

Overview

AG06 is a multi-purpose mixer with USB audio interface, especially optimized for webcasting.



Rear Panel

Features

- Input channels: 6 Line Inputs (2 mono, 2 stereo), 2 Mic Inputs with 48V phantom power and HPH per channel. Hi-Z input for guitars on CH2.
- Output channels: 1 ST, 1 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

1/2

General Specifications

| | | |
|------------------------|-----------------------|---|
| INPUT CHANNELS | LINE INPUT | 6 (2 MONO + 2 STEREO) |
| | MIC INPUT | 2 |
| | MONO INPUT (MIC/LINE) | 2, including HEADSET MIC (Plug-in Power) (CH1 MIC and HEADSET MIC cannot be used simultaneously.) |
| | MONO INPUT (GUITAR) | 2 |
| | STEREO INPUT (LINE) | - |
| | USB IN | 1 |
| | AUX IN | 1 |
| OUTPUT CHANNELS | STEREO OUT | 1 |
| | MONITOR OUT | 1 |
| | 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 | 155mm x 202mm x 63mm (6.1" x 8.0" x 2.5") |
| NET WEIGHT | | 1.0kg (2.2lbs) |
| 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 [CH1/2] |

Electrical Specifications

| | | |
|---------------------------|---|---|
| TOTAL HARMONIC DISTORTION | 0dBu (20Hz to 20kHz) | 0.05% |
| (Input to MONITOR OUT) | Gain knob: Min | 0.01% |
| | +4dBu (1kHz) | |
| FREQUENCY RESPONSE | Gain knob: Min | +0.5/-1.5dB (20Hz - 48kHz@ Fs = 192 kHz), refer to the nominal output level @1kHz, GAIN knob: Min, TO PC: DRY CH1-2 |
| | Input (MIC) to MONITOR OUT via USB IN/OUT | |
| 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, EFFECT (SPX Reverb) |
| 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

2/2

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 1-2 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) 3.5 mm Phone jack For CH1 HEADSET MIC (Plug-in Power/Unbalanced) |
| | | 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) | |
| | | 0 | | | 0 dBu (775 mV) | +12 dBu (3.085 V) | +22 dBu (9.757 V) | |
| INPUT CH2 GUITAR ⁵ | OFF | 10 | 1MΩ | - | -68 dBu (3.085 mV) | -56 dBu (1.228 mV) | -46 dBu (3.884 mV) | Phone jack ³ (Unbalanced) |
| | | 0 | | | -22 dBu (61.56 mV) | -10 dBu (245.1 mV) | 0 dBu (775 mV) | |
| | ON | 10 | | | -42 dBu (6.153 mV) | -30 dBu (24.51 mV) | -20 dBu (77.5 mV) | |
| | | 0 | | | +4 dBu (1.228 V) | - | +10 dBu (2.451 V) | |
| LINE 3/4, 5/6 | - | HIGH | 10kΩ | 600Ω Lines | -20 dBu (77.5 mV) | -8 dBu (308.5 mV) | +2 dBu (975.7 mV) | LINE 3/4 Phone jack ³ (Unbalanced) LINE 5/6 RCA pin (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 | |
| STEREO OUT [L, R] | 150Ω | 10kΩ Lines | 0 dBu (775 mV) | +10 dBu (2.451 V) | Phone jack ⁶ (Impedance balanced) |
| MONITOR OUT [L, R] | 150Ω | 10kΩ Lines | 0 dBu (775 mV) | +10 dBu (2.451 V) | Phone jack ⁶ (Impedance balanced) |
| PHONES | 120Ω | 40Ω Phones | 2.4mW+2.4mW | 6mW+6mW | Stereo phone jack Stereo mini jack |

Digital Input/Output Characteristics

| OUTPUT TERMINALS | FORMAT | DATA LENGTH | Fs | 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

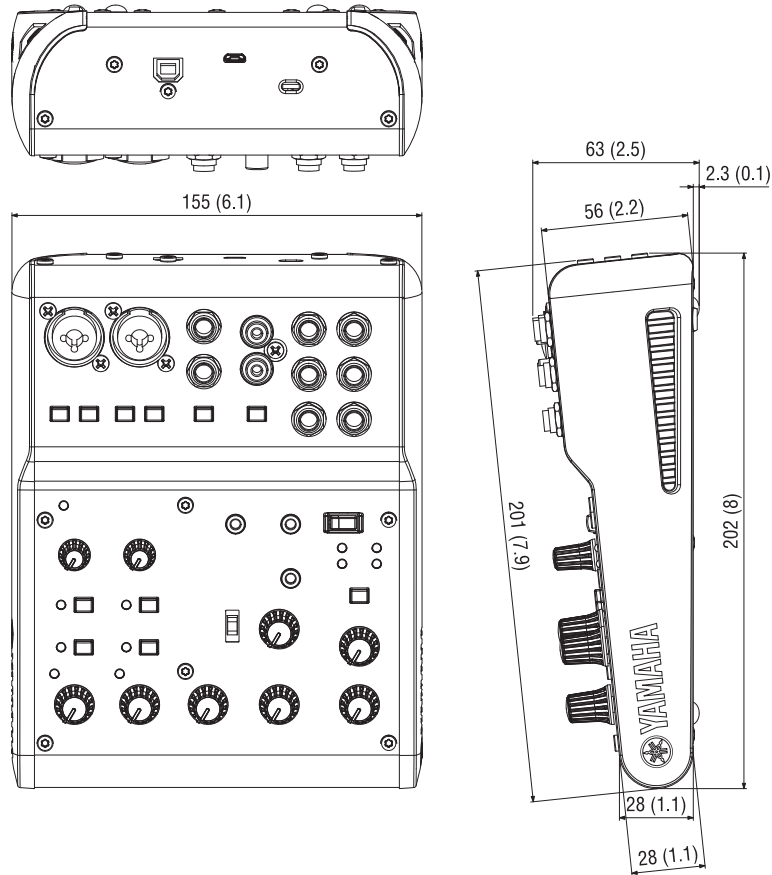
*4 For CH1, HEADSET MIC

*5 For CH2, GUITAR switch is ON

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

Dimensions

Unit: mm (inch)



Options

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

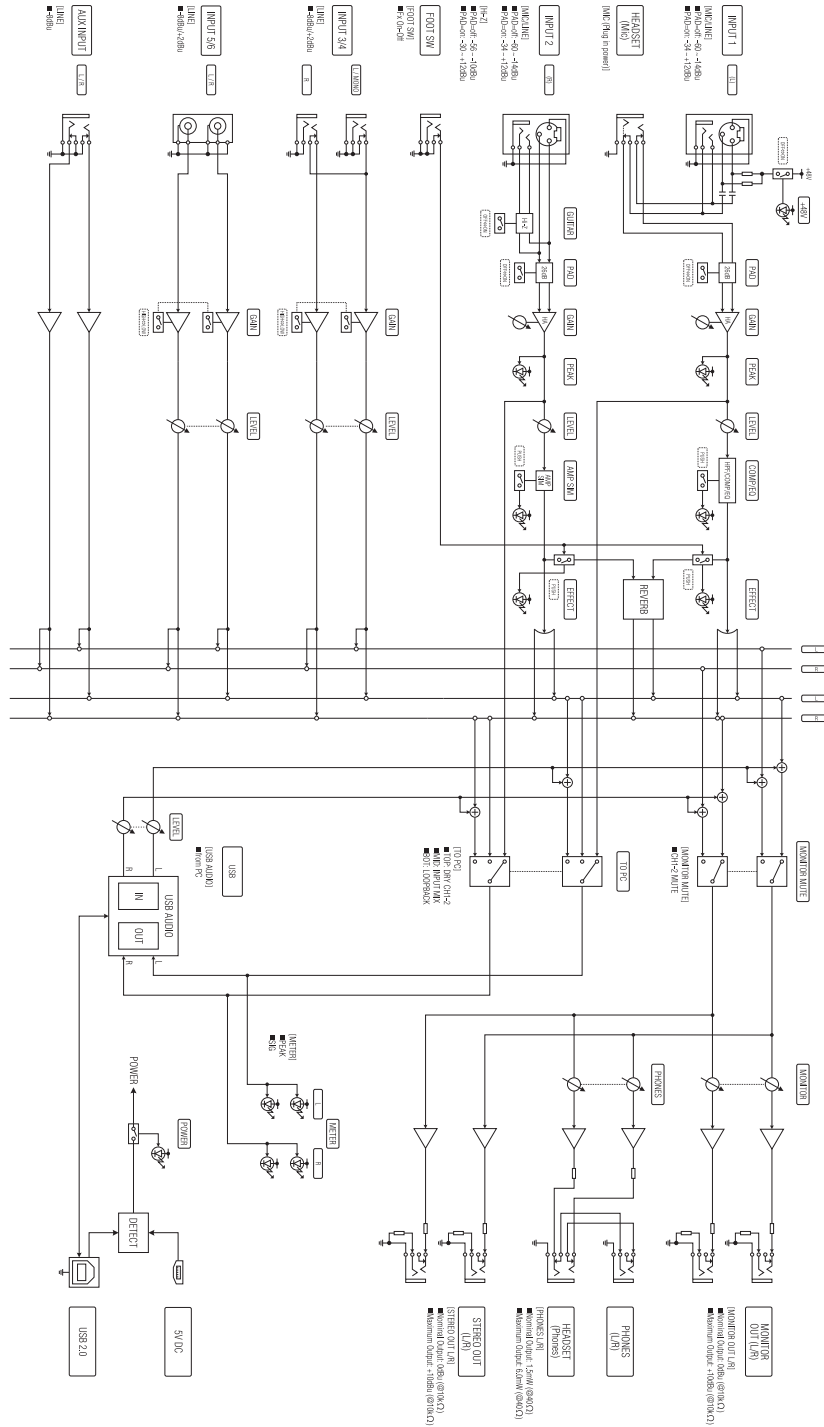
Software

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

Architectural and Engineering Specifications

The Yamaha AG06 6-channel Mixer/USB Interface shall be a multi-purpose mixer with integrated USB audio interface optimized for webcasting. The AG06 shall have six line Inputs (2 mono, 2 stereo) and two microphone inputs with 48-volt phantom power and high-pass filter for each channel. A Hi-Z input for guitars shall be provided on channel 2. One stereo output, one monitor output, and two headphone outputs shall be provided. A stereo mix bus shall be provided. The AG06 microphone preamplifiers shall be discrete class-A "D-PRE" types 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 AG06 shall be equipped with a 24-bit/192-kHz USB digital audio interface for 2-track recording and playback. The AG06 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 155 (W) x 202 (D) x 63 (H) mm (6.1" x 8.0" x 2.5"). Weight shall be 1.0kg (2.2lbs).

Block Diagrams



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