



Features

- ▶ Audiophile-quality & ultra low noise circuitry
- ▶ Stereo USB audio interface for recording and playback of audio
- ▶ Plug-and-play compatibility with all modern Windows and Mac computers
- ▶ Compatible with most DAW and recording programs on the market today
- ▶ Global +48V phantom power for use with condenser microphones
- ▶ Stereo RCA 2T Return and Record output connectors for consumer devices
- ▶ "D" models offer Phonic's famous 32/40-bit DFX processors with 100 effects, tap delay and test tones
- ▶ Peak and VU metering on all models with either 4 or 12 segment displays

Description

Phonic's classic AM series of mixers are compact and versatile with anywhere between 1 and 8 mono Mic/Line and numerous stereo inputs. The all-new AM mixers have been further enhanced with onboard USB connectivity. This allows stereo audio to be sent to and from any modern PC or Mac computer for recording and/or playback of digital audio. Ultra low-noise pre-amps ensure high quality sound when used in project studios or in sound reinforcement. Low-cut filters on mono channels eliminate unwanted sounds like stage rumble, P-pops, wind noise and low frequency recording studio room resonances. The multi-band EQ on mono channels gives you total control over your mix. The AM USB series also makes monitoring the mix easy with its dual multi-segment LED level meters and high volume headphone outputs.

AM USB SERIES

USB-enabled Compact Mixer

AM220 USB | AM220P USB | AM240D USB | AM440D USB

AM220 USB

2-Mic/Line 2-Stereo Input Compact Mixer with USB Interface



- ▶ Two balanced Mic/Line inputs with 3-band EQ
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ Two stereo inputs with 3-band EQ
- ▶ One stereo AUX return
- ▶ Post-fader EFX send on every input
- ▶ Global +48V phantom power
- ▶ Peak and VU Metering
- ▶ Peak indicators on each mono input channel
- ▶ 2T RTN assignable individually to Main or Control room
- ▶ Stereo EFX send cue for ease of monitoring individual channel
- ▶ Balanced master output with 60mm fader control

AM220P USB

2-Mic/Line 2-Stereo Input Compact Mixer with USB Player and Interface



- ▶ Two balanced Mic/Line inputs with 3-band EQ
- ▶ Playback of MP3 and WAV files from USB media
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ Two stereo inputs with 3-band EQ
- ▶ One stereo AUX return
- ▶ Post-fader EFX send on every input
- ▶ Global +48V phantom power
- ▶ Peak and VU Metering
- ▶ Peak indicators on each mono input channel
- ▶ 2T RTN assignable individually to Main or Control room
- ▶ Stereo EFX send cue for ease of monitoring individual channel
- ▶ Balanced master output with 60mm fader control

AM240D USB

2-Mic/Line 4-Stereo Input Compact Mixer with USB Interface



- ▶ 2 Mic/Line inputs with 3-band EQ and low cut
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ 4 stereo inputs with +4/-10 select buttons
- ▶ Post-fader AUX Send on every input
- ▶ 32/40-bit Digital Effect Processor with 100 programs with tap-delay and test-tones
- ▶ 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 CD or MP3 players
- ▶ Stereo EFX Send cue for better monitoring of individual channels
- ▶ Balanced master output with 60mm fader control

AM440D USB

4-Mic/Line 4-Stereo Input Compact Mixer with USB Interface



- ▶ 4 mono mic/line channels
- ▶ 4 stereo channels
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ 32/40-bit digital stereo multi-effect processor with 100 programs + tap delay
- ▶ AUX sends 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 main outputs with 60mm fader

AM USB SERIES

USB-enabled Compact Mixer

AM442D USB | AM642D USB | AM844D USB

AM442D USB

4-Mic/Line 4-Stereo 2-Group Mixer with DFX & USB Interface



- ▶ 4 Mic/Line channels with inserts and phantom power
- ▶ 4 stereo channels with 4-band EQ
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ Variable compressor on mono channels
- ▶ 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
- ▶ Solo feature on each input and output
- ▶ 2 true subgroups with main L and R routing switches
- ▶ 2 stereo aux returns with effect to monitor level control
- ▶ 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

AM642D USB

6-Mic/Line 4-Stereo 2-Group Mixer with GEQ, DFX & USB Interface



- ▶ 6 Mic/Line channels with inserts and phantom power
- ▶ 4 stereo channels with 4-band EQ
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ Variable compressor on mono channels
- ▶ 3-band EQ with swept mid-range plus low cut on each mono channel
- ▶ 3 AUX Sends, one with Pre/Post switch
- ▶ Solo feature on each input and output
- ▶ 32/40-bit digital stereo multi-effect processor with 100 programs + Tap delay plus foot switch
- ▶ 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
- ▶ Rack-mounting kit included

AM844D USB

8-Mic/Line 4-Stereo 4-Group Mixer with DFX & USB Interface



- ▶ 8 Mic/Line Mono channels
- ▶ 4 stereo channels (two with Mic input)
- ▶ 10 Mic preamps
- ▶ Stereo USB audio interface for PC and Mac computers
- ▶ Variable compressor on mono channels
- ▶ Direct Outputs for Multitrack recording
- ▶ 3 band EQ with swept mid range plus low cut on each mono channel
- ▶ 18dB/oct, 75Hz Loc Cut Filter on each mic channels
- ▶ 4 AUX Sends, AUX 1 & 2 with Pre/Post selector
- ▶ 32/40-bit digital stereo multi-effect processor with 100 programs + Tap delay plus foot switch
- ▶ 4 stereo AUX Returns
- ▶ Solo selector on each input channel
- ▶ CTRL RM Phones with multi input source matrix selector
- ▶ 8 Subgroups with Fader control and L-R assign buttons
- ▶ Record Output
- ▶ 2T return with control level and TO MAIN L/R assign button
- ▶ Built-in switching power supply with universal connector, 90-260VAC, 50/60Hz
- ▶ 12V XLR Connector for gooseneck lamp
- ▶ Solo switch selector for AUX Returns

AM USB SERIES

USB-enabled Compact Mixer

Specifications

	AM220P USB	AM220 USB	AM240D USB	AM440D USB	AM442D USB	AM642D USB	AM844D USB
Inputs							
Total Channels	4	4	6	8	8	10	12
Balanced Mono Mic / Line Channel	2	2	2	4	4	6	8
Balanced Mic / Stereo Line Channel	-	-	-	-	-	-	2
Balanced Stereo Line Channel	4	4	4	4	4	4	2
Aux Return	1 stereo	1 stereo	-	2 stereo	2 stereo	2 stereo	4 stereo
2T Input	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA
Outputs							
Main L/R Stereo	2x 1/4" TRS, Bal.	2x 1/4" TRS, Bal.	2x 1/4" TRS, Bal.	2 x 1/4" TRS, Bal.	2 x 1/4" TRS, Bal. & 2 x XLR	2 x 1/4" TRS, Bal. & 2 x XLR	2 x 1/4" TRS, Bal. & 2 x XLR
AUX/EFX Send	-	-	-	1 x 1/4" TRS, Bal.	2 x 1/4" TRS, Bal.	3 x 1/4" TRS, Bal.	Yes
Rec Out	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA	Stereo RCA
CTRL RM L/R	2 x 1/4" TS	2 x 1/4" TS	2 x 1/4" TS	2 x 1/4" TS	2 x 1/4" TS	2 x 1/4" TS	2 x 1/4" TS
Phones	1	1	1	1	1	1	2
Direct Outputs	-	-	-	-	-	-	CH 1 - 8
Channel Strips	4	4	6	6	8	10	12
AUX/EFX Send	1	1	1	2	2	3	4
Pan/Balance Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Volume Controls	Rotary	Rotary	Rotary	Rotary	60mm fader	60mm fader	60mm fader
Inserts	-	-	-	4	4	6	8
Master Section							
Aux Send Mater	-	-	-	-	2	3	3
Master Aux Send Solo	-	-	-	-	2	3	3
Stereo Aux Returns	-	-	-	-	2	2	4
Aux Return Assign to Subgroup	-	-	-	-	1	1	1
Effects Return to Monitor	-	-	-	-	2	2	2
Phones Level Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Main L/R Level Control	60 mm fader	60 mm fader	60 mm fader	60 mm fader	60 mm fader	60 mm fader	60 mm fader
USB Audio							
Connector Type	USB In/Out + Player	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out
Connector Type	USB Type-A & -B	USB Type-B	USB Type-B	USB Type-B	USB Type-B	USB Type-B	USB Type-B
Bit Rate	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit	16-bit
Sampling Rate	48 kHz	48 kHz	48 kHz	48 kHz	48 kHz	48 kHz	48 kHz
Metering	2 x 4	2 x 4	2 x 4	2 x 4	2 x 12	2 x 12	2 x 12
Phantom Power Supply	+48V DC	+48V DC	+48V DC	+48V DC	+48V DC	+48V DC	+48V DC
Frequency Response (Mic input to any output)							
20Hz - 60KHz	+0/-1 dB	+0/-1 dB	+0/-1 dB	+0/-1 dB	+0/-1 dB	+0/-1 dB	+0/-1 dB
20Hz - 100KHz	+0/-3 dB	+0/-3 dB	+0/-3 dB	+0/-3 dB	+0/-3 dB	+0/-3 dB	+0/-3 dB
Crosstalk (1KHz @ 0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)							
Channel fader down, other channels at unity	<-90 dB	<-90 dB	<-90 dB	<-90 dB	<-90 dB	<-90 dB	<-90 dB
Noise (20Hz~20KHz; measured at main output, Channels 1-4 unit gain; EQ flat; all channels on main mix; channels 1/3 as far left as possible, channels 2/4 as far right as possible. Reference=+6dBu)							
Master @ unity, channel fader down	-86.5 dBu	-86.5 dBu	-86.5 dBu	-86.5 dBu	-86.5 dBu	-86.5 dBu	-86.5 dBu
Master @ unity, channel fader @ unity	-84 dBu	-84 dBu	-84 dBu	-84 dBu	-84 dBu	-84 dBu	-84 dBu
S/N ratio, ref to +4	>90 dB	>90 dB	>90 dB	>90 dB	>90 dB	>90 dB	>90 dB
Microphone Preamp E.I.N. (150 ohms terminated, max gain)							
<129.5 dBm	<129.5 dBm	<129.5 dBm	<129.5 dBm	<129.5 dBm	<129.5 dBm	<129.5 dBm	<129.5 dBm
THD (Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs)							
<0.005%	<0.005%	<0.005%	<0.005%	<0.005%	<0.005%	<0.005%	<0.005%
CMRR (1 KHz @ -60dBu, Gain at maximum)							
80 dB	80 dB	80 dB	80 dB	80 dB	80 dB	80 dB	80 dB
Maximum Level							
Mic Preamp Input	+10 dBu	+10 dBu	+10 dBu	+10 dBu	+10 dBu	+10 dBu	+10 dBu
All Other Input	+22 dBu	+22 dBu	+22 dBu	+21 dBu	+21 dBu	+21 dBu	+21 dBu
Balanced Output	+28 dBu	+28 dBu	+28 dBu	+28 dBu	+28 dBu	+28 dBu	+28 dBu
Impedance							
Mic Preamp Input	2 K ohms	2 K ohms	2 K ohms	2 K ohms	2 K ohms	2 K ohms	2 K ohms
All Other Input (except insert)	10 K ohms	10 K ohms	10 K ohms	10 K ohms	10 K ohms	10 K ohms	10 K ohms
RCA 2T Output	1.1 K ohms	1.1 K ohms	1.1 K ohms	1.1 K ohms	1.1 K ohms	1.1 K ohms	1.1 K ohms
Equalization							
3-band, +/-15 dB	3-band, +/-15 dB	3-band, +/-15 dB	3-band, +/-15 dB	3-band, +/-15 dB	3-band, +/-15dB (4-band on Stereo Ch)	3-band, +/-15dB (4-band on Stereo Ch)	3-band, +/-15dB (4-band on Stereo Ch)
Low EQ	80 Hz	80 Hz	80 Hz	80 Hz	80Hz	80Hz	80Hz
Mid EQ	2.5 KHz	2.5 KHz	2.5 KHz	2.5 KHz	100-8k Hz, sweepable	100-8k Hz, sweepable	100-8k Hz, sweepable
Hi-Mid EQ	-	-	-	-	800 Hz	800 Hz	800 Hz
Lo-Mid EQ	-	-	-	-	3 kHz	3 kHz	3 kHz
Hi EQ	12 KHz	12 KHz	12 KHz	12 KHz	12 kHz	12 kHz	12 kHz
Low Cut Filter	-	-	75Hz (-18 dB/oct)	75Hz (-18dB/oct)	75 Hz (-18 dB/oct)	75 Hz (-18 dB/oct)	75 Hz (-18 dB/oct)
32/40-bit Digital Effect Processor	-	-	100 effects with tap delay	100 effects with tap delay	100 effects with tap delay	100 effects with tap delay	100 effects with tap delay
Power Requirement (depends on region)							
100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Weight							
1.5 kg (3.3 lbs)	1.5 kg (3.3 lbs)	1.5 kg (3.3 lbs)	1.72 kg (3.78 lbs)	9.25 lbs (4.2 kg)	10.6 lbs (4.8 kg)	13 lbs (5.9 kg)	
Dimensions (WxHxD)							
190 x 56 x 233 mm (7.48" x 2.2" x 9.17")	190 x 56 x 233 mm (7.48" x 2.2" x 9.17")	190 x 56 x 233 mm (7.48" x 2.2" x 9.17")	242 x 56 x 228mm (9.5" x 2.16" x 8.99")	300 x 104 x 340 mm (11.8" x 4.1" x 13.4")	407 x 105 x 357 mm (16" x 4.1" x 14")	418 x 149 x 420 mm (16.5" x 5.9" x 16.5")	