

# PHONIC

## RECORDING MIXERS

### AM Gold Edition



- ▶ Entirely new, elegant design with classic feel mixed with modern, sleek LCD metering
- ▶ Uncompromisingly low-noise design handles all audio with the utmost of care
- ▶ Professional quality stereo USB recording interface provides audio superior to CDs (24-bit, 48 KHz)
- ▶ Integrated Flash+BT module for recording audio in addition to playing and streaming audio in multiple formats
- ▶ USB interface with 'loopback' function, user-assignable to headphones or control room mixes
- ▶ Numerous built-in languages selectable through Flash+BT module

- ▶ Balanced stereo MAIN output connectors with 100mm faders on select models
- ▶ Integrated headset input and output connectors on the AM5GE and AM6GE make these models perfect for webcasting and webconferencing
- ▶ 32/40-bit digital effect processor integrated into most models with 16 preset effects each offering a user-adjustable parameter
- ▶ Custom Phonic low-noise circuitry for superior audio quality with low-noise
- ▶ Utilizes branded Neutrik Combo jacks for unmatched performance



The AM *Gold Edition* analog mixers all feature built-in super-musical channel EQs (either 2- or 3-band, depending on the model) allowing fantastic control over all aspects of your incoming audio. The AM14GE goes a little further to offer a 9-band graphic EQ for better control of your main mix.



Every modern cellphone and tablet features Bluetooth technology that can be utilized with the AM *Gold Edition* analog mixers. Establish a connection between your Bluetooth-enabled device and the AM's BT module to stream digital audio directly into your mix.



Common to all Phonic mixers, mono channels on the AM *Gold Edition* analog mixers offer +48V of Phantom Power to Combo and XLR input connectors allowing condenser microphones to be used with the unit.



The AM5GE and AM6GE models can be powered through USB, offering 5V USB power input. This allows the units to be used while on the go, when power outlets are nowhere to be found. Record directly from the AM mixer while simultaneously powering it from your laptop.



Phonic engineers have incorporated a card reader directly into the *Gold Edition* mixers, allowing users to record high resolution audio to and from compatible Flash cards. Recordings can be made in WAV and MP3 formats, with user-selectable bitrates for each format.

The Flash+BT module can play MP3, WAV and FLAC formats making this a flexible tool for integrating many different digital media formats into your performance. This allows you to create music, record it directly to a suitable flash card, and insert the card straight into your cellphone – if it has an appropriate slot. Playback your audio or upload it directly from your phone while on the go!



### Optional AM Gold Rack Ears

The AM12GE, AM14GE and AM16GE can all be mounted into standard 19" racks through the use of their rack mounting kits (sold separately). The ER-12GE, ER-14GE and ER-16GE can be purchased from your local Phonic dealer.

## AM5GE

1-Mic/Line 2-Stereo Input Compact Mixer with BT, Flash Card Recorder and USB Interface



- ▶ One balanced Mic/Line Neutrik "Combo" input with compressor and 2-band EQ
- ▶ Two stereo input channels with balance and level controls
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ User assignable Loopback function for USB interface, assignable to MAIN or PHONES
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio directly from smartphones and tablets
- ▶ +48V phantom power for mic input
- ▶ Peak and VU metering (10 segments)
- ▶ Peak indicators on mono input channel
- ▶ Stereo RCA 2T Return input connectors plus mini-stereo connectors
- ▶ Balanced master output with main rotary control
- ▶ Headset mic and headphone connectors perfect for livestreaming and web conferencing
- ▶ Powered through USB (5V - 20V DC), adapter included

## AM6GE

2-Mic/Line 2-Stereo Input Compact Mixer with BT, Flash Card Recorder and USB Interface



- ▶ Two balanced Mic/Line Neutrik "Combo" inputs with 3-band EQ and variable compressor
- ▶ Two stereo inputs with 3-band EQs
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ User assignable Loopback function for USB interface, assignable to MAIN or CTRL RM
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio directly from smartphones and tablets
- ▶ One stereo AUX return
- ▶ Post-fader AUX send on every input
- ▶ Global +48V phantom power for microphone inputs
- ▶ Peak and VU metering (10 segment)
- ▶ Peak indicators on both mono input channels
- ▶ Balanced master output with 60mm fader control
- ▶ Headset mic and headphone connectors perfect for livestreaming and web conferencing
- ▶ Powered through USB (5V - 20V DC), adapter included

## AM8GE

4-Mic/Line 2-Stereo Input Compact Mixer with DFX, plus BT, Flash Card Recorder and USB Interface



- ▶ Four mono mic/line Neutrik "Combo" channels with user-adjustable compressors
- ▶ Two stereo channels with EFX, balance and level controls
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio directly from smartphones and tablets
- ▶ 32/40-bit digital effect processor with 16 effect programs and one main parameter control
- ▶ EFX send control available on each channel
- ▶ 75Hz low-cut filter and 2-band EQ on each mono channel
- ▶ Peak and VU metering (10 segment)
- ▶ +48V phantom power for microphone inputs
- ▶ Phones source matrix for maximum monitor flexibility
- ▶ EFX/AUX send cue for monitoring individual channel
- ▶ Balanced main outputs with 60mm fader

**AM12GE** 4-Mono 4-Stereo Input 2-Group Compact Mixer with DFX plus BT, Flash Card Recorder and USB Interface

- ▶ Four mono mic/line Neutrik "Combo" input channels with user-adjustable compressors
- ▶ Two stereo mic/line channels with XLR inputs, plus two stereo line inputs
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio directly from smartphones and tablets
- ▶ 32/40-bit digital effect processor with 16 effect programs and one main parameter control
- ▶ 3-band EQ with swept mid on each mono channel, 4-band on stereo channels
- ▶ AUX sends on each channel
- ▶ +48V phantom power on mic channels
- ▶ Phones source matrix for maximum monitor flexibility
- ▶ EFX/AUX send cue for monitoring individual channels
- ▶ Balanced main outputs with independent 60mm L/R faders

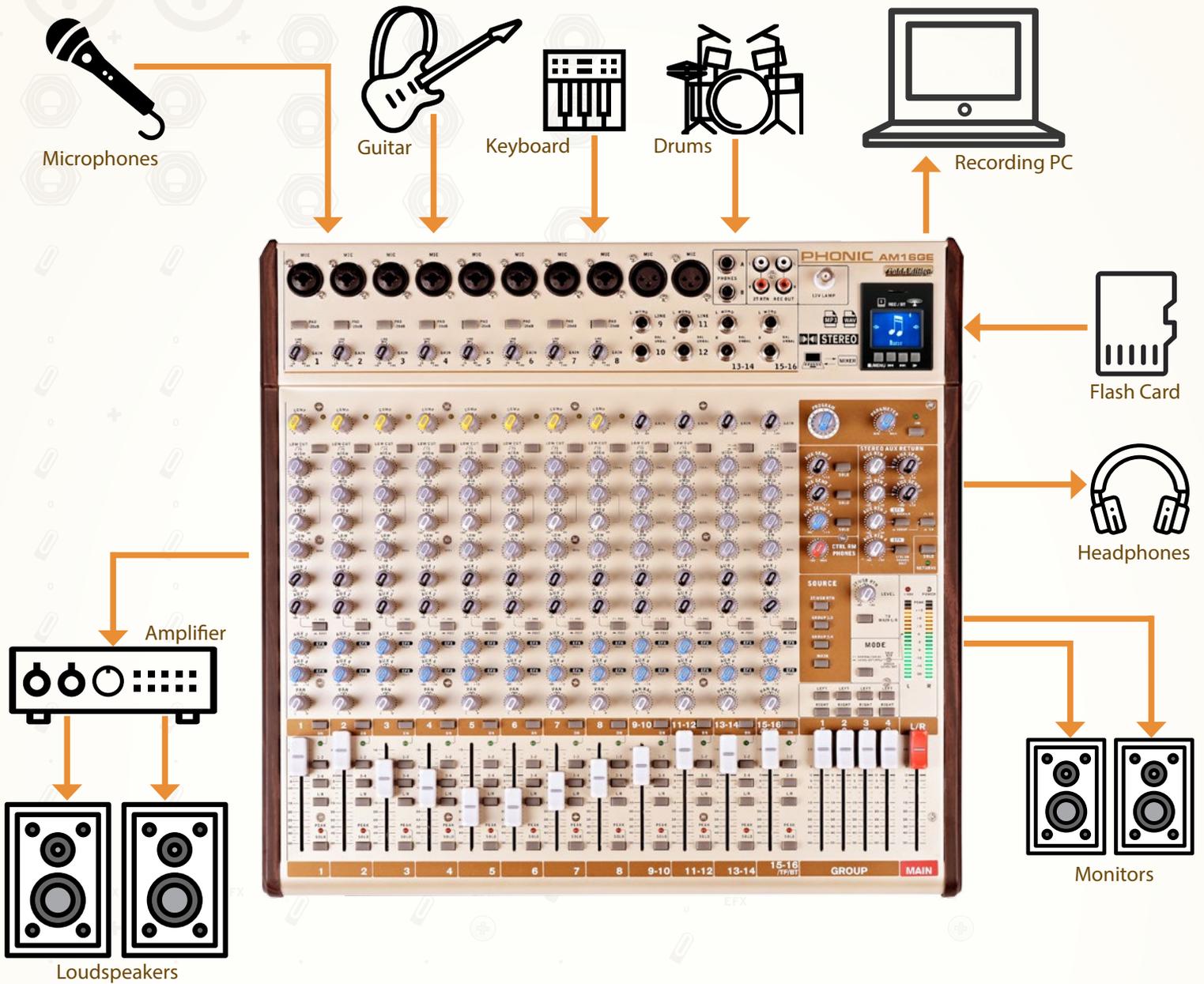
**AM14GE** 6-Mono 4-Stereo Input 2-Group Mixer with DFX, plus BT, Flash Card Recorder and USB Interface

- ▶ Six Mic/Line Neutrik "Combo" inputs with inserts, compressors, 3-band EQ and phantom power
- ▶ Two stereo channels with XLR inputs, plus two stereo line inputs
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio from smart-devices
- ▶ 3-band, swept-mid EQ plus low cut on each mono channel, 4-band on stereo channels
- ▶ 3 AUX sends, one with channel Pre/Post switches
- ▶ Solo feature on each input and output
- ▶ 32/40-bit digital effect processor with 16 effect programs and one main parameter control
- ▶ 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
- ▶ Optional rack mounting kit (sold separately)

**AM16GE** 8-Mono 4-Stereo Input 4-Group Mixer with DFX, plus BT, Flash Card Recorder and USB Interface

- ▶ Eight Mic/Line Neutrik "Combo" input channels with inserts, compressors and low cut filters
- ▶ Two stereo channels with XLR inputs, plus two stereo line inputs
- ▶ Stereo USB audio interface for PC and Mac computers (24-bit, 48 KHz)
- ▶ Playback of MP3, WAV and FLAC files from Flash media
- ▶ Internal Flash+BT module for recording stereo audio in WAV or MP3 formats
- ▶ 2.4GHz Bluetooth connectivity for streaming digital audio from smart-devices
- ▶ 3-band, swept-mid EQ on each mono channel, 4-band EQs on stereo inputs
- ▶ 4 AUX sends on each channel, 4 stereo AUX returns with effect to monitor level control
- ▶ 32/40-bit digital effect processor with 16 effect programs and one main parameter control
- ▶ 4 true subgroups with main L and R routing switches
- ▶ Solo feature on each input and output
- ▶ Serial INSERT and DIRECT OUT connectors
- ▶ XLR and 1/4" connectors available on main L / R output plus main insert
- ▶ Built-in switching power supply with universal connector, 100-240VAC, 50/60Hz
- ▶ Optional rack mounting kit (sold separately)

## Live Concert Setup



## Live Stream Setup



	AM5GE	AM6GE	AM8GE	AM12GE	AM14GE	AM16GE
<b>Inputs</b>						
Total Channels	5	6	8	12	14	16
Balanced Mono Mic / Line Channel	1	2	4	4	6	8
Balanced Stereo Mic/Line Channel	-	-	-	-	2	2
Balanced Stereo Line Channel	2	2	2	4	2	2
AUX Return	-	1 stereo	-	2 stereo	2 stereo	4 stereo
2T Input	Stereo RCA & mini-stereo	Stereo RCA	-	Stereo RCA	Stereo RCA	Stereo RCA
Headset/Microphone	Yes (1/8" TRS + 1/8" TS)	Yes (1/8" TRS + 1/8" TS)	-	-	-	-
<b>Outputs</b>						
Main L/R Stereo	1x 1/4" TRS	2x 1/4" TRS	2 x 1/4" TRS	2 x 1/4" TRS & 2 x XLR	2 x 1/4" TRS & 2 x XLR	2 x 1/4" TRS & 2 x XLR
AUX/EFX Send	-	-	1 x 1/4" TS	2 x 1/4" TS	3 x 1/4" TS	4 x 1/4" TS
Rec Out	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
Phones	1	1	1	1	1	1
Channel Strips	3	4	6	8	10	12
AUX/EFX Send	-	1	1	2	3	4
Pan/Balance Control	Yes	Yes	Yes	Yes	Yes	Yes
Volume Controls	Rotary	Rotary	Rotary	60mm fader	60mm fader	60mm fader
Inserts	-	-	-	-	6	8
<b>Master Section</b>						
AUX Send Master	-	-	-	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	-	-	-	1	1	2
Phones Level Control	Yes	Yes	Yes	Yes	Yes	Yes
Main L/R Level Control	Rotary VR	60 mm fader	60 mm fader	2 x 60 mm fader	2 x 60 mm fader	60 mm fader
USB Interface	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out	Stereo In/Out
Connector Types	USB Type-B	USB Type-B	USB Type-B	USB Type-B	USB Type-B	USB Type-B
Interface Bit Rate	24-bit	24-bit	24-bit	24-bit	24-bit	24-bit
Interface Sampling Rate	48 kHz	48 kHz	48 kHz	48 kHz	48 kHz	48 kHz
USB Return Button	MAIN / PHONES	MAIN / CTRL RM	MAIN	CTRL RM	MAIN / CTRL RM	MAIN / CTRL RM
Flash Card Recorder	WAV or MP3	WAV or MP3	WAV or MP3	WAV or MP3	WAV or MP3	WAV or MP3
Compatible Playback Formats	WAV, MP3, FLAC	WAV, MP3, FLAC	WAV, MP3, FLAC	WAV, MP3, FLAC	WAV, MP3, FLAC	WAV, MP3, FLAC
Bluetooth Connectivity	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz
Metering	2 x 10	2 x 10	2 x 10	2 x 20	2 x 20	2 x 20
Phantom Power Supply	+48V DC	+48V DC	+48V DC	+48V DC	+48V DC	+48V DC
<b>Frequency Response (Mic input to any output)</b>						
20Hz - 60KHz	+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
<b>Crosstalk (1KHz @ 0dBu, 20Hz to 20KHz bandwidth, channel in to main L/R outputs)</b>						
Channel fader down, other channels at unity	<-90 dB	<-90 dB	<-90 dB	<-90 dB	<-90 dB	<-90 dB
<b>Noise (20Hz to 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)</b>						
Master @ unity, channel fader down	-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
S/N ratio, ref to +4	>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
THD (Any output, 1KHz @ +14dBu, 20Hz to 20KHz, channel inputs)	<0.005%	<0.005%	<0.005%	<0.005%	<0.005%	<0.005%
CMRR (1 KHz @ -60dBu, Gain at max.)	80 dB	80 dB	80 dB	80 dB	80 dB	80 dB
<b>Maximum Level</b>						
Mic Preamp Input	+10 dBu	+10 dBu	+10 dBu	+10 dBu	+10 dBu	+10 dBu
All Other Input	+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
<b>Impedance</b>						
Mic Preamp Input	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
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
Equalization	2-band, +/- 15 dB (mono only)	2-band, +/- 15 dB (3-band on Stereo Ch)	2-band, +/- 15 dB (mono only)	3-band, +/- 15dB (4-band on Stereo Ch)	3-band, +/- 15dB (4-band on Stereo Ch) 9-band GEQ on Main	3-band, +/- 15dB (4-band on Stereo Ch)
Low EQ	80 Hz	80 Hz	80 Hz	80Hz	80Hz	80Hz
Mid EQ	-	2.5 KHz (stereo ch)	-	100-8k Hz, sweepable	100-8k Hz, sweepable	100-8k Hz, sweepable
Hi-Mid EQ (Stereo Channel)	-	-	-	800 Hz	800 Hz	800 Hz
Lo-Mid EQ (Stereo Channel)	-	-	-	3 kHz	3 kHz	3 kHz
Hi EQ	12 KHz	12 KHz	12 KHz	12 kHz	12 kHz	12 kHz
Low Cut Filter	-	-	75Hz (-18dB/oct)	-	-	75 Hz (-18 dB/oct)
32/40-bit Digital Effect Processor	-	-	16 EFX	16 EFX	16 EFX	16 EFX
Power Requirement (depends on region)	5V - 20V DC (USB)	5V - 20V DC (USB)	100VAC, 120VAC, 220 to 240VAC, 50/60Hz	100 to 240 VAC, 50/60 Hz (Internal)	100 to 240 VAC, 50/60 Hz (Internal)	100 to 240 VAC, 50/60 Hz (Internal)
Dimensions (W x H x D)	155.6 x 50.5 x 244 mm (6.12" x 1.99" x 8.82")	190 x 56 x 233 mm (7.48" x 2.2" x 9.17")	242 x 55 x 228 mm (9.5" x 2.2" x 8.99")	300 x 103.5 x 340 mm (11.8" x 4.11" x 13.4")	407 x 104.5 x 357 mm (16" x 4.07" x 14")	418 x 149 x 420 mm (16.46" x 5.89" x 16.54")
Weight	1.1 kg (2.4 lbs)	1.5 kg (3.3 lbs)	1.7kg (3.75 lbs)	4.2 kg (9.25 lbs)	4.8 kg (10.6 lbs)	5.9 kg (13 lbs)