

Welcome

Thank you for purchasing the Yamaha AG03 Mixing Console. Please read this manual thoroughly to get the most out of the product and ensure long-term, trouble-free use. After reading this manual, keep it readily available for future reference.

For the remainder of this manual, the word "mixer" is used instead of "Mixing Console."

Main Features

Multi-purpose 3-channel mixer with audio interface, ideal for live webcasting

- Audio interface supports up to 24-bit/192 kHz recording.
- An intuitive Loopback function enables fast and easy live webcasting.
- Yamaha's premium "D-PRE" mic preamp provides high resolution sound.

Included Accessories

- USB cable (1.5 m)
- Technical Specifications (English only): Includes general specifications, input/output characteristics, block diagram, dimensions, and jack and plug list.
- CUBASE AI DOWNLOAD INFORMATION: Contains the access code necessary for downloading the Steinberg DAW software Cubase AI.
- Owner's Manual (this leaflet)

QuickStart Guide

Preparation: Download and install drivers.

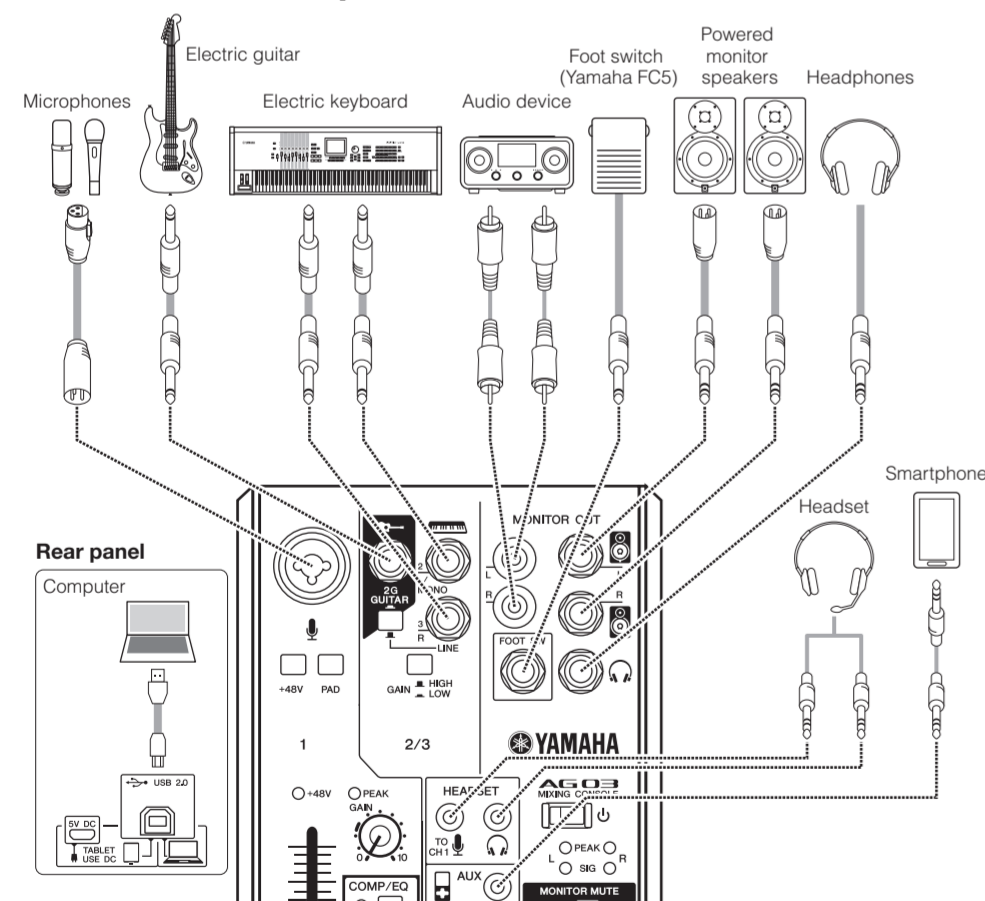
The "Yamaha Steinberg USB Driver" might be required for computer input/output. Visit the following Yamaha website for details on downloading and installing the driver, and making the necessary settings.

<http://www.yamahaproaudio.com/ag/>

STEP 1 Connecting speakers, microphones, instruments, etc.

- 1 Turn off the power of all speakers, instruments, and other devices to be connected to the mixer.
- 2 Connect speakers, microphones, and instruments referring to the connection example below.

Connection Example



NOTE If you are using condenser microphones, turn on () the [+48V] phantom power switch.

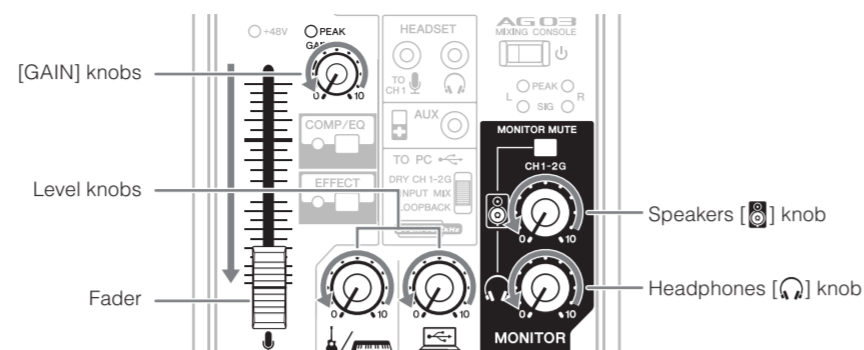
STEP 2 Getting sound to the speakers or headphones.

- 1 Make sure that all switches including the () (Standby/On) switch are not pressed ().
- 2 Use the included USB cable to connect your computer to the mixer.

When using the [USB 2.0] terminal on the mixer's rear panel, refer to the notice "Precautions when using the [USB 2.0] and [5V DC] terminals." When connecting a tablet or other device that cannot provide power to the mixer, connect a commercially available USB power adapter or USB mobile battery to the [5V DC] terminal (micro B).

3 Set the fader and all knobs ([GAIN] knob, Level knobs, Speakers [] knob, and Headphones [] knob) to the minimum.

(Minimum: Lower fader to the bottom setting. Turn knobs fully to the left.)



4 Make sure that the volume of the powered speakers is set to minimum.

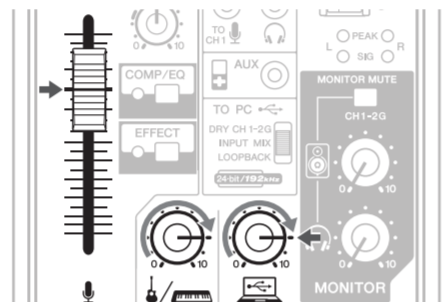
5 Turn on the power to connected devices in the following order: Instruments, audio devices → Mixer's () switch → Powered monitor speakers.

NOTICE Follow this order to avoid loud, unexpected noise from the speakers. Reverse the order when turning the power off.

6 If a microphone or instrument is connected to channel 1, set the [GAIN] knob to the 12 o'clock position.



7 Slide the fader to the position indicated by the thick line, and turn the Level knobs to the 3 o'clock position.



8 Set the Speakers [] knob and the Headphones [] knob to the 12 o'clock position.

9 Speak into your microphone, play your instrument, or play your audio device, and adjust the volume on the powered monitor speakers.

10 If no sound is heard, or if you want to adjust the volume, follow the instructions in the boxed section below.

If you still do not hear the sound after doing the following steps, please refer to the checklist in the "Troubleshooting" section at the back of this booklet.

■ There is no sound, or you need to increase the volume

1 Speak into your microphone or play your instrument, turning the [GAIN] knob to the right so that the corresponding [PEAK] LED flashes briefly.

- NOTE**
- For optimum volume when using a microphone, place the microphone as close to the sound source as possible.
 - If the [PEAK] LED does not light even if the [GAIN] knob has been turned fully to the right, raise the volume of the sound source (instrument, etc.).

If no sound is heard or the volume does not increase after step 1:

- 2 If the [PAD] switch or [GAIN] switch is turned on (), set the fader and Level knob fully to minimum, and then turn off () the switches.
- 3 Slowly slide the fader or turn the Level knob until the desired volume is reached.

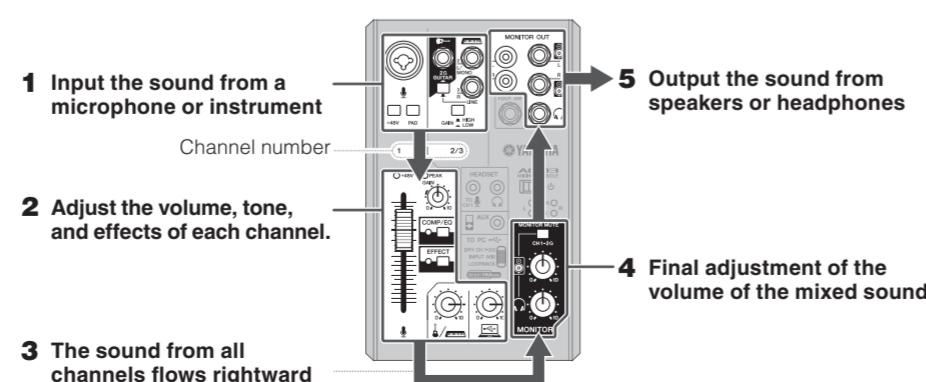
■ To decrease the volume:

- 1 Set the fader and the Level knob fully to the minimum, and then turn on () the [PAD] switch or [GAIN] switch on the channel for which you want to decrease the volume.
- 2 Slowly slide the fader or turn the Level knob until the desired volume is reached.

If the volume does not decrease after the above steps:

- 3 Lower the volume of the instrument or audio device.

Mixer Basics: Where Your Sound Goes



Controls and Functions

3 MIC/LINE input jacks

For connecting to a microphone, an instrument, or an audio device. These jacks support both XLR and phone plugs.



4 Guitar [] input jack (channel 2G)

For connecting to an instrument, such as an electric guitar or an electric bass. This jack supports phone plugs. This jack is disabled when the [GUITAR/LINE] switch (5) is off ().

5 [GUITAR/LINE] switch

For switching the input on channel 2. Turn this switch on () when directly connecting an instrument with high output impedance, such as an electric guitar or electric bass, to the Guitar [] input jack (4). Turn this switch off () when connecting a line-level instrument to the Line [] input jack (6). When this switch is turned on, use an unbalanced cable with phone plugs to connect the instrument to the mixer. The mixer will not operate correctly if a balanced cable is used.

CAUTION

When operating this switch, turn all output controls (such as the Speakers [] knob and Headphones [] knob) fully to "0" (minimum). Sudden high level peaks caused by the switching operation can damage external devices as well as the hearing of those present.

6 LINE [] input jacks

For connecting to line-level devices such as an electric keyboard or an audio device. Use the [L/MONO] jack on channel 2 for instruments, etc. with mono output. In this case, the sound input to the [L/MONO] jack is output from both the L channel and R channel on the mixer. This jack is disabled when the [GUITAR/LINE] switch (5) is on ().

7 [GAIN] switch

Determines the basic volume for channel 2/3. Turn this switch on () if you hear distortion.

NOTE Turn the Level knob to minimum before turning the [GAIN] switch on () and off (). Otherwise, noise may be produced.

8 [+48V] phantom switch / [+48V] LED

When this switch is turned on (), the [+48V] LED lights and DC +48 V phantom power is supplied to the XLR plug on MIC/LINE input jack (3). Turn this switch on when using a phantom-powered condenser microphone.

NOTICE

Be sure to leave this switch off () if you do not need phantom power. Follow the important precautions below, in order to prevent noise and possible damage to external devices as well as the mixer if you turn this switch on ().

- Be sure to leave this switch off () when you connect a device that does not support phantom power to channel 1.
- Make sure to turn this switch off () when connecting/disconnecting a cable to/from channel 1.
- Slide the fader on channel 1 to minimum before turning this switch on () and off ().

9 [PAD] switch

Turning the switch on () will attenuate the sound input to channel 1. If you hear distortion or the [PEAK] LED lights frequently even if the [GAIN] knob (11) is turned fully to the left, turn this switch on.

NOTE Slide the fader to minimum before toggling the [PAD] switch on () and off (). Otherwise, noise may be produced.

10 [PEAK] LED

Lights when the volume of input sound is too high. If it is lit, turn the [GAIN] knob (11) to the left to lower the volume.

11 [GAIN] knob

Determines the basic volume for channel 1. Adjust this knob so that the [PEAK] LED (10) flashes briefly when singing or playing the loudest.

12 [COMP/EQ] button*

This button turns on the compressor and equalizer (yellow LED lights). The default settings reduce unwanted low-frequency noise and variations in vocal level, and have parameters that are suitable to webcasting.

13 [EFFECT] button*

This button turns on the effects on channel 1 (yellow LED lights). The default settings have reverb turned on to add a natural spaciousness to the sound.

■ Tips on volume adjustment

Use the [PAD] switch, [GAIN] knob/[GAIN] switch, and fader/Level knobs to adjust volume. However, the [PAD] switch and [GAIN] knob/[GAIN] switch should not be adjusted again once they have been set optimally. Normally, the fader/Level knobs are used to adjust volume. For details about each function, see "Controls and Functions".

1 [USB 2.0] terminal

For connecting to a computer using the included USB 2.0 cable. When connected to a computer, the computer supplies power to the mixer and audio data can be sent between the mixer and computer. A USB driver might be required for computer input/output. You can download the driver from the following Yamaha website, and install it on your computer. <http://www.yamahaproaudio.com/ag/>

NOTICE

Please do not connect any device to [USB 2.0] terminal other than personal computers or tablet devices.

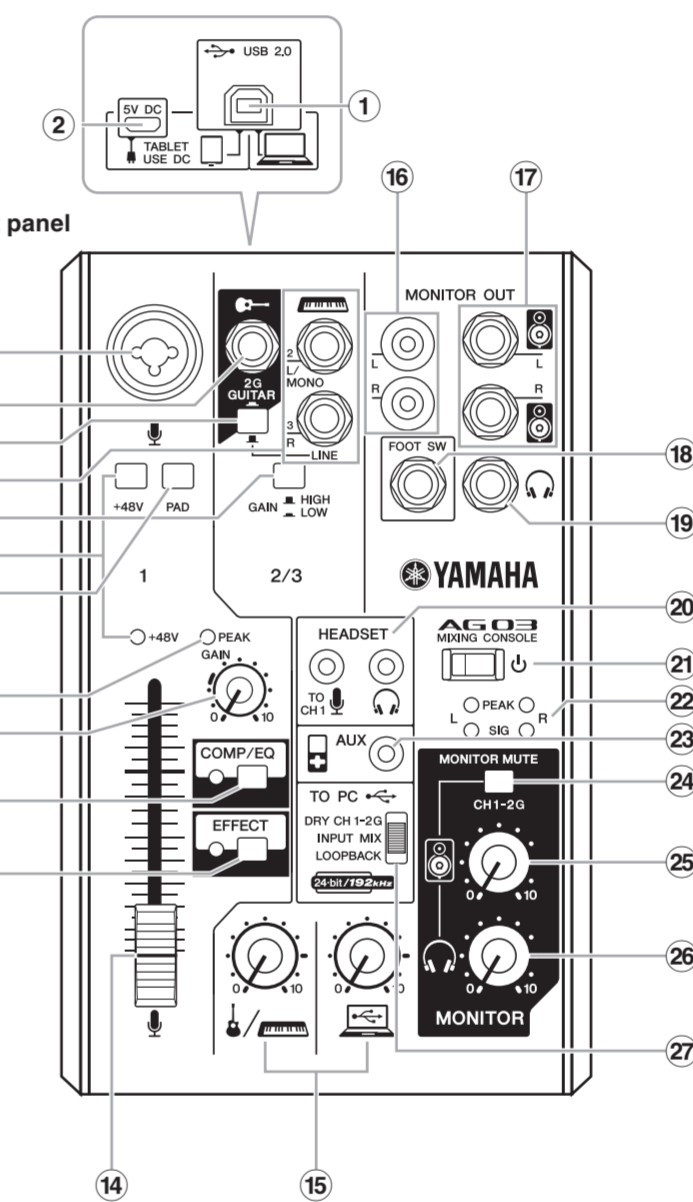
2 [5V DC] terminal

For connecting to a commercially available USB power adapter or USB mobile battery. Use this terminal when connecting the mixer to a tablet or other device that cannot supply power to the mixer. A USB power adapter or USB mobile battery is not included with the mixer.

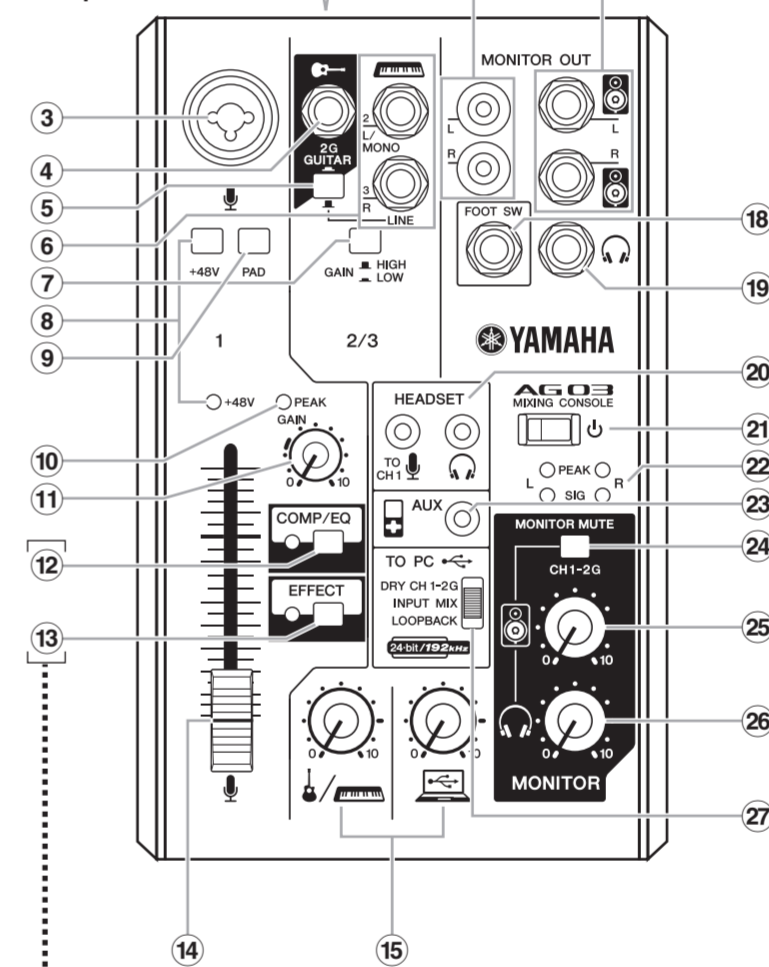
NOTICE

- Please read the safety precautions for the USB power adapter or USB mobile battery that you are using.
- Use a USB power adapter or USB mobile battery that can supply power via a USB micro B plug based on the following USB standards: Output voltage: 4.8 V to 5.2 V Output current: 0.5 A or greater

Rear panel



Front panel



* You can use a dedicated application to set the detailed settings for [COMP/EQ] (12) and [EFFECT] (13). Visit the following Yamaha website for details. <http://www.yamahaproaudio.com/ag/>

■ Resetting (12) and (13) to factory default settings

Turn the () switch (21) on () while pressing and holding down the [COMP/EQ] button (12).

14 Fader

15 Level knobs

Set the volume balance between each channel.

↓ : Adjust the volume of the sound input from the microphone or other source connected to channel 1.

↓/ : Adjust the volume of the sound input from the guitar, electric keyboard, or other source connected to channel 2.

↓ : Adjust the volume of the sound input from the computer via the [USB 2.0] terminal.

16 [MONITOR OUT] jacks (RCA jacks)

Connect powered monitor speakers. These jacks support phone plugs (balanced/unbalanced).

17 [MONITOR OUT] jacks (phone jacks)

For connecting to a separately-sold foot switch (Yamaha FC5, etc.).

When the [EFFECT] button (13) is turned on, the effected sound can be muted with a foot switch. The [EFFECT] button LED flashes while the effected sound is muted.

19 Headphones [] output jack

For connecting to a set of headphones. This jack supports a stereo phone plug. To connect headphones or earphones with stereo mini plugs, you can use the [HEADSET] headphones output jack (20).

20 [HEADSET] microphone [] input jack

For connecting to the microphone plug for your headset. Normally this plug is color-coded in pink. The audio input here is sent to channel 1.

NOTE If a microphone is connected to the [HEADSET] microphone input jack, the sound from the microphone or instrument connected to the MIC/LINE input jack (3) on channel 1 is cut off.

[HEADSET] headphones [] output jack

For connecting to the headphone for your headset. Normally this plug is color-coded in light green. The same sound as for the headphones [] output jack (19) is output.

NOTE If a headphone plug is connected to the [HEADSET] headphones [] output jack, the sound output from the headphones [] output jack (19) is cut off.

21 () (Standby/On) switch

For turning the power of the unit to standby () and on ().

NOTICE

Rapidly switching the () switch between on and standby in succession can cause the mixer to malfunction. After switching the () switch to standby, wait for at least six seconds before turning it on again.

22 Level meter

If the level of the sound sent to the computer exceeds -10 dBu, [SIG] (green) turns on; if the level reaches 3 dB before clip level (+7 dBu), [PEAK] (red) turns on. To send an appropriate volume to the computer, adjust the volume of each channel until [SIG] remains lit and [PEAK] flashes only momentarily when there is a loud sound.

23 [AUX] input jack

This is an auxiliary input jack. It supports a stereo mini plug. You can connect a smartphone or other device and use applications to trigger sound effects or background music. Use the controls on the connected device to adjust volume.

24 [MONITOR MUTE] switch

When this switch is on (), sound input to channels 1 and 2G is not output from the [MONITOR OUT] jacks (16, 17), headphones [] output jack (19), and [HEADSET] headphones [] output jack (20) (direct monitoring is OFF).

25 Speakers [] knob**

Adjust the volume sent to the device connected to the [MONITOR OUT] jacks (16, 17).

26 Headphones [] knob**

Adjust the volume to headphones connected to the Headphones [] output jack (19) and [HEADSET] headphones [] output jack (20).

** The Speakers [] knob and Headphones [] knob can be adjusted separately.

27 [TO PC] slide switch

Select the sound to send to the computer.

[DRY CH 1-2G]:

Sends the sound after [GAIN] knob adjustments from channel 1 and the sound immediately after the [GAIN] switch from channel 2G directly to the computer. The sound that is sent is not affected by Level knob adjustments. The sounds input to channels 1 and 2G (guitar and vocal, etc.) can be recorded separately, as with an audio interface.

[INPUT MIX]:

The sound input into the mixer and mixed in stereo is sent to the computer. Sound input from the computer is not sent back to the computer.

[LOOPBACK]:

The sound input into the mixer and the sound played on the computer are mixed in stereo and sent to the computer. This setting is used primarily for webcasting.

NOTE To prevent feedback when using DAW software, use either [DRY CH 1-2G] or [INPUT MIX].

Recording

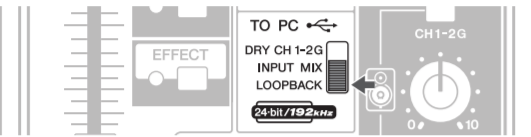
Recording requires the download and installation of DAW software.

Visit the following Yamaha website for details on downloading and installing the Steinberg DAW software Cubase AI, and making the necessary settings. At that time, also refer to the included CUBASE AI DOWNLOAD INFORMATION for important information.

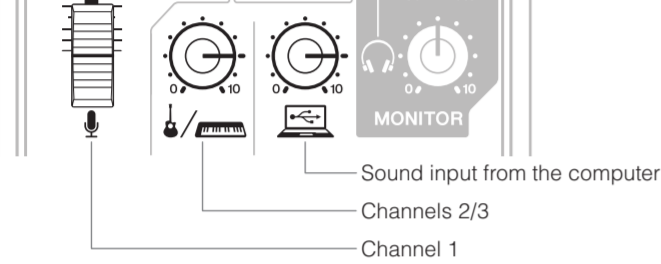
<http://www.yamahaproaudio.com/ag/>

Webcasting

Set the [TO PC] slide switch  to [LOOPBACK].



When set to [LOOPBACK], the following signals are mixed and sent to the computer.



Visit the following Yamaha website for details on webcasting.


<http://www.yamahaproaudio.com/ag/>

Troubleshooting







Check the following items before contacting a Yamaha dealer.

If the symptoms are not improved, contact your nearest Yamaha dealer.









Power does not come on.

- Did you properly connect the mixer and a computer by using the included USB cable?
- Did you press the  (Standby/On) switch?

No sound.

- Did you download and install the Yamaha Steinberg USB Driver from the following Yamaha website?
<http://www.yamahaproaudio.com/ag/>
- Did you properly connect the external devices such as microphones, and powered monitor speakers?
- Are any connecting cables shorted or damaged?
- Did you turn on the power of connected electric instruments and external devices, and the powered monitor speakers?
- Did you properly adjust the [GAIN] knob, fader, Level knobs, Speakers  knob, and Headphones  knob to appropriate levels?
- Are the [PAD] switches and [GAIN] switches turned on  ?
Turn these switches off  . If the volume of the sound source is too soft, turning on  these switches might result in no audible sound.
- Is the [MONITOR MUTE] switch turned on  ?
- If you are using webcasting software, is the volume adjusted appropriately in the software?

Sound is faint, distorted, or noisy.

- Is the [PEAK] LED lit?
Lower the [GAIN] knob, or turn on  the [PAD] switch.
- Are the [GAIN] knob, fader, Level knobs, Speakers  knob, or the Headphones  knob set too high?
- Are the [PEAK] (red) indicators of the level meter lit?
Adjust the fader and Level knobs to appropriate levels. Lowering the volume with the Speakers  knob or the Headphones  knob will not affect the [PEAK] indicators on the level meter.
- Is the volume from a connected device too loud?
Lower the volume of the connected device.
- Are the [PAD] switch and [GAIN] switch turned off  ?
Turn these switches on  . If the volume of the sound source is too loud, turning off  these switches might result in distorted sound.
- Is the [TO PC] slide switch set to [LOOPBACK]?
If this switch is set to [LOOPBACK] when using DAW software, a loop might be produced depending on the settings of the DAW software, possibly resulting in feedback. When recording while listening to the sound via a computer, be sure to set this switch to a setting other than [LOOPBACK].

The sound of vocals and speech isn't clear enough.

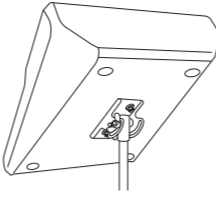
- Turn on the [COMP/EQ] button (yellow LED lights).
The default settings for this button have parameters that are suitable for webcasting, reducing unwanted low-frequency noise and variations in vocal level.

No effect is applied.

- Did you turn on the [EFFECT] button (yellow LED lights)?

Mounting to a Microphone Stand

The unit can be mounted onto a microphone stand as illustrated at right, by using the optionally available Yamaha BMS-10A microphone stand adapter. For instructions on mounting, refer to the BMS-10A Owner's Manual.



General Specifications

Input Channels	Mono (MIC/LINE): 1 including HEADSET MIC (Plug-in Power), Stereo (LINE)/ Mono (GUITAR): 1, USB IN: 1, AUX IN: 1						
Output Channels	MONITOR OUT: 2, PHONES: 2 including HEADSET PHONES						
Bus	Stereo: 1						
Input Channel Function (CH1)	<table><tbody><tr><td>PAD</td><td>26 dB</td></tr><tr><td>DSP</td><td>COMP/EQ, EFFECT (SPX Reverb)</td></tr><tr><td>PEAK LED</td><td>LED turns on when the signal reaches 3 dB below clipping level.</td></tr></tbody></table>	PAD	26 dB	DSP	COMP/EQ, EFFECT (SPX Reverb)	PEAK LED	LED turns on when the signal reaches 3 dB below clipping level.
PAD	26 dB						
DSP	COMP/EQ, EFFECT (SPX Reverb)						
PEAK LED	LED turns on when the signal reaches 3 dB below clipping level.						
Level Meter	USB Output Level 2x2 point LED meter [PEAK, SIG]						
USB Audio	2 IN / 2 OUT USB Audio Class 2.0 compliant, Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit						
Phantom Power Voltage	+48 V						
FOOT SW	EFFECT Mute on/off						
Power Requirements	DC 5 V, 500 mA						
Power Consumption	Max. 2.5 W						
Dimensions (WxHxD)	129 mm x 63 mm x 202 mm (5.1" x 2.5" x 8.0")						
Net Weight	0.8 kg (1.8 lbs)						
Optional Accessory	Foot Switch: FC5, Mic Stand Adaptor: BMS-10A						
Operating Temperature	0 to +40°C						

For other specifications, see the included "Technical Specifications."

The contents of this manual apply to the latest specifications as of the printing date. Since Yamaha makes continuous improvements to the product, this manual may not apply to the specifications of your particular product. To obtain the latest manual, access the Yamaha website then download the manual file. Since specifications, equipment or separately sold accessories may not be the same in every locale, please check with your Yamaha dealer.

Information for Users on Collection and Disposal of Old Equipment



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

[For business users in the European Union]

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

(weee_eu_en_01)

FCC INFORMATION (U.S.A.)

- 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2. IMPORTANT:**
When connecting this product to accessories and/or another product use only high quality shielded cables. Cables supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE:**
This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filters. In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable. If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620
The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Do not open

- This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Yamaha service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and disconnect the USB cable from the computer. Then have the device inspected by qualified Yamaha service personnel.
- Never insert or remove a USB cable with wet hands.

Fire warning

- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

If you notice any abnormality

- When one of the following problems occur, immediately turn off the power switch and disconnect the USB cable from the computer. Then have the device inspected by Yamaha service personnel.
 - The USB cable becomes frayed or damaged.
 - It emits unusual smells or smoke.
 - Some object has been dropped into the device.
 - There is a sudden loss of sound during use of the device.
- If this device should be dropped or damaged, immediately turn off the power switch, disconnect the USB cable from the computer, and have the device inspected by qualified Yamaha service personnel.

CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Location

- Do not place the device in an unstable position where it might accidentally fall over.
- Do not place the device in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Before moving the device, remove all connected cables.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

Maintenance

- Remove the USB cable from a computer when cleaning the device.

Handling caution

- Do not insert your fingers or hands in any gaps or openings on the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device. If this happens, turn off the power immediately and disconnect the USB cable from the computer. Then have the device inspected by qualified Yamaha service personnel.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.
- Do not use speakers or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

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