

# MG206C, MG166C, MG124C, MG102C

## Mixing Consoles



1-knob  
Comp 12U

### MG206C



1-knob  
Comp 12U

### MG166C



1-knob  
Comp

### MG124C



1-knob  
Comp

### MG102C

A selection of lightweight, portable mixing consoles featuring Yamaha's one-knob compressor for advanced sonic control.

- 10, 12, 16, or 20 inputs in remarkably lightweight, portable designs.
- Yamaha's innovative one-knob compressor lets you easily dial in the amount of compression you need.
- High-quality Neutrik™ balanced XLR connectors on mono microphone/line channels and XLR-equipped stereo channels.
- Top-mounted input and output connectors for easy setup and re-patching.
- High-performance microphone preamplifiers with switchable phantom power.
- 3-band channel EQ and high-pass filters (sweepable midrange on the MG206C, MG166C).
- Smooth 60-millimeter faders & illuminated channel ON switches (MG206C, MG166C, MG124C).
- The MG102C has a single stereo bus (i.e. two mono buses), while all other models feature one or two additional stereo group buses and outputs for convenient channel grouping.
- AUX sends with master send controls for convenient processing and monitoring.
- Return level controls for the AUX and STEREO buses.
- Bright meters for visual level monitoring.
- Optional microphone stand mount available for the MG102C.
- MG206C, MG166C rack mountable.

#### OPTION

**BMS10A**  
Mic Stand Adaptor  
for MG102C



# MG206C, MG166C, MG124C, MG102C

## GENERAL SPECIFICATIONS

|                                     | MG206C  | MG166C  | MG124C   | MG102C   |
|-------------------------------------|---|---|--|--|
| Mic/Line inputs                     | 16  | 10  | 6  | 4  |
| Line inputs                         | 12 mono + 4 stereo  | 8 mono + 4 stereo   | 4 mono + 4 stereo  | 2 mono + 4 stereo  |
| Mixer input channels                | 20  | 16  | 12   | 10   |
| Group buses                         | 4   | 4   | 2  | -  |
| AUX buses                           | 4   | 3   | 2  | 2  |
| Main buses                          | Stereo  | Stereo  | Stereo   | Stereo   |
| Total harmonic distortion*1 (THD+N) | Less than 0.1%, 20Hz-20kHz  |   |  |  |
| Frequency response                  | 0, +1, -3dB, 20Hz-20kHz   |   |  |  |
| Hum and noise level*2               | Equivalent input noise (EIN): -128dBu<br>Residual output noise: -98dBu      |   |  | Equivalent input noise (EIN): -128dBu<br>Residual output noise: -100dBu      |
| Crosstalk (@1kHz)                   | -70dB   |   |  |  |
| Power supply adaptor                | PA-30 AC adaptor (AC35VCT, 1.4A)<br>100V, 120V, 220V, 230V or 240V; 50/60Hz | PA-30 AC adaptor (AC35VCT, 1.4A)<br>100V, 120V, 220V, 230V or 240V; 50/60Hz | PA-20 AC adaptor (AC35VCT, 0.94A)<br>100V, 120V, 220V, 230V or 240V; 50/60Hz | PA-10 AC adaptor (AC38VCT, 0.62A)<br>100V, 120V, 220V, 230V or 240V; 50/60Hz |
| Power consumption                   | 40W   | 30W   | 30W  | 21W  |
| Dimensions (W x H x D)              | 478 x 102 x 496mm (18.8" x 4.0" x 19.5")                                    | 478 x 105 x 496mm (18.8" x 4.1" x 19.5")                                    | 346.2 x 86.1 x 436.6mm (13.6" x 3.4" x 17.2")                                | 256.6 x 62.2 x 302.5mm (10.1" x 2.5" x 11.9")                                |
| Net weight                          | 6.0kg (13.2lbs)   | 5.3kg (11.7lbs)   | 3.0kg (6.6lbs)   | 1.5kg (3.3lbs)   |

\*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

\*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation

## INPUT SPECIFICATIONS

| Terminal                     | Gain  | Actual Load Impedance | For Use With Nominal | Input Level |         |                  | Connector                                      |
|------------------------------|-------|-----------------------|----------------------|-------------|---------|------------------|--|
|                              |       |                       |                      | Sensitivity | Nominal | Max. before Clip |  |
| <b>MG206C</b>                |       |                       |                      |             |         |                  |  |
| CH IN MIC (1-12)             | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | +4dBu            |  |
| CH IN LINE (1-12)            | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | TRS Phone jack*                                |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH MIC IN (13/14-19/20)   | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | -6dBu            |  |
| ST CH LINE IN (13/14, 15/16) | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | Phone jack**                                   |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH LINE IN (17/18, 19/20) | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | Phone jack**<br>Phone jack**<br>RCA pin jack** |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| CH INSERT IN (1-12)          | -     | 10kΩ                  | 600Ω Lines           | -20dBu      | 0dBu    | +20dBu           | TRS Phone jack**                               |
| RETURN [L,R]                 | -     | 10kΩ                  | 50-600Ω Mics         | -12dBu      | +4dBu   | +24dBu           | Phone jack**                                   |
| 2TR IN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -26dBV      | -10dBV  | +10dBV           | RCA pin jack**                                 |
| <b>MG166C</b>                |       |                       |                      |             |         |                  |  |
| CH IN MIC (1-8)              | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | +4dBu            |  |
| CH IN LINE (1-8)             | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | TRS Phone jack*                                |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH MIC IN (9/10, 11/12)   | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | -6dBu            |  |
| ST CH LINE IN (9/10, 11/12)  | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | Phone jack**                                   |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH IN (13/14, 15/16)      | -     | 10kΩ                  | 600Ω Lines           | -30dBu      | -10dBu  | +10dBu           | Phone jack**<br>RCA pin jack**                 |
| CH INSERT IN (1-8)           | -     | 10kΩ                  | 600Ω Lines           | -20dBu      | 0dBu    | +20dBu           | TRS Phone jack**                               |
| RETURN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -12dBu      | +4dBu   | +24dBu           | Phone jack**                                   |
| 2TR IN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -26dBV      | -10dBV  | +10dBV           | RCA pin jack**                                 |
| <b>MG124C</b>                |       |                       |                      |             |         |                  |  |
| CH IN MIC (1-4)              | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | +4dBu            |  |
| CH IN LINE (1-4)             | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | TRS Phone jack*                                |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH MIC IN (5/6, 7/8)      | -60dB | 3kΩ                   | 50-600Ω Mics         | -80dBu      | -60dBu  | -40dBu           | TRS Phone jack*                                |
|                              | -16dB |                       |                      | -36dBu      | -16dBu  | -6dBu            |  |
| ST CH LINE IN (5/6, 7/8)     | -34dB | 10kΩ                  | 600Ω Lines           | -54dBu      | -34dBu  | -14dBu           | Phone jack**                                   |
|                              | +10dB |                       |                      | -10dBu      | +10dBu  | +30dBu           |  |
| ST CH IN (9/10, 11/12)       | -     | 10kΩ                  | 600Ω Lines           | -30dBu      | -10dBu  | +10dBu           | Phone jack**<br>RCA pin jack**                 |
| CH INSERT IN (1-4)           | -     | 10kΩ                  | 600Ω Lines           | -20dBu      | 0dBu    | +20dBu           | TRS Phone jack**                               |
| RETURN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -12dBu      | +4dBu   | +24dBu           | Phone jack**                                   |
| 2TR IN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -26dBV      | -10dBV  | +10dBV           | RCA pin jack**                                 |
| <b>MG102C</b>                |       |                       |                      |             |         |                  |  |
| CH IN MIC (1, 2)             | -60dB | 3kΩ                   | 50-600Ω Mics         | -72dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -28dBu      | -16dBu  | +4dBu            |  |
| CH IN LINE (1, 2)            | -34dB | 10kΩ                  | 600Ω Lines           | -46dBu      | -34dBu  | -14dBu           | TRS Phone jack*                                |
|                              | +10dB |                       |                      | -2dBu       | +10dBu  | +30dBu           |  |
| ST CH MIC IN (3/4, 5/6)      | -60dB | 3kΩ                   | 50-600Ω Mics         | -72dBu      | -60dBu  | -40dBu           | XLR-3-31 type*                                 |
|                              | -16dB |                       |                      | -28dBu      | -16dBu  | -6dBu            |  |
| ST CH LINE IN (3/4, 5/6)     | -34dB | 10kΩ                  | 600Ω Lines           | -46dBu      | -34dBu  | -14dBu           | Phone jack**                                   |
|                              | +10dB |                       |                      | -2dBu       | +10dBu  | +30dBu           |  |
| ST CH IN (7/8, 9/10)         | -     | 10kΩ                  | 600Ω Lines           | -22dBu      | -10dBu  | +10dBu           | Phone jack**<br>RCA pin jack**                 |
| CH INSERT IN (1, 2)          | -     | 10kΩ                  | 600Ω Lines           | -12dBu      | 0dBu    | +20dBu           | TRS Phone jack**                               |
| RETURN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -8dBu       | +4dBu   | +24dBu           | Phone jack**                                   |
| 2TR IN [L,R]                 | -     | 10kΩ                  | 600Ω Lines           | -22dBV      | -10dBV  | +10dBV           | RCA pin jack**                                 |

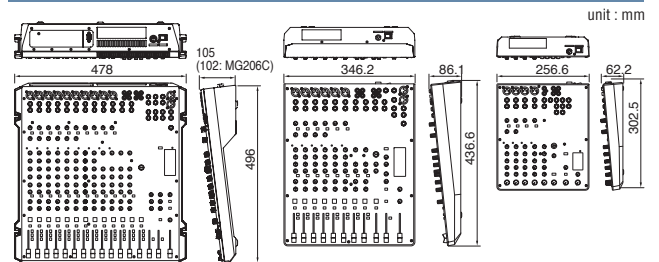
Sensitivity is the lowest level that will produce the nominal output level when the unit is set to maximum level.

## OUTPUT SPECIFICATIONS

| Terminal             | Actual Source Impedance | For Use With Nominal | Output Level |                  | Connector                            |
|----------------------|-------------------------|----------------------|--------------|------------------|--------------------------------------|
|                      |                         |                      | Nominal      | Max. before Clip |                                      |
| <b>MG206C</b>        |                         |                      |              |                  |                                      |
| STEREO OUT [L,R]     | 75Ω                     | 600Ω Lines           | +4dBu        | +24dBu           | XLR 3-32 type*<br>Phone jack**       |
| GROUP OUT [1-4]      | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| AUX SEND (1-4)       | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| CH INSERT OUT (1-12) | 75Ω                     | 10kΩ Lines           | 0dBu         | +20dBu           | Phone jack (TRS)***                  |
| REC OUT [L, R]       | 600Ω                    | 10kΩ Lines           | -10dBV       | +10dBV           | RCA pin jack**                       |
| MONITOR OUT [L, R]   | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| PHONES OUT           | 100Ω                    | 40kΩ Lines           | 3mW          | 75mW             | Stereo phone jack**                  |
| <b>MG166C</b>        |                         |                      |              |                  |                                      |
| STEREO OUT [L,R]     | 75Ω                     | 600Ω Lines           | +4dBu        | +24dBu           | XLR 3-32 type*<br>Phone jack (TRS)** |
| GROUP OUT [1-4]      | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| AUX SEND (1-3)       | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| CH INSERT OUT (1-8)  | 75Ω                     | 10kΩ Lines           | 0dBu         | +20dBu           | Phone jack (TRS)***                  |
| REC OUT [L, R]       | 600Ω                    | 10kΩ Lines           | -10dBV       | +10dBV           | RCA pin jack**                       |
| MONITOR OUT [L, R]   | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)*                    |
| PHONES OUT           | 100Ω                    | 40kΩ Lines           | 3mW          | 75mW             | Stereo phone jack**                  |
| <b>MG124C</b>        |                         |                      |              |                  |                                      |
| STEREO OUT [L, R]    | 75Ω                     | 600Ω Lines           | +4dBu        | +24dBu           | XLR 3-32 type*<br>Phone jack (TRS)** |
| GROUP OUT [1, 2]     | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| AUX SEND (1, 2)      | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| CH INSERT OUT (1-4)  | 75Ω                     | 10kΩ Lines           | 0dBu         | +20dBu           | Phone jack**                         |
| REC OUT [L, R]       | 600Ω                    | 10kΩ Lines           | -10dBV       | +10dBV           | RCA pin jack**                       |
| MONITOR OUT [L, R]   | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| PHONES OUT           | 100Ω                    | 40kΩ Lines           | 3mW          | 75mW             | Stereo phone jack**                  |
| <b>MG102C</b>        |                         |                      |              |                  |                                      |
| STEREO OUT [L,R]     | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| AUX SEND             | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack (TRS)***                  |
| CH INSERT OUT (1-2)  | 75Ω                     | 10kΩ Lines           | 0dBu         | +20dBu           | Phone jack (TRS)***                  |
| REC OUT [L, R]       | 600Ω                    | 10kΩ Lines           | -10dBV       | +10dBV           | RCA pin jack**                       |
| MONITOR OUT [L, R]   | 150Ω                    | 10kΩ Lines           | +4dBu        | +20dBu           | Phone jack***                        |
| PHONES OUT           | 100Ω                    | 40kΩ Lines           | 3mW          | 75mW             | Stereo phone jack**                  |

\*\*\* : Impedance balanced

## DIMENSIONS



MG166C, MG166CX, MG206C,  
MG166C-USB, MG166CX-USB,  
MG206C-USB

MG124C, MG124CX

MG102C, MG82CX