

Overview

AG03 is a multi-purpose mixer with USB audio interface, especially optimized for webcasting.



Rear Panel

Features

- Input channels: 3 Line Inputs (1 mono, 1 stereo), 1 Mic Inputs with 48V phantom power and HPH per channel. Hi-Z input for guitars on CH2.
- Output channels: 2 MONITOR, 2 PHONES.
- Bus: 1 ST
- Robust, impact-resistant, powder-coated metal chassis.
- USB Bus Power for Mac & PC.
- High resolution (24-bit/192kHz) 2-track audio recording and playback.
- Flexible LOOPBACK feature - perfect for live recording or webcasting.
- Discrete class A “D-PRE” mic preamps with an inverted darlington circuit.
- Easy control and pro sound with 1-TOUCH COMP/EQ, EFFECT and AMP SIM processing.

Specifications

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General Specifications

INPUT CHANNELS	LINE INPUT	3 (2 MONO + 1 STEREO)
	MIC INPUT	1
	MONO INPUT (MIC/LINE)	1, including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.)
	MONO INPUT (GUITAR)	1
	STEREO INPUT (LINE)	1
	USB IN	1
	AUX IN	1
OUTPUT CHANNELS	STEREO OUT	-
	MONITOR OUT	2
	PHONES OUT	2 including HEADSET PHONES (PHONES and HEADSET PHONES cannot be used simultaneously.)
BUS	STEREO	1
USB AUDIO - USB IN/OUT		Yes (2 IN / 2 OUT, USB Audio Class 2.0 compliant, Sampling Frequency: Max 192kHz, Bit Depth: 24-bit)
PHANTOM POWER		+48V (INPUT 1ch Only)
POWER REQUIREMENTS		DC 5 V, 500 mA
POWER SUPPLY TYPE		USB Bus Power for Mac & PC
POWER CONSUMPTION		Max. 2.5 W
DIMENSIONS	W x D x H	129mm x 202mm x 63mm (5.1" x 8.0" x 2.5")
NET WEIGHT		0.8kg (1.5lbs)
INCLUDED ACCESSORIES		USB Cable (1.5m), Owner's manual, Technical Specifications, Cubase AI Download Information
SOFTWARE APPLICATION	Steinberg CUBASE AI	Yes (Download access code included. Download on the Steinberg web site)
	Steinberg CUBASIS LE	Yes (Download on the App Store) (Apple iPad Camera Connection Kit/ Lightning to USB Camera Adapter and USB mobile battery required)
	AG DSP Controller	Yes (Download on the App Store) (Apple iPad Camera Connection Kit/Lightening to USB Camera Adapter and USB mobile battery required)
OPTIONAL ACCESSORIES		BMS-10A Mic Stand Adaptor, FC5 Foot Switch
OPERATING TEMPERATURE		0 to 40°C

Featured Functions

D-PRE MIC PREAMP	Yes
COMP/EQ	Yes [CH1]
Amp Simulator	Yes [Ch2]
SPX DIGITAL REVERB	Yes [CH1]

Electrical Specifications

TOTAL HARMONIC DISTORTION	0dBu (20Hz to 20kHz)	0.05%
(Input to MONITOR OUT)	Gain knob: Min +4dBu (1kHz)	0.01%
	Gain knob: Min	
FREQUENCY RESPONSE	Input (MIC) to MONITOR OUT via USB IN/OUT	+0.5/-1.5dB (20Hz - 48kHz@ Fs = 192 kHz), refer to the nominal output level @1kHz, GAIN knob: Min, TO PC: DRY CH1-2G
HUM & NOISE LEVEL	Equivalent input noise	-128 dBu (Mono Input Channel, Rs: 150Ω, Gain knob: Max)
	Residual output noise	-103 dBu (MONITOR OUT, MONITOR knob: Min)
CROSSTALK	@ 1kHz	-80dB
INPUT CHANNEL	PAD	26dB
FUNCTION	DSP	CH1: COMP/EQ, EFFECT (SPX Reverb)
		CH2: AMP SIM
LED LEVEL METER	USB Output Level	2x2 point LED meter [PEAK, SIG]
PEAK LED		LED turns on when the signal reaches 3dB below clipping level

Specifications

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Analog Input Characteristics

INPUT TERMINAL	PAD 26dB	GAIN TRIM POSITION	ACTUAL LOAD IMPEDANCE	FOR USE WITH NOMINAL	INPUT LEVEL			CONNECTOR
					Sensitivity* ¹	Nominal	Max. before clip	
MIC/LINE 1 HEADSET MIC	OFF	10	3kΩ 1.5kΩ ⁴	50-600Ω Mics/Lines	-72 dBu (0.195 mV)	-60 dBu (0.775 mV)	-50 dBu (2.451 mV)	Combo jack ² (Balanced)
		0			-26 dBu (38.84 mV)	-14 dBu (154.6 mV)	-4 dBu (489 mV)	
	ON	10			-46 dBu (3.884 mV)	-34 dBu (15.46 mV)	-24 dBu (48.9 mV)	3.5 mm Phone jack For HEADSET MIC (Plug-in Power/Unbalanced)
		0			0 dBu (0.775 V)	+12 dBu (3.085 V)	+22 dBu (9.757 V)	
GUITAR 2G	-	HIGH	1MΩ	-	-32 dBu (19.5 mV)	-20 dBu (77.5 mV)	-10 dBu (245.1 mV)	Phone jack ³ (Unbalanced)
		LOW			-12 dBu (194.7 mV)	0 dBu (0.775 V)	+10 dBu (2.451 V)	
LINE 2/3	-	HIGH	10kΩ	600Ω Lines	-20 dBu (77.5 mV)	-8 dBu (308.5 mV)	+2 dBu (975.7 mV)	Phone jack ³ (Unbalanced)
		LOW			-10 dBu (245.1 mV)	+2 dBu (975.7 mV)	+12 dBu (3.085 V)	
AUX	-	-	10kΩ	600Ω Lines	-14 dBu (154.6 mV)	-8 dBu (308.5 mV)	+2 dBu (975.7 mV)	Stereo mini jack

Analog Output Characteristics

OUTPUT TERMINALS	ACTUAL SOURCE IMPEDANCE	FOR USE WITH NOMINAL	OUTPUT LEVEL		CONNECTOR
			Nominal	Max. before clip	
MONITOR OUT [L, R]	150Ω	10kΩ Lines	0 dBu (0.775 V)	+10 dBu (2.451 V)	Phone jack ⁵ (Impedance balanced) RCA pin (Unbalanced)
PHONES	120Ω	40Ω Phones	1.5mW+1.5mW	6mW+6mW	Stereo phone jack Stereo mini jack

Digital Input/Output Characteristics

OUTPUT TERMINALS	FORMAT	DATA LENGTH	F _s	CONNECTOR
USB	USB Audio Class 2.0 / Yamaha Steinberg USB Driver	24-bit	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4kHz, 192 kHz	USB Standard-B

0dBu is referenced to 0.775Vrms.

*1 Sensitivity is the lowest level that will produce an output of +0 dBu (0.775 V) or the nominal output level when the unit is set to maximum gain. (All level controls are maximum position.)

*2 1&Sleeve = GND, 2&Tip = HOT, 3&Ring = COLD

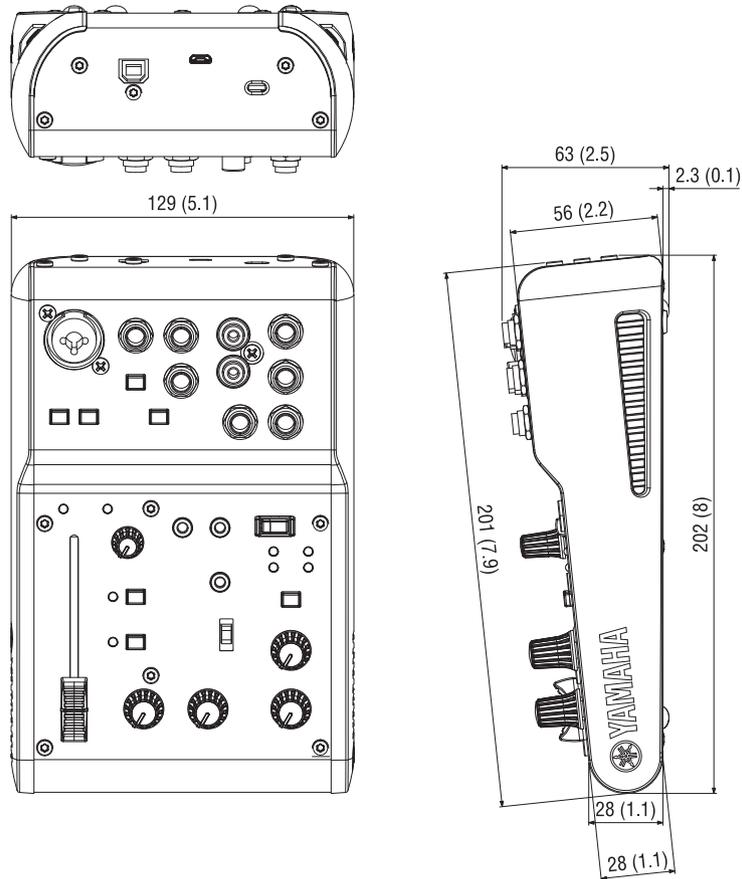
*3 Tip = Signal, Sleeve = GND

*4 For CH1, HEADSET MIC

*5 Tip = HOT, Ring = COLD, Sleeve = GND

Dimensions

Unit: mm (inch)



Options

- Mic Stand Adaptor BMS-10A
- Foot Switch FC5

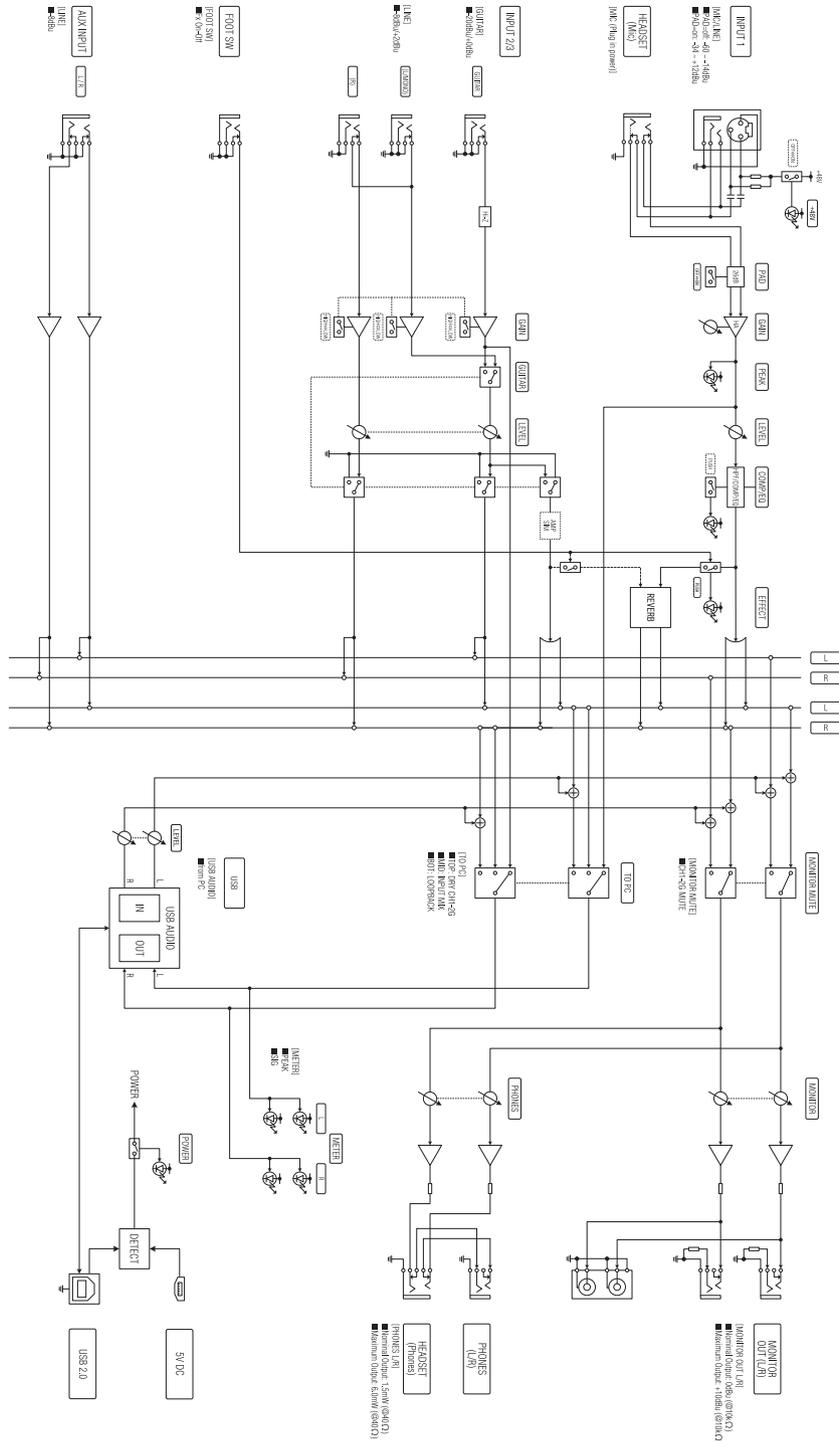
Software

- AG DSP Controller
- Steinberg Cubase AI
- Steinberg Cubasis LE

Architectural and Engineering Specifications

The Yamaha AG03 3-channel Mixer/USB Interface shall be a multi-purpose mixer with integrated USB audio interface optimized for webcasting. The AG03 shall have three line inputs (1 mono, 1 stereo) and 1 microphone input with 48-volt phantom power and a high-pass filter. A Hi-Z input for guitars shall be provided on channel 2. Two monitor output channels and two headphone outputs shall be provided. A stereo mix bus shall be provided. The AG03 microphone preamplifier shall be a discrete class-A "D-PRE" type for high sound quality, and 1-touch compression/EQ, effects, and amp simulation shall be included for convenient signal processing. A flexible loopback function shall be included to enhance live recording and webcasting convenience. The AG03 shall be equipped with a 24-bit/192-kHz USB digital audio interface for 2-track recording and playback. The AG03 shall be robust and built into an impact-resistant powder-coated metal chassis, and it shall be powered via USB bus power from a Mac or Windows based personal computer. Dimensions shall be 129 (W) x 202 (D) x 63 (H) mm (5.1" x 8.0" x 2.5"). Weight shall be 0.8kg (1.8lbs).

Block Diagrams



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