

## Overview

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MG06X is a versatile mixer suitable for a wide range of users and applications.



Rear Panel

## Features

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- Input channels: 6 Line Inputs (2 mono, 2 stereo), 2 Mic Inputs with 48V phantom power and HPH per channel.
- Output channels: 2 ST, 1 PHONES.
- Bus: 1 ST
- Robust, impact-resistant, powder-coated metal chassis.
- AC Adapter PA-130 (DC12V/1.0A) 120V/60Hz or MU18 (DC12V/1.5A) 100-240V 50/60Hz, or equivalent recommended by Yamaha.
- Discrete class A “D-PRE” mic preamps with an inverted darlington circuit.
- Digital effects processors: 6 “SPX” effects

## Specifications

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### General Specifications

|                        |                              |                                                                                                                     |
|------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| INPUT CHANNELS         | LINE INPUT                   | 6 (2 MONO + 2 STEREO)                                                                                               |
|                        | MIC INPUT                    | 2                                                                                                                   |
|                        | MONO INPUT (MIC/LINE)        | 2 (CH1-2)                                                                                                           |
|                        | MONO/STEREO INPUT (MIC/LINE) | 0                                                                                                                   |
|                        | STEREO INPUT (LINE)          | 2                                                                                                                   |
| OUTPUT CHANNELS        | STEREO OUT                   | 2                                                                                                                   |
|                        | MONITOR OUT                  | 0                                                                                                                   |
|                        | AUX SEND                     | 0                                                                                                                   |
|                        | GROUP OUT                    | 0                                                                                                                   |
|                        | PHONES OUT                   | 1                                                                                                                   |
| BUS                    | STEREO                       | 1                                                                                                                   |
|                        | GROUP                        | 0                                                                                                                   |
|                        | AUX                          | 0                                                                                                                   |
| USB AUDIO - USB IN/OUT |                              | No                                                                                                                  |
| PHANTOM POWER          |                              | +48V                                                                                                                |
| POWER REQUIREMENTS     |                              | 120V/60Hz (AC Adapter PA-130) or 100-240V 50/60Hz (MU18)                                                            |
| POWER SUPPLY TYPE      |                              | AC Adapter PA-130 (DC12V/1.0A) 120V/60Hz or MU18 (DC12V/1.5A) 100-240V 50/60Hz, or equivalent recommended by Yamaha |
| POWER CONSUMPTION      |                              | 12W                                                                                                                 |
| DIMENSIONS             | W x D x H                    | 149mm x 202mm x 62mm (5.9" x 7.9" x 2.4")                                                                           |
| NET WEIGHT             |                              | 0.9kg (1.98lbs)                                                                                                     |
| INCLUDED ACCESSORIES   |                              | AC Adaptor, Owner's manual, Technical Specifications                                                                |
| SOFTWARE APPLICATION   | Steinberg CUBASE AI          | No                                                                                                                  |
|                        | Steinberg CUBASIS LE         | No                                                                                                                  |
|                        | MG REC/PLAY (WAV)            | No                                                                                                                  |
| OPTIONAL ACCESSORIES   |                              | BMS-10A Mic Stand Adaptor                                                                                           |
| OPERATING TEMPERATURE  |                              | 0 to 40°C                                                                                                           |

### Featured Functions

|                     |                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------|
| D-PRE MIC PREAMP    | Yes                                                                                                    |
| 1-KNOB COMP         | No                                                                                                     |
| SPX DIGITAL EFFECTS | Yes (6 programs. REVERB HALL / REVERB ROOM / REVERB PLATE / DELAY SHORT / DELAY LONG / DELAY VO. ECHO) |

### Electrical Specifications

|                           |                                          |                                                                                |
|---------------------------|------------------------------------------|--------------------------------------------------------------------------------|
| TOTAL HARMONIC DISTORTION | +14dBu (20Hz to 20kHz)<br>Gain knob: Min | 0.01% @ +8dBu (20Hz to 20kHz), Gain knob: Min                                  |
|                           | +24dBu (1kHz)<br>Gain knob: Min          | 0.003% @ +18dBu (1kHz), Gain knob: Min                                         |
|                           |                                          |                                                                                |
| FREQUENCY RESPONSE        |                                          | ±0.5dB (20Hz - 20kHz), refer to the nominal output level @1kHz, GAIN knob: Min |
| HUM & NOISE LEVEL         | Equivalent input noise                   | -128 dBu (Mono Input Channel, Rs: 150Ω, Gain knob: Max)                        |
|                           | Residual output noise                    | -102 dBu (STEREO OUT, STEREO LEVEL knob: Min)                                  |
| CROSSTALK                 | @ 1kHz                                   | -88dB                                                                          |
| INPUT CHANNEL FUNCTION    | PAD                                      | 26dB                                                                           |
|                           | HPH                                      | 80Hz, 12dB/oct (Mono)                                                          |
|                           | COMP                                     | No                                                                             |
| INPUT CHANNEL EQ          | High                                     | (Mono) ±15dB (10kHz shelving)                                                  |
|                           | Mid                                      | -                                                                              |
|                           | Low                                      | (Mono) ±15dB (100Hz shelving)                                                  |
| LED LEVEL METER           | Pre Monitor Level                        | 2 x 7points LED meter (PEAK, +6, +3, 0, -3, -10, -20dB)                        |
| PEAK LED                  |                                          | LED turns on when post EQ 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* <sup>1</sup> | Nominal               | Max. before clip      |                                           |
| MIC/LINE<br>1/L, 2/R | OFF      | +64 dB             | 3k $\Omega$           | 50-600 $\Omega$<br>Mics/Lines | -72 dBu<br>(0.195 mV)     | -60 dBu<br>(0.775 mV) | -46 dBu<br>(3.884 mV) | Combo<br>jack* <sup>2</sup><br>(Balanced) |
|                      |          | +20 dB             |                       |                               | -28 dBu<br>(30.9 mV)      | -16 dBu<br>(122.8 mV) | -2 dBu<br>(615.6 mV)  |                                           |
|                      | ON       | +38 dB             |                       |                               | -46 dBu<br>(3.884 mV)     | -34 dBu<br>(15.46 mV) | -20 dBu<br>(77.5 mV)  |                                           |
|                      |          | -6 dB              |                       |                               | -2 dBu<br>(615.6 mV)      | +10 dBu<br>(2.451 V)  | +24 dBu<br>(12.283 V) |                                           |
| LINE<br>3/4 – 5/6    | -        | -                  | 10k $\Omega$          | 600 $\Omega$<br>Lines         | -22 dBu<br>(61.56 mV)     | -10 dBu<br>(245.1 mV) | +4 dBu<br>(1.228 V)   | Phone jack* <sup>5</sup><br>(Unbalanced)  |

### Analog Output Characteristics

| OUTPUT TERMINALS  | ACTUAL SOURCE IMPEDANCE | FOR USE WITH NOMINAL | OUTPUT LEVEL        |                      | CONNECTOR                                                        |
|-------------------|-------------------------|----------------------|---------------------|----------------------|------------------------------------------------------------------|
|                   |                         |                      | Nominal             | Max. before clip     |                                                                  |
| STEREO OUT [L, R] | 75 $\Omega$             | 10k $\Omega$ Lines   | +4 dBu<br>(1.228 V) | +18 dBu<br>(6.156 V) | XLR-3-32* <sup>3</sup><br>Phone jack* <sup>5</sup><br>(Balanced) |
| PHONES            | 33 $\Omega$             | 40 $\Omega$ Phones   | 2.4mW+2.4mW         | 24mW+24mW            | Stereo phone jack                                                |

0dBu is referenced to 0.775Vrms.

\*<sup>1</sup> Sensitivity is the lowest level that will produce an output of +4dBu (1.228V) or the nominal output level when the unit is set to maximum gain. (All level controls are maximum position.)

\*<sup>2</sup> 1&Sleeve = GND, 2&Tip = HOT, 3&Ring = COLD

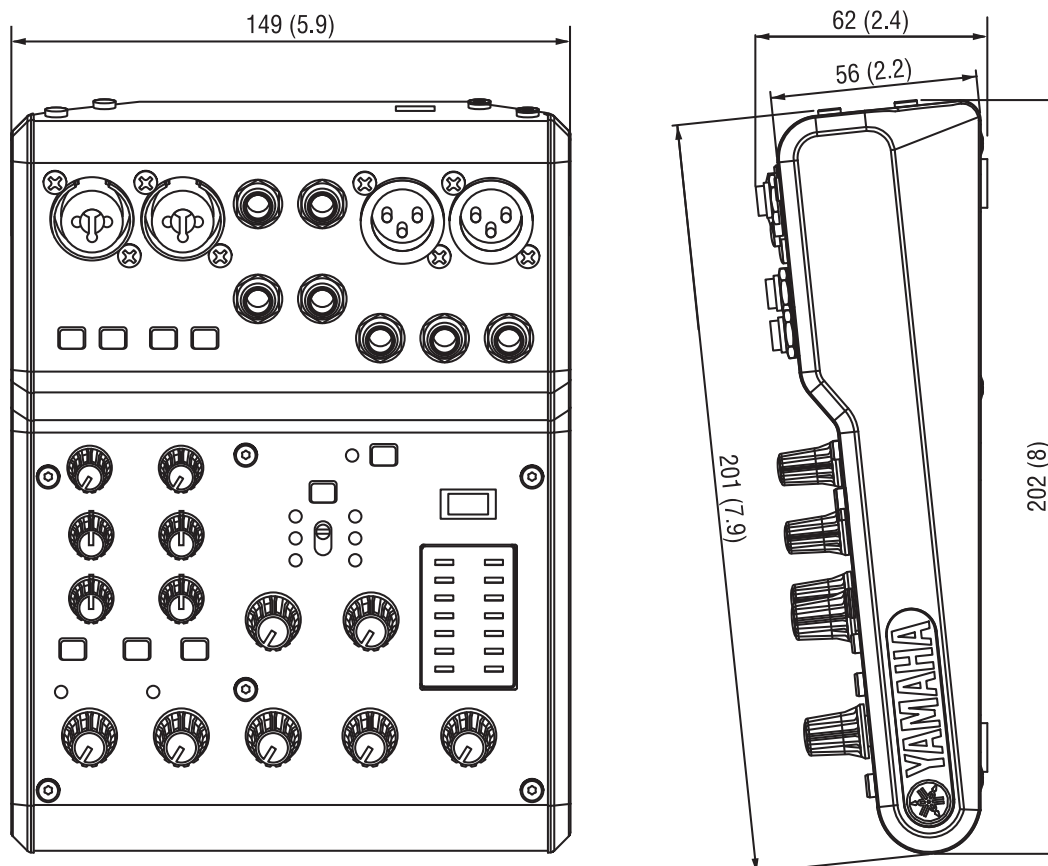
\*<sup>3</sup> 1 = GND, 2 = HOT, 3 = COLD

\*<sup>4</sup> Tip = HOT, Ring = COLD, Sleeve = GND

\*<sup>5</sup> Tip = Signal, Sleeve = GND

## Dimensions

Unit: mm (inch)



## Options

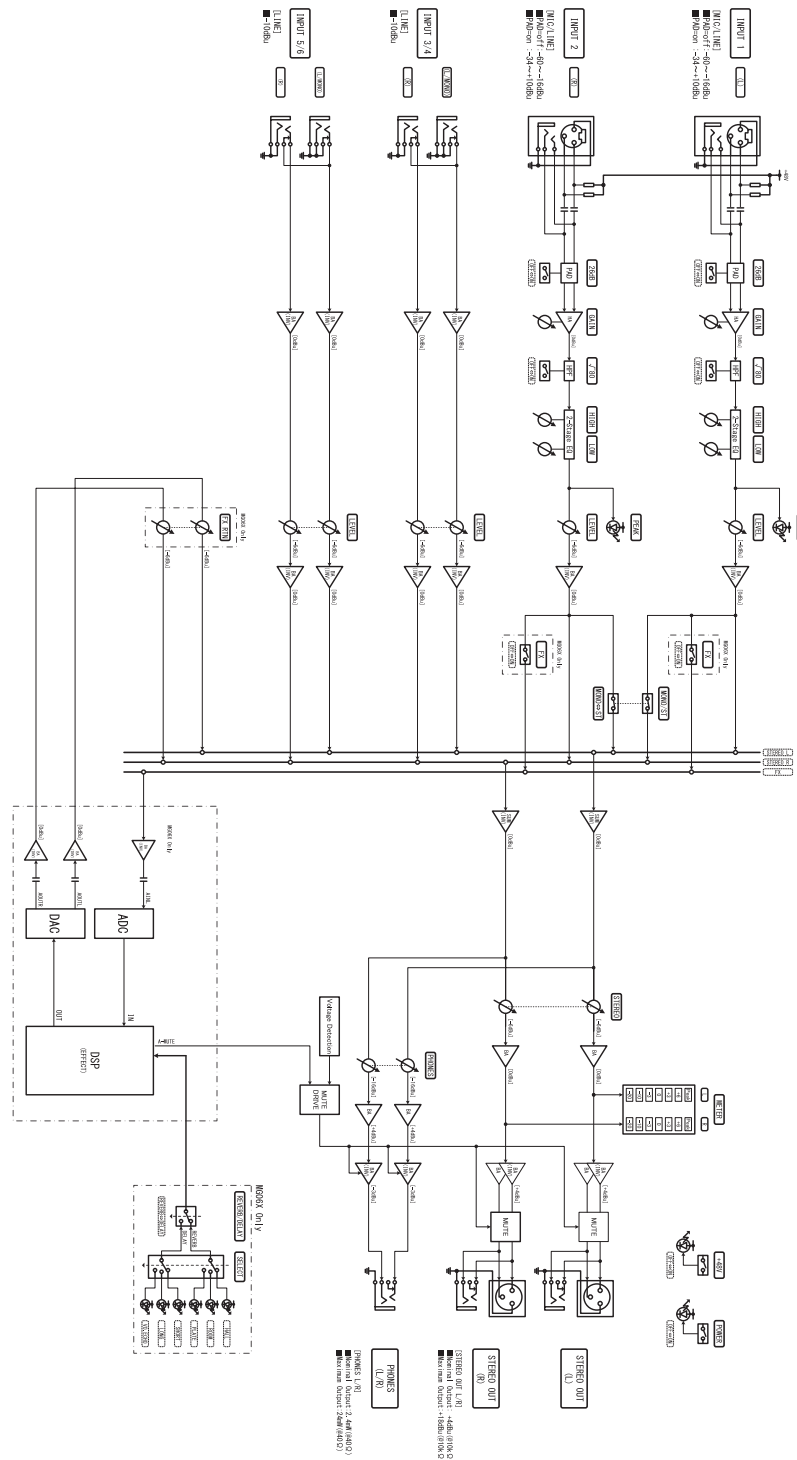
- Mic Stand Adaptor BMS-10A

## Architectural and Engineering Specifications

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The Yamaha MG06X Mixing Console shall be a versatile 6-channel mixer that is suitable for a wide range of users and applications. The MG06X shall have 6 line inputs (2 mono, 2 stereo) and 2 microphone inputs with 48-volt phantom power and a high-pass filter for each channel. Two stereo outputs and one headphone output shall be provided. One stereo buss shall be provided. The mixing console's microphone preamplifiers shall be discrete class-A "D-PRE" types for high sound quality. A digital effects processor with six high-quality "SPX" effects shall be included to allow creative sound processing. The mixing console shall be robust and built into an impact-resistant powder-coated metal chassis. The mixing console shall be powered by a Yamaha PA130 AC adapter (120V 60Hz in, DC12V 1.0A out), or Yamaha MU18 AC adapter (100-240V 50/60Hz in, DC12V 1.5A out), or equivalent. Dimensions shall be 149 (W) x 202 (D) x 62 (H) mm (5.9" x 7.9" x 2.4"). Weight shall be 0.9 kg (1.98lbs).

## Block Diagrams



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Created in March, 2017

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