



**YAMAHA**

*Make Waves*

**SILENT Brass<sup>TM</sup>**

Experience the Evolution of **SILENT Brass<sup>TM</sup>**

A photograph of a wooden desk in a room with wood-paneled walls. On the desk, there is a laptop displaying a software interface with a volume knob and play/pause buttons. A white cable is plugged into the laptop. Next to the laptop is a small black device and a pair of black earbuds. A green leafy plant in a yellow pot sits on the desk. A wooden chair with a black seat is in the foreground. In the background, a wooden shelf holds several colorful folders or books.

# SILENT Brass<sup>TM</sup>

SILENT Brass<sup>TM</sup>, Personal Studio<sup>TM</sup>, Pickup Mute<sup>TM</sup>, Brass Resonance Modeling<sup>TM</sup>, and SILENT Brass<sup>TM</sup> logo are all trademarks owned by the YAMAHA Corporation.

**You dream to be rid of that stuffy mute, and play the way you want to play...**

**The Next Generation SILENT Brass™ Delivers, Offering Greater Playing Enjoyment, Anytime, Anywhere.**

You want to play when and as you like, without being confined to time or place... Yamaha's next generation SILENT Brass™ makes it happen.

The new Personal Studio™ STJ features an evolved version of original Yamaha "Brass Resonance Modeling" signal processing technology that delivers even greater sonic reality.

Personal Studio™ STJ also allows players to add and adjust reverb to taste, and to easily connect to a computer or smart device via a USB cable and make recordings or even movies of their performances. The new Silent Brass system goes beyond being a personal practice tool, to a tool that lets the player connect with the world from anywhere.





## “Makes Playing More Enjoyable”

“My horn sat in its case for such a long time... but lately I've found some time to play. I pick it up and blow whenever I can, playing without restraint. The other day I tried playing that melody I loved so much... It's all coming back to me now.”



### **Eliminates the Worry Of Disturbing Others**

Compared to normal mutes, the SILENT Brass Pickup Mute has an extremely high muting capability that can reduce sound to 1/1000th of its original level. That's a 30db reduction. While the headphones let you enjoy playing as you feel anytime, the sound that actually escapes from the mute is only a whisper.

## “Capture Your Inspiration... As Quick As You Can”

Those times you really want to play right away... when inspiration strikes... it's great being able to play as soon as possible.

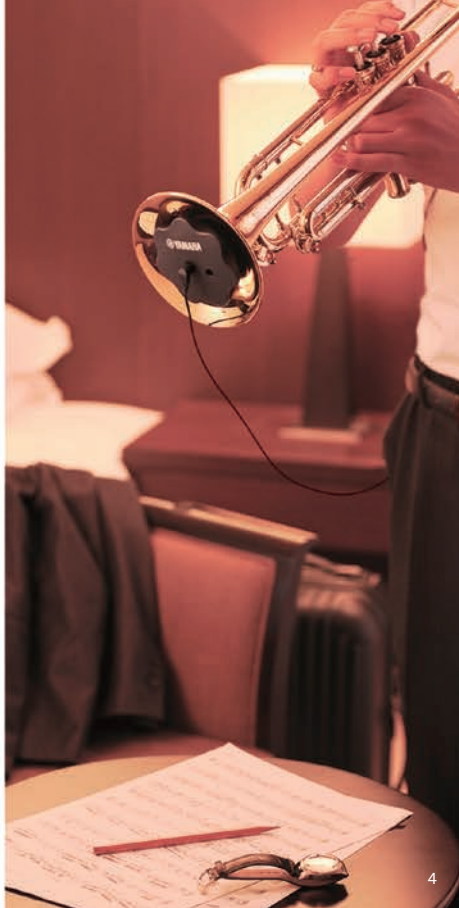
Now, even in the confines of a hotel room, you can experience playing freely in a concert hall, and listen to your imagination come alive.



### Always Ready, Anytime, Anywhere

Smaller and lighter than previous models, these refined Pickup Mutes are more portable and easier to keep with your instrument at all times. Be prepared to perform with outstanding tone anywhere, at any time.

\* With some instrument and mute combinations, the instrument will fit in a standard case with the mute attached. See the Yamaha web site for details.





## This Is The Sound Your Ears Should Be Hearing

“Just practicing your fingers and lips... does it really bring you satisfaction?”  
“It shouldn't. You should be able to practice comfortably, with real tone, anywhere, anytime.”

Yamaha's Brass Resonance Modeling™ Ver.2.0 delivers what brass players have longed for. This Yamaha original digital technology produces a truer, unmuted instrument tone by adding the characteristics of the acoustic environment through which the sound travels from the horn to the player's ears. Fine-tuned with the cooperation of a great many players, the resulting sound delivers an overwhelming sense of reality.

## Connect with the World from Home

When the Personal Studio™ STJ is connected to a computer or smart device via the supplied USB cable it becomes possible to record or take part in online lessons at home. No audio interface or complicated wiring is necessary. The Personal Studio™ STJ goes beyond being a personal practice tool, to a tool that lets the player connect with the world from home.

\* An adapter is required for smartphone connection.

# Personal Studio STJ

Sound captured by the Pickup Mute is processed and delivered for output to the PHONES jack. The diagram below shows how the Pickup Mute and stereo earphones connect to the Personal Studio for use.



## ① MUTE IN Jack

Connect the cable from the Yamaha Pickup Mute™.



## ② HEADSET Jack

This is where the earphones or a pair of headphones connect. You can also use this jack as an output jack for recording to an external device, etc.



## ③ MIC VOLUME Control

Adjust the microphone volume of the attached earphones with microphone connected to the headset jack (2).



## ④ VOLUME Control

Adjust the volume level of the PHONES jack and the USB terminal.



## ⑤ Power Switch

This is where you power up the Personal Studio.



## ⑥ Reverb Switch

Select the type of reverb (ROOM, HALL).



## ⑦ Reverb Dial

Adjust the reverb effect level.



## ⑧ SOUND Switch

Changes the way you hear when you play an instrument. (PLAYER mode/AUDIENCE mode)



## ⑨ USB Jack

When the Personal Studio™ STJ is connected to a computer or smart device via the supplied USB cable it becomes possible to record or take part in online lessons at home.



## ⑩ AUX IN Jack

Connect an audio player or other such device here and jam along with an external sound source. Great for playing along with your favorite recordings or "minus one" practice aids.  
\* Cable sold separately.



## ⑪ Clip

Use the clip to attach the Personal Studio to a belt, clothing, etc (with strap hole).



## The Secret to Realistically Natural Tone

The SILENT Brass features Yamaha's unique technology, "Brass Resonance Modeling" which uses the modeling of non-muted brass instruments to correct your instrument's tone when the Pickup Mute is in place. The resulting sound is so realistic, it's hard to tell whether the instrument is muted, or not.

Brass Resonance Modeling utilizes three simultaneous processes to produce realistic brass tone. (Player Mode)

### ● **Cancel the distinctive mute sound**

Sound picked up by the microphone at the end of the pickup mute is processed digitally to cancel out the characteristic "closed" sound of the mute.

### ● **Add the instrument's natural sound**

The natural sound that emanates from the bell and returns to the player's ears when the instrument is played without a mute is reproduced and added.

### ● **Adjust left-right balance to match the player's position**

The timing, volume, and tone of the sound reaching the player's left and right ears are individually adjusted, and reverb is added as needed to accurately simulate the feel of playing in a room or hall.



## Pickup Mute

The Pickup Mute combines a high-performance mute with an internal microphone to pickup sound. Significantly smaller and lighter than previous versions, the mute offers superior muting performance, delivers excellent intonation over a wide pitch range, and natural playability.

\* Please note that the Pickup Mute may not fit some instruments with significantly different bell shapes or bell diameters. Please check before purchasing.



### ● Easy To Attach And Remove

New mutes are designed to attach and remove smoothly and easily.



### ● Specially Designed Mini Microphone

Microphone performance, its mounting position, and the surrounding mute design were all optimized to bring out the full potential of Brass Resonance Modeling.

### ● Compact Size

- The PM7X for trumpet and PM5X for trombone feature compact designs that allow the instruments to be stored in their cases with the mutes attached.
- The distance the mute protrudes from the bell has been minimized, optimizing instrument hold and balance for fatigue-free playing.

\* Yamaha tubas will not fit in the supplied hard case with the tuba mute installed.

\* Depending upon instrument type and model it may not fit in some cases. Please check our web site for more information.

## New models for Tuba and Euphonium

### ● Adjustable Rod

An adjustable rod allows the position of the mute head to be varied to achieve the desired pitch response and playing feel. Not only can the player adjust the mute to fit different bell sizes and match his or her own pitch and playing feel preferences, this capability allows the same tuba mute to be used with B $\flat$ , C, E $\flat$ , and F horns.

### ● Disassemble to Compact Size

The disassembled mute body halves can be stacked for compact storage.



## Model Lineup • Specs

Compatibility	SILENT Brass (Set)	Pickup Mute (Sold Individually)
	Model	Model
Trumpet, Cornet	SB7J (PM7X + STJ)	PM7X
Tenor Trombone, Tenor Bass Trombone, Bass Trombone	SB5J (PM5X-2 + STJ)	PM5X-2
French Horn	SB3J (PM3X + STJ)	PM3X
Flugelhorn	SB6J (PM6X + STJ)	PM6X
Euphonium	SB2J (PM2X + STJ)	PM2X
Tuba	SB1J (PM1X + STJ)	PM1X

- SILENT Brass (Set) accessories include a stereo earphones with microphone, USB cable, manual.
- Pickup Mute (Sold Separately) accessories include a special cable, manual.

\* The SB5J (PM5X-2) is not compatible with alto trombones.

\* Some models can only be used with marching brass while seated.

\* The SB2J (PM2X) cannot be used with alto horn (tenor horn) and baritone.

\* The PM1X for tuba features an adjustable rod that allows the mute head to be positioned for optimum performance with B, C, E, and F horns.



STJ

PM7X

PM6X

PM5X-2

## Personal Studio Specifications

Jacks and Terminals	MUTE IN, AUX IN, PHONES, USB
Control	Reverb type, Reverb depth, Sound (Player/Audience), Volume
Power Supply	AA alkaline or nickel-metal hydride batteries x 2 (not included)
Dimensions (W x D x H)	70.2mm x 30mm x 121.3mm
Weight	112g without batteries

- STJ (Sold Separately) accessories include a stereo earphones with microphone, USB cable, manual.



PM3X



PM2X



PM1X

### Pickup Mute Specifications

Model	PM7X	PM6X	PM5X-2	PM3X	PM2X	PM1X
Dimensions (diameter × length)	82 × 139mm	129 × 143mm	129 × 220mm	129 × 216mm	210 × 395mm	335 × 695mm
Weight	70g	130g	155g	195g	750g	1800g

## Please Note The Following Before Using

For proper use, please read the “manual” thoroughly before using.

### Please Note

● In some cases, the Pickup Mute may not fit instruments that have significantly different bell diameters and/or shapes. Please check before purchasing. ● The Pickup Mute is not compatible with Marching Brasses, Alto(Tenor) Horns, or Baritones. ● The SILENT Brass mute for Trombone (SB5J) and the Pickup Mute (PM5X-2) are not compatible with Alto Trombones. ● SILENT Brass mutes for Flugelhorn (SB6X) and Pickup Mute (PM6X) protrudes 3-4 cm from the bell. ● For information on compatibility with Yamaha brass instruments and cases please refer to the information provided on our web site. ● Always remove the Pickup Mute from the instrument if the instrument is to be stored for an extended period of time. ● Audio output is optimized for use with stereo earphones. Connecting any other device may result in inferior audio quality. ● AA batteries are not supplied. Please purchase separately. ● SILENT Brass™, Personal Studio™, Pickup Mute™, Brass Resonance Modeling™, and SILENT Brass™ logo are all trademarks owned by the YAMAHA Corporation.

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## SILENT Brass products have been acclaimed for their design



**iF Design Award 2014**  
(organized by Industrie Forum  
Design Hannover, Germany)  
“Product Design Award”



**reddot award 2014**  
winner

**Red Dot Award**  
(organized by Design Zentrum  
Nordrhein Westfalen, Germany)  
“Product Design Award”



**Design for Asia Award**  
(organized by Hong Kong  
Design Center)  
“Grand Award”

For more information on the new SILENT Brass ...

Search

<http://www.yamaha.com/silentbrass/>

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German Design Award  
2016 "Winner"



JIDA DESIGN MUSEUM  
SELECTION VOL.17 SELECTED

**JIDA Design Museum Selection**  
(organized by Japan Industrial Designers' Association)  
**2015 "VOL.17 Selected Product"**

