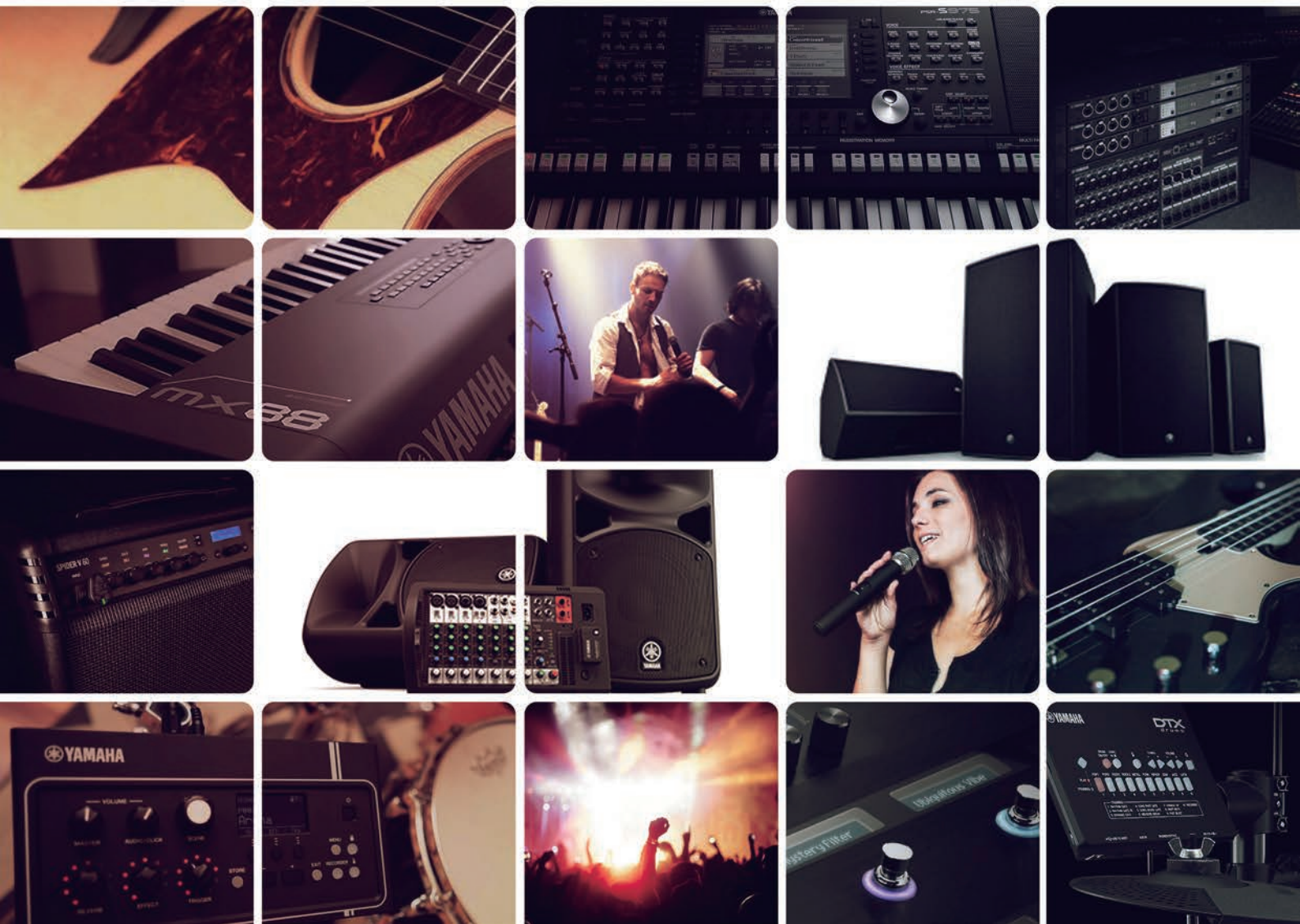


# Application Guide

## for Worship Solutions



# Contact Us for Your Individual Needs

Thank you very much for requesting this  
**"Application Guide for Worship Solutions"**

In this guide you will find all the different Worship Solutions with product specifications our engineers recommend,  
and that we list on our website.

We hope that it will help while you are considering your system needs.

Please remember, Yamaha is always available to work with you to get the right system design for your specific needs!

We invite you to take a look at some inquiry examples below,  
and please feel free to contact us for more information.



## Product Specification

Do you need a consultant to find right product specification? Let Yamaha help.



## System Design

Need help in finding the right solution for your application? Our solution providers can work with you to get the right system design for your specific needs.



## Recommended Dealer

No matter where you may be located in the world, Yamaha has a dealer/partner that can work with you to get the product you need, when you need it.



## Price Quotation

Let Yamaha help you with your quotations by making sure you have the right product specified for the project.



## Installation

Once you have purchased the gear, and your team is ready to install. Yamaha can be a partner to your installation team by answering any questions you may have about the product.



## Training

Yamaha conducts various clinics/workshops of various products from musical instruments to audio system in all over the world. Contact us more information.



## Tour Support

Yamaha products are used on several worldwide music tours today. Let us help you have a great show by working with you to put together the right gear.



## After Support

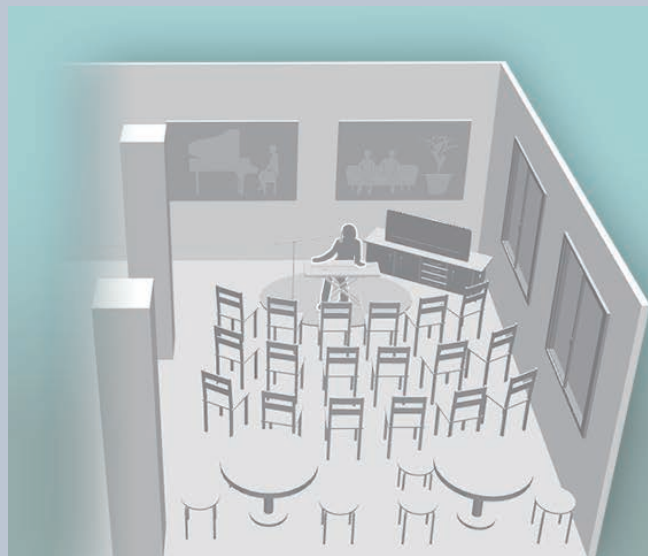
Feel free to contact us to get your issue resolved.

# INDEX

Application	Portable					Small		Medium	
	Keyboard Only	Speech Only	Guitar Only (1)	Guitar Only (2)	Full Band	Keyboard Only	Full Band	Full Band	
<b>Room Dimensions</b>	L 6.0m (20ft) W 4.0m (13ft) H 3.0m (10ft)	L 6.0m (20ft) W 4.0m (13ft) H 3.0m (10ft)	L 6.7m (22ft) W 4.8m (16ft) H 3.0m (10ft)	L 6.7m (22ft) W 6.7m (22ft) H 3.0m (10ft)	L 6.7m (22ft) W 6.7m (22ft) H 3.0m (10ft)	L 10.0m (33ft) W 6.7m (22ft) H 3.6m (12ft)	L 10.0m (33ft) W 7.0m (23ft) H 4.8m (16ft)	L 10.6m (35ft) W 15.2m (50ft) H 6.0m (20ft)	
<b>Number of Microphones</b>	1	1	3	6	3	3	14	15	
<b>Microphone (Speech/Singing)</b>	–	–	–	–	–	XD-V55 x3	XD-V75 x5	XD-V75 x6	— P20
<b>Mixer</b>	–	STAGEPAS 400BT	STAGEPAS 400BT	EMX5	MG16XU	MG16XU	TF3	TF5 MG06X x2 (for IEM)	— P21
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<b>Monitor Speaker</b>	–	–	DBR10	DBR10 x2	DBR10 x4	DBR10 x2	DBR10 x5	DXR12 x2	— P27
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# Application

## Portable - Keyboard Only



### < Assumed Application >

#### Portable - Keyboard Only

Room Dimensions (LWH) :

6m x 4m x 3m (20ft x 13ft x 10ft)

- Portable "On-The-Go" Worship (ex. Mission School Visits, Hospital Visits, Small in-door/out-door services)
- No physical band or separate PA is required

## POINT OF THIS SOUND SYSTEM

**Solution for a "Portable" worship ministry, no band, no sound system needed, just you and an instrument**

PSR-S775/S975 have powerful built-in speakers.

The keyboard comes equipped with a microphone input, so no external PA system is required to sing along. All you need is the keyboard and a microphone to perform.

With the PSR-S975, you can add sound effects to the vocal, like reverb and a compressor.

The Vocal Harmonizer function lets you add backing vocals to your singing.

With automatic accompaniment, you can sound like a full band.

[Go to product page \(PSR-S975\)](#)



## Useful Solutions

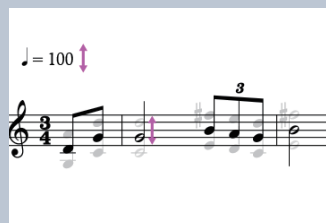


You can download and use popular worship songs

[Yamaha Musicsoft.com](#)



Mic / Guitar input allows you to add vocals to your live performance

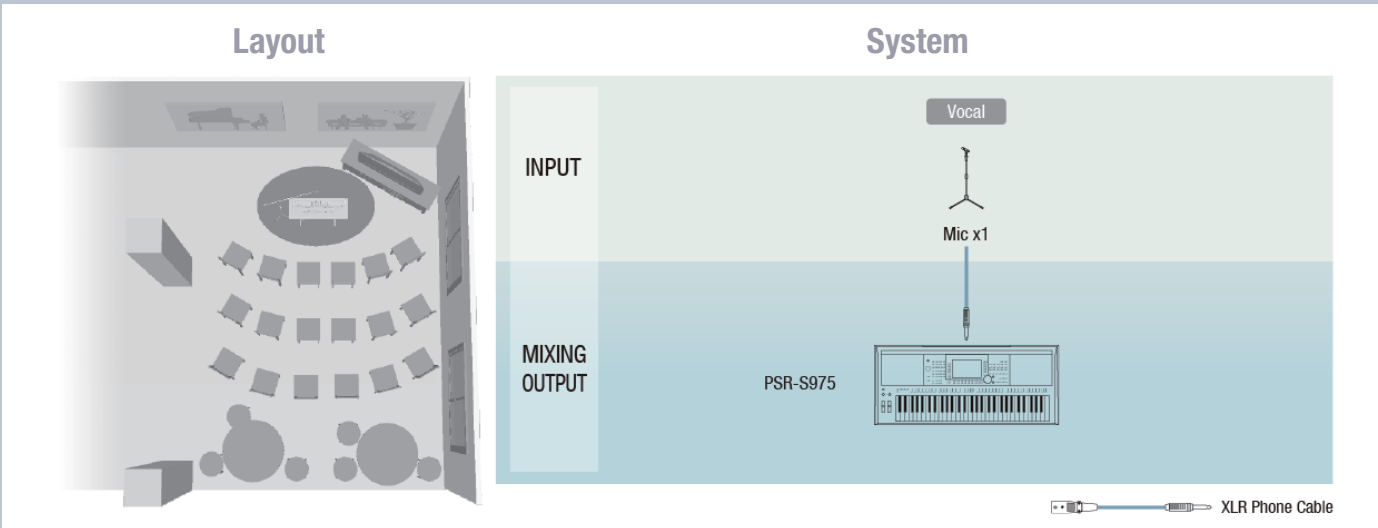


You can to any tempo & key



You can project the song and words onto external screen

# System Example



### PA Equipment

Category	Product	Qty
Microphone	-	1

### Musical Instrument

Category	Product	Qty
Keyboard	PSR-S975 -Arranger Workstations	1

### Suggested Accessories

- XLR Phone Cable
- Microphone Stand
- Power Extension Cable
- Portable Keyboard Stand

### Option



Plus powered speaker or plus all-in-one PA system  
[Go to product page \(DBR Series\)](#)  
[Go to product page \(STAGEPAS\)](#)

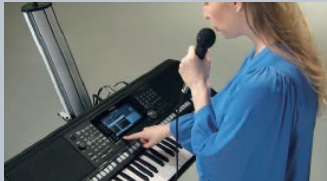
### Step Guide



**STEP1**  
 Plug your MIDI Song Data into the PSR-S975



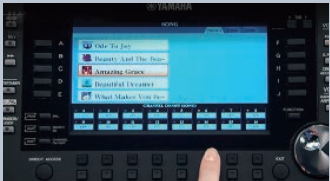
**STEP2**  
 Plug the microphone cable into the PSR-S975



**STEP3**  
 Set the onboard mixer to microphone



**STEP4**  
 Play recorded music sing along!



**Useful Functions**  
 Take melody line off / Change tempo / Change key

# Application

## Portable - Speech Only



### < Assumed Application >

#### Portable - Speech Only

Room Dimensions (LWH) :

6m x 4m x 3m (20ft x 13ft x 10ft)

- Small Venue
- Portable "On-The-Go" Worship (ex. Mission School Visits, Hospital Visits, Small in-door/out-door services)
- When speech only is needed

## POINT OF THIS SOUND SYSTEM

All you need is this "All-In-One" PA system for a portable "On-The-Go" ministry

The removable mixer conveniently stores in the back of one speaker, while cables and mics can be stored in the other, making the ultra-portable STAGEPAS very easy to carry, transport, and set up.

[Go to product page \(STAGEPAS\)](#)



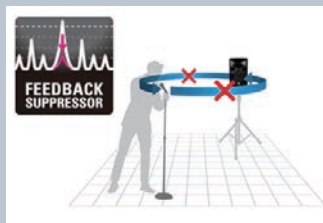
## Useful Solutions



Easy to use



Bluetooth Wireless Audio Streaming



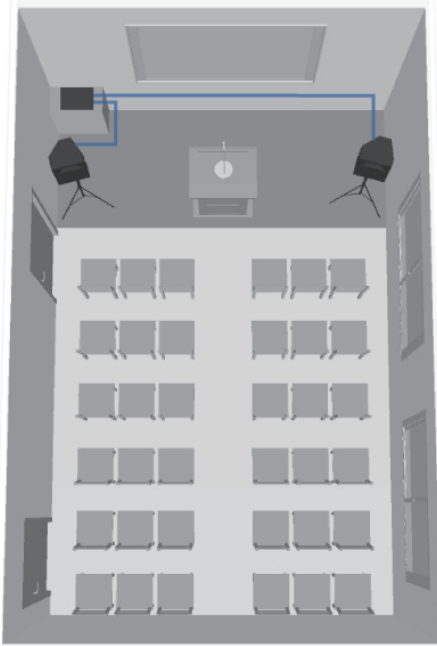
Feedback Suppressor prevents uncomfortable mic feedback problems



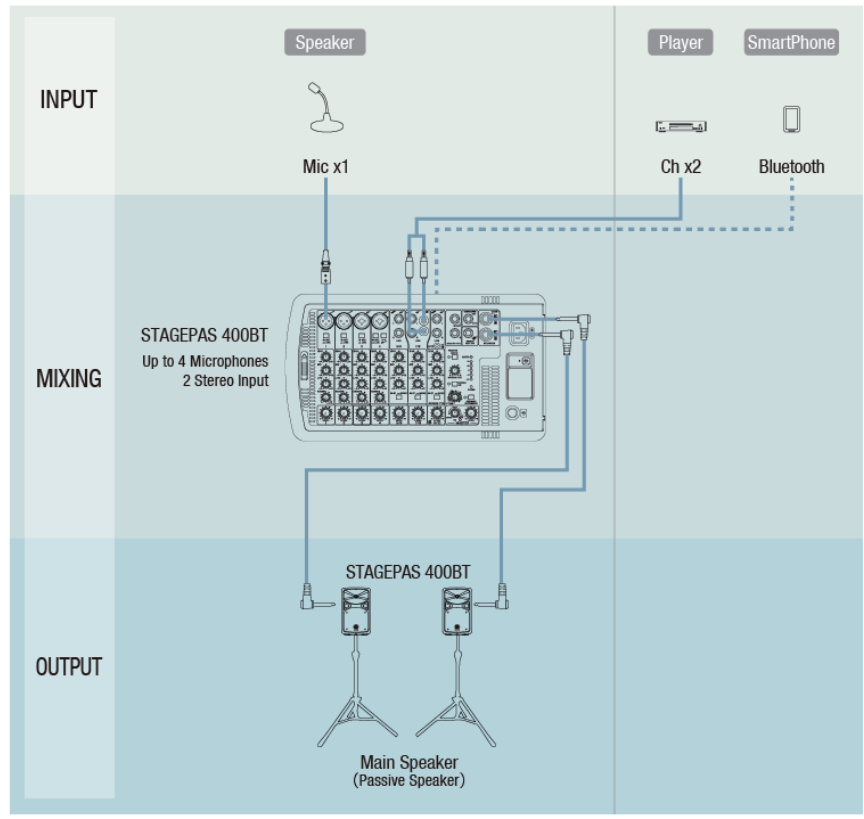
You can quickly set the right EQ for your voice and venue

# System Example

Layout



System



## PA Equipment

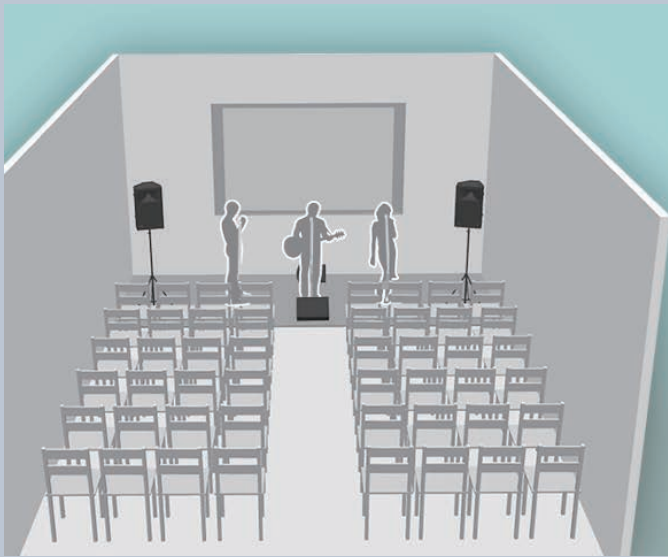
Category	Product	Qty
Mixer	STAGEPAS 400BT -Portable PA System	1
Main Speakers	(Speaker Cables are included)	
Microphone	-	1

## Suggested Accessories

- Microphone Cable
- Microphone Stand
- Power Extension Cable
- Power Multi-Strip
- Adjustable Speaker Stands
- Accessory Case

# Application

## Portable - Guitar Only (1)



### < Assumed Application >

#### Portable - Guitar Only (1)

Room Dimensions (LWH) :

6.7m x 4.8m x 3m (22ft x 16ft x 10ft)

- Small Venue / Youth Space / Coffee House
- Guitar and vocals only

## POINT OF THIS SOUND SYSTEM

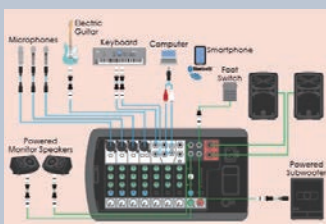
**Even users with no PA experience can produce high-quality sound!**

You don't have a volunteer that knows how to setup and run a PA system?  
Don't worry!  
The STAGEPAS system is very simple and easy to use.  
Just plug the mic in, turn the volume up and you're ready to play.

[Go to product page \(STAGEPAS\)](#)



## Useful Solutions



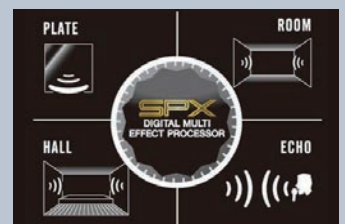
You can add more inputs



Bluetooth Wireless Audio Streaming

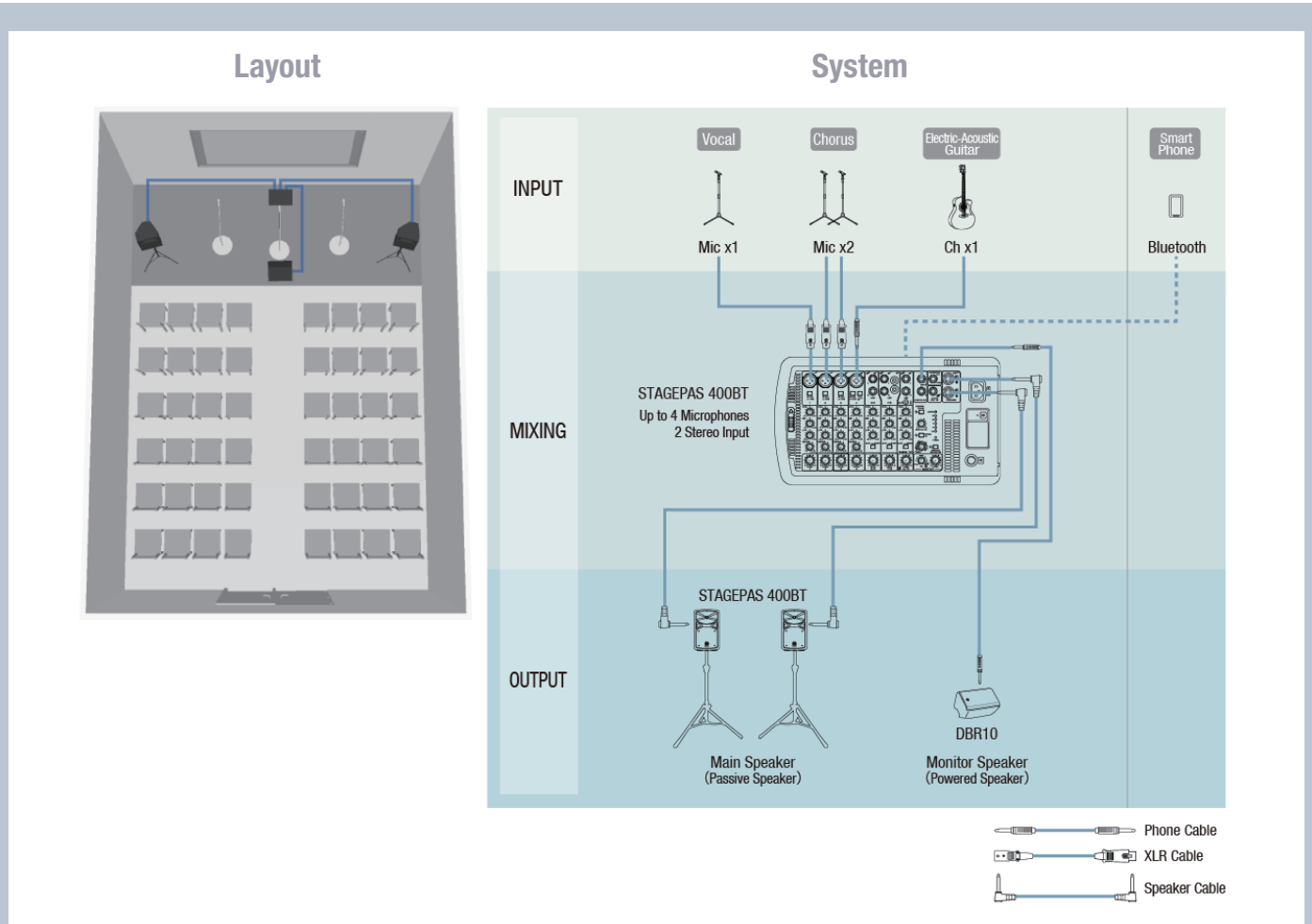


Feedback Suppressor avoids uncomfortable feedback



Easily choose a Reverb or Echo effect to add to your mix

## System Example



### PA Equipment

Category	Product	Qty
Mixer	<a href="#">STAGEPAS 400BT -Portable PA System</a>	1
Main Speakers	<a href="#">(Speaker Cables are included)</a>	
Monitor Speaker	<a href="#">DBR10 -Powered Speaker</a>	1
Microphone	-	3

### Musical Instrument

Category	Product	Qty
Guitar	<a href="#">FGX820C -Acoustic-Electric Guitar</a>	1

### Suggested Accessories

- Microphone Cable
- Microphone Stand
- Instrument Cable
- Power Extension Cable
- Power Multi-Strip
- Adjustable Speaker Stands
- Accessory Case
- Speaker Stand

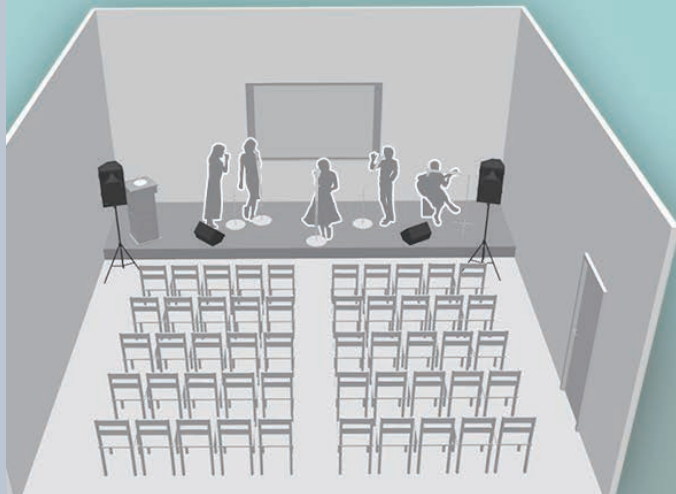
### Option



Add a Subwoofer  
[Go to product page \(DXS Series\)](#)

# Application

## Portable - Guitar Only (2)



### < Assumed Application >

#### Portable - Guitar Only (2)

Room Dimensions (LWH) :

6.7m x 6.7m x 3m (22ft x 22ft x 10ft)

- Small Venue / Youth Space / Coffee House
- Guitar and vocals only
- More mic inputs are required

## POINT OF THIS SOUND SYSTEM

### 12-channel powered mixer that allows you to use your existing speaker system

When you need a system with more than 10 inputs but you still want to use your own speaker system... EMX5 is the answer!

It's just as easy as STAGEPAS to setup and use, but equipped with more inputs and more power.

You can use this self-contained powered mixer with your own speakers, or try Yamaha's CBR series speakers.

[Go to product page \(EMX5\)](#)

[Go to product page \(CBR Series\)](#)



## Useful Solutions



Allows for versatile usages



Easy Setup, Easy Operation



Robust but Extremely Portable, Optimum even for Portable Worship



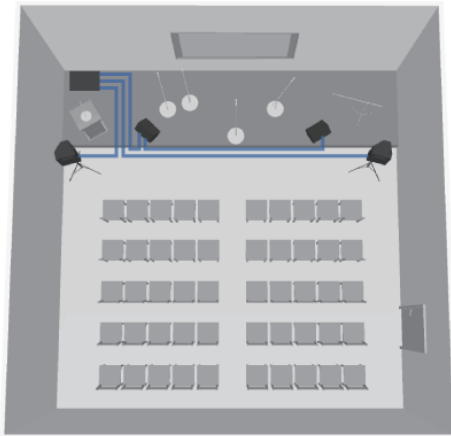
Feedback Suppressor avoids annoying feedback



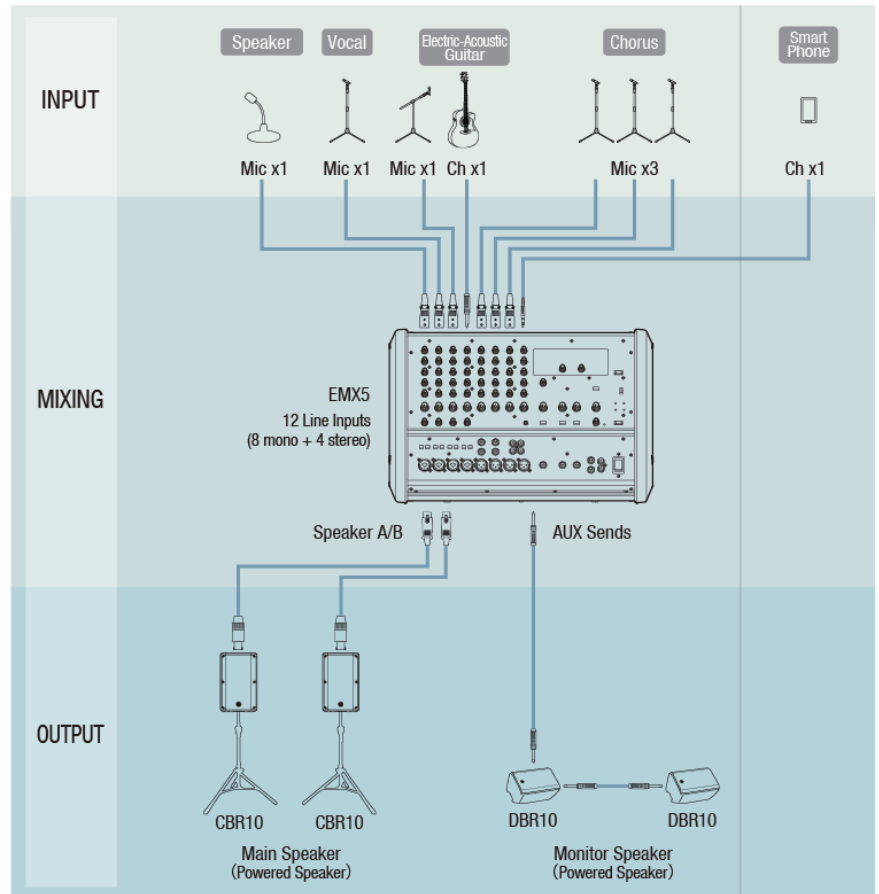
You can quickly set the right EQ for your voice and venue

# System Example

## Layout



## System



- Phone Cable
- XLR Cable
- Speakon Cable
- Stereo Mini Cable

### PA Equipment

Category	Product	Qty
Powered Mixer	<a href="#">EMX5 -12 Channel Mixer W/460W Built-in Amplifier</a>	1
Speakers	<a href="#">CBR10 -Loudspeaker</a>	2
Monitor Speakers	<a href="#">DBR10 -Powered Speaker</a>	2
Microphone	-	6

### Musical Instrument

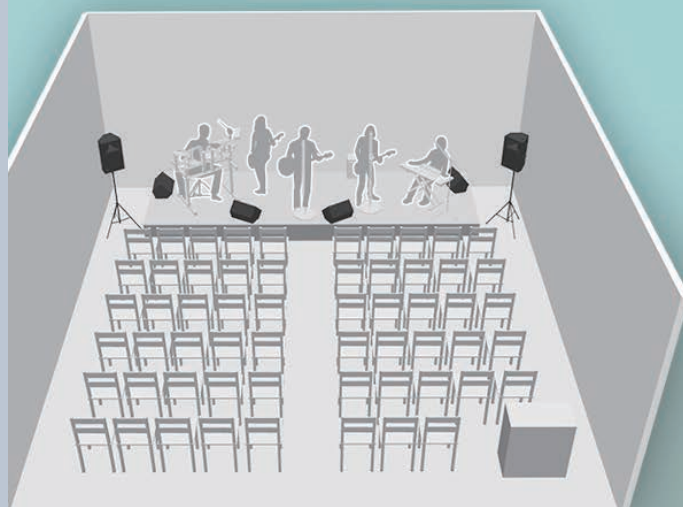
Category	Product	Qty
Guitar	<a href="#">A Series -Acoustic-Electric Guitar</a>	1

### Suggested Accessories

- Microphone Cable
- Microphone Stand
- Direct Box for Guitar
- Power Extension Cable
- Power Multi-Strip
- Adjustable Speaker Stands
- Accessory Case
- Speaker Stand

# Application

## Portable - Full Band



### < Assumed Application >

#### Portable - Full Band

Room Dimensions (LWH) :  
6.7m x 6.7m x 3m (22ft x 22ft x 10ft)

- Small Venue / Youth Space
- Full Band with "Silent Stage" capability

## POINT OF THIS SOUND SYSTEM

### No more worries trying to get balanced drum volume and sound

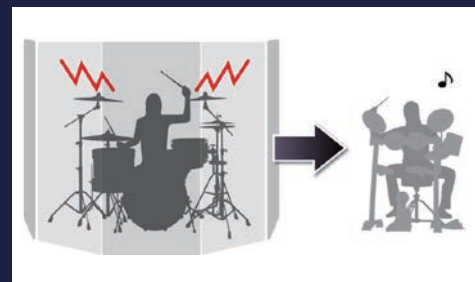
It's always a nightmare for sound engineers to properly mic and mix acoustic drums with the other musical instruments.

By replacing the acoustic drums with an electronic kit like the DTX series, your stress is over.

Because the drum set is now digital, volume control and overall sound quality becomes much easier.

DTX also incorporates a wide variety of sounds, enabling you to use and create custom sounds.

[Go to product page \(DTX452K\)](#)



## Useful Solutions

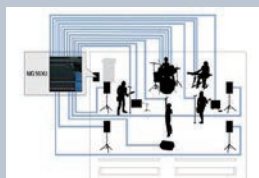


Get the best drum performance, with the least amount of worry



Reduce the time and effort required for setup before a performance

[YouTube](#)  
[Yamaha DTX402 assembly](#)



A compact and portable PA system with enough power for live band performance

[Go to product page \(MG Series\)](#)  
[Go to product page \(DBR Series\)](#)



Built-in SPX digital effects add polish and professionalism

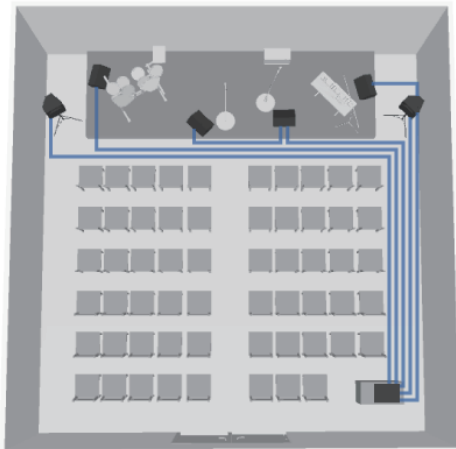


Enables high-quality recording by simply connecting your iPhone/iPad to the mixer

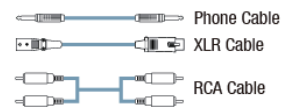
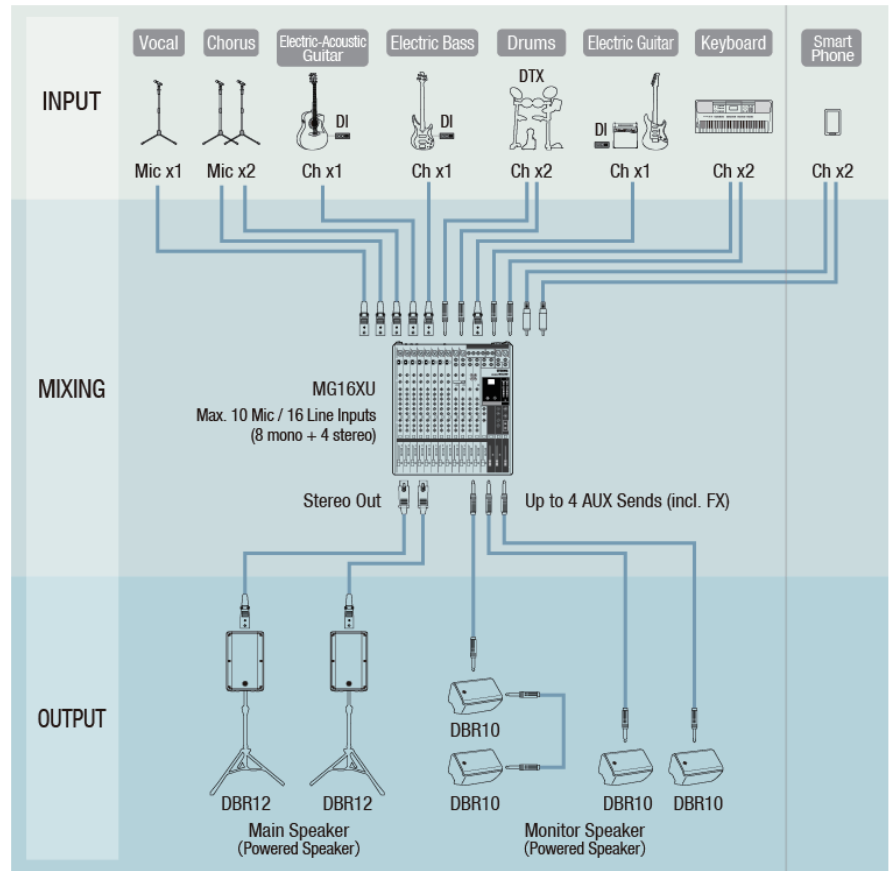
[MG Rec & Play App](#)

# System Example

## Layout



## System



### PA Equipment

Category	Product	Qty
Mixer	<a href="#">MG16XU -16 Channel Analog Mixer</a>	1
Main Speakers	<a href="#">DBR12 -Powered Speaker</a>	2
Floor Monitors	<a href="#">DBR10 -Powered Speaker</a>	4
Microphone	-	3

### Musical Instruments

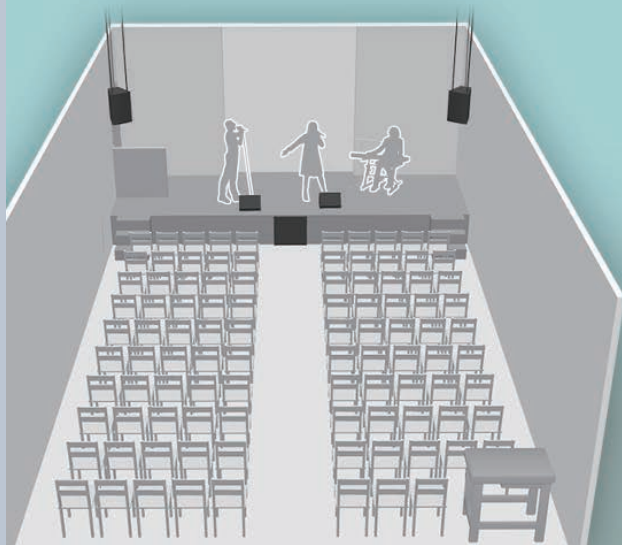
Category	Product	Qty
Keyboard	<a href="#">PSR-EW410 -Portable Keyboard</a>	1
Guitar	<a href="#">A Series -Acoustic-Electric Guitar</a>	1
	<a href="#">Line 6 Variax -Electric Guitar</a>	1
Guitar Accessories	<a href="#">Line 6 FBV3 -Guitar Amp Foot Controller</a>	1
	<a href="#">Line 6 Relay G10 -Guitar Wiress System</a>	1
Bass	<a href="#">BB434 -Electric Bass</a>	1
Drums	<a href="#">DTX452K -Electronic Drum Kit</a>	1

### Suggested Accessories

- Microphone Cables
- Microphone Stands
- Monitor Speaker Cables
- Instrument Cables
- Direct Box for Acoustic Guitar
- Direct Box for Bass
- Power Extension Cable
- Power Multi-Strip
- Adjustable Speaker Stands
- Accessory Case
- Portable Keyboard Stand
- Speaker Stand

# Application

## Small - Keyboard Only



### < Assumed Application >

#### Small - Keyboard Only

Room Dimensions (LWH) :  
10m x 6.7m x 3.6m (33ft x 22ft x 12ft)

- Small Venue / Youth Space
- Standard venue permanent setup

## POINT OF THIS SOUND SYSTEM

**A standard sound system that works great for keyboard playing, and can be used for other situations as well**

If you have a small venue with different types of worship going on, like acoustic worship with piano, youth group worship with a band and maybe some seasonal events.

The PSR-EW410 portable keyboard can cover all those situations with a great piano sound and features usually found in professional keyboards.

For your mixing console, you may need more inputs for microphones and other musical instruments.

The MG16XU is a portable 16 channel analog mixing console that can cover all of those situations.

[Go to product page \(PSR-EW410\)](#)

[Go to product page \(MG16XU\)](#)

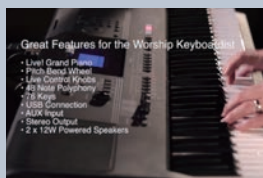


Acoustic Worship  
with Piano

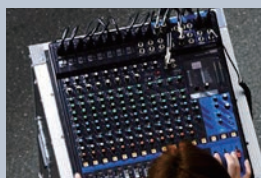
Youth Group  
Worship with Band

Seasonal Events

## Useful Solutions



Portable Keyboard is loaded with features and affordable



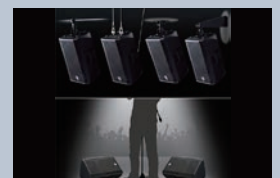
Portable 16 channel analog mixing console that covers various situations



One-knob compressors provide easy-to-use dynamics control

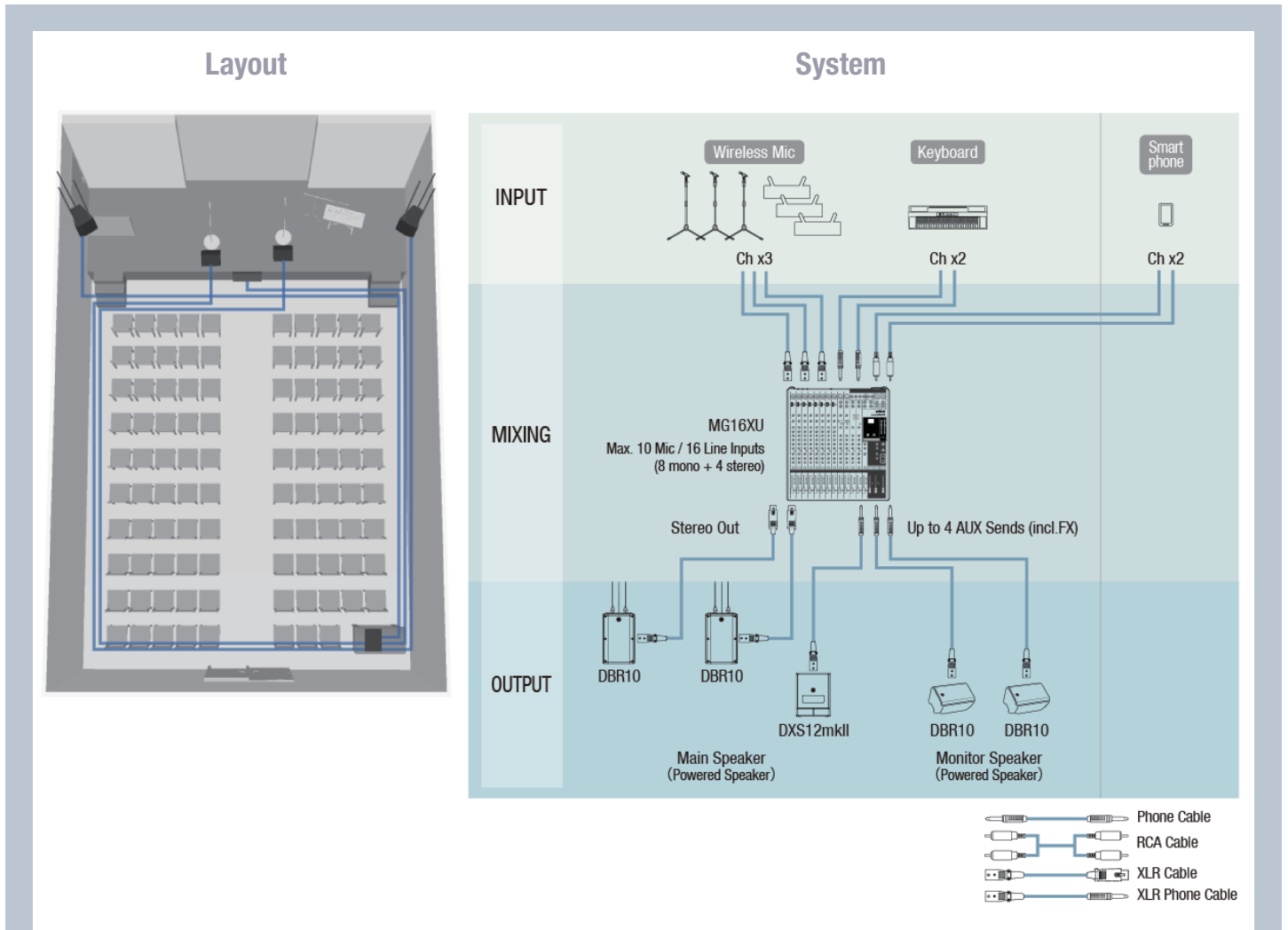


Built-in SPX digital effects add polish and professionalism



Flexible set up  
[Go to product page \(DBR Series\)](#)

## System Example



### PA Equipment

Category	Product	Qty
Mixer	<a href="#">MG16XU -16 Channel Analog Mixer</a>	1
Main Speakers	<a href="#">DBR10 -Powered Speaker</a>	2
Monitor Speakers	<a href="#">DBR10 -Powered Speaker</a>	2
Subwoofer	<a href="#">DXS12mkII -Powered Subwoofer</a>	1
Microphone	<a href="#">Line 6 XD-V55 -Wiress Microphone System</a>	3

### Musical Instrument

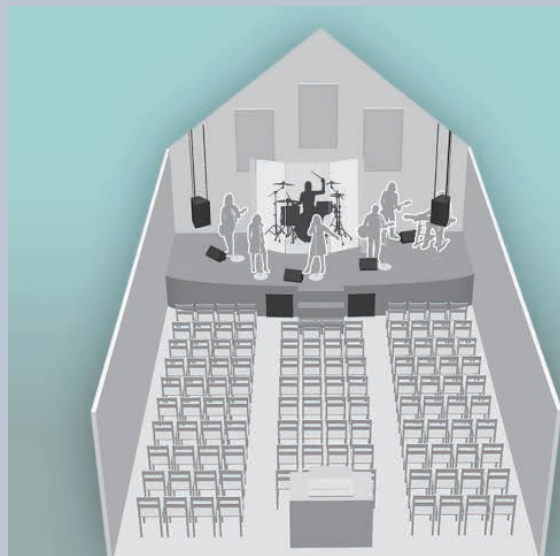
Category	Product	Qty
Keyboard	<a href="#">PSR-EW410 -Portable Keyboard</a>	1

### Suggested Accessories

- Microphone Cables
- Microphone Stands
- Speaker Cables
- Instrument Cables
- Direct Box for Keyboard
- Power Extension Cable
- Power Multi-Strip
- Adjustable Speaker Stands / Ceiling or Wall Mounting Hardware
- Accessory Case
- Portable Keyboard Stand

# Application

## Small - Full Band



### < Assumed Application >

#### Small - Full Band

Room Dimensions (LWH) :  
10m x 7m x 4.8m (33ft x 23ft x 16ft)

- Small Venue / Youth Space
- Wider Floor Plan - standard venue permanent setup

## POINT OF THIS SOUND SYSTEM

### A PA system that instantly stores & recalls various performance scenes

If you set up and tear down your sound system every week, make the work easier and quicker for your volunteers each time.

By using a digital mixer, you can store channel assignments, name performance scenes and instantly recall them, this can save lots of time and frustration for your worship team.

[Go to product page \(TF Series\)](#)

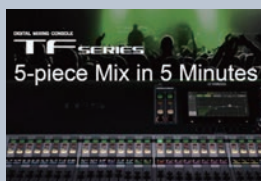
[Go to product page \(MG16XU\)](#)



## Useful Solutions



Don't be afraid of Digital Mixers. Practical presets will make your setting your sound much easier



Easy and quick sound check

YouTube  
Yamaha TF Series :  
5-piece Mix in 5 Minutes



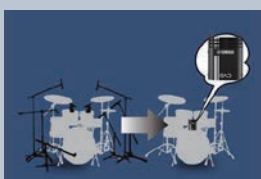
Two Scene Memory Banks



Performers themselves can control sounds on stage

MonitorMix App

## Option

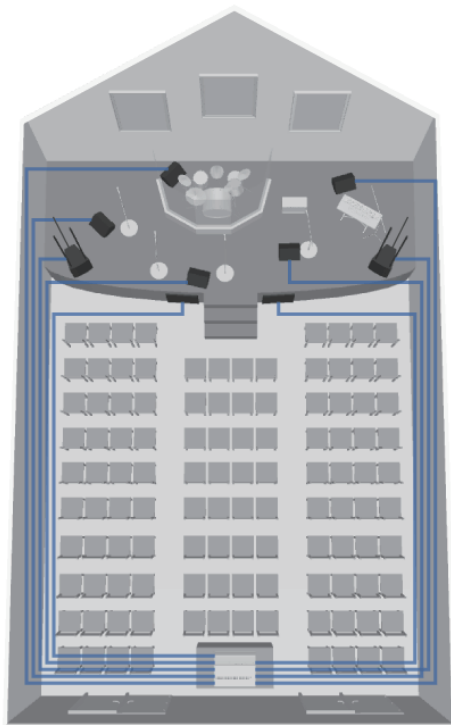


The easiest drum mic you will ever use!

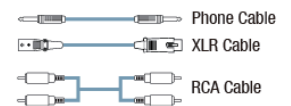
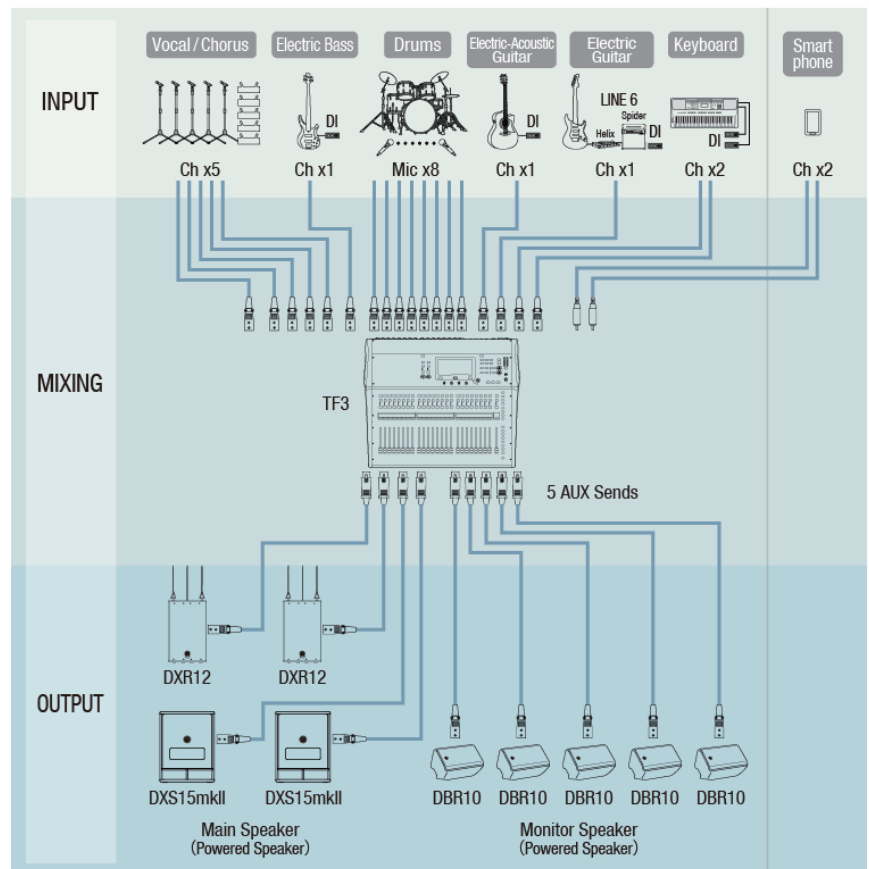
[Go to product page \(EAD10\)](#)

# System Example

## Layout



## System



### PA Equipment

Category	Product	Qty
Mixer	<a href="#">TF3 -Digital Mixer</a>	1
Main Speakers	<a href="#">DXR12 -Powered Speaker</a>	2
Monitor Speakers	<a href="#">DBR10 -Powered Speaker</a>	5
Subwoofer	<a href="#">DXS15mklI -Powered Subwoofer</a>	2
Microphone (Speech/Singing)	<a href="#">Line 6 XD-V75 -Wireless Microphone System</a>	5
Microphone (Instruments)	-	9

### Musical Instruments

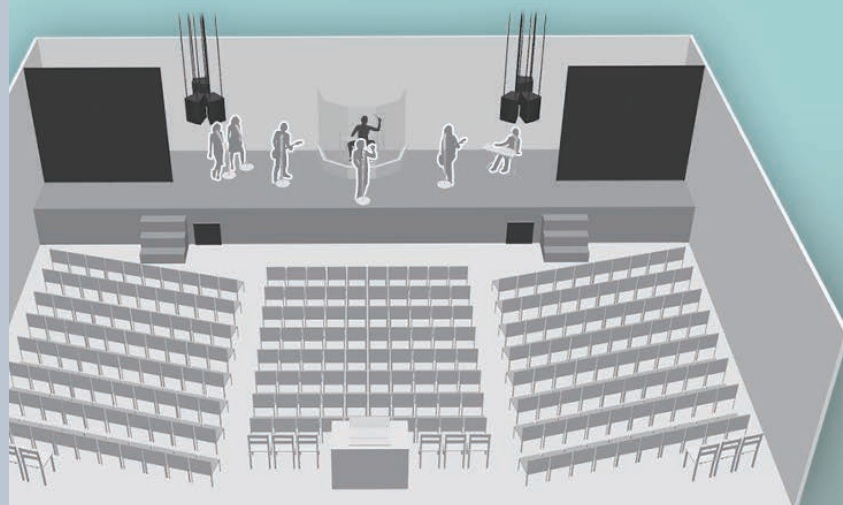
Category	Product	Qty
Keyboard	<a href="#">PSR-S670 -Arranger Workstations</a>	1
Guitar	<a href="#">A Series -Acoustic-Electric Guitar</a>	1
	<a href="#">Line 6 Variax -Electric Guitar</a>	1
Guitar Amplifier	<a href="#">Line 6 Spider V60 -Guitar Amp</a>	1
Guitar Accessories	<a href="#">Line 6 HELIX LT -Guitar Multi-Effects Processor</a>	1
	<a href="#">Line 6 Relay G70 -Guitar Wireless System</a>	1
Bass	<a href="#">BB734A -Electric Bass</a>	1
Drums	<a href="#">Stage Custom Birch -Acoustic Drum Kit</a>	1

### Suggested Accessories

- Microphone Cables
- Microphone Stands
- Line 6 P180 -Active Directional Paddle Antennas
- Line 6 XD-AD8 Antenna Distribution
- 50Ω BNC
- Speaker Cables
- Instrument Cables
- Direct Box for Keyboard
- Direct Box for Bass Guitar
- Power Extension Cables
- Power Multi-Strip
- Accessory Case
- Portable Keyboard Stand

# Application

## Medium - Full Band



### < Assumed Application >

#### Medium - Full Band

Room Dimensions (LWH) :  
10.6m x 15.2m x 6m (35ft x 50ft x 20ft)

- Medium Venue
- Silent stage with permanent setup
- Modern Worship

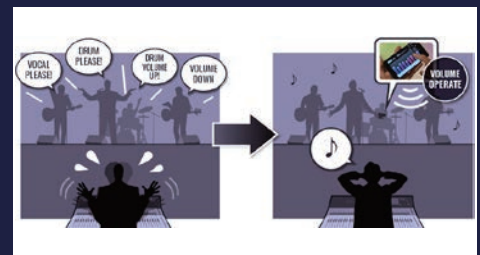
## POINT OF THIS SOUND SYSTEM

### Suitable sound system with in-ear monitors for modern worship

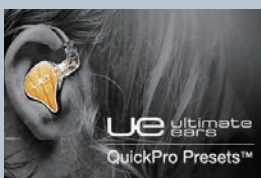
In-ear monitoring is one solution to upgrade a modern worship. It can make performers hear each sound well and play with a click track and backingtracks. It obviously realizes much less stage noise. Accordingly, performers are demanding more from sound engineers and PA systems. Yamaha TF console is equipped with enough outputs. The Stereo AUXs have Insert FXs that allow you create professional IEM mixes. Also available is the MonitorMix App for iOS or Android devices. Up to ten MonitorMix Apps can be connected per console and these allow players on stage to independently control their own monitor level.

[Go to product page \(TF Series\)](#)

[Go to product page \(Yamaha Monitor Mix App\)](#)



## Useful Solutions



QuickPro Presets™ Provide Instant Access to Pro Sound Setups



Stage box solution reduces the chance of hum and noise  
[Go to product page \(Tio1608-D\)](#)

YouTube  
How to use Tio1608-D I/O Racks with Yamaha TF consoles



A versatile live recording and playback solution

YouTube  
Yamaha TF Series: Recording an Playback



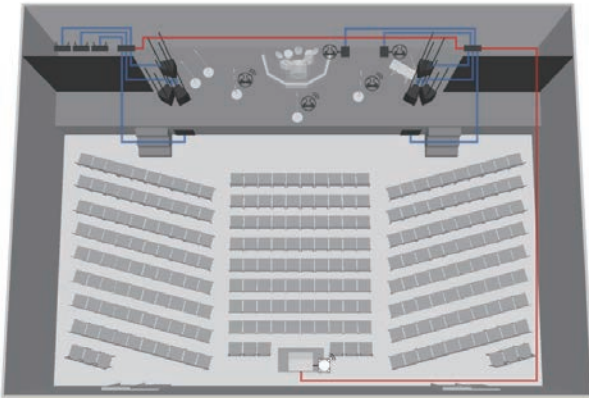
The right sound for your voice



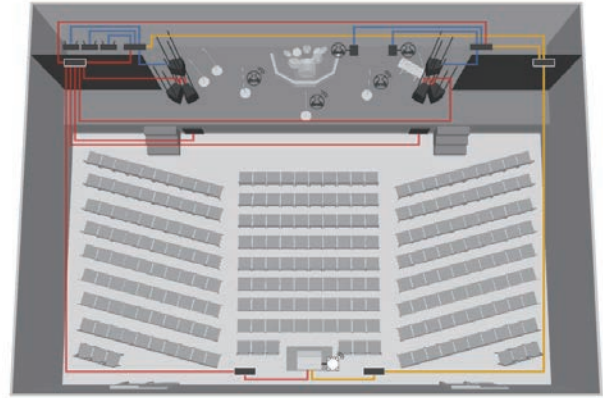
MX88 -Its range of sounds, performance/editing capabilities, and weighted action make it a very attractive option for your worship  
[Go to product page \(MX88\)](#)

# System Example

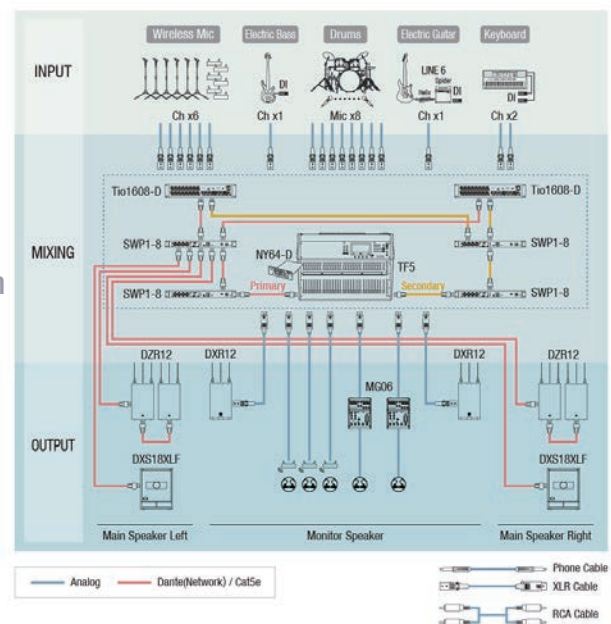
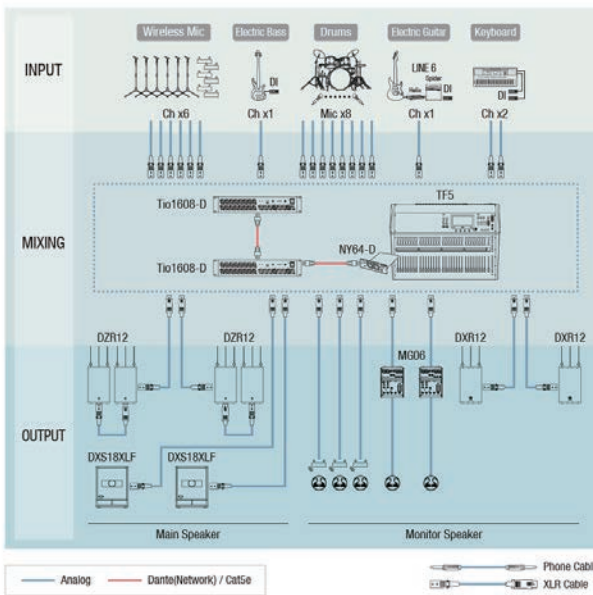
## Digital Stagebox System



## Full Digital System



Layout



System

### PA Equipment

Category	Product	Qty
Mixer	TF5 -Digital Mixer	1
Stagebox	Tio1608-D -I/O Rack	2
Dante Expansion	NY64-D -Dante Expansion Card	2
IEM (Wireless)	(Recommended) Shure PSM300 -PersonalMonitor System	3
IEM (Wired)	MG06 -Analog Mixer for Wired IEM	2
Software	MonitorMix -Personal Monitoring Application	-
Main Speaker	DZR12 -Powered Loudspeaker	4
Monitor Speaker	DXR12 -Powered Loudspeaker	2
Subwoofer	DXS18XLF -Powered Subwoofer	2
Microphone (Speech/Singing)	Line 6 XD-V75 -Wireless Microphone System	6
Microphone (Instruments)	-	9
- For Full Digital System -		
Network Switch	SWP1-8 -L2 Switch	4
Main Speaker	DZR12-D -Dante-equipped Powered Loudspeaker	4
Subwoofer	DXS18XLF-D -Dante-equipped Powered Subwoofer	2

### Musical Instruments

Category	Product	Qty
Keyboard	MX88 -Synthesizer	1
Guitar	A Series -Acoustic-Electric Guitar	1
	Line 6 Variax -Electric Guitar	1
Guitar Amplifier	Line 6 Spider V60 -Guitar Amp	1
Guitar Accessories	Line 6 HELIX LT -Guitar Multi-Effects Processor	1
	Line 6 Relay G70 -Guitar Wireless System	1
Bass	BB734A -Electric Bass	1
Drums	Stage Custom Birch -Acoustic Drum Kit	1

# Products Information

## Wireless Microphone System XD-V Series

### Recommended Application

[XD-V55] Small	:	Keyboard Only
[XD-V75] Small	:	Full Band
Medium	:	Full Band



Microphone

### Key Features

- No compression. Ever
- Crystal-clear, Transparent audio
- Consistent signal integrity -Up to 100m (300 ft.)
- Up to 10 premium microphone models for hand-held systems
- Onboard EQ filter technology for body-pack systems
- Patented LINE 6 digital wireless technology
- 2.4GHz broadcast -license free, worldwide
- Simple setup
- Clear visual status
- Mix and match (Combine different components -seamlessly)
- Pro construction (Engineered to go the distance)
- XD-V75 -Professional scalability

Model	XD-V75/V75SC	XD-V55	XD-V35
Frequency Band	2.4GHz		
Simultaneous Channels	14	12	6
Advanced DSP Processing	10 microphone models for handheld systems + 4 super cardioid Mic Models for V75-SC capsule*	4 microphone models for handheld systems	N/A
	9 EQ filter models for bodypack-based systems	3 EQ filter models for bodypack-based systems	
Range	100m (300ft.)		83m (275ft.)
Frequency Response	10Hz - 20kHz		
Dynamic Range	up to >120dB	up to >117dB	up to >118dB
Compander-Free Design	Yes		
Frequency Diversity	Yes		
Signal Diversity	Yes		
Dynamic Environment Filter	Yes		N/A
Encryption	Yes	N/A	
Battery / Hours	2 x AA / 8 hours		
System Types	Handheld system		Handheld system
	Headset system		
	Lavalier system		Lavalier system
	Bodypack system		

\* requires firmware V2.1 or greater on HandHeld V75 Transmitter.

# Products Information

## Portable PA System STAGEPAS

### Recommended Application

[STAGEPAS 400BT] Portable : **Speech Only**  
**Guitar Only (1)**





Mixer

Main Speaker

### Key Features

- The Ultimate All-in-One Portable PA System
- Fast and easy set-up
- A PA for any occasion
- Bluetooth® Wireless Audio Streaming
- SPX digital reverb
- 1-Knob Master EQ™
- Feedback suppressor
- More power. More possibilities
- Same sonic experience throughout a wider coverage area
- Intelligent DSP for peak performance that lasts

Model	STAGEPAS 600BT	STAGEPAS 400BT
	 <ul style="list-style-type: none"> <li>680W Class D Amplifier</li> <li>129dB Maximum SPL per speaker</li> <li>10-channel Powered Mixer</li> <li>10-inch Loudspeakers</li> <li>3-band Channel EQ</li> </ul>	 <ul style="list-style-type: none"> <li>400W Class D Amplifier</li> <li>125dB Maximum SPL per speaker</li> <li>8-channel Powered Mixer</li> <li>8-inch Loudspeakers</li> <li>2-band Channel EQ</li> </ul>
System Type	Powered mixer with 2 passive speakers	
Mixing channels	10	8
Analog inputs	4 mono mic / line + 6 mono / 3 stereo line	4 mono mic / line + 4 mono / 2 stereo line
Bluetooth Connection	Bluetooth Ver.4.1, A2DP v1.2, Maximum Range: Approx. 10m	
Channel EQ	3-band (HIGH Shelving: 8kHz, MID peaking: 2.5kHz, LOW Shelving: 100Hz)	2-band (HIGH Shelving: 8kHz, LOW Shelving: 100Hz)
Power Rating	680W (340 W + 340 W)	400W (200 W + 200 W)
Speaker Transducers	LF: 10" (25cm) cone, HF: 1.4" (3.56cm) voice coil compression driver	LF: 8" (20cm) cone, HF: 1" (2.54cm) voice coil compression driver
Dimensions (W x H x D)	Speaker: 335 x 545 x 319mm, Mixer: 348 x 197 x 135mm	Speaker: 289 x 472 x 275mm, Mixer: 308 x 180 x 116mm
Net Weight	25.6kg (56.4lbs) (2 x Speaker 10.9kg + Mixer 3.8kg)	18.3kg (40.3lbs) (2 x Speaker 7.7kg + Mixer 2.9kg)
Pole socket	34.8-35.2mm pole socket with StageLok™	

# Products Information

## Powered Mixer EMX Series (Box Type)

### Recommended Application

[EMX5] Portable: **Guitar Only (2)**



Mixer

### Key Features

#### EMX7/5

- Powerful & High Efficiency Class-D Amplifier
- Robust But Extremely Portable Design
- Easy Setup, Easy Operation
- Complete Range of Input & Output Channels
- Speaker Processor and Preset (EMX7 only)
- Onboard Feedback Suppressor
- 3-band Equalizer Control
- Flex 9 Graphic Equalizer (EMX7 only)
- 1-Knob Master EQ™ (EMX5 only)
- 1-knob COMP
- Rack-Mounting
- Comprehensive, Professional Effects and Signal Processing
- Flexible Speaker Connectivity
- Internal Universal Power Supply

#### EMX2

- Premium Portability
- From Speaking Engagements to Live Bands and DJ Events
- 4 Yamaha Reverbs for Additional Atmosphere
- A Positive Feedback Feature
- Shape Your Sound
- Flexible Setup for a Diverse Range of Applications

Model	EMX7	EMX5	EMX2
Output Power*			
4Ω	710 W + 710 W	630 W + 630 W	250 W + 250 W
8Ω	500 W + 500 W	460 W + 460 W	170 W + 170 W
Line Input	12 (4 mono + 4 stereo)		10 (4 mono + 3 stereo)
Mic Input	8		4
Aux Send	2		0
Feedback Suppressor	Yes		
1-knob COMP	Yes		
Digital Effects	SPX 24 programs		Reverb 4 programs
Flex 9 Graphic Equalizer	Yes		No
1-Knob Master EQ™	No		Yes
Speaker Processor and Preset	Yes		No
Dimensions (W x H x D)	465 x 308 x 325mm (18.3" x 12.1" x 12.8")		375 x 147 x 220mm (14.8" x 5.8" x 8.7")
Net Weight	9.5kg (20.9lb)		4.2kg (9.3lb)

\*1 kHz THD+N < 10% (CEA2006)

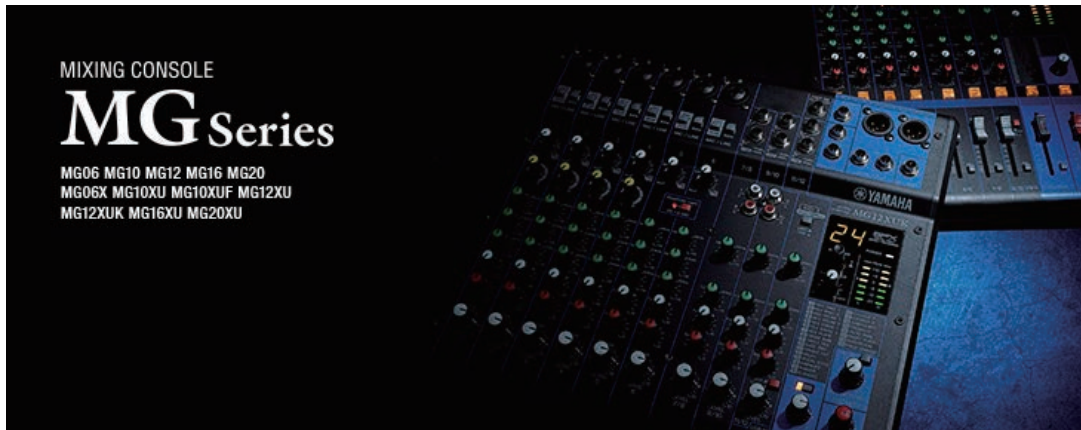
# Products Information

## Analog Mixing Console MG Series (XU Model)

### Recommended Application

[MG16XU] **Portable** : **Full Band**  
**Small** : **Keyboard Only**

[MG06X] **Medium** : **Full Band**



### Key Features

- Head of the class
- D-PRE (Discrete Class-A Mic Preamps)
- High Quality Sound Op-Amp
- Switchable Phantom Power & PAD Switch
- 1-Knob Compressors
- EQ and High-pass Filters
- AUX / Effect Sends /Group
- A variety of input / output connectors
- LED level metering
- Built-in SPX Digital Effects
- Metal Chassis
- Internal Universal Power Supply
- Rack Mount Kit Included
- XLR connector
- 24-bit / 192kHz 2-in/2-out USB Audio Interface Function
- MG Rec & Play software application enables high-quality recording
- CUBASE AI Bundled

Model	MG20XU	MG16XU	MG12XU	MG10XU	MG06X
Line Input	20 (12 mono + 4 stereo)	16 (8 mono + 4 stereo)	12 (4 mono + 4 stereo)	10 (4 mono + 3 stereo)	6 (2 mono + 2 stereo)
Mic Input	16	10	6	4	2
Aux Send	4 (incl.FX)		2 (incl.FX)	1 (incl.FX)	0
Group Out	4		2	0	0
USB IN/OUT	Yes (2 In / 2 Out)				No
1-Knob Comp	Yes				No
SPX Digital Effects	24				6
Cubase AI & Cubasis LE	Yes				No
MG Rec/Play	Yes				No
Dimensions (W x H x D)	444 x 130 x 500mm (17.5" x 5.1" x 19.7")		308 x 118 x 442mm (12.1" x 4.6" x 16.6")	244 x 71 x 294mm (9.6" x 2.8" x 11.6")	149 x 62 x 202mm (5.9" x 2.4" x 7.9")
Net Weight	7.1kg (15.7lb)	10.5kg (23.2lb)	4.2kg (9.3lb)	2.1kg (4.63lb)	0.9kg (1.98lb)

# Products Information

## Digital Mixing Console TF Series

### Recommended Application

[TF5] Medium : **Full Band**

[TF3] Small : **Full Band**



Mixer

### Key Features

- Intuitive User Interface Optimized for Touch Panel Operation
- 1-knob COMP™ & 1-knob EQ™: One Knob to Dial In the Ideal Sound
- GainFinder™ Supports Precision Gain Setup
- QuickPro Presets™ Provide Instant Access to Pro Sound Setups
- Two Scene Memory Banks
- Design for Superior Visibility and Quick Operation
- Applications that Work Seamlessly with the Console (TF Editor, TF StageMix™, MonitorMix, ProVisionaire)
- Recallable D-PRE™ Microphone Preamplifiers
- 8 Powerful Processing/Effect Units and More...
- Revolutionary Dan Dugan Automatic Mixer Built In
- Various mix to multiple speaker systems -Matrix Out Channels with Delay-
- Additional Output Delay for Ins FX
- Nuendo Live multi-track live recording software is bundled
- High-performance Stagebox Solution that's Simple to Set Up

Model	TF5	TF3	TF1
Line Input	48 (40 mono + 2 stereo + 2 return)		40 (32 mono + 2 stereo + 2 return)
Mic Input	32	24	16
Aux	20 (8 mono + 6 stereo)		
Group	8		
Fader Configuration	32 + 1 (Master)	24 + 1 (Master)	16 + 1 (Master)
TouchFlow Operation™	Yes		
Gain Finder™	Yes		
On-board processors	8 Effects + 10 GEQ		
APP	TF Editor, TF StageMix, Monitor Mix		
Included Software	Nuendo Live		
Dimensions (W x H x D)	866 x 225 x 599mm (34.1" x 8.9" x 23.6")	716 x 225 x 599mm (28.2" x 8.9" x 23.6")	510 x 225 x 599mm (20.1" x 8.9" x 23.6")
Net Weight	20.0kg (44.1lb)	17.0kg (37.5lb)	13.5kg (29.8lb)

# Products Information

## I/O Rack Tio1608-D

### Recommended Application

[Tio1608-D] Medium : Full Band



I/O Rack

### Key Features

- Digital Stagebox System with a Maximum of 3 units
- Dante High Reliability Network Audio Protocol
- Fast and Easy QUICK CONFIG Mode
- Simple and Flexible Input Selection
- Recallable D-PRE preamplifiers
- System expansion with Tio1608-D

Model		Tio1608-D
Sampling frequency rate	External	44.1kHz or 48kHz
Total harmonic distortion		Less than 0.1% +4dBu@20Hz-20kHz into 600Ω, Gain=+66dB / Less than 0.05% +4dBu@20Hz-20kHz into 600Ω, Gain=-6dB, INPUT to OUTPUT, Fs=44.1kHz, 48kHz *Measured with a -18dB/octave filter @80kHz
Frequency response		+0.5, -1.5dB 20Hz-20kHz, refer to the nominal output level @1kHz, INPUT to OUTPUT, Fs=44.1kHz or 48kHz
Dynamic range		108 dB, INPUT to OUTPUT, Gain=-6dB / 112 dB, DA Converter
Hum & noise level	Equivalent input noise	-128dBu, Gain=+66dB *Measured with A-weighting filter
	Residual output noise	-88dBu, ST master off *Measured with A-weighting filter
Crosstalk		-100dB, adjacent INPUT/OUTPUT channels, Input Gain = -6dB *Measured with a -30dB/octave filter @22kHz
Heat dissipation		100-240V, 50/60Hz, 43.5kcal/h
Power requirements		100-240V, 50/60Hz
Power consumption		50W
Dimensions (W x H x D)		480 x 88 x 364mm (18-7/8" x 3-4/8" x 14-3/8")
Net weight		5.7kg (12.6lbs)
Accessories		Owner's Manual, Power Cord(2.5m), Rubber stoppers(4)
Others		Temperature Range: Operating temperature range: 0 - 40°C, Storage temperature range: -20 - 60°C

# Products Information

## Loudspeakers CBR Series

### Recommended Application

[CBR10] Portable : **Guitar Only (2)**



Main Speaker

### Key Features

- Custom Designed Transducers and Wide-Dispersion Constant Directivity Horn for Powerful High-Definition Sound
- HF Protection and Highly Responsive LF Unit for Reliable Performance at Any Output Level
- Rugged, Highly Portable Enclosure Design
- Simple Connectivity
- Smart Enclosure Design for Floor Monitoring
- Rigging Points for Installation Applications
- Functional Speaker Cover (Option)

Model	CBR15	CBR12	CBR10	
System Type	2-way Speaker, Bass-reflex Type			
Components	LF	15" cone, 2.5" voice coil, Ferrite Magnet	12" cone, 2" voice coil, Ferrite Magnet	10" cone, 2" voice coil, Ferrite Magnet
	HF	1.4" Voice Coil, Compression Driver (Ferrite Magnet)		1.0" Voice Coil, Compression Driver (Ferrite Magnet)
Frequency range (-10dB)	46Hz - 20kHz	48Hz - 20kHz	50Hz - 20kHz	
Nominal Impedance	8Ω			
Nominal coverage	HxV 90°x60°			
Power rating	PGM 500W	350W		
Sensitivity (1W, 1m)	96dB SPL		94dB SPL	
Maximum SPL (calculated, 1m)	126dB SPL	125dB SPL	123dB SPL	
Floor Monitor Angle	50° Symmetrical		50°	
Connectors	1/4" Phone x 1, speakON NL4MP x 1			
Material, Color	Plastic, Black			
Dimensions (W x H x D)	455 x 700 x 378mm (17.9" x 27.6" x 14.9")	376 x 601 x 348mm (14.8" x 23.7" x 13.7")	308 x 493 x 289mm (12.1" x 19.4" x 11.4")	
Net Weight	17.7kg (39.0lb)	13.9kg (30.6lb)	9.4kg (20.7lb)	
Rigging Points	Bottom x 2, Rear x 1 (Fit for M8 x 15mm Eyebolts)			
Pole socket	Φ35 mm Bottom x 1			

# Products Information

## Powered Loudspeakers DBR Series

### Recommended Application

#### Main Speaker

[DBR12] Portable :	Full Band
[DBR10] Small :	Keyboard Only

#### Monitor Speaker

[DBR10] Portable :	Guitar Only (1)	Guitar Only (2)
	Full Band	
Small :	Keyboard Only	Full Band



### Key Features

- High-Efficiency 1000W Class-D Amplifiers (DBR10 700W)
- Custom Designed Transducer
- A Rugged, Highly Portable Cabinet
- Easy-to-use Onboard 2-Channel Mixer
- Smart Enclosure Design for Floor Monitoring
- Rigging Points for Installation Applications

Model	DBR15	DBR12	DBR10	
System Type	2-way, Bi-amp Powered Speaker, Bass-reflex Type			
Components	LF	15" cone, 2.5" voice coil, Ferrite Magnet	12" cone, 2" voice coil, Ferrite Magnet	10" cone, 2" voice coil, Ferrite Magnet
	HF	1.4" Voice Coil, Compression Driver (Ferrite Magnet)		1" Voice Coil, Compression Driver (Ferrite Magnet)
Frequency range (-10dB)	50Hz - 20kHz	52Hz - 20kHz	55Hz - 20kHz	
Nominal coverage	HxV 90°x60°			
Output Power*1 (Dynamic)	1000W		700W	
Maximum SPL (1m, on axis)	132dB SPL	131dB SPL	129dB SPL	
Floor Monitor Angle	50° Symmetrical		50°	
Material, Finish	Plastic			
Dimensions (W x H x D)	455 x 700 x 378mm (17.9" x 27.6" x 14.9")	376 x 601 x 348mm (14.8" x 23.7" x 13.7")	308 x 493 x 289mm (12.1" x 19.4" x 11.4")	
Net Weight	19.3kg (42.6lb)	15.8kg (34.8lb)	10.5kg (23.2lb)	
Rigging Points	Bottom x 2, Rear x 1 (Fit for M8 x 15 mm eyebolts)		Bottom x 2 (Fit for M8 x 15 mm eyebolts)	
Pole socket	Φ35 mm Bottom x 1			

\*1 Power rating (120V, 25°C). This is total value of individual output power.

# Products Information

## Active Loudspeakers DXR Series

### Recommended Application

#### Main Speaker

[DXR12] Small : **Full Band**

#### Monitor Speaker

[DXR12] Medium : **Full Band**



Main Speaker

Monitor Speaker

### Key Features

- Ultra-Precise 48Bit DSP Processing for High-Definition Sound
- Intelligent Dynamic Control for Consistent Clarity at Any Output Level
- Extensive DSP Protection Functions for Maximum Output
- High-Efficiency 1100W Class-D Amplifiers
- Intelligent Onboard 3-Channel Mixer
- Superior Components. Unequaled Performance.
- Durable, Compact ABS Enclosures
- Symmetrical Enclosure Design for Mirror-Mode Floor Monitoring (DXR12 and DXR15)
- Dual-Angle Pole Mount Socket
- Rigging Points for Standard Eye-Bolts and Optional U-Brackets

Model		DXR15	DXR12	DXR10	DXR8
System Type		2-way, Bi-amp Powered Speaker, Bass-reflex Type			
Components	LF	15" cone, 2.5" voice coil, Ferrite Magnet	12" cone, 2.5" voice coil, Ferrite Magnet	10" cone, 2" voice coil, Ferrite Magnet	8" cone, 2" voice coil, Ferrite Magnet
	HF	Diaphragm:1.4", Type: 1" throat compression driver (Ferrite Magnet)			
Frequency range (-10dB)		49Hz - 20kHz	52Hz - 20kHz	56Hz - 20kHz	57Hz - 20kHz
Nominal coverage HxV		90°x60°			
Output Power*1 (Dynamic)		1100W			
Maximum SPL (1m, on axis)		133dB SPL	132dB SPL	131dB SPL	129dB SPL
Floor Monitor Angle		50° Symmetrical		50°	-
Material, Finish		ABS, Matte Finish			
Dimensions (W x H x D)		445 x 700 x 380mm (17.5" x 27.5" x 15.0")	362 x 601 x 350mm (14.2" x 23.6" x 13.7")	305 x 502 x 310mm (12.0" x 19.7" x 12.2")	280 x 458 x 280mm (11.0" x 18.0" x 11.0")
Net Weight		22.5kg (49.6lb)	19.3kg (42.5lb)	14.6kg (32.2lb)	13.5kg (29.8lb)
Rigging points		Top x2, Rear x1 (Fits for M10 x 18mm eyebolts)		Top x2, Rear x1 (Fits for M8 x 15mm eyebolts)	
Pole socket		35mm with 2-way features (0 or 7 degrees)			

\*1 Power rating (120V, 25°C). This is total value of individual output power.

# Products Information

## Powered Loudspeakers DZR Series

### Recommended Application

- [DZR12] Medium : **Full Band**  
 [DZR12-D] Medium : **Full Band (Full Digital System)**

POWERED LOUDSPEAKERS  
**DZR SERIES**



Main Speaker

### Key Features

- Advanced FIR-X Tuning
- D-CONTOUR
- DSP protection functions for maximum output and component longevity
- The first Dante-equipped professional SR loudspeakers ("D" models)
- High power 2000W Class-D amplification
- HF transducer
- MF transducer for the 3-way
- LF transducer
- Smart design for professional functionality
- U Brackets for vertical or horizontal mounting
- Utilities for Safe and Secure Operation

Model		DZR315 (DZR315-D)	DZR15 (DZR15-D)	DZR12 (DZR12-D)	DZR10 (DZR10-D)
Speaker Type		3-way, Bi-ampled Powered Speaker, Bass-reflex		2-way, Bi-ampled Powered Speaker, Bass-reflex	
Components	LF	15" Cone, 3" Voice Coil, Neodymium magnet		12" Cone, 3" Voice Coil, Neodymium magnet	10" Cone, 3" Voice Coil, Neodymium magnet
	MF	8" Cone, 1.5" Voice Coil, Ferrite magnet	–	–	–
	HF	2" Voice Coil, 1" Throat Compression Driver, Titanium diaphragm, Neodymium magnet			
Coverage area		H75° x V50°	H90° x V50° (Rotatable)	H90° x V60° (Rotatable)	
Frequency range (-10dB)		31Hz - 20kHz	34Hz - 20kHz	39Hz - 20kHz	44Hz - 20kHz
Power rating*1 (Dynamic)		2000W (LF:1000W, MF/HF: 1000W)			
Maximum output level (1m; on axis) *2		143dB SPL	139dB SPL		137dB SPL
SRC*3		Yes			
Floor Monitor Angle		–	50° Symmetrical		50°
I/O Connectors	Analog I/O	Analog IN: Combo x2, Line level (Maximum +24dBu), Input impedance 20kΩ, Analog OUT: XLR3-32 x2, CH1: THRU (fix), CH2: THRU or DSP OUT			
	(Digital I/O)*3	Dante: etherCON CAT5e x2 (Daisy Chain), 2 IN / 2 OUT (Fs: 44.1k, 48k, 88.2k, 96k) and Remote Control, 1000BASE-T			
	Others	USB2.0 Host 5V 500mA for USB memory DATA storage/load			
Material, Finish, Color		Plywood, Durable Polyurea Painting, Black			
Dimensions (W x H x D)		550 x 897 x 520mm (21.6" x 35.3" with rubber feet x 20.5")	450 x 761 x 460mm (17.7" x 30.0" with rubber feet x 18.1")	410 x 646 x 394mm (16.1" x 25.4" with rubber feet x 15.5")	315 x 537 x 345mm (12.4" x 21.1" with rubber feet x 13.6")
Net Weight		41.6kg (91.7lbs)	25.2kg (55.6lbs)	21.4kg (47.2lbs)	17.9kg (39.5lbs)
Rigging Points		M10 x16	M10 x12		M10 x8, M8 x2
Pole socket		–	Φ35 mm x2 (0° or -7°)		

\*1: Total peak power of individual outputs (AC 120V, 25°C). This value was measured at minimum load impedance, with protection released.

\*2: Measured peak SPL with pink noise @1m.

\*3: Dante model only

# Products Information

## Powered Subwoofers DXSXL Series

### Recommended Application

[DXS18XLF] Medium: **Full Band**

[DXS18XLF-D] Medium: **Full Band (Full Digital System)**

POWERED SUBWOOFERS  
**DXSXL SERIES**



### Key Features

- Powerful DSP for flexible control
- Acoustics and utility
- Dante-equipped for sophisticated capability with simple connectivity
- Durable, portable, and road-ready
- ("D" models)

Model	DXS18XLF (DXS18XLF-D)	DXS15XLF (DXS15XLF-D)
Speaker Type	Powered Subwoofer, bass-reflex	
Components	18" Cone, 4" Voice Coil, Ferrite magnet	15" Cone, 4" Voice Coil, Ferrite magnet
Frequency range (-10dB)	30Hz - 150Hz	33Hz - 150Hz
Power rating*1 (Dynamic)	1600W	
Maximum output level (1m; on axis) *2	136dB SPL	
SRC*3	Yes	
I/O Connectors	Analog IN: Combo x2, Line level (Maximum +24dBu), Input impedance 20kΩ, Analog OUT: XLR3-32 x2, CH1/2: THRU or DSP OUT	
	Dante: etherCON CAT5e x2 (Daisy Chain), 2 IN / 2 OUT (Fs: 44.1k, 48k, 88.2k, 96k) and Remote Control, 1000BASE-T	
	USB2.0 Host 5V 500mA for USB memory DATA storage/load	
Material, Finish, Color	Plywood, Durable Polyurea Painting, Black	
Dimensions (W x H x D)	550 x 657 x 720mm (21.6" x 25.9"with rubber feet x 28.3")	450 x 587 x 600mm (17.7" x 23.1"with rubber feet x 23.6")
Net Weight	48.9kg (107.8lbs)	40.0kg (88.2lbs)
Rigging Points	-	
Pole socket	φ35 mm (depth 80mm), M20 Threaded (depth 25mm)	

\*1: Measured peak SPL with pink noise @1m.

\*2: Total peak power of individual outputs (AC 120V, 25 ). This value was measured at minimum load impedance, with protection released.

\*3: Dante model only

# Products Information

## Powered Subwoofers DXS Series

### Recommended Application

[DXS15] Small : **Full Band**

[DXS12mkII] Small : **Keyboard Only**

Sub Speaker



### Key Features

- High-Efficiency 1020W Class-D Amplifiers
- Custom Designed Transducer
- Band-Pass Type Enclosure
- Rugged coating for superior protection
- Compact and portable design enclosure
- Optional Wheel Kit
- Optional Speaker Cover
- Dual pole socket
- Cardioid Mode
- D-XSUB Bass Processing
- Selectable X-OVER(80/100/120Hz)

Model	DXS18	DXS15mkII	DXS12mkII
System Type	Powered subwoofer, Band-pass type		
Components	LF	LF	LF
Frequency range (-10dB)	18" cone, 4" voice coil 32Hz - 120Hz	15" cone, 2.5" voice coil 40 Hz - 150 Hz	12" cone, 2.5" voice coil 42 Hz - 150 Hz
Output Power*1 (Dynamic)	1020W		
Maximum SPL (1m, on axis)	136dB SPL	135 dB SPL	134 dB SPL
Material, Finish	Meranti Plywood, Durable Polyurea Coating, Black		
Dimensions (W x H x D)	563 x 683 x 721mm (22.2" x 26.8" x 28.4")	480 x 611 x 614mm (18.90" x 24.06" x 24.17")	400 x 567 x 570mm (15.75" x 22.32" x 22.44")
Net Weight	49.7kg (110lb)	36.0 kg (79.4lbs)	30.0 kg (66.1lbs)
Rigging Points	-		
Pole socket	Φ35 mm (depth 80mm), M20 Threaded (depth 25mm)		

\*1 Power rating (120V, 25°C). This is total value of individual output power.

# Products Information

## Arranger Workstation PSR-S Series

### Recommended Application

[PSR-S975] **Portable** : **Keyboard Only**  
 [PSR-S670] **Small** : **Full Band**



Keyboard

### Key Features

#### PSR-S975

- 1625 Voices, including Super Articulation Voices, Organ Flutes! Voices. 55 Drum/SFX kits, and 480 XG voices
- 523 Styles, including 40 +Audio Styles, 34 Session Styles, 15 DJ Styles and 3 Freeplay Styles
- Half bar fill-in and Mono legato function
- 768 MB on-board memory for expansion data
- Mic/Guitar input for use when singing or collaborating with other performers
- Vocal Harmony 2 and Synth Vocoder functions
- Real Distortion and Real Reverb, with an intuitive effects interface
- USB audio playback with time stretch, pitch shift, vocal cancel and MP3 lyric display functions
- External display capability

Model		PSR-S975	PSR-S775	PSR-S670
Number of Keys		61		
Type of Keys		Initial Touch		
Other Controllers		Pitch Bend Wheel, Modulation, Control Knobs (2 assignable)		
Polyphony		128 Notes		
Presets		1090 Voices + 55 Drum/SFX Kits + 480 XG Voices, 523 Accompaniment Styles	930 Voices + 50 Drum/SFX Kits + 480 XG Voices, 433 Accompaniment Styles	416 Voices + 34 Drum/SFX Kits + 480 XG Voices, 230 Accompaniment Styles
Storage	Internal Memory	Approx. 13MB		Approx. 2MB
	External Drives	USB Flash Memory (via USB to DEVICE)		
Formats		WAV,MP3<playback only>, SMF		WAV,SMF
Effects Types		Reverb, Chorus, DSP, Master Compressor, Master EQ, Part EQ, Mic/Guitar Effects, Arpeggio, Vocal Harmony	Reverb, Chorus, DSP, Master Compressor, Master EQ, Part EQ, Mic/Guitar Effects, Arpeggio	Reverb, Chorus, Arpeggio, Master Compressor, Master EQ
MIDI Recording		16 tracks		
Audio Recording/Playback		.wav (44.1kHz, 16bit, stereo), MP3 <playback only>		.wav (44.1kHz, 16bit, stereo)
Audio Inputs		Mic/Guitar x1, AUX IN x1 (Stereo mini jack)		AUX IN x1 (Stereo mini jack)
Audio Outputs		L/L+R, R		
USB		USB[TO HOST]/[TO DEVICE]		
MIDI I/O		In/Out	In/Out	–
Headphones		Yes		
Pedal Inputs		1 (SUSTAIN), 2 (ARTICULATION), Function Assignable		1 (SUSTAIN), 2 (VOLUME), Function Assignable
Other I/O		RGB OUT	–	–
Built-in Speakers		13cm x2 + 2.5cm x2, 15W per side	13cm x 2 + 5cm x 2, 15W per side	12cm x 2, 15W per side
Power Supply		16V DC power supply (included)		
Dimensions (W x H x D)		1,002 x 148 x 437mm (39.45" x 5.83" x 17.2")		1,004 x 134 x 410 mm (39.53" x 5.28" x 16.14")
Net Weight		11.6kg (25.57 lbs.)	11.1kg (24.47 lbs.)	8.1kg (17.86 lbs.)

# Products Information

## Portable Keyboard PSR-EW Series

### Recommended Application

[PSR-EW410] **Portable** : **Full Band**  
**Small** : **Keyboard Only**

PSR-EW410



Keyboard

### Key Features

#### PSR-EW410

- Extended 76-keys keyboard
- 758 high quality voices including resonant Live! Grand Piano voice, with 48-note polyphony
- 12W + 12W more powerful amplifier
- Easy-to-use professional features like assignable Live Control Knob, DSP Effects, Pitch Bend, Quick Sampling, and Groove Creator
- USB Audio Recorder - 80 minutes. (.wav)
- L/R Output
- Connectivity with audio and MIDI capabilities
- Optional subwoofer

Model		PSR-EW410	PSR-EW300
Number of Keys		76	
Type of Keys		Initial Touch	
Other Controllers		Pitch Bend Wheel, Live Control Knob	-
Polyphony		48 Notes	
Presets		758 (237 Panel Voices + 24 Drum/SFX kits + 40 Arpeggio + 457 XGlite voices), 235 Accompaniment Styles	574 (197 Panel Voices + 18 Drum/SFX kits + 20 Arpeggio + 339 XGlite Voices), 165 Accompaniment Styles
Storage	Internal Memory	Approx. 1.73MB	Approx. 1.3MB
	External Drives	USB flash drive	-
Compatible file format		WAV, SMF	SMF
Effects Types		DSP, Reverb, Chorus, Master EQ, Harmony	Reverb, Chorus, Master EQ, Harmony
MIDI Recording		6 Tracks (5 Melody + 1 Style/Groove Creator)	2 Tracks (original file format)
Audio Recording/Playback		.wav (44.1kHz, 16bit, stereo)	-
Audio Inputs		AUX IN x1 (Stereo mini jack)	
Audio Outputs		L/L+R, R	Standard stereo phone jack (PHONES/OUTPUT)
USB		USB[TO HOST]/[TO DEVICE]	USB[TO HOST]
Headphones		Standard stereo phone jack (PHONES/OUTPUT)	
Pedal Inputs		1 (SUSTAIN)	
Built-in Speakers		12cm x2, 12W per side	12cm x2, 2.5W per side
Power Supply		16V DC power supply (included) / 6 x D batteries	12V DC power supply (not included) / 6 x AA batteries
Dimensions (W x H x D)		1,179 x 138 x 413mm (39.45" x 5.83" x 17.2")	1,152 x 118 x 369mm (45.37" x 4.62" x 14.5")
Net Weight		8.4 kg (18 lb, 8 oz) not including batteries	6.2 kg (13 lb, 11 oz) (not including batteries)

# Products Information

## Synthesizer MX Series

### Recommended Application

[MX88] Medium : **Full Band**



Keyboard

### Key Features

#### MX-88

- 88 Full-sized, Touch-sensitive keys and Over 1,000 Voices from the legendary MOTIF
- Piano Touch and Tone
- Full Concert Grand piano voice
- Inspiring synth sound
- Realistic strings, guitars, basses and drum kits
- MOTIF sound engine
- FM Essential is a FREE synthesizer app for iPhone® and iPad®.
- VCM (Virtual Circuitry Modeling) Effect
- 128-note Polyphony
- Easy connectivity to computers and iOS devices

Model	MX88	MX61 BK	MX49 BK
Sound Engine Type(s)	MOTIF Sound Engine (AWM2)		
Number of Keys	88	61	49
Type of Keys	GHS (Graded Hammer Standard), Initial Touch	Initial Touch	
Other Controllers	Pitch Bend Wheel x 1, Modulation Wheel x 1, Assignable Knob x 4, [DATA] dial x 1		
Polyphony	128 notes, 16-part multitimbral		
Number of Presets	1,106 Normal Voices + 61 Drum Kits, GM: 128 Normal Voices + 1 Drum Kit, User: 128 Normal Voices + 8 Drum Kits		
Memory	Approx.166 MB (when converted to 16-bit linear format)		
Arpeggiator	999 types		
Audio Playback	WAV (44.1kHz/16bit stereo)		
Sequencer	208 patterns, SMF Format 0 (playback only)		
Effects Types	Reverb, Chorus, Insertion Effect, Master EQ		
Audio Inputs	AUX IN x1		
Audio Outputs	[L / MONO] / [R] (standard phone jack), [PHONE] (standard stereo phone jack)		
USB	USB [TO HOST] (Class Compliant support)/ [TO DEVICE]		
MIDI I/O	In/Out		
Pedal Inputs	[FOOT CONTROLLER], [SUSTAIN]		
Software	Cubase AI included (download code), Cubasis LE iOS app (unlocks), FM Essential Synth iOS app (unlocks)		
Power Supply	12V DC power supply (included)		
Dimensions (W x H x D)	1,320 x 405 x 168mm (51.9" x 6.6" x 15.9")	984 x 112 x 299mm (38.7" x 4.4" x 11.7")	830 x 91 x 298mm (32.68" x 3.58" x 11.7")
Net Weight	13.9kg (30.6 lbs.)	4.8kg (10.6 lbs.)	3.8kg (8.38 lbs.)

# Products Information

## Electronic Drum Kits DTX402 Series

### Recommended Application

[DTX452K] **Portable :** **Full Band**



### Key Features

#### DTX452K

- Stereo sampling sound from Yamaha Acoustic Drums
- Simple & easy UI
- iOS/Android App "DTX402 touch" operate detailed setting easily
- Same pad position as acoustic drum and small footprint
- Sturdy & stable rack
- Yamaha foot pedal is included (DTX432K, DTX452K)

Model	DTX452K	DTX432K	DTX402K
Dimensions (W x D)	1,000 x 800 mm		
Weight	16 kg		13 kg

Trigger Module	
Voices	415 ( Drum and percussion: 287, Keyboard: 128 )
Drum kits	10 (all of which may be edited and overwritten)
Tempo	30 to 300 BPM (Tap Tempo and Voice Guidance functions)
Beat	1/4 to 9/4
Connectors	SNARE, CRASH, HI-HAT CTL, KICK/PAD (mini stereo audio), TOM1, TOM2, TOM3, RIDE, HI-HAT(mini mono audio), USB TO HOST (type B), AUX IN (mini stereo audio), PHONES/OUTPUT (standard stereo audio), DC IN
Power Supply	PA-130 or equivalent
Power Consumption	5 W

# Products Information

## Acoustic Drums Stage Custom Birch

### Recommended Application






[Stage Custom] **Small :** **Full Band**  
**Medium :** **Full Band**



Drums

### Key Features

- All Birch Shell provides shorter decay and rich, mid-low end
- Yamaha Enhanced Sustain System - YESS
- Easy to set, rigid drum positioning with Ball Mount System
- Die-cast claw hook
- BD leg with stopper
- Pro-use trustable hardware

Model	Stage Custom Birch (SBP0F5)				
					
Finish	Natural Wood, Pure White, Raven Black, Cranberry Red, Honey Amber				
Configuration	Shell pack with snare				
Number of Drums	5				
Snare (Diameter x Depth)	14" x 5.5" (SBS1455)				
Mounted Toms (Diameter x Depth)	10" x 7" (SBT1007) 12" x 8" (SBT1208)				
Floor Toms (Diameter x Depth)	14" x 13" (SBF1413)				
Bass Drums (Diameter x Depth)	20" x 17" (SBB2017)				
Shell Material	Birch				
Included Stands	TH945C Tom Holder				

\*Cymbals and drum stools are not included.

### HW780

- CS755 Cymbal Stand x2
- HS740A Hihat Stand
- SS740A Snare Stand
- FP7210A Foot Pedal



# Products Information

## Acoustic Electric Guitar FGX Series

### Recommended Application

[FGX820C] **Portable :** Guitar Only (1)



Guitar

### Key Features

#### FGX830C

- Traditional Western Body
- Solid Spruce Top
- Rosewood Back & Sides
- Newly Developed Scalloped Bracing
- Rich Overtones

#### FGX820C

- Traditional Western Body
- Solid Spruce Top
- Mahogany Back & Sides
- Newly Developed Scalloped Bracing
- Warm and Strong Sound

#### FGX800C

- Traditional Western Body
- Solid Spruce Top
- Nato/Okume Back & Sides
- Newly Developed Scalloped Bracing
- Traditional looks and outstanding quality

Model	FGX830C	FGX820C	FGX800C
String Type		Steel	
Number of Strings		6	
Body Shape	Traditional Western Cutaway		
Body Style	Single Cutaway		
Left-/Right-handed	Right-handed		
Color	Natural, Black		Natural, Black, Sand Burst
Finish	Gloss		
Top Wood	Solid Spruce		
Back & Sides Wood	Rosewood	Mahogany	Nato/Okume
Body Bracing	Scalloped		
Binding	Cream		
Neck Wood	Nato		
Neck Shape	Thin		
Fingerboard Material	Rosewood		
Number of Frets	20		
Scale Length	25.5"		
Tuning Machines	Die-cast Chrome		
Bridge Material	Rosewood		
Nut/Saddle Material	Urea		
Nut Width	1.675"		
Electronics	Yamaha System-66		
Case Included	No		

# Products Information

## Acoustic Electric Guitar A Series

### Recommended Application

[A Series] **Portable** : **Guitar Only (2)** **Full Band** **Small** : **Full Band** **Medium** : **Full Band**

### Key Features

#### A3M ARE

- Traditional Western Body Cutaway
- Solid Sitka Spruce Top with A.R.E.
- Solid Mahogany Back & Sides
- New Scalloped Bracing for Louder, Richer Acoustic Sound
- Natural, Dynamic Plugged-in Sound by SRT2 System
- High Comfort Neck Profile
- Simple and Distinctive Looks
- Elixir Strings
- Hard Bag Included

#### A3R ARE

- Traditional Western Body Cutaway
- Solid Sitka Spruce Top with A.R.E.
- Solid Rosewood Back & Sides
- Natural, Dynamic Plugged-in Sound by SRT2 System
- New Scalloped Bracing for Louder, Richer Acoustic Sound
- High Comfort Neck Profile
- Simple and Distinctive Looks
- Elixir Strings
- Hard Bag Included

#### A1M

- Traditional Western Body Cutaway
- Solid Sitka Spruce Top
- Mahogany Back & Sides
- New Scalloped Bracing for Louder, Richer Acoustic Sound
- Cut-through Plugged-in Sound by the SRT Piezo Pickup
- High Comfort Neck Profile
- Simple and Distinctive Looks
- Elixir Strings

Model	A3M ARE	A3R ARE	A1M
String Type	Steel		
Number of Strings	6		
Body Shape	Traditional Western Body Cutaway		
Body Style	Single Cutaway		
Left-/Right-handed	Right-handed		
Color	Vintage Natural, Tobacco Brown Sunburst		
Finish	Gloss		
Top Wood	Solid Sitka Spruce with A.R.E (Acoustic Resonance Enhancement)	Solid Sitka Spruce	
Back & Sides Wood	Solid Mahogany	Solid Rosewood	Mahogany
Body Bracing	Scalloped bracing		
Binding	Mahogany		
Neck Wood	3-piece Mahogany		
Fingerboard Material	Ebony	Rosewood	
Fingerboard Inlay	Dots		
Number of Frets	20		
Scale Length	25.5"		
Tuning Machines	Die-cast Chrome		
Bridge Material	Ebony	Rosewood	
Nut/Saddle Material	TUSQ	Urea	
Nut Width	1.692"	1.675"	
Electronics	SRT2 preamp with saddle pickup		System 72
Case Included	Hard bag		No

# Products Information

## Variax Series

### Recommended Application

[Variax Series] **Portable :** **Full Band** **Small :** **Full Band** **Medium :** **Full Band**

### Key Features

#### VARIAX STANDARD

- Line 6 innovation meets Yamaha craftsmanship
- Access an entire collection of electric, acoustic and exotic guitars
- Switch between alternate tunings with the turn of a knob
- Create any guitar imaginable with Workbench HD software
- Lightweight alder body with Graph Tech nut and single-coil pickups

#### JAMES TYLER VARIAX

- Designed by James Tyler and built with boutique-style craftsmanship
- Access an entire collection of electric, acoustic and exotic guitars
- Switch between alternate tunings with the turn of a knob
- Create any guitar imaginable with Workbench HD software

Model	JTV-69/69S	JTV-59	JTV-89F	Variax Standard
Body Type	Solidbody			
Body Shape	Doublecut	Singlecut	Doublecut	
Left-/Right-handed	Right-handed			
Number of Strings	6			
Body Material	Alder	Mahogany		Alder
Top Material	N/A	Carved Maple Top with Flame Maple Veneer	N/A	
Body Finish	Gloss			
Color	Black, Olympic White, 3-tone Sunburst, Lake Placid Blue (only JTV-69)	Black, Cherry Sunburst, Tobacco Sunburst	Black, Blood Red	Black, White, Sunburst
Neck Material	Maple	Mahogany	Maple	
Neck Shape	Tyler '69	Tyler '59	Tyler Fast 'n Flat	Flat C profile
Radius	12"		16"	13.75"
Fingerboard Material	Maple, 12" Radius	Rosewood		
Fingerboard Inlay	Dots			White Dots
Number of Frets	22, Medium-jumbo		24	22
Scale Length	25.5"	24.56"	25.5"	
Nut Width	1.625"	1.687"		1.625"
Nut Material	Graph Tech TUSQ XL		Locking Floyd Rose® nut and string tree	Graph Tech TUSQ XL
Bridge/Tailpiece	Tyler-designed Adjustable Tremolo	Tyler-designed Wraparound Bridge	Floyd Rose Locking Trem	Custom Tremolo Bridge with LR Baggs Radiance Hex Piezo system
Tuners	Sealed Locking Tuners	Sealed Tuners		Sealed tuners, 16:1 ratio
Number of Pickups	3	2	3	
Neck Pickup	Vintage-style Alnico Single-coil	Vintage-style Alnico Humbucker	Custom-wound Alnico Humbucker	Alnico V Single-coil
Middle Pickup	Vintage-style Alnico Single-coil	N/A		Alnico V Single-coil
Bridge Pickup	Vintage-style Alnico Single-coil	Vintage-style Alnico Humbucker	Custom-wound Alnico Humbucker	Alnico V Single-coil
Controls	Master Volume, Master Tone, 5-way Selector, Guitar Model Selector, Alt Tune Selector	Master Volume, Master Tone, 3-way Selector, Guitar Model Selector, Alt Tune Selector	Master Volume, Master Tone, 5-way Selector, Guitar Model Selector, Alt Tune Selector	1 x master volume, 1 x tone, 1 x guitar model select, 1 x tuning select, 5-way blade pickup switch, 1 x 1/4", 1 x RJ-45 (VDI)
Case Included	Gig Bag			Not Included

# Products Information

## Helix Series

### Recommended Application

[Helix Series]	Portable :	Full Band
	Small :	Full Band
	Medium :	Full Band



### Key Features

#### Helix Floor

- Powerful Dual-DSP HX Modeling
- Large 6.2", 800x480-Pixel LCD Screen
- 75 Amps, 37 Cabs, 16 Microphones, and 200 Effects
- Capacitive Footswitches and Customizable Scribble Strips. Touch to Edit, Hold to Assign, Press to Engage
- Up to 3 Expression Pedals, CV/Expression Output, External Amp Switching, and Deep MIDI Control

#### Helix LT

- Powerful Dual-DSP HX Modeling
- Large 6.2", 800x480-Pixel LCD Screen
- 75 Amps, 37 Cabs, 16 Microphones, and 200 Effects
- Capacitive Footswitches. Touch to Edit, Hold to Assign, Press to Engage
- Up to 2 Expression Pedals, External Amp Switching, and Deep MIDI Control

Model	Helix Floor	Helix LT
Pedal Type	Multi-FX	Multi-FX Guitar workstation
Analog/Digital	Digital	
Number of Effects	200	
Amp Modeling	75 Amps, 37 Cabs, 16 Microphones, and 200 Effects	
Number of Models	62 amps, 37 cabs, 16 mics (with firmware updates)	62 amps, 37 cabs, 16 mics
Looper	60 seconds (mono full speed), 30 seconds (stereo full speed)	
Analog Inputs	1 x XLR (mic), 1 x 1/4" (guitar), 1 x 1/4" (aux), 4 x 1/4" (return)	1 x 1/4" (guitar), 2 x 1/4" (returns)
Analog Outputs	2 x XLR, 2 x 1/4", 4 x 1/4" (Send)	2 x XLR (main out), 2 x 1/4" (main out), 2 x 1/4" (sends)
Digital Inputs	1 x Coax (S/PDIF), 1 x RJ45 (Variax)	LT Digital Input: 1 x RJ45 (Variax)
Digital Outputs	1 x Coax (S/PDIF), 1 x XLR (AES/EBU, Link out)	1 x XLR (AES/EBU, L6 link)
MIDI I/O	In, Out/Thru	
USB	1 x Type B	
Headphones	1 x 1/4"	
Other I/O	2 x 1/4" (expression pedals), 1 x 1/4" (control voltage), 1 x 1/4" (ext amp switching)	1 x 1/4" (expression pedals), 1 x 1/4" (ext amp switching, shared with expression)
Expression Control	Built-in	Built-in, 1 x 1/4" (expression pedal 2 / external amp switching)
Compatibility	OS X 10.10 or later, Windows 7 SP1	OS X 10.10 or later, Windows 7 SP1 or later
Power Source	Standard IEC AC cable	
Dimensions (W x H x D)	560 x 301 x 910mm (22.05" x 3.58" x 11.85")	531 x 94 x 316mm (20.9" x 3.7" x 12.45")
Net Weight	6.7kg (14.6 lbs.)	5.7kg (12.45 lbs.)

# Products Information

## Relay Series

### Recommended Application

[Relay Series] **Portable :** Full Band **Small :** Full Band **Medium :** Full Band

### Key Features

#### Relay G70

- Up to 200-foot range\*
- Programmable scene presets & flexible signal routing
- Up to 16 channels
- All the inputs and outputs you need
- Powered by AA batteries


#### Relay G30 / G50

- Up to 200-foot range\*
- Stompbox formats
- Up to 12 channels
- LCD display

#### Relay G10

- Up to 50-foot range
- Automatic plug-and-play setup
- Compact 1/4" rechargeable transmitter
- Compatible with the built-in wireless receiver in Spider V 60, 120, and 240

\*Line-of-sight (may vary due to local conditions)

Model		<b>Relay G70</b> 	<b>Relay G50</b> 	<b>Relay G30</b> 	<b>Relay G10</b> 	
System	Simultaneous Channels	Up to 16	12	6	Automatic (14)	
	Analog/Digital	Digital				
	Frequency Range	2.4 GHz				
	Operating Range	200 ft. Line-of-sight		100 ft. Line-of-sight	50 ft. Line-of-sight	
	Frequency Response	10Hz-20kHz				
Instrument Cable	Connector 1	1/4"			NA	
	Connector 2	Locking 1/4"	TA4F	1/4"	NA	
Transmitter	Form Factor	Bodypack			Guitar/Bass	
	Dynamic Range	120dB (A weighted)	120dB	118dB	110dB	
	Battery Type	2 x AA			Built-in rechargeable battery (receiver contains charger)	
	Battery Life	8 hours				
	Connector	1/4" (Locking)	TA4M	1/4"	1/4" plug	
	Dimensions	212 x 210 x 50mm	108 x 71 x 29mm	73 x 57 x 32mm	33 x 84 x 23mm	
	Weight	0.165 Kg	0.184 Kg	0.086 kg	0.047 Kg	
Receiver	Antenna Type	Built-in	Detachable	Built-in		
	Front Panel Display	Yes	No			
	Displays	Status LED's		LED Status Lights	Status LED	
	Type	Pedal			Table Top	
	Inputs	1 x 1/4"	NA			
	Outputs	2 x 1/4", 1 x 1/4" (Tuner), 1 x XLR	2 x 1/4"	1 x 1/4"	1 x XLR, 1 x 1/4"	
	Data I/O	USB	NA			USB
	Dimensions (W x H x D)	135 x 98 x 53mm	126 x 135 x 42mm	32 x 111x 54 mm	100 x 100 x 65mm	
Net Weight	0.76 Kg	0.422 Kg	0.113kg	0.3 Kg		

# Products Information

## Spider Series

### Recommended Application

[Spider Series] **Small** : **Full Band**  
**Medium** : **Full Band**



Guitar Amplifier

### Key Features

#### Spider V 120

- 120 watts of power
- Bi-amped full-range speaker system with a 12" loudspeaker + tweeter
- Wireless-ready for Line 6 Relay transmitters
- XLR direct outputs for live use
- Built-in 60-second looper for layering guitar tracks to play over
- Over 200 amps, effects, and cabs—more than any other amp in its class
- USB interface and free recording software to record your best ideas
- Drum loops and a built-in metronome for honing your chops
- Compatible with FBV3, FBV Shortboard MkII, FBV Express MkII, and FBV2

#### Spider V 60

- 60 watts of power
- Bi-amped full-range speaker system with 10" loudspeaker + tweeter
- Wireless-ready for Line 6 Relay transmitters
- Built-in 60-second looper for layering guitar tracks to play over
- Over 200 amps, effects, and cabs—more than any other amp in its class
- USB interface and free recording software to record your best ideas
- Drum loops and a built-in metronome for honing your chops
- Compatible with FBV3, FBV Shortboard MkII, FBV Express MkII, and FBV2

#### Spider V 30

- 30 watts of power
- Bi-amped full-range speaker system with 8" loudspeaker + tweeter
- Over 200 amps, effects, and cabs—more than any other amp in its class
- USB interface and free recording software to record your best ideas
- Drum loops and a built-in metronome for honing your chops
- Compatible with FBV3, FBV Shortboard MkII, FBV Express MkII, and FBV2

Model	Spider V 120	Spider V 60	Spider V 30
Type	Solid State with Digital modeling		
Total Power	120W	60W	30W
Speaker Size	1 x 12" woofer, 1 x Hi-freq tweeter	1 x 10" woofer, 1 x Hi-freq tweeter	1 x 8" woofer, 1 x Hi-freq tweeter
Effects	101 effect models		
EQ	3-band EQ controls		
Amp Modeling	78 amps, 23 cabinets		
Inputs	1 x 1/4" (instrument, G10T recharging), 1 x 1/8" (aux in), wireless receiver for G10T (sold separately)		1 x 1/4" (instrument, G10T recharging), 1 x 1/8" (aux in)
Outputs	2 x XLR (direct out)	—	
USB	1 x Type B (Mac, PC, Android), 1 x Type A (iPhone/iPod)		
Headphones	1 x 1/4"	1 x 1/8"	
Footswitch I/O	1 x RJ-45 (FBV pedal)		RJ45 (FBV pedal)
Footswitch Included	No		
Computer Connectivity	USB		
Dimensions (W x H x D)	20.1" x 19.3" x 10.7"	17.4" x 16.9" x 9.1"	15.4" x 15" x 8.2"
Net Weight	30.9 lbs.	20.5 lbs.	16.2 lbs.

# Products Information

## BB Series

### Recommended Application

[BB434] **Portable :** **Full Band**

[BB734A] **Small :** **Full Band**    **Medium :** **Full Band**

### Key Features

- BB734A**
- Alder / Maple/ Alder Body Construction
  - 6-Bolt Miter Neck Joint
  - 5-piece Neck
  - YGD Custom V7 Pickups (AlnicoV)
  - 3-Band Active EQ
  - Battery Alert LED
  - Vintage Plus Bridge : Convertible Bridge and Saddle
  - Lightweight Open Gear Tuners

- BB434**
- Solid Alder Body
  - 6-Bolt Miter Neck Joint
  - 5-piece Neck
  - YGD Custom V5 Pickups (AlnicoV)
  - Vintage Plus Light Bridge : Convertible Bridge and Saddle
  - Lightweight Open Gear Tuners

- BB234**
- Solid Alder Body
  - Custom V3 Pickups (Ceramic)
  - Vintage Style Bridge
  - Lightweight Open Gear Tuners

Model	BB734A	BB434	BB234
Body Shape	Yamaha BB Doublecut		
Left-/Right-handed	Right-handed		
Number of Strings	4		
Color	Dark Coffee Sunburst, Matte Translucent Black	Tobacco Brown Sunburst, Teal Blue, Black	Raspberry Red, Yellow Natural Satin, Vintage White, Black
Body Material	3-piece Alder/Maple	Solid Alder	
Body Finish	Polyurethane		
Neck Material	5-piece Maple/Mahogany		Maple
Radius	10"		
Fingerboard Material	Rosewood		
Fingerboard Inlay	Bar inlays	Dots	
Number of Frets	21, Medium		
Scale Length	34"		
Nut Width	40mm		
Nut Material	GraphTech		Urea
Bridge/Tailpiece	Vintage Plus (steel baseplate/brass saddles)	Vintage Plus Light (steel baseplate/saddles)	Vintage Style
Tuners	Lightweight, open-gear		
Neck Pickup	VSP7n Alnico V Split Single-coil	VSP5n Alnico V Split Single-coil	VSP3n Ceramic Split Single-coil
Bridge Pickup	VSP7b Alnico V Single-coil	VSC5b Alnico V Single-coil	VSC3b Ceramic Single-coil
Controls	1 x master volume, 1 x pickup balance, 3-band EQ, active/passive switch	2 x volume, 1 x master tone	2 x volume, 1 x master tone
Strings	D'Addario EXL170 / 45-100		45-105
Case Included	Gig bag	Not Included	

# Products Information

## Electronic Acoustic Drum Module EAD10

### Recommended Application

[EAD10] Small : **Full Band**



Option

### Key Features

- Only attach sensor unit, it can pick up overall drum sounds
- Sound Module impart Reverbs & Effects to drum sounds
- Just connect to the speakers, it becomes the simple drum PA system
- 50 preset Scenes transform drum sounds dynamically
- Connecting drum trigger/pad makes hybrid setting very easy
- You can practice, shoot, edit and upload videos with free iOS app "Rec'n'Share"

Model		EAD10	
Type		Drum Module with Mic and Trigger	
Trigger Sounds	Polyphony	64	
	Voices	757 voices - Kick, Snare, Cymbal, Percussion, Electronic sound	
Effects		11 x Reverbs, 22 x Mic Effect	
Sensor Unit	For Trigger sensor	A (standard stereo phone)	
	For Mic sensor	B (standard stereo phone)	
Trigger input	Stereo (L: trigger, R: trigger)	1 KICK/2 (also serves as A), 3 SNARE/4 (standard stereo phone)	
	Three-zone (L: trigger, R: rim switch)	5, 6 (standard stereo phone)	
Analog Inputs		AUX IN (stereo mini)	
Analog Outputs		OUTPUT L/MONO, R (standard mono phone), PHONES (standard stereo phone)	
USB		USB TO DEVICE, USB TO HOST	
Other I/O		FOOT SW (standard stereo phone)	
Recording Time		Approx. 1 min 30 sec (Internal memory), Approx. 30 min/file (USB flash drive)	
File Format		WAV (44.1 kHz, 16 bit, stereo)	
Power		12V DC power supply (included)	
Dimensions (W x H x D)		Main Unit : 260mm x 63 mm x 138mm, Sensor Unit : 76mm x 88mm x 78mm	
Net Weight		Main Unit : 654g, Sensor Unit : 464g	

# Products Information

## SWP1

### Recommended Application

[SWP1] Medium: **Full Band**

### Key Features

- DIP Switch Dante Optimization
- 3 Preset VLAN Types
- Network Visibility
- etherCON Connectors for Live Sound Reliability
- Optical Fiber and Network Redundancy Support (option required for redundancy)
- EXT DC INPUT for Power Supply Redundancy
- LAN Mapping for a Complete Network Overview
- Port Status and Bandwidth Utilization
- Dante Device Info
- 1-click Dante Controller Launch
- Snapshot Function Makes Troubleshooting Easy
- Enhanced Device ID with Icons, Labels, and Comments
- Detailed Switch Settings and Firmware Updates

Model	SWP1-16MMF	SWP1-8MMF	SWP1-8
Number of LAN ports (1000BASE-T/100BASE-TX/10BASE-T/etherCON connector)	12		8
Number of LAN ports (1000BASE-T/100BASE-TX/10BASE-T/RJ-45 connector)	4		–
Number of SFP ports (1000BASE-SX/opticalCON connector)	2 (1 optical module is installed as standard)		2 (optical modules are not installed as standard)
Console port	1 (RJ-45)		
Automatic negotiation	Available		
Auto MDI/MDI-X	Available		
Switching capacity	36 Gbit/s		20 Gbit/s
Throughput	27 Mpps		15 Mpps
Maximum number of MAC addresses	16,384		
Frame buffer	1024 kB		
VLAN	Port VLAN, Tag VLAN (IEEE802.1Q), Private VLAN		
Maximum number of VLANs	256 (VLAN ID 1–4,094) *VLAN ID 1 is the default VLAN ID.		
IP multicast	IGMP Snooping (v1/v2/v3)		
QoS	8 egress queues, Policy-based QoS, Remarking (CoS, ToS, DSCP), Scheduling (SP, WRR)		
DIP switches	CONFIG, VLAN PRESET		
Operating temperature	0 to 40°C		
Storage temperature	–20 to 60°C		
Power supply (AC IN inlet)	AC100V-240V, 50/60Hz, Internal power supply (no power switch), Power supply inlet: locking type		
Power supply (EXT DC INPUT inlet)	External power supply requirements: 24VDC±2V, 1A, XLR-4-32 type Connector		
Maximum power consumption	16 W, 0.29 A		11 W, 0.21 A
Heat dissipation	14.0 kcal/h		9.5 kcal/h
Dimensions (W x H x D)	480 x 44 x 362mm		
Weight	4.6 kg		4.2 kg
Accessories	Power code, Owner's manual		
Options	MMF-SWP1 (Optical expansion unit)		

# Empowering Worship

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<https://asia-latinamerica-mea.yamaha.com/en/support/how/index.html>

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