



**PHONIC**

# PROFESSIONAL AUDIO **2019**

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## **AUDIOVISUAL MIXERS**

V Series 1

## **DIGITAL MIXERS**

Helix Board Series 3

## **ANALOG MIXERS**

AM Gold Edition 5

## **SMART SPEAKERS**

Smartman Series 9

## **PORTABLE AUDIO**

Safari Series 12

## **STUDIO MONITOR**

Acumen 17

## **AMPLIFIERS**

ICON Series 18

XP Series 18

## **MIXER/AMPLIFIERS**

ZX Series 19

## **CONTRACTOR SPEAKERS**

VT Series 20

## **AUDIO ANALYZERS**

PAA Series 21



# A/V CONVERGENCE



Wireless audio



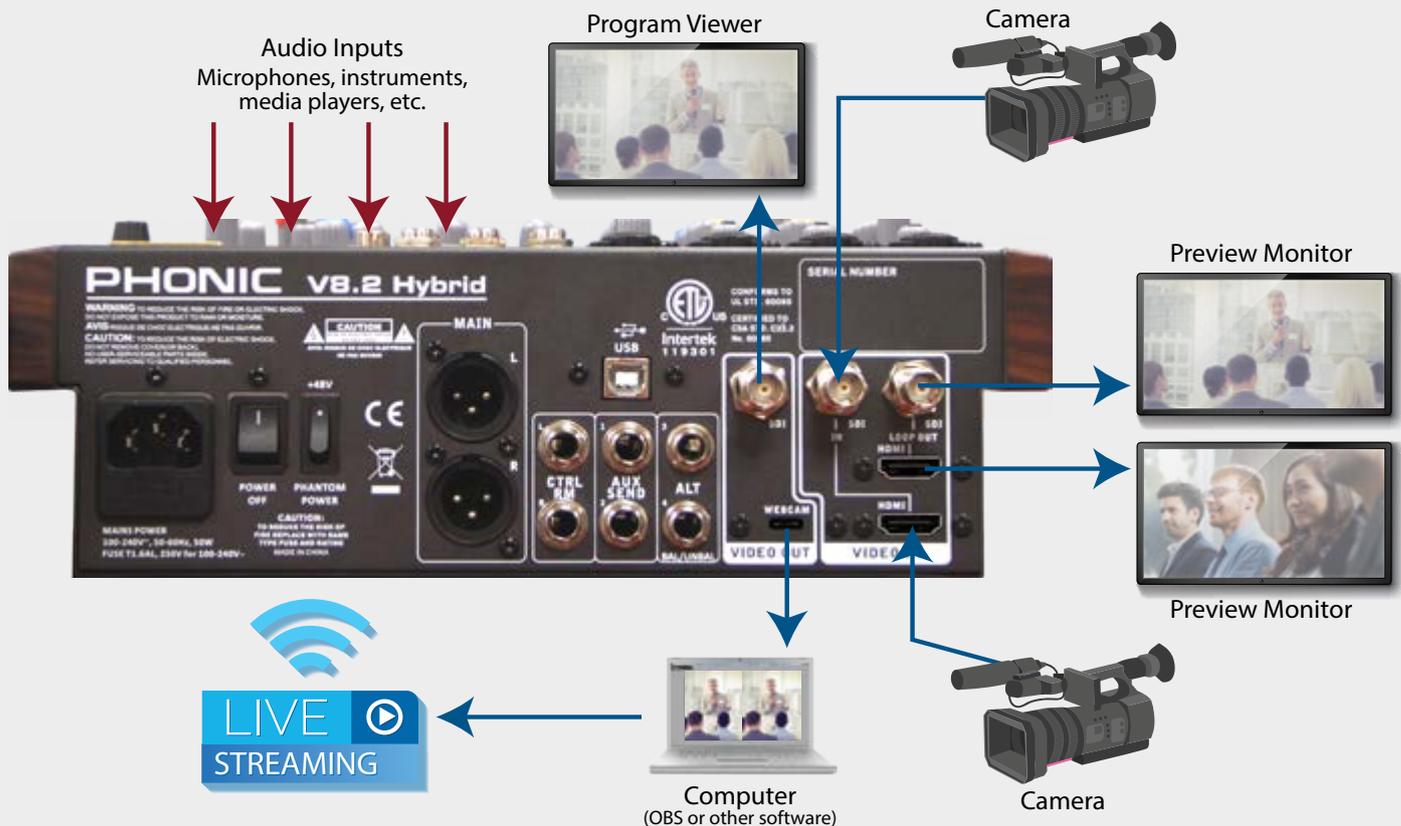
High Definition



3 Transition Types



Dynamic Audio Compressors



## V16.2 Hybrid

### 16 Audio 2 Video Channel Audiovisual Mixing Console



- ▶ 8 Neutrik combo mic/line inputs
- ▶ 4 stereo channels with 4-band EQ (2 stereo channels feature XLR inputs)
- ▶ Video and audio mixing meet in perfect synergy
- ▶ 2 video inputs: HDMI and SDI-3G connectors
- ▶ Direct "loop thru" video outputs on each input for monitoring
- ▶ SDI-3G main program output for viewing your final video mix
- ▶ Supports Full High Definition 1080p video up to 60fps
- ▶ USB-C virtual webcam connector for livestreaming
- ▶ Selectable video transitions (cut, dip and mix)
- ▶ 3-band EQ with swept mid-frequency available on mono channels
- ▶ 75Hz low-cut filter button can be found on each mono channel
- ▶ 4 stereo AUX returns with effect to monitor
- ▶ 4 true subgroups with main L and R routing switches
- ▶ Auxiliary mix with independent AUX out control
- ▶ Independent stereo headphone output jack
- ▶ Stereo RCA 2T return and record out
- ▶ Optional rack mounting kit (sold separately)

## V8.2 Hybrid

### 8 Audio 2 Video Channel Audiovisual Mixing Console



- ▶ 4 mono Neutrik combo mic/line and 2 stereo channels
- ▶ Video and audio mixing meet in perfect synergy
- ▶ 2 video inputs: HDMI and SDI-3G connectors
- ▶ Direct "loop thru" video outputs on each input for monitoring
- ▶ SDI-3G main program output for viewing your final video mix
- ▶ Supports Full High Definition 1080p video up to 60fps
- ▶ USB-C virtual webcam connector for livestreaming
- ▶ Selectable video transitions (cut, dip and mix)
- ▶ Both AUX and EFX sends on each channel
- ▶ 3-band EQs available on all channels
- ▶ Control Room/Phones source matrix for maximum monitor flexibility
- ▶ EFX/AUX send cue for monitoring individual channel
- ▶ Auxiliary mixes with independent AUX send controls
- ▶ Independent stereo headphone output jack
- ▶ Stereo RCA 2T return and record out

	V8.2 Hybrid	V16.2 Hybrid
Total Channels	8	16
Mono/Stereo Input Channels	4/2	8/4
Mic Preamps	4	10
AUX Return	-	4
HDMI	In & Loop Thru	In & Loop Thru
SDI-3G	In, Loop Thru & Program Out	In, Loop Thru & Program Out
Livestreaming	USB-C Virtual Webcam	USB-C Virtual Webcam
Audio Compressor	4	8
Metering	2 x 20 (audio), 2 x 5 (video)	2 x 20 (audio), 2 x 5 (video)
32/40-bit DFX Processor	16 Programs	16 Programs
Other Features	Phantom Power, USB Interface, Bluetooth, Video Transitions, Audio Follow	Phantom Power, USB Interface, Bluetooth, Video Transitions, Audio Follow

Sold Separately:

**V-SH**  
SDI to HDMI Converter



# HELIX BOARD RETURNS



10" colour touch screen



Remote iPad application



Feedback silencer for live use



Stereo recording to USB flash drives



Multi-track audio interface for Mac and PC



Automixing function



## Channel Overviews

Each channel gets a full overview page that - combined with the touch screen - allows instant access to every parameter the internal DSP has to offer.



## Parametric Equalizers

Phonic provides each input channel with a completely parametric 4-band equalizer.

# Helix Board 32i Professional 32 Channel Digital Mixer



Helix Board 32i	
Total Channels	32
Combo Input Jacks	8
Balanced XLR Inputs	24
Main Output	2 x XLR
Control Room Out	2 x XLR
Multi Output	16 x XLR
USB Interface	Multi-track Interface (USB Type-B)
USB Recording	Stereo Recording (USB flash drives)
Internal Sampling Rate	44.1 KHz, 48 KHz
Other Features	Phantom Power

- ▶ 32 independent input channels: 16 mono XLR mic/line inputs plus 8 combo (XLR/TRS), 2 RCA and 6 TRS (3 stereo pairs) input channels
- ▶ Large color touchscreen interface with gorgeous user interface for controlling all functions
- ▶ Internal digital sampling rate selectable between 44.1 and 48 kHz in 24-bit resolution
- ▶ Processing accomplished through a high quality 40-bit floating point digital signal processor
- ▶ High quality 24-bit AD/DA converters offer extraordinary dynamic range
- ▶ Dedicated talkback microphone input connector with assignable talkback button
- ▶ Two physical faders for immediate access to your levels
- ▶ Remote operation through wired Ethernet connection
- ▶ 4-band parametric EQ on every input and output channel

- ▶ Extensive dynamic processing (gates, expanders, compressors, limiters) available on input channels, multi outputs and main mix
- ▶ Four digital effect processors with 8 effect types, up to 9 variable parameters
- ▶ Real-time analysis (RTA) for instantaneous display of system's response
- ▶ Flexible auto ducker feature with adjustable threshold, depth and attack/release times
- ▶ 8 aux and 8 group mixes assignable to any of the 16 multi outputs
- ▶ USB play/record function for making recordings to USB flash drives or playing back digital audio files
- ▶ Save and instantly recall scenes with ease in utility menu
- ▶ 190 x 460 x 429 mm (7.5" x 18.1" x 16.9") / 7.0 kg (15.4 lbs)



## Master Graphic EQ

The Helix Board 32i's master 28-band graphic EQ provides a professional level of boost and cut to ISO standard frequencies perfect for live setups.



## Real Time Analyzer

Perfect for gaining an edge over your venue, the built-in RTA gives real-time visual representation of your audio signals.

# AM GOLD STANDARD



Dynamic Audio  
Compressors



Wireless audio



Flexible WAV &  
MP3 Recording



AM5GE

AM6GE

AM8GE

## Common Features:

- ▶ Record audio in uncompressed wav or compact mp3 format and upload audio to the web from your PC
- ▶ Recording quality up to 192Kbps (MP3) or 1536Kbps (WAV) determined by the user
- ▶ Bluetooth audio streaming from tablets and smartphones
- ▶ Supports playback of numerous digital formats including wav, mp3 and flac
- ▶ USB connectivity for stereo streaming to and from the computer - no driver required!
- ▶ Flexible 'compander' (compressor/expander) available on mono channels
- ▶ Auxiliary mix with independent AUX out control
- ▶ Independent stereo headphone output jack
- ▶ Stereo RCA 2T return and record out

	AM5GE	AM6GE	AM8GE
Total Channels	5	6	8
Mono/Stereo Input Channels	1/2	2/2	4/2
Mic Preamps	1	2	4
AUX/EFX Sends	-	1	1
AUX Return	-	1 stereo	-
Compressor	1	2	4
Metering	2 x 10	2 x 10	2 x 10
Equalization	2-band (mono)	2-band (mono), 3-band (stereo)	2-band (mono)
Low Cut Filter	-	-	75Hz (-18dB/oct)
32/40-bit DFX Processor	-	-	16 Programs
Other Features	Phantom Power, TF Recorder, USB Interface, Bluetooth, Headset Input/Output	Phantom Power, TF Recorder, USB Interface, Bluetooth, Headset Input/Output	Phantom Power, TF Recorder, USB Interface, Bluetooth



AM12GE

AM14GE

AM16GE



All Gold Edition models of our classic AM mixer series are endowed with a phenomenal TF / BT module that can play high resolution and uncompressed digital audio files, plus record audio in beautiful, uncompressed WAV or compact MP3 formats. Integrated Bluetooth allows flawless streaming from all modern smartphones and tablets.

	AM12GE	AM14GE	AM16GE
Total Channels	12	14	16
Mono/Stereo Input Channels	4/4	6/4	8/4
Mic Preamps	6	8	10
AUX/EFX Sends	2	3	4
AUX Return	2 stereo	2 stereo	4 stereo
Compressor	4	6	8
Metering	2 x 20	2 x 20	2 x 20
Equalization	3-band swept mid (mono), 4-band (stereo)	3-band swept mid (mono), 4-band (stereo), 9-band Main GEQ	3-band swept mid (mono), 4-band (stereo)
Low Cut Filter	-	-	75Hz (-18dB/oct)
32/40-bit DFX Processor	16 Programs	16 Programs	16 Programs
Other Features	Phantom Power, TF Recorder, USB Interface, Bluetooth	Phantom Power, TF Recorder, USB Interface, Bluetooth	Phantom Power, TF Recorder, USB Interface, Bluetooth, Serial I/O

## AM5GE

1-Mic/Line, 2-Stereo Line Input Compact Mixer with Bluetooth & TF Recording/Playback



- ▶ One Neutrik combo mic/line and two stereo channels
- ▶ 2-band EQ on mono input channel
- ▶ RCA & mini-stereo 2T return
- ▶ Stereo 10 segment level metering
- ▶ Headset mic and headphones connectors perfect for livestreaming and web conferencing
- ▶ Powered via 5V USB (adapter included)
- ▶ 155.6 x 50.5 x 244 mm (6.12" x 1.99" x 8.82") / 1.1 kg (2.4 lbs)

## AM6GE

2-Mic/Line, 2-Stereo Line Input Compact Mixer with Bluetooth & TF Recording/Playback



- ▶ Two balanced Neutrik combo mic/line with 2-band EQ
- ▶ Two stereo inputs with 3-band EQ
- ▶ 1 stereo AUX return
- ▶ Post-fader AUX send on every input
- ▶ Stereo 10 segment level metering
- ▶ 2T RTN/USB to Main or Control Room assignment buttons
- ▶ Headset mic and headphones connectors perfect for livestreaming and web conferencing
- ▶ Powered via 5V USB (adapter included)
- ▶ 190 x 56 x 233 mm (7.48" x 2.2" x 9.17") / 1.5 kg (3.3 lbs)

## AM8GE

4-Mic, 2-Stereo Line Input Compact Mixer with DFX, Bluetooth and TF Recording/Playback



- ▶ Four mono Neutrik combo mic/line and two stereo channels
- ▶ AUX send on each channel
- ▶ 75Hz low-cut filter on mono channel
- ▶ 2-band EQ on mono channels
- ▶ Stereo 10 segment level metering
- ▶ Control Room/Phones source matrix for maximum monitor flexibility
- ▶ EFX/AUX send cue for monitoring individual channel
- ▶ 32/40-bit DFX processor with 16 programs and main parameter control
- ▶ 242 x 55 x 228 mm (9.5" x 2.2" x 8.99") / 1.7kg (3.75 lbs)

## AM12GE

4-Mono, 4-Stereo Input 2-Group Mixer with DFX, Bluetooth & TF Recording/Playback



- ▶ Four Neutrik combo mic/line inputs with phantom power
- ▶ Four stereo channels with 4-band EQ (two with XLR inputs)
- ▶ 3-band EQ with swept mid-frequency on mono channels
- ▶ 32/40-bit DFX processor with 16 programs each with a user-adjustable parameter
- ▶ Stereo 20 segment level metering
- ▶ 2 stereo AUX returns with effect to monitor
- ▶ ER-12GE rack mounting kit sold separately
- ▶ 300 x 103.5 x 340 mm (11.8" x 4.11" x 13.4") / 4.2 kg (9.25 lbs)

## AM14GE

6-Mono, 4-Stereo Input 2-Group Analog Mixer with DFX, Bluetooth & TF Recording/Playback



- ▶ Six mono Neutrik combo mic/line channels with 3-band swept-mid EQs
- ▶ Four stereo channels with 4-band EQs (two with XLR inputs)
- ▶ AUX send on each channel
- ▶ 3-band EQ on mono channels
- ▶ Control Room/Phones source matrix for maximum monitor flexibility
- ▶ 32/40-bit DFX processor with 16 programs each with a user-adjustable parameter
- ▶ 2 true subgroups with main L and R routing switches
- ▶ Stereo 20 segment level metering
- ▶ ER-14GE rack mounting kit sold separately
- ▶ 407 x 104.5 x 357 mm (16" x 4.07" x 14") / 4.8 kg (10.6 lbs)

## AM16GE

8-Mono, 4-Stereo Input 4-Group Analog Mixer with DFX, Bluetooth & TF Recording/Playback



- ▶ Eight Neutrik combo mic/line inputs with phantom power
- ▶ Four stereo channels with 4-band EQ (two with XLR inputs)
- ▶ 3-band EQ with swept mid-frequency (mono channels)
- ▶ 32/40-bit DFX processor with 16 programs each with a user-adjustable parameter
- ▶ 75Hz low-cut filter on mono channels
- ▶ 4 stereo AUX returns with effect to monitor
- ▶ Serial direct output and insert connectors
- ▶ Stereo 20 segment level metering
- ▶ 4 true subgroups with main L and R routing switches
- ▶ ER-16GE rack mounting kit sold separately
- ▶ 418 x 149 x 420 mm (16.46" x 5.89" x 16.54") / 5.9 kg (13 lbs)

# THE 'SMART' SPEAKER



Record to and play from USB flash drives



Wireless audio



Smartman 303A

Smartman 300A

Smartman 703A/708A

Smartman 700A

The Smartman series also offers a number of expansion speakers that feature the same fantastic style and power but not the extensive signal processing of the regular versions. These simplified versions allow for multiple speakers to be used to increase coverage area.

	Smartman 303A	Smartman 703A	Smartman 708A	Smartman 300A	Smartman 700A
Continuous Output	120W	700W	700W	120W	700W
Peak Output	240W	1400W	1400W	240W	1400W
Woofer	8"	12"	12"	8"	12"
Tweeter	1"	1¾"	1¾"	1"	1¾"
Input	Combo (XLR/¼"), ¼", RCA	Combo (XLR/¼"), ¼", RCA	Combo (XLR/¼"), ¼", RCA	Combo (XLR/¼")	Combo (XLR/¼")
Output	XLR, ¼"	XLR, ¼"	XLR, ¼"	XLR	XLR
Remote Operation	WiFi / RS485	WiFi / RS485	WiFi / RS485	-	-
USB Playback / Recording	Yes	Yes	Yes	-	-
Bluetooth	Yes	Yes	Yes	-	-
Signal Processors	Compressor/Limiter, PEQ, GEQ, Delay	Compressor/Limiter, PEQ, GEQ, Delay	Compressor/Limiter, PEQ, GEQ, Delay	-	-
Digital EFX	Reverb, Delay, Chorus	Reverb, Delay, Chorus	Reverb, Delay, Chorus	-	-
Wireless Microphones	2 (optional)	2 (optional)	2 (optional)	-	-



## 120 Watt 8" Intelligent All-in-one Audio Systems

- ▶ 8" woofer combined with 1" tweeter
- ▶ 120 Watts of power through D class amplifiers
- ▶ 418 x 292 x 252 mm (16.5" x 11.5" x 9.9") / 9.5 kg (21 lbs)

## 700 Watt 12" Intelligent All-in-one Audio Systems

- ▶ 12" woofer combined with 1 1/4" tweeter
- ▶ 700 Watts of power through AB and D class amplifiers
- ▶ 635 x 375 x 372.5 mm (25" x 14.8" x 14.7") / 19 kg (41.9 lbs)

## Common Features:

- ▶ All-in-one system incorporates digital mixer, active loudspeaker, two UHF microphones (optional) and flexible Windows software for remote operation through RJ-45 connector (using an RS-485 protocol)
- ▶ 11 channel digital mixer including microphone combo (XLR/1/4") input, stereo line inputs and stereo RCA inputs in addition to Bluetooth and USB inputs and the UHF wireless microphone option (Smartman 303A, 703A)
- ▶ 14 channel digital mixer on the Smartman 708A, including combo, stereo line inputs and stereo RCA inputs (and more) in addition to Bluetooth and USB inputs and the Bluetooth (Phonic BTM 10)/UHF wireless microphone option
- ▶ Wireless Bluetooth audio streaming from smartdevices
- ▶ Digital mixer includes level adjustment, flexible compressor/limiter, channel EQs, main GEQ, high pass filters, low pass filters and delay
- ▶ Digital effect processor with reverb, tap delay, echo and chorus effects, each with user-adjustable parameters
- ▶ Infinite expansion through Smartman expansion speakers (300A, 700A)
- ▶ Flexible signal processing controlled through Windows software or WiFi
- ▶ XLR and 1/4" Link outputs with user-selectable stereo/mono operation
- ▶ Wide frequency response for superior audio output
- ▶ Wireless UHF microphone systems (optional)
- ▶ Up to 200 meters of delay can be added to any unit

## SMARTMAN OPTIONS AND ACCESSORIES

### Wireless Handheld System (WM-1S)

Handheld Wireless System



### Wireless Lavalier System (WL-1S)

Bodypack Transmitter



### Wireless Headset System (WH-1S)

Bodypack Transmitter



### Waterproof Cover for 703 and 708 (Smartman 700WPC)



Smartman Active Expansion Speakers also available (**Smartman 300A** and **Smartman 700A**)

# PASSIVE EXPANSION SPEAKERS

## Smartman 300A

## Smartman 700A



120 Watt 8" Active Expansion Speaker

- ▶ 8" woofer combined with 1" tweeter
- ▶ 120 Watts of power through D class amplifiers



700 Watt 12" Active Expansion Speaker

- ▶ 12" woofer combined with 1 3/4" tweeter
- ▶ 700 Watts of power through AB and D class amplifiers

## Common Features:

- ▶ Combo input for XLR and 1/4" phone jack inputs
- ▶ XLR output connector for extended operation
- ▶ Wide frequency response for superior audio output
- ▶ Pole mount for extended audience reach
- ▶ Road-worthy impact resistant polymer enclosures
- ▶ Tour grade grille for speaker protection



Smartman App Overview



Smartman App Channel Properties

## Remote Operation

The Smartman 303A, Smartman 703A and Smartman 708A provide two main methods of control. The first is through the flexible Windows software that can connect to the Smartman via any local area network. The second is a free iPad app that allows you to connect directly to the Smartman via WiFi and control the internal digital mixer while remotely.

## Smartman's Control Software

The Smartman Controller software provides 6 main menus for different control purposes: Input, Output, AUX, EFX, GEQ and Setup. Level meters appear on the top of all pages for continuous monitoring of input and output signals.

# GO ON SAFARI



Wireless Audio Streaming



Analog Mixer



Rechargeable Battery



Easy Mobility



SAFARI 1000

SAFARI 1500

SAFARI 2000

SAFARI 3000

## OPTIONAL ACCESSORIES



**WR-1**  
Wireless Receiver



**WR-2**  
Dual Channel Wireless Receiver



**SAFARI 2000WPC**  
Water Proof Cover



**SAFARI 3000WPC**  
Water Proof Cover



**WM-1**  
Handheld  
Wireless Mic



**WB-1**  
Bodypack  
Transmitter



**WL-1**  
Lavalier  
Mic



**WH-1**  
Headset  
Mic



### 50 Watt Portable PA System with Wireless Microphone, USB Recorder/Player and Bluetooth Wireless Streaming

- ▶ Powerful 50-watt (25W RMS) output for loud, clear sound
- ▶ Elegant contour design and best-in-class performance
- ▶ Ultra compact, feather light & ergonomically portable
- ▶ Built-in wireless receiver with 16 frequency channels
- ▶ Single wireless microphone on Safari 1000M, dual microphone on Safari 1000D
- ▶ One-touch Scan/ACT sync button for easy channel set-up
- ▶ USB music player/recorder with LCD screen
- ▶ Record in uncompressed WAV format
- ▶ Bluetooth audio streaming from modern smartphones and tablets
- ▶ 3.5mm line input accepts an external MP3, iPod or CD player
- ▶ Built-in alarm/siren for warning of threats, as well as paging lead
- ▶ 2 power modes: AC & built-in lithium rechargeable battery
- ▶ 4-level battery meter (25/50/75/100%) for accurate reading
- ▶ Use of shoulder strap or optional microphone stand
- ▶ 10 to 12 hours of stand-by time per fast charge



### 50 Watt Portable PA System

- ▶ Powerful 50-watt (25W RMS) output for loud, clear sound
- ▶ Elegant contour design and best-in-class performance
- ▶ Ultra compact, feather light & ergonomically portable
- ▶ 3.5mm line input accepts an external MP3, iPod or CD player
- ▶ Built-in alarm/siren for warning of threats, as well as paging lead
- ▶ 2 power modes: AC & built-in lithium rechargeable battery
- ▶ 4-level battery meter (25/50/75/100%) for accurate reading
- ▶ Use of shoulder strap or optional microphone stand
- ▶ 10 to 12 hours of stand-by time per fast charge



**SAFARI 1000**  
Shoulder Strap  
& Mic Holder

## SHARED FEATURES

- ▶ Supports UHF wireless microphone systems
- ▶ Stylish molded polymer enclosure and curved design help withstand life on the road
- ▶ 10 to 12 hours of stand-by time per fast charge
- ▶ Bluetooth connectivity
- ▶ Integrated USB recording and digital media playback (excludes Safari 1000 Lite)
- ▶ 170 x 156 x 280 mm (6.7" x 5.5" x 11") / approx. 1.7 kg (3.7 lbs)



**60 Watt Portable PA System with Wireless Microphones, USB Recorder/Player and Bluetooth Wireless Streaming**

- ▶ Powerful 60-watt (30W RMS) output for loud, clear sound
- ▶ Built-in single ("M") or dual ("D") mic wireless receiver
- ▶ 2 channel mixer with Neutrik Combo, RCA and TS inputs
- ▶ Voice priority switch found on 'combo' microphone input
- ▶ One-touch Scan/ACT sync button for easy channel set-up
- ▶ USB music player/recorder with LCD screen
- ▶ Record uncompressed WAV format
- ▶ Bluetooth audio streaming possible from compatible devices
- ▶ Supports up to 2 wireless microphones through dual channel wireless system (single microphone on Safari 1500M)
- ▶ Includes flexible travel bag



**SAFARI 1500**  
Carry Bag Included

**INCLUDED ACCESSORIES**

**Safari 1000M**



Wireless handheld  
Microphone

**Safari 1000D**



Wireless handheld  
Microphones

**Safari 1000 Lite**



Handheld Microphone



Spiral Cable

**Safari 1500M**



Wireless handheld  
Microphone

**Safari 1500D**



Wireless handheld  
Microphones

## SHARED FEATURES

- ▶ 8" woofer and 1" tweeter
- ▶ Features RCA output plus a powered output for connection of passive companion speakers
- ▶ Stylish molded polymer enclosure and curved design help withstand life on the road
- ▶ 418 x 292 x 252 mm (16.5" x 11.5" x 9.9") / 9.5 kg (21 lbs)

### ALSO AVAILABLE

#### Wireless Handheld System (WM-1S)



#### Wireless Lavalier System (WL-1S)



#### Wireless Headset System (WH-1S)



Safari 2000SYS1  
is Safari 2000 + WM-1S + CD/USB

Safari 2000SYS2  
is Safari 2000 + WM-1S + USBR-1



SAFARI 2000DC  
Dust Cover

SAFARI 2000WPC  
Water Proof Cover

BT

Wireless audio



SAFARI 2000SYS2

## Safari 2000

200 Watt 8" Mobile PA System with 2-Channel Mixer

- ▶ 2 channel onboard mixer: combo jack (XLR & 1/4"), 1/4" TS and RCA inputs
- ▶ Outputs: RCA output and powered output for passive companion speakers
- ▶ Dual class D amplifiers offer 60 Watts RMS / 120 Watts Peak
- ▶ Built-in long-life rechargeable battery
- ▶ Bluetooth enabled! Stream music to the Safari from almost any Bluetooth-enabled device
- ▶ Supports up to 4 wireless microphones (through optional dual channel wireless systems)



SAFARI 2000P

## Safari 2000P

200W 8" Passive Companion Speaker

- ▶ Perfect companion to the Safari 2000 portable audio systems
- ▶ 200W power handling



**BT**

Wireless audio



Highly Portable



Retractable Handle

## Safari 3000

320 Watt 10" Mobile PA System with 3-Channel Mixer

- ▶ 3 channel onboard mixer: Dual combo jack (XLR & 1/4"), mini-stereo and RCA inputs
- ▶ Outputs: RCA output and powered output for passive companion speakers
- ▶ Dual class D amplifiers offer 160 Watts RMS / 320 Watts continuous
- ▶ Proprietary power supply and efficient battery management system
- ▶ Bluetooth enabled! Stream music to the Safari from almost any Bluetooth-enabled device
- ▶ Supports up to 4 wireless microphones (through optional dual channel wireless systems)



SAFARI 3000SYS1



SAFARI 3000P

## Safari 3000P

320 Watt 10" Passive Companion Speaker

- ▶ Perfect companion to the Safari 3000 portable audio systems

## SHARED FEATURES

- ▶ 10" long-throw woofer and 1" pure titanium compression tweeter
- ▶ Retractable metal handle and wheels for improved portability
- ▶ 553 x 350 x 333 mm (21.8" x 13.8" x 13.1") / 16 kg (35 lbs)

## ALSO AVAILABLE

### Wireless Handheld System (WM-2S)



### Wireless Lavalier System (WL-2S)



### Wireless Headset System (WH-2S)



Safari 3000SYS1  
is Safari 3000 + WM-1S + CD/USB  
Safari 3000SYS2  
is Safari 3000 + WM-1S + USBR-1



SAFARI 3000DC  
Dust Cover

SAFARI 3000WPC  
Water Proof Cover

# REFERENCE QUALITY

The ACUMEN's custom-designed paper cone woofers, silk tweeters, and meticulous material selection create its lush yet accurate signature sound. The bi-amplified Acumen has the best-in class wattage output with a combined 73 Watts for the Acumen 6A and 100 Watts for the ACUMEN 8A. Phonic's unique steeple-shaped enclosure minimizes acoustic inaccuracies found in standard box-shaped speakers and maximizes bass extension, acoustic sweet spot, and transparency while reducing common abnormalities such as resonance peaks, diffraction and port turbulence. So whether you are looking for an accurate monitoring system for recording, a pair of speakers for your DJ booth, or even a set of premium speakers for music playback, the finely tuned Acumen series will be a delight to your eyes and ears.

## ACUMEN 6A

## ACUMEN 8A



### 146 Watt 6" Studio Monitor

- ▶ Bi-amplified design: 73 Watts RMS / 146 Watts continuous
- ▶ Long-throw custom-designed 6" paper cone woofer generates stunningly deep bass response
- ▶ 338 x 219 x 259 mm (13.3" x 8.6" x 10.2") / 7.5 kg (16.5 lbs)

### 200 Watt 8" Studio Monitor

- ▶ Bi-amplified design: 100 Watts RMS / 200 Watts continuous
- ▶ Long-throw custom-designed 8" paper cone woofer generates stunningly deep bass response
- ▶ 425 x 275 x 300 mm (16.7" x 10.8" x 11.8") / 10.9 kg (24 lbs)

### Common Features:

- ▶ 1" silk dome tweeter with neodymium magnet provides highly transparent and airy highs
- ▶ Max. SPL of 107dB for Acumen 6A and 110dB for Acumen 8A
- ▶ Reliable and accurate sound signature; true to source material
- ▶ Adjustable high frequency, compensation
- ▶ Exceptional HF dispersion provides excellent detail and sound stage
- ▶ Magnetic shielding allows placement near other electronic devices
- ▶ Flexible inputs: XLR, TRS (1/4"), RCA
- ▶ 4th Order active Linkwitz-Riley crossover design
- ▶ Electronic speaker protection prevents transducer damage
- ▶ Available in Piano Black and Phonic Red

	Acumen 6A	Acumen 8A
Amplifier	Bi-Amplified	Bi-Amplified
High / Low Frequency Power (RMS)	25W / 48W	25W / 75W
Woofer / Tweeter	6" / 1"	8" / 1"
Frequency Response (+-3dB)	49 Hz - 20 kHz	44 Hz - 20 kHz
Maximum SPL	107 dB	110 dB

## ICON 300

## ICON 700



### 300 Watt Contractor Amplifier

- ▶ Output power: 2 x 150W at 4 ohms, 70V or 100V
- ▶ XLR and barrier strip input connectors
- ▶ Output via covered barrier strips
- ▶ Automatic dual-speed, high-efficiency cooling fan
- ▶ Full short-circuit, temperature and DC offset protection
- ▶ Toroidal output transformers provide full electrical isolation and meet worldwide safety standards
- ▶ 132 x 480 x 428 mm (5.2" x 19" x 16.9") / 20.2 Kg (44.5 lbs)

### 700 Watt Contractor Amplifier

- ▶ Output power: 2 x 350W at 4 ohms, 70V or 100V
- ▶ XLR and barrier strip input connectors
- ▶ Output via covered barrier strips
- ▶ Automatic dual-speed, high-efficiency cooling fan
- ▶ Full short-circuit, temperature and DC offset protection
- ▶ Toroidal output transformers provide full electrical isolation and meet worldwide safety standards
- ▶ 132 x 480 x 428 mm (5.2" x 19" x 16.9") / 24.3 Kg (53.5 lbs)

### Common Features:

- ▶ High continuous current output from robust toroidal transformer
- ▶ Fast Recovery design for lower distortion if clipping occurs
- ▶ Signal level at -40, -20, -10, protect and clip LED indicators to monitor performance
- ▶ Ground Lift switch to prevent humming
- ▶ Selectable stereo, parallel & bridge mono amp modes
- ▶ 2 ventilation variable speed fans
- ▶ Speakon-type connectors and 5-way binding posts speaker outputs
- ▶ XLR & 1/4" TRS connectors for maximum input flexibility
- ▶ Requires 3U of a standard 19" rack

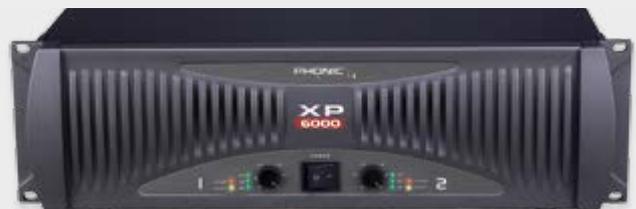
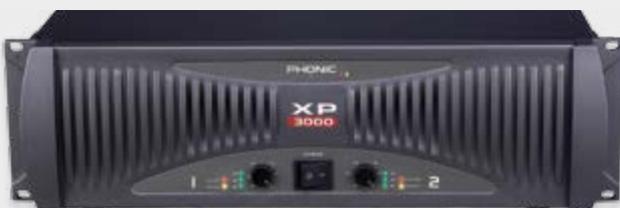
#### ICON 300

#### ICON 700

Watts into 2 / 4 / 8ohms	300W x 2 / 200W x 2 / 120W x 2	550W x 2 / 400W x 2 / 240W x 2
Watts (70V/100V)	150W x 2	350W x 2
Watts, Bridge Mode (1kHz,1%THD)	540W into 4 ohms	1100W into 4 ohms
Fans	1 dual speed	1 dual speed
Controls	Detented Gain (rear); Parallel/Stereo/Bridge	Detented Gain (rear); Parallel/Stereo/Bridge

## XP2000 / XP3000

## XP5000 / XP6000



### 1920 Watt / 2800 Watt Power Amplifiers

- ▶ Output Power: 960W/1400W @ 2Ω / channel, 660W/1100W @ 4Ω / channel
- ▶ 482.6 x 133.5 x 376mm (19" x 5.2" x 14.8")

### 5000 Watt / 6000 Watt Power Amplifiers

- ▶ Output Power: 2500W/3000W @ 2Ω / channel, 1800W/2400W @ 4Ω / channel
- ▶ Independent user-defeatable clip limiters reduce distortion
- ▶ XLR, 1/4" and barrier strip inputs all included
- ▶ 482.6 x 133.5 x 376mm (19" x 5.2" x 14.8")

	XP 2000	XP 3000	XP 5000	XP 6000
Watts into 2 ohms	960W x 2	1400W x 2	2500W x 2	3000W x 2
Watts into 4 ohms	660W x 2	1100W x 2	1800W x 2	2400W x 2
Watts, Bridge Mode	1920W into 4 ohms	2800W into 4 ohms	5000W into 4 ohms	6000W into 4 ohms

# POWERFUL & EFFICIENT

The ZMx100 and ZMx200 rack-mountable multi-zone public address amplifiers offer users with an easy and convenient solution for public announcement, relay and other commercial applications. Input is achieved via three combo jacks for microphones plus two line-level input channels. Line input 1 accepts RCA and 1/4" connectors while line 2 accepts RCA and 1/8" mini-stereo jacks. Onboard USB module allows users to play audio directly from USB flash drives, while built-in chime alert and announcement tones enable for quick and easy emergency talkback. A battery terminal allows the unit to be operational for emergency use even in the event of power loss. Offering 100 to 200 Watts split between each zone, the ZMx100 and ZMx200 are among the most flexible and powerful public address amplifiers available in today's commercial/installation audio market.

## Common Features:

- ▶ 3 microphone, 2 line input channels
- ▶ Microphone input via combo jacks on first 3 channels
- ▶ Line 4 input offers stereo RCA and 1/4" TRS
- ▶ Line 5 input offers stereo RCA and mini-stereo
- ▶ Screw terminal speaker output connectors
- ▶ Built-in echo effect with volume control
- ▶ Stereo RCA tape in / line out connectors
- ▶ Alert chimes and 'announce' tones built-in
- ▶ Battery connectivity for emergencies in power-outages
- ▶ 6-segment LED VU meter for main output mix
- ▶ Front panel system EQ with treble and bass controls
- ▶ Individual zone output select buttons
- ▶ Record to USB cards in WAV or MP3 format
- ▶ Direct playback of MP3, WAV or FLAC audio files
- ▶ Bluetooth connectivity for streaming digital audio from smart devices
- ▶ 1/4" TRS link inputs and outputs
- ▶ Removable rack ears included
- ▶ 2 standard rack units high

## ZMx100



### 100 Watt 4 Zone Amplifier

- ▶ 100 Watt (RMS) of power at 4 ohms, 100V
- ▶ 4 independent zones, each with individual assignment button
- ▶ 483x 89 x 290 mm (19" x 3.5" x 11.4")

## ZMx200



### 200 Watt 8 Zone Amplifier

- ▶ 200 Watt (RMS) of power at 4 ohms, 100V
- ▶ 8 independent zones, each with individual assignment button
- ▶ 483x 89 x 290 mm (19" x 3.5" x 11.4")

	ZMx100	ZMx200
Power Output (Rated)	100W	200W
Combo Inputs	3	3
RCA Inputs	3 stereo	3 stereo
Other Inputs	Mini-stereo, 1/4" TRS	Mini-stereo, 1/4" TRS
Link Input/Output	Yes	Yes
100V Output	Yes - 4 Zones	Yes - 8 Zones
4Ω Output	Yes - 2 channels	Yes - 4 channels
Other Features	Phantom Power, USB Player/Recorder, Bluetooth Interface	Phantom Power, USB Player/Recorder, Bluetooth Interface

# EASY INTEGRATION

For the time-conscious installer, we offer the surface-mount VT series of passive contractor speakers. These lightweight speakers provide phenomenal sound in challenging acoustical environments. The 3" and 5¼" speakers come complete with perfectly matched tweeters. Each model comes complete with a yoke mount bracket for immediate installation (a ball mount is also available, sold separately). High impact polystyrene enclosures are perfect for both indoor and outdoor setup. All VT series speakers feature onboard transformers with a number of user-selectable taps for use in 8Ω, 70V or 100V system setups. Phonic offers the VT commercial installation speakers in both black and white finishes.

## Common Features:

- ▶ Built-in transformer with taps available at 3.8W, 7.5W, 15W and 30W (70V, 100V) / 8Ω selected by switch
- ▶ Ultra-wide frequency response and audio dispersion
- ▶ A swiveling yoke mount bracket comes standard
- ▶ Binding post input connectors
- ▶ Ideal for both indoor and outdoor use
- ▶ Built of high impact polystyrene
- ▶ Protective powder coated aluminum grille
- ▶ Available in classic black or modern white finishes

## VT30



VT30W

VT30B

### 3" Wall Mount Speaker with 30 Watt Transformer

- ▶ 3" polystyrene cone woofer with ¾" titanium dome tweeter
- ▶ 30W continuous power handling, recommended amplifier power: 60W (8 ohms)
- ▶ 85dB sensitivity at 1 Watt / 1 meter
- ▶ 123 x 140 x 180 mm (4.8" x 5.5" x 7.1") / 2 kg (4.4 lbs)

## VT50



VT50W

VT50B

### 5¼" Wall Mount Speaker with 30 Watt Transformer

- ▶ 5¼" polystyrene cone woofer with ¾" titanium dome tweeter
- ▶ 60W continuous power handling, recommended amplifier power: 120W (8 ohms)
- ▶ 86dB sensitivity at 1 Watt / 1 meter
- ▶ 178 x 182 x 286 mm (7" x 7.2" x 11.3") / 7 kg (15.4 lbs)

	VT30	VT50
IEC RMS Power Handling	15W	30W
Transformer Taps	70V: 30, 15, 7.5 3.8W 100V: 30, 15, 7.5W	70V: 30, 15, 7.5 3.8W 100V: 30, 15, 7.5W
Woofer	3"	5¼"
Tweeter	¾"	¾"
Sensitivity (1W/1m)	85 dB	86 dB
Mounting	Yoke Mount, Ball Mount	Yoke Mount (Ball Mount Optional)

# ESSENTIAL TOOLS FOR PROFESSIONALS

For the sound engineer who settles for nothing short of perfection, Phonic offers the PAA6 Audio Analyzer – a dual-channel, digital tester with 9 critical audio and signal analyzer functions. All accessible through the palm-sized unit's color touch-screen, the PAA6 utilizes an industrial-grade real-time spectrum analyzer, RT60 reverb calculator, LEQ, EQ setting and phase checking, polarity and scope functions, FFT, THD+N, and 2 built-in microphones that can take precise measurements from multiple positions. Complete with onboard memory and computer connectivity, a USB 2.0 connector and SD card slot are included to easily transfer information with a computer. Windows mirroring software is now available through the Phonic website. The PAA6 is not only the ideal tester for professional engineers, live situations, and industrial sound, but also the go-to unit for regulatory purposes and product development.

## PAA6 2-Channel Audio Analyzer with Color Touch LCD



- ▶ 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
- ▶ Elegant graphical user interface
- ▶ Long-lasting rechargeable lithium-ion battery system
- ▶ Useful functions include RTA, LEQ, RT-60, FFT, THD+N, Polarity, Phase, Scope and Meter (dB SPL, dBu, dBV, Volt)
- ▶ USB 2.0 port and SD card slot included for storing and retrieving data
- ▶ 30 to 130 dB SPL meter
- ▶ 175 x 40 x 106 mm (6.9" x 1.6" x 4.2") / 0.46 kg (1 lbs)

# ANALYZER ESSENTIALS



Occupational Health & Safety



Studio



Manufacturing



Live Venues



## RTA

Take measurements in real-time in resolutions of 1, 2/3, 1/3 and 1/6 octaves at varying weightings and response times.



## FFT

The Fast Fourier Transform acts as a high resolution real time analyzer with a much wider frequency range and fast response time.



## RT60

Measure the reverb time of any room and view a standard reverb graph with a time and level axis. Also allows users to refine results to filter particular frequencies.



## THD+N

Run a test tone through any piece of audio equipment and back to the PAA6 to read the standardized total harmonic distortion plus noise results of that unit.



## Phase

View the phasing of two signals through this accurate graph, updated in real-time.



## Meter

Measure sound pressure, dBu, dBV and voltage levels through this highly accurate meter. Take sound pressure level measurements between 30 and 130 dB SPL; dBu measurements between -85 and 25 dBu; dBV between -87.2 and 22.8 dBV, and; Voltage measurements can be taken between 0.0436mV and 13.8V.



## Scope

View the waveform of any signal through this oscilloscope. Horizontal division time and level range are both user definable, and users can zoom in and out to better view the waveform.



## Polarity

Check the polarity of any loudspeaker with this function. The polarity signal can be taken from the PAA6's own signal generator, or the PAA6 take measurements with any standard polarity signal.



## LEQ

Find the equivalent continuous noise level of a room or other venue over a period of time. Measurements can be taken anywhere between 1 minute and 48 hours.

## PAA3X Handheld Audio Analyzer

- ▶ 31-band and 61-band real time spectrum analyzer
- ▶ 31-band and 61-band EQ setting value display (Boost/Cut)
- ▶ Detachable calibrated measurement microphone
- ▶ Includes 5m mic cable for remote placement of measurement mic, perfect for home theater and automotive application
- ▶ SPL meter and level meter with three level range selections
- ▶ Sound pressure level meter from 30 dB to 130 dB
- ▶ Line signal measurement display in dBu, dBV, or Volts (AC)
- ▶ Polarity function for checking phase of any loudspeaker
- ▶ Mic calibration through standard 94dB sound level calibrator
- ▶ Snapshot button for instant screen captures saved to SD card
- ▶ Signal generator with pink noise, sine wave, sweep wave and polarity test signal
- ▶ A, B, C and flat weightings all available for measurements
- ▶ Maximum level and peak hold display
- ▶ Balanced XLR input and output connectors
- ▶ Rechargeable lithium-ion battery
- ▶ Micro USB port for charging battery
- ▶ AC power adapter and USB cable included
- ▶ Microphone stand included for flexible mic placement
- ▶ Also includes SD card and microphone stand adapter
- ▶ 156 x 90 x 37.5 mm (6.14" x 3.54" x 1.5") / 325 g (0.7 lbs)

Right alongside a flashlight and duct tape, no serious audio engineer should go anywhere without the Phonic PAA3X in their back pocket. Developed on the back of the popular PAA3, the PAA3X inherits all the widely praised features of its predecessor yet with many more surprises and an all-new design.

This handheld audio analyzer is resoundingly accurate and features an array of different tools, including 31-band and 61-band real-time spectrum analyzers, a reverb time analyzer, sound pressure and line level meters, internal signal generator, EQ setting calculations and speaker polarity checking abilities. It also features a detachable calibrated measurement microphone that offers greater flexibility in mic positioning.

All functions and menus are controlled through central jog dials, so your other hand is free to adjust audio settings. A large, bright LCD display provides visibility in any environment, and a rechargeable lithium-ion battery ensures the PAA3X is always ready when you need it.



### RTA



Take measurements in real-time in resolutions of 1/3 and 1/6 octaves at varying weightings and response times.

### Meter



Measure sound pressure, dBu, dBV and voltage levels through this highly accurate meter. Take sound pressure level measurements between 30 and 130 dB SPL; dBu measurements between -85 and 25 dBu; dBV between -87.2 and 22.8 dBV, and; Voltage measurements can be taken between 0.0436mV and 13.8V.

### RT60



Measure the reverb time of any room and view time results on screen.

### Polarity



Check the polarity of any loudspeaker with this function. The polarity signal can be taken from the PAA3X's built-in signal generator, or the PAA3X take measurements with any standard polarity signal.





# PHONIC CORPORATION

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