, RF protection, output DC offset, power on/off muting					
Gain	41 x (30 dB)	41 x (30 dB)	32 x (30 dB)	40 x (30 dB)	50 x (30 dB)	
Size (Rack Units)	1	1	2	2	2	
Net Weight	6.7 kg (14.8 lbs)	7.85 kg (17.3 lbs)	14.6 kg (32.2 lbs)	15.5 kg (34.2 lbs)	18 kg (39.7 lbs)	

Appendix IX: Center Series Speakers

	Center 10	Center 12(M)	Center 15	Center 215	Center 18SB	Center 215SB	Center 218SB	
Power Handing (RMS)	200W	300W	400W	600W	500W	600W	800W	
Frequency Response (Hz)	60Hz - 20kHz	55Hz - 18kHz	50Hz - 18kHz	45Hz - 18kHz	35Hz - 200Hz	40Hz -250Hz	40Hz -350Hz	
Sensitivity: 1W,1M	93dB	95dB	96dB	98dB	95dB	96dB	100dB	
Nominal Impedance	8 ohm	8 ohm	8 ohm	4 ohm	8 ohm	4 ohm	4 ohm	
Maximum SPL	122dB	125dB	126dB	129dB	130dB	129dB	131dB	
Coverange H° x V°	90 x 50	90 x 50	80 x 50	90 x 60	-	-	-	
Crossover modes	Passive	Passive	Passive	Passive	-	-	-	
Connectors	2	2	2	2	2	2	2	Speakon
Handles	2	2 (12M only one)	2	2	2	2	4	Die-cast
Stand Socket (35mm)	Bottom	Bottom	Bottom	-	Top	-	-	
Dimensions (HxWxD)	520x330x330mm	610x380x380mm 610x350x350mm(12M)	740x450x450mm	1160x500x500mm	690x560x600mm	500x982x510mm	1080x574x780mm	

Appendix X: Impact Series Speakers

	Impact 8.4X	Impact 12.4X	Impact 16.4X	Impact 24.4X	
Total Inputs	12	16	20	28	
	8	12	16	24	Mic
	8	12	16	24	Line
	4	4	4	4	Stereo*
	√	√	√	√	Stereo RCA
	√	√	√	√	Mini Stereo
Outputs	3	3	3	3	1/4" TRS
	√	√	√	√	XLR
	√	√	√	√	Phones
	√	√	√	√	Stereo RCA
	√	√	√	√	Mini Stereo
Channel EQ	3-band with swept mid				
Level Meter	2 x 12-pt				
DFX	100 programs				
Dimensions (W x H x D)	510 x 112 x 437 mm (20" x 4.4" x 17.2")	642 x 112 x 437 mm (25.3" x 4.4" x 17.2")	774 x 112 x 437 mm (30.5" x 4.4" x 17.2")	1038 x 112 x 437 mm (40.9" x 4.4" x 17.2")	
Weight	7.2 kg (15.9 lbs)	8.7 kg (19.1 lbs)	10.5 kg (23.1 lbs)	13.5 kg (29.7 lbs)	

*AUX inputs included

Appendix XI: Impression Plus Speakers

	Impression 12 Plus	Impression 15 Plus	Impresion 215 Plus	Impression 15SB Plus	Impression 18SB Plus	
Power Handling	250W	300W	600W	500W	700W	RMS
	500W	600W	1200W	1000W	1400W	Program
Woofer	12"	15"	2 x 15"	15"	18"	
Tweeter	1 3/4"	1 3/4"	1 3/4"	-	-	
Input Connectors	2	2	2	2	2	1/4" Phone Jacks
	2	2	2	2	2	Speakon
Sensitivity @ 1 W / 1 M	96 dB	97 dB	100 dB	97 dB	99 dB	
Frequency Response	55 Hz - 20 kHz	48 Hz - 20 kHz	40 Hz - 20 kHz	38 Hz - 250 Hz	33 Hz - 250 Hz	
Dispersion Angle	90 x 60°	90 x 60°	90 x 60°	-	-	
Nominal Impedance	8Ω	8Ω	4Ω	4Ω	4Ω	
Dimensions (H x W x D)	600 x 38 x 340 mm (23.6" x 15" x 13.4")	660 x 465 x 370 mm (26" x 18.3" x 14.6")	42.7" x 19.1" x 18.7" (1085 x 485 x 475 mm)	632 x 464 x 445 mm (24.9" x 18.3" x 13.2")	860 x 680 x 465 mm (33.9" x 26.8" x 18.3")	
Weight	16.2 kg (35.7 lbs)	19.7 kg (43.4 lbs)	38.5 kg (84.8 lbs)	26.5 kg (58.4 lbs)	45.2 kg (101 lbs)	

Appendix XII: SEM Plus Speakers

	SEM 710 Plus	SEM 712 Plus	SEM 715 Plus	SE 725 Plus	
Power Capacity	150W	175W	230W	400W	RMS
	300W	350W	460W	800W	Program
Woofer	10"	12"	15"	2 x 15"	
Tweeter	Piezo	Piezo	Piezo	Piezo	
Connectors	2	2	2	1	1/4" Phone Jack
Sensitivity @ 1 W / 1 M	96 dB	95 dB	98 dB	100 dB	
Max SPL	-	-	-	-	
Frequency Response	65 Hz - 20 kHz	60 Hz - 20 kHz	50 Hz - 20 kHz	40 Hz - 20 kHz	
Built-in Crossover	√	√	√	√	
Dispersion Angle	90 x 40°	90 x 40°	90 x 40°	90 x 40°	
Nominal Impedance	8Ω	8Ω	8Ω	4Ω	
Dimensions (H x W x D)	491 x 351 x 341 mm (19.3" x 13.8" x 13.4")	540 x 376 x 356 mm (21.3" x 14.8" x 14")	679 x 476 x 388 mm (26.7" x 18.7" x 15.3")	1085 x 476 x 388 mm (42.7" x 18.7" x 15.3")	
Net Weight	11 kg (24.7 lbs)	13 kg (28.6 lbs)	19 kg (40.5 lbs)	32.5 kg (71.8 lbs)	

Appendix XIII: P Studio Monitors

	P5A	P6A	P8A	
Connectors	1	1	1	XLR
	1	1	1	1/4" Phone Jack
Amplifier Low	140W	140W	212W	
Amplifier High	70W	70W	106W	
Woofer Size	5"	6 1/4"	8 3/4"	
Tweeter Size	1"	1"	1"	
Nominal Impedance	8 Ω			
Dimensions (H x W x D)	295 x 196 x 295 mm (11.6" x 7.7" x 11.6")	351 x 221 x 300 mm (13.8" x 8.7" x 11.8")	429 x 269 x 231 mm (16.9" x 10.6" x 9")	
Net Weight	5.6 kg (12.9 lbs)	8.2 kg (18 lbs)	10 kg (22 lbs)	

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