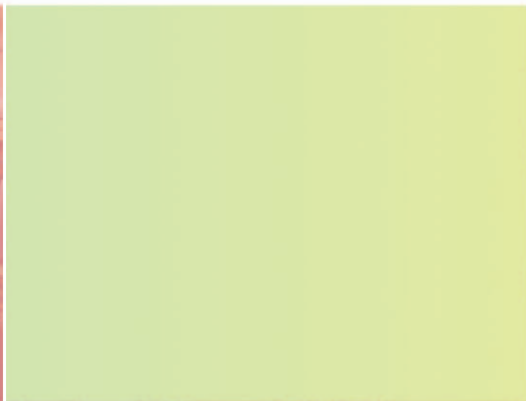


Commercial Installation Solutions



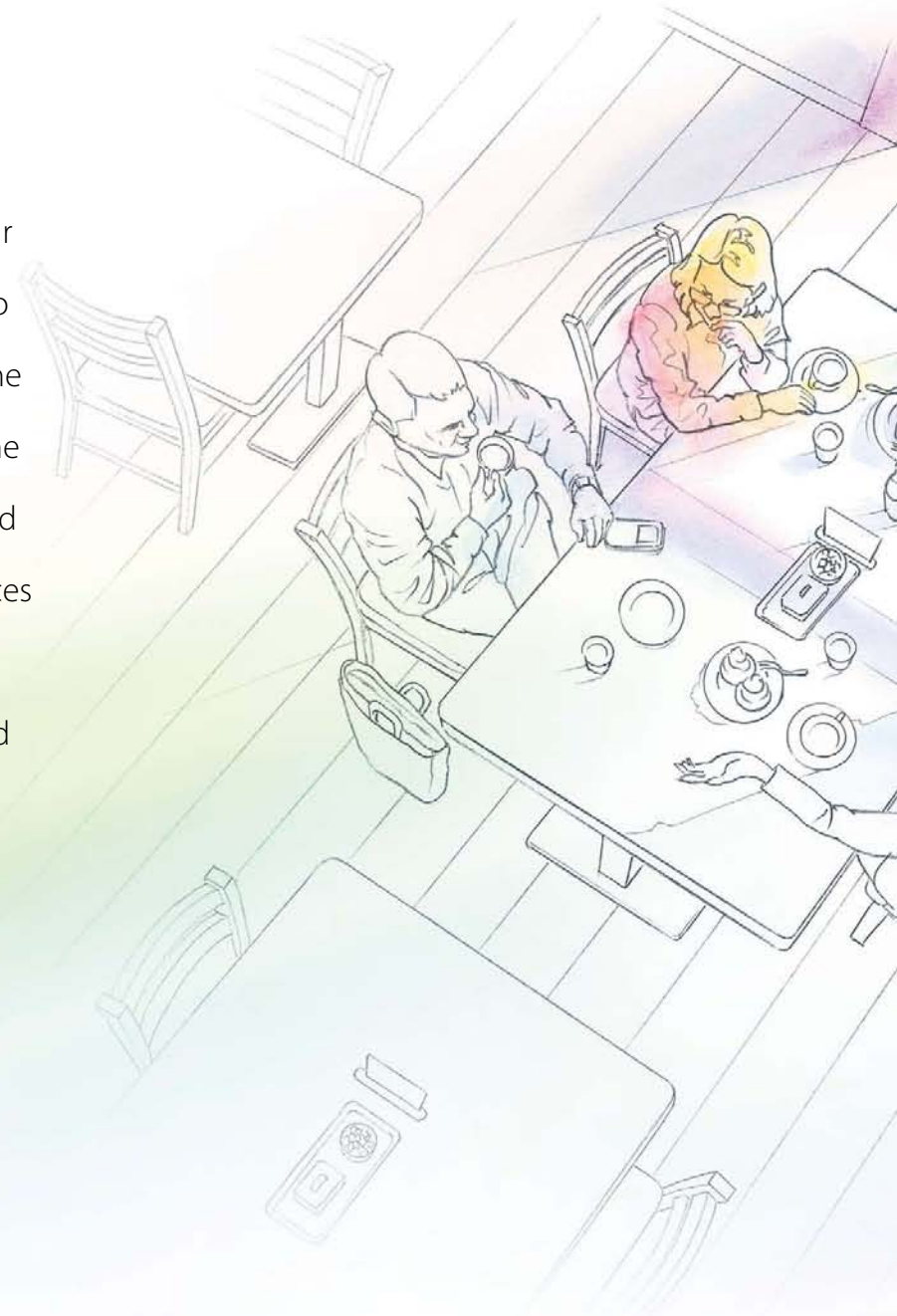
A Fresh Perspective...





The Art of Installed Sound

At Yamaha, our product development process always begins by carefully examining, then addressing, the needs and requirements of our customers. Centred around “6 Key Values” and a fresh approach to audio installation, we have developed a lineup of products that responds to the growing demands of the installed sound market—and benefits everyone involved in the installation process. As a result of the faster and simplified workflow, the entire installation team can reduce the amount of resources required to complete installation, while owners will benefit from the ease of system operation, superior product reliability, cost efficiency, and most of all— the outstanding sound quality that will make the overall experience for customers in their commercial space more enjoyable.





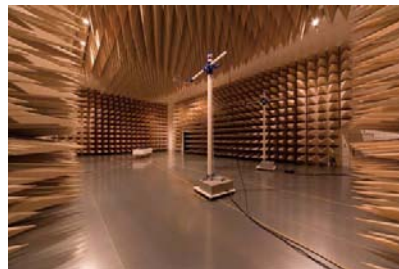


Reliability

Performance you can count on

With commercial installed sound, nothing is more important than the assurance that every piece of equipment in your sound solution will operate at peak performance long after the installation process has finished. Since most commercial environments require un-manned operation without the expertise of an audio engineering professional, you need products that you can depend on for years to come. Over the past several decades Yamaha has developed a reputation for providing customers with dependable, high-grade products that guarantee a lifetime of reliable operation.

All Yamaha products undergo rigorous testing at every stage of their development in order to meet the highest standards of reliability and endurance. Only the best quality component parts are used in our products— each of them subject to detailed analysis before and after extensive testing that simulates the harshest conditions our products might be subjected to, in order to ensure they can operate in even the most demanding environments. This



meticulous testing process is backed up by protection features that keep your equipment safe, offering improved longevity even when working in less-than-ideal conditions. Combined with road-tested innovation, this attention to detail has established Yamaha as the premier force in live sound reinforcement and large installation markets, and now we've brought this same dedication to performance excellence to our new lineup of commercial installation products.

Our commitment to our customers extends well beyond the reliability of our products. Thanks to a comprehensive worldwide distribution network, we can offer customers professional service and support to ensure that everyone who uses our products is getting the best out of their Yamaha purchases. No matter where you are, you can be assured of assistance with any product-related inquiries, so you'll never be left hanging.





Simplicity

Time is on your side

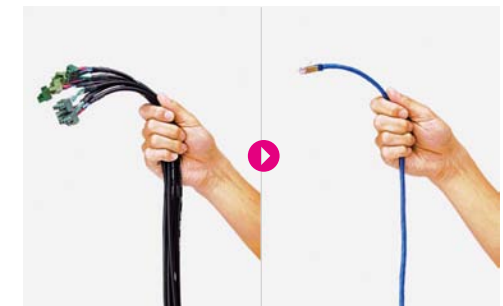
Installing a commercial sound solution can be a sizeable undertaking, requiring a great deal of energy, planning and perhaps most significantly, time. Yamaha now offers a comprehensive new range of installed sound products that possess superior sound and performance characteristics, yet reduce the amount of resources that would normally go into designing, installing and configuring such a system. With standardized connections, flexible functionality, and an innovative approach to workflow, these products function together seamlessly, allowing you to construct a sound that remains consistent throughout your installation space.

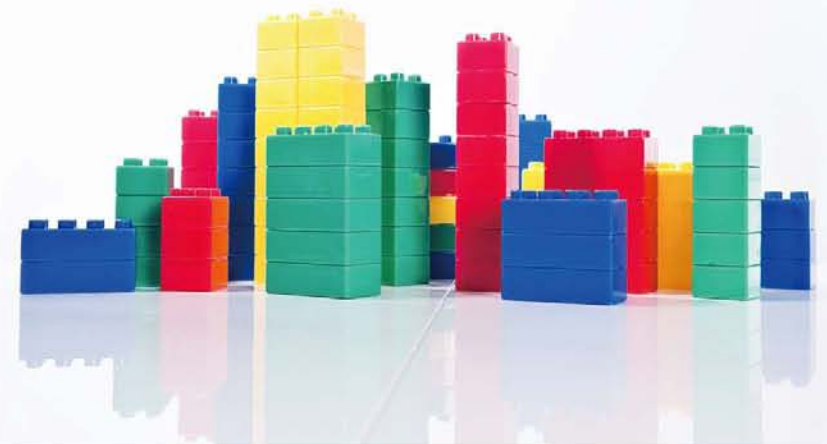
With the MTX Editor application, sound system installers have a software tool that allows them to design and configure a sound solution on a PC, creating a detailed design that they can then utilize in the real world. MTX Editor mirrors the workflow of an installation process— from selecting which products are best suited to your commercial space, right through to installation— allowing detailed configurations to be assessed virtually, and then processors configured to match, prior to the final installation work. This process greatly accelerates and simplifies the overall workflow, providing everyone involved in the system's installation with a flexible roadmap to work from.



Yamaha's new proprietary YDIF digital transmission format provides 16 channels of digital audio using standard Ethernet cable, reducing the need for excessive cabling that often requires a lengthy setup process as well as more physical space to accommodate it. Numerous innovative new features also contribute significantly to simplifying the design process as well as reducing the amount of equipment normally required to meet the demands of various environments. Even series speakers have been purpose built for safe, easy installation, with carrying bands and mounting brackets arranged in a standardized configuration.

From the products, to the software, to the workflow itself, everything comes together to form a simple, intuitive system of operation that benefits each stage of the installation process and everyone involved— from system designers and installers, to end-users. This new approach is guaranteed to reduce cost, energy, space, man-power and best of all, the amount of time required to complete an installation.





Flexibility

We've got you covered

Designing a complete sound solution from the ground up can be a daunting task, and selecting the proper equipment for your system is the crucial first step. Our new lineup of commercial installation products offers numerous advantages by providing flexible features that reduce the number of components required to configure your system and ensure that it meets the specific demands of your commercial environment.

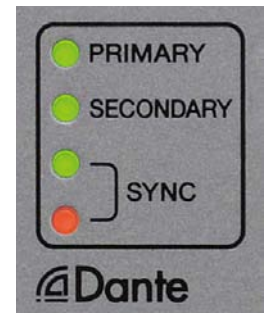
Easily adaptable to countless applications, all series speakers and amplifiers are capable of running in high or low impedance modes. Series power amplifiers can even achieve 70V or 100V operation on all channels without sacrificing any outputs. Additionally, the newly developed Double Power Mode allows a single amplifier to drive speakers of varying output capabilities. Offering additional flexibility for end users, the newly developed Wireless DCP software app gives iPhone and iPod touch users remote control of system presets and levels.

Applications where Yamaha products can be used			
	MTX Series	TRX Series	TRC / TRS Series
Restaurants	Yes	Yes	Yes
Banquet Rooms	Yes	Yes	Yes
Bars	Yes	Yes	Yes
Boardrooms	Yes	Yes	Yes
Corporate Auditoriums	Yes	Yes	Yes
Retail Stores	Yes	Yes	Yes
Shopping Malls	Yes	Yes	Yes
Lecture Rooms	Yes	Yes	Yes
Classrooms	Yes	Yes	Yes

Expandability

Broaden your horizons

Based on Yamaha's extensive experience in sound reinforcement and larger installations this new lineup features several expandability options, adding more input/output capability and functionality to accommodate a wider range of applications. For larger installations, products featuring dedicated Dante ports provide the latest in audio network technology and seamless integration with other Dante enabled equipment. Yamaha's popular MY expansion cards make it easy to add functionality and input/output capability in a wide variety of audio and network formats, to products that are equipped with compatible card slots. This series also features dedicated expanders that can add flexibility to your systems design, providing additional input/output capability via Yamaha's YDIF proprietary digital audio transmission format using standard Ethernet cable.





Yamaha Quality

For discriminating tastes

Yamaha has a proven track record for providing both industry leading AV products for the consumer market, and high quality, professional equipment for live sound, broadcast and recording applications. Now we are bringing this same commitment to our customers in the installed sound market, offering the proven assurance of Yamaha sound quality in a whole new range of installation applications.

With each new application comes a different set of sonic demands and your sound system has to be able to adapt accordingly. For example, in a retail store a prominent bass end could be beneficial by making customers enthusiastic, while in a cafe or restaurant, a more subtle approach might serve to complement the overall atmosphere. Whether music or spoken words, you can be sure of a clear, natural reproduction of the original sound source, with very low noise and minimal distortion.

This insistence on quality and clarity is also evident in the appearance of these products, which feature simple yet sophisticated designs that enable them to blend seamlessly into almost any installation environment. Even the signature hexagon motif that is consistent throughout the lineup serves a dual role, acting as a design element while enhancing product performance. Functional yet aesthetically pleasing, our commercial sound installation lineup is the perfect choice to bring Yamaha quality into your installation.

Efficiency

Think Green

In an era when the world faces issues such as climate change, rising costs, and diminishing resources, the slightest reduction in power consumption represents a significant benefit, both in cost and in environmental impact. For this reason, our commercial sound products offer a range of innovative features aimed specifically at lowering power consumption.

Series power amplifiers feature Class-D topology combined with a new patent pending 2-step output circuit that raises the efficiency of the amplifier to over 90% at rated output power. The amplifiers also utilize a Power Factor Correction equipped switching power supply that benefits the installation venue itself, making circuit breakers less prone to shutting down, as well as negating the need for thicker, heavier cables. Our commercial sound systems also feature high efficiency speakers that offer stunning sound while requiring less power than conventional speakers, allowing the use of smaller capacity amplifiers than was previously possible.

Perhaps most importantly, is the simplicity of Yamaha's streamlined new approach to installed sound— taking this power-saving philosophy a step further by making system design and setup faster and easier, allowing your team to work less but achieve more.



DCP Series



EXi8 / EXo8



MTX Series



XMV Series



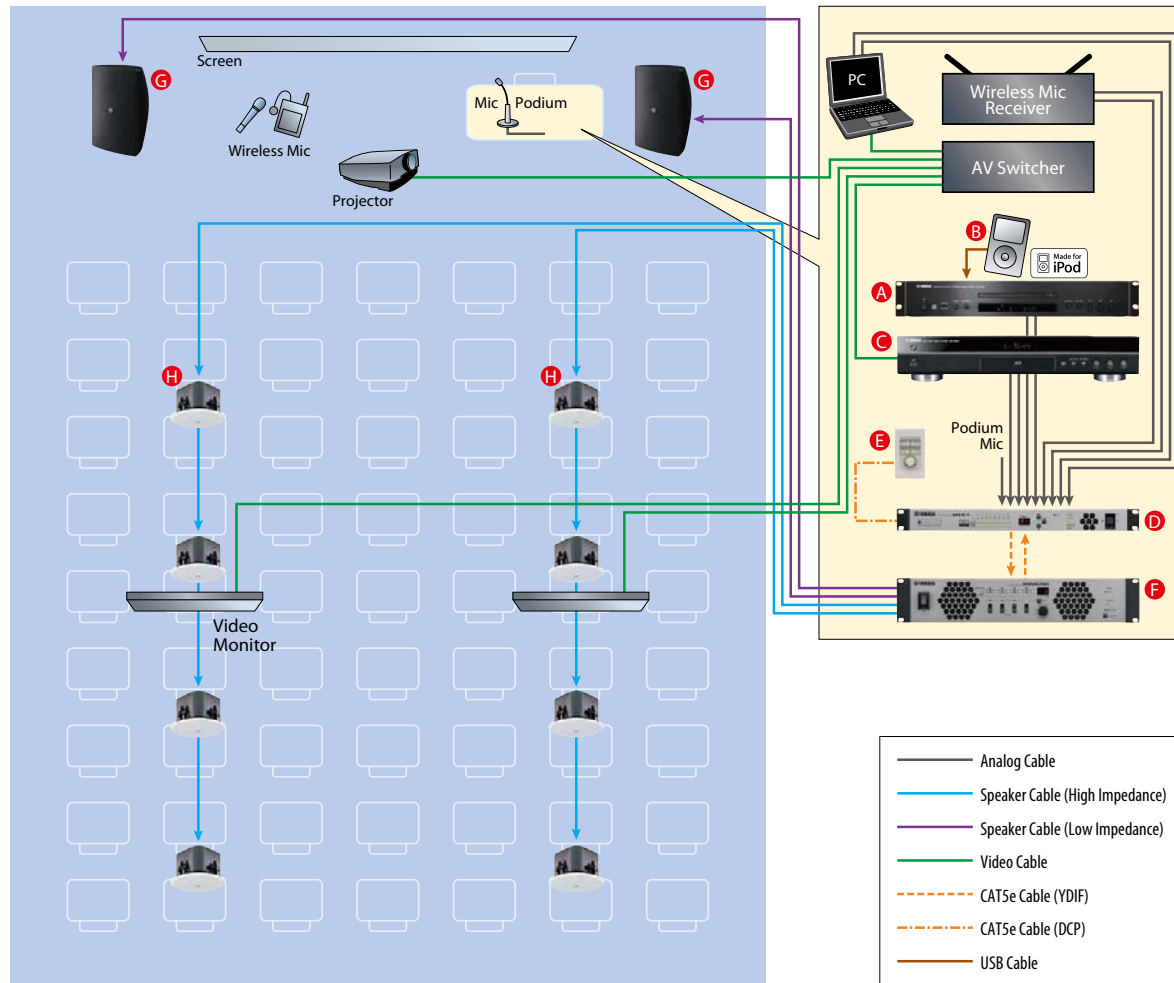
VXC Series



VXS Series

Simple Digital System

This system features a digital matrix processor. Touch panel control systems make it easy for just about anyone to operate major sound system functions from an easily comprehensible interface. The MTX3 scene memory can store up to 50 complete setups that can be instantly recalled whenever needed, making it easy to switch setups for a variety of applications. The XMV4280 power amplifier can be set up to drive low and high impedance loads in 2-channel groups, so a single unit can simultaneously power low and high impedance speaker systems. Since the MTX3 features processing data for Yamaha speaker systems built in, it's easy to achieve optimum sound and matching while protecting the speakers against overload damage.



Applications:



Lecture Rooms



Small Meeting Rooms



Houses of Worship



Restaurants

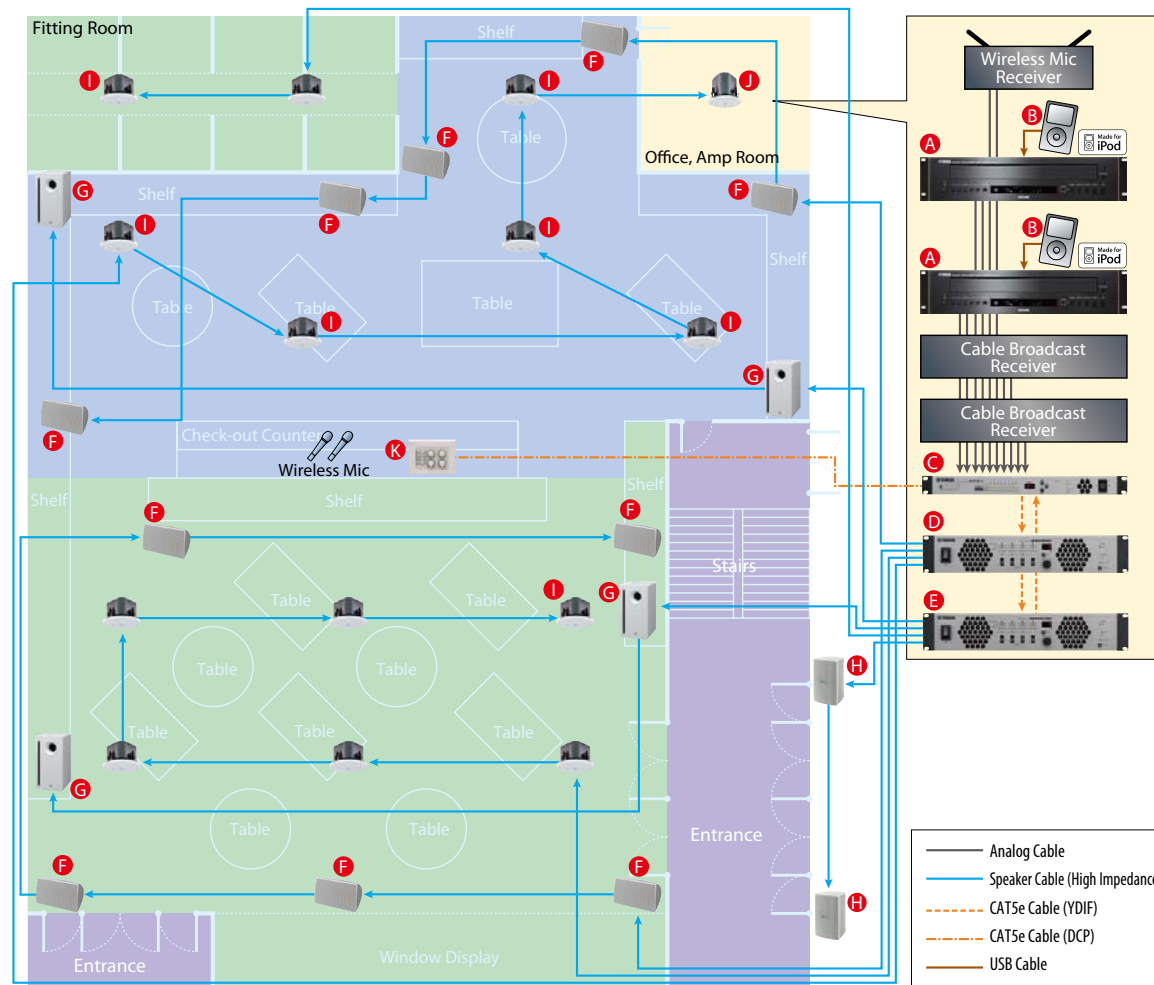
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Products List

(A)	CD Player	CD-S300RK
(B)	iPod or Other MP3/WMA Player	
(C)	Blu-ray Disc Player	BD-S667
(D)	Matrix Processor	MTX3
(E)	Control Panel	DCP1V4S
(F)	Power Amplifier	XMV4280
(G)	Surface Mount Speaker	VXS8
(H)	Ceiling Speaker	VXC6W

Zoning System

This system features a digital matrix processor that also provides zoning capability. Overall system routing and processing is handled by a single MTX3 unit located in the office. Different BGM and announcements can be broadcast to five different zones: the entrance, the two zones in the main area (blue and green areas), the fitting room (green area), and office. By using a subwoofer to reinforce the low frequencies listeners will feel the music more for a greater sense of involvement and impact. A DCP4V4S control panel at the checkout counter allows easy volume adjustment and preset selection. The MTX3 features a built-in priority ducker function that automatically reduces the volume of background music when an announcement is being made. A built-in MP3/WAV file player means that the MTX3 can play background music, scheduled announcements, or chimes, etc., without the need for external playback equipment.



Applications:



Retail Stores



Bars



Restaurants



Hotel Lobbies

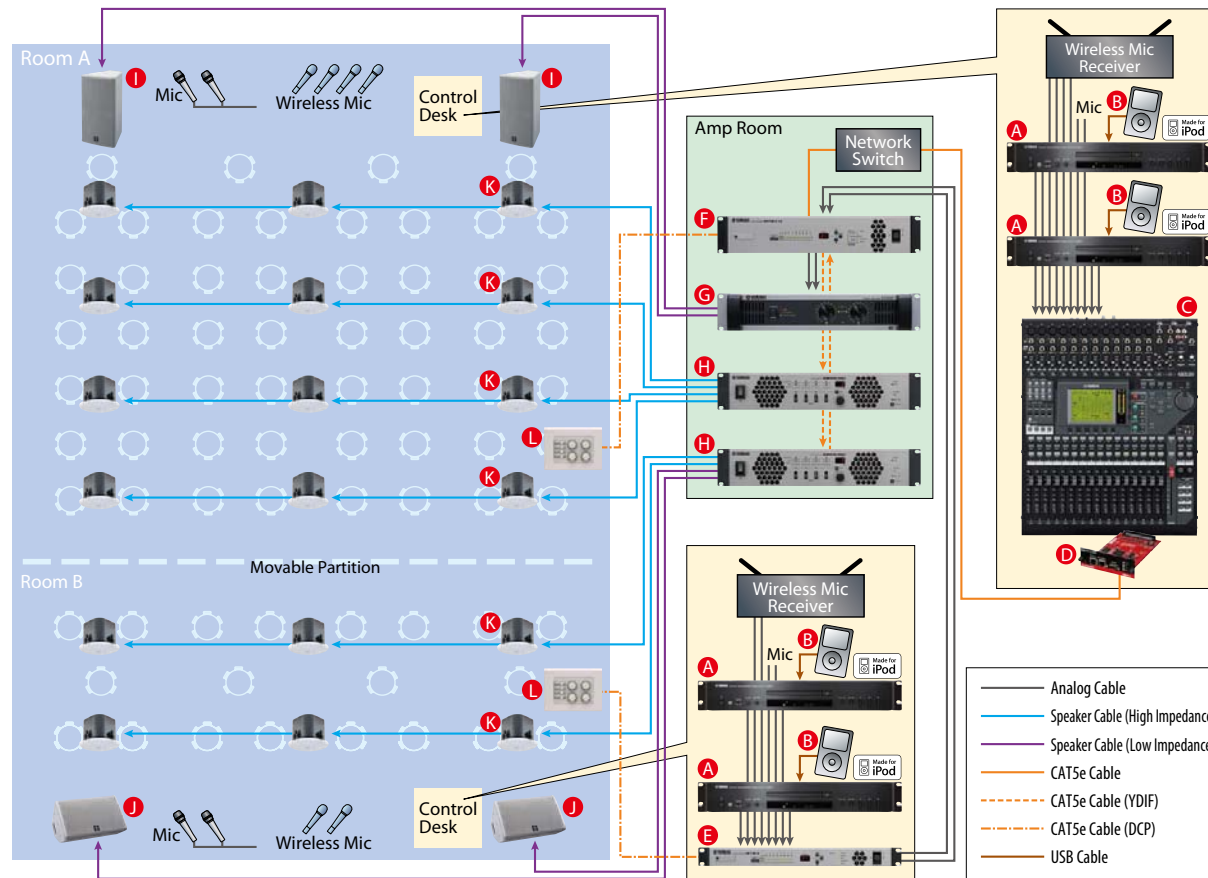
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Products List

(A)	CD Player	CD-C600RK
(B)	iPod or Other MP3/WMA Player	
(C)	Matrix Processor	MTX3
(D)	Power Amplifier	XMV4140
(E)	Power Amplifier	XMV4280
(F)	Surface Mount Speaker	VXS5W
(G)	Subwoofer	VXS10STW
(H)	Surface Mount Speaker	VS6W
(I)	Ceiling Speaker	VXC6W
(J)	Ceiling Speaker	VXC4W
(K)	Control Panel	DCP4V4S

Room Combining System

A digital matrix processor is used to serve a room that will be partitioned for many applications. Overall system routing and processing is handled by a single MTX5-D unit in the amp room. Wall-mounted DCP4V4S control panels are provided in both the Room A and Room B areas for convenient volume control and preset selection. Room A additionally features an 01V96i digital mixing console that can handle live music. Built-in delays allow the MTX5-D to precisely compensate for distance delay between speakers for clear, well-defined sound. Proper delay compensation also makes it possible to achieve optimum sound quality and imaging without having to use excessive volume levels.



Applications:



Banquet Halls



Multipurpose Rooms



Meeting Rooms

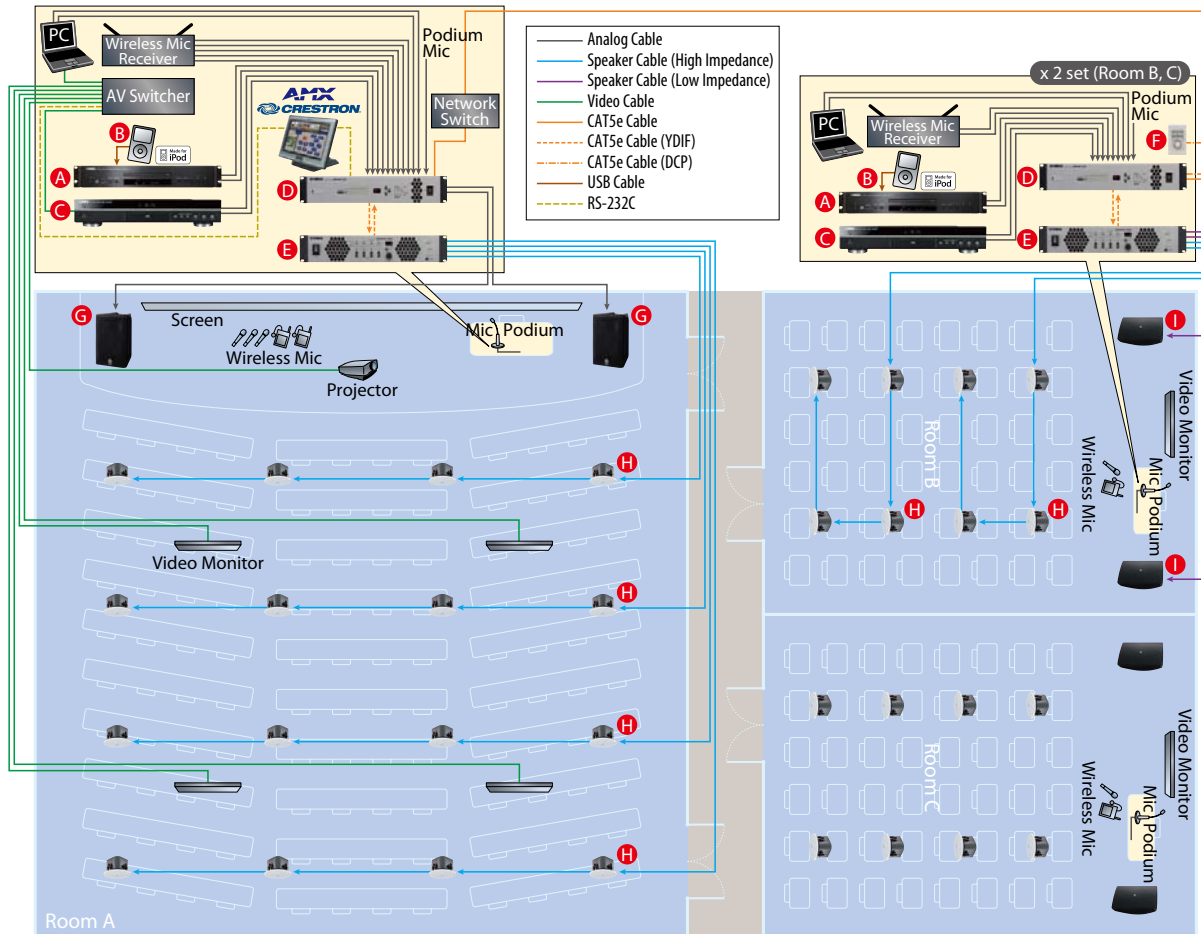
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Products List

(A)	CD Player	CD-S300RK
(B)	iPod or Other MP3/WMA Player	
(C)	Digital Mixing Console	01V96i
(D)	Dante Interface Card	DANTE-MY16-AUD
(E)	Matrix Processor	MTX3
(F)	Matrix Processor	MTX5-D
(G)	Power Amplifier	XP5000
(H)	Power Amplifier	XMV4280
(I)	Speaker	IF2112W
(J)	Speaker	IF2108W
(K)	Ceiling Speaker	VXC8W
(L)	Control Panel	DCP4V4S

Dante Networking System

A digital matrix processor is used to mediate Dante networking between room A and rooms B and C, allowing audio to be shared in a variety of ways. In addition to handling audio input and output for the rooms in which they are located, the MTX5-D units provide Dante network communication with the other rooms. An event taking place in Room A can be auditioned in Rooms B and C, and bidirectional communication means that questions and answers can be passed back and forth as well.



Applications:



Conference Centers



Lecture Hall & Classroom Complex



Corporate Facilities

etc...

Products List

(A) CD Player	CD-S300RK
(B) iPod or Other MP3/WMA Player	
(C) Blu-ray Disc Player	BD-S667
(D) Matrix Processor	MTX5-D
(E) Power Amplifier	XMV4280
(F) Control Panel	DCP1V4S
(G) Active Loudspeaker	DXR10
(H) Ceiling Speaker	VXC6W
(I) Surface Mount Speaker	VXS8

Matrix Processor

MTX Series

MTX3
MTX5-D 

The Heart of Your Sound Solution

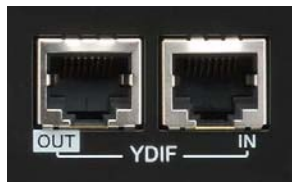
Designed primarily for multi-zone commercial installations, MTX Series matrix processors are equipped with flexible processing functions that are essential to a wide variety of applications such as retail stores, restaurant/bars or banquet rooms. Responsible for the primary processing functions at the heart of your system's design, MTX processors allow you to configure, program, and manage your entire sound solution via the intuitive interface of the accompanying MTX Editor software application. The series is comprised of two models with varying DSP capacities and expansion capabilities, allowing MTX processors to meet the demands of a truly impressive range of commercial environments.

The ideal Digital Signal Processor for small to mid-size commercial applications

MTX Series processors come equipped with a variety of programmable features designed to maximize the performance of sound systems in commercial installations. With a focus on reliability and worry-free operation, functions such as Feedback Suppressor can automatically locate and eliminate acoustic feedback, while Auto Gain Control maintains a constant output level when input signals vary. For ancillary applications or environments that require public speaking, MTX processors feature a Priority Ducker function which automatically attenuates the output level a specified amount when the input signal from a separate sound source exceeds its threshold— as well as an Ambient Noise Compensator which adjusts system gain to compensate for fluctuating background noise levels. Combined with an onboard speaker processor for optimized speaker performance and sound quality, the MTX Series makes it easy to design and configure a complete audio system from input to output.

Newly developed digital audio transmission format YDIF

MTX processors feature the newly developed YDIF digital transmission format; a unique proprietary Yamaha technology that delivers 16ch audio and word clock transmission via standard CAT5 Ethernet cable. YDIF can be used for cascading multiple MTX Series or for feeding audio signal to XMV Series power amplifiers with very simple cabling up to 30 metres.



Versatile Input/Output configuration and SD Memory Card Slot for playback

The MTX Series feature an input/output configuration that is ideal for a wide range of applications: 8 mono inputs (mic/line), 2 stereo inputs (line) and 16 digital inputs via YDIF. The output side consists of 8 line-level mono outputs and 16 digital outputs via YDIF. MTX processors also feature an SD Card Slot for playback of MP3/WAV files stored on an SD Memory Card. The Event Scheduler function allows you to play back these files as music, announcements or chimes—or even trigger external devices with a GPI output—at scheduled times, as well as recall presets stored within the MTX.



On-board Dante network port and MY card slot offer expandability for larger installations (MTX5-D only)

Dante is the latest audio network technology from Audinate, designed to deliver multi-channel, uncompressed, low-latency digital audio to multiple locations over relatively long distances. Equipped with an on-board Dante port, MTX5-D processors can send and receive up to 16 channels of digital audio using a single Ethernet cable. MTX5-D processors connect easily to other Dante-enabled devices such as CL Series mixers or XMV Series power amplifiers, making system design and configuration much simpler for larger venues. MTX5-D processors offer further expandability via a MY card slot—easily adopting many other digital network and audio formats or processing capabilities supported by MY cards.



Flexible external control

With DCP Series wall mount digital controllers, the MTX Series can control the volume and presets of multiple zones from remote locations. Up to eight DCP controllers can be linked together for a maximum of 200m length (the power is also fed through the cable) lending considerable flexibility to the installation process. The MTX Series is also equipped with a Network port that will offer compatibility with touch panel controllers such as AMX/Crestron with the release of version 1.1, as well as GPI ports for general controllers, while iPhone or iPod touch users can download the newly developed Wireless DCP app for remote control your sound solution using the simple, intuitive operation of your Apple device.



*Wireless DCP can be downloaded from Apple's App Store at no charge.
*Apple, iPhone and iPod are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

Two digital effect processors

The MTX Series comes equipped with two digital effect processors which are useful for entertainment applications— particularly party or banquet rooms. "Reverb" and "Echo" can be programmed easily using MTX Editor, eliminating the need for additional outboard gear.

Easy setup and parameter control with MTX Editor

MTX Editor is a software application that lets you to design your system and adjust parameter settings via an intuitive interface that follows a workflow based on the system's configuration. MTX Editor also features optimized parameter presets for specific models of Yamaha speakers to maximize their performance.



MTX3
MTX5-D



MTX3 Rear Panel



MTX5-D Rear Panel

Specifications

	MTX3	MTX5-D
Configuration	26 x 8 Matrix Mixer / Signal Processor	34 x 16 Matrix Mixer / Signal Processor
Sampling Frequency	48kHz	48kHz, 44.1kHz (only available when Dante or MY-Card slot is used for clock master)
Inputs	Analog	4 x Euroblock (6P, Balanced) 4 x RCA Pin Jack (for ST In 1,2)
	Digital	RJ45 for YDIF (16ch) RJ45 for Dante (16ch)
Outputs	Analog	4 x Euroblock (6P, Balanced)
	Digital	RJ45 for YDIF (16ch) RJ45 for Dante (16ch)
Control	8 x GPI Input 4 x GPI Output (Open Collector) Ethernet 100Base-TX	16 x GPI Input 8 x GPI Output (Open Collector) Ethernet 1000Base-T / Dante
		RS-232C DCP 1
SD Card Slot		1
Dimensions (W x H x D) / Weight	480 x 44 x 362mm (18.9" x 1.7" x 14.3") / 4.8kg (10.6lbs)	480 x 88 x 366mm (18.9" x 3.4" x 14.4") / 6.5kg (14.3 lbs)

Digital Control Panel DCP Series

DCP controllers provide flexible external control of several functions such as preset recall, levels, and SD card playback. Three different models comprise the series featuring various configurations of switches and volume knobs. All three models are available in either US or EU standardized sizes, built to meet the specifications of most regions around the globe.

DCP1V45-US

DCP45-US



DCP4V45-US

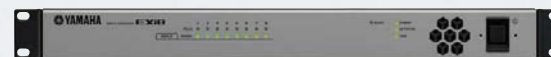


Input Expander/Output Expander EXi8/EXo8

YDIF equipped input and output expanders for MTX Series

EXi8 input expanders convert analog microphone/line audio to digital and transmits the signal using Yamaha's YDIF format. The EXi8's preamps can be controlled remotely from an MTX processor via Ethernet cable. EXo8 output expanders feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX Series processors via YDIF.

EXi8

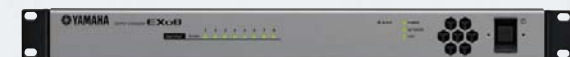


Front Panel



Rear Panel

EXo8



Front Panel



Rear Panel

MTX Editor

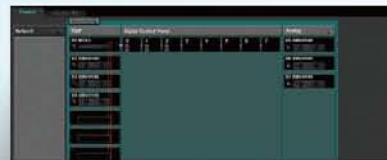
Fast and easy set up of your audio system with a single software application

MTX Editor allows you to design sound systems for small to mid-size installations built around MTX Series processors. With a workflow that closely emulates the actual physical configuration of an installation application, MTX Editor's wizard guides you through a simple yet thorough step process. What's more, in addition to the MTX Series, MTX Editor lets you incorporate EXi8 and EXo8 expanders, DCP Series digital control panels, and even XMV Series power amplifiers into your system and adjust parameter settings accordingly. With MTX Editor, you can design, configure and manage a complete installation audio system from microphones right through to speakers—with a single program.

The workflow of MTX Editor

Device Configuration

By simply following the instructions of the MTX Editor wizard, you can easily configure a complete sound system comprised of MTX Series matrix processors as well as XMV Series power amplifiers, DCP Series digital control panels or EXi8/ EXo8 expanders.



MTX Series parameter settings

Once your system is configured you can set the parameters for the MTX Series. The Main window gives you an overview of each channel's settings and the Channel Edit window lets you adjust each of the selected channel's parameters in detail.



Input Processing settings

By selecting GAIN/HPF/EQ you can adjust 3-Band PEQ settings for each input channel, as well as each microphone channels' HPF. GATE/COMP sets Gate and Compressor parameters and FBS/AGC features feedback suppressors that eliminate acoustic feedback, as well as the Auto Gain Control function that maintains a constant output level with input signals that vary in level.





Matrix/Priority Processing settings

In the matrix mixer, the input channels and output buses are arranged in a checkerboard configuration. You can adjust the group balance for each output bus, or use the faders to adjust the signal from all input channels to a specific matrix bus when Sends On Faders mode is enabled.



The signal from the matrix mixer is sent to 8 units of Priority Processor. Here, you can make detailed adjustments to the parameter settings of the Ducker function as well the Ambient Noise Compensator.



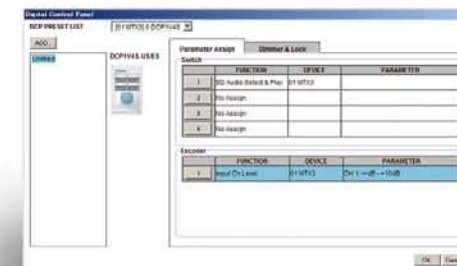
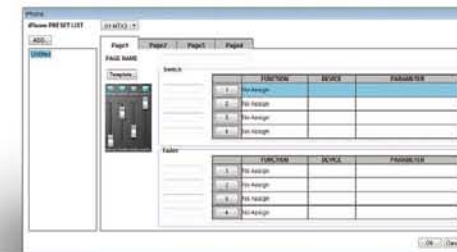
Output Processing settings

After Priority Processor settings have been applied, signals are sent to output channels through the Router. Each output channel is equipped with a 4 Band PEQ, Delay and Speaker Processor. The Speaker Processor has stored presets for a range of Yamaha speakers allowing you to easily select the optimum settings for the speakers in your system. Settings for 4-Band PEQ and Delay can also be adjusted to match the audio output with the acoustic characteristics of various installation environments.



External controller settings

MTX Editor can also be used to configure the settings of external controllers. MTX processing functions can be easily assigned to the switches and knobs of DCP Series wall-mounted controllers or to the dedicated iPhone/ iPod touch software application.



Power Amplifier

XMV Series

XMV4280 / XMV4140

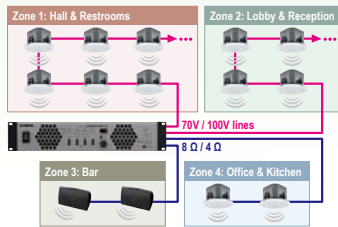
XMV4280-D / XMV4140-D 

A comprehensive line-up to power your sound solution

XMV Series multi-channel power amplifiers combine Class-D efficiency with features designed specifically to benefit commercial installation sound systems. The Series is comprised of 4 different models with varying output power capabilities and flexible in/out connectivity to accommodate a wide range of installation environments.

High impedance and low impedance ... or both

Installed sound applications often demand both high and low impedance connectivity in the same venue, requiring separate, dedicated amplifiers or an external transformer. XMV power amplifiers, however, can operate in both high-impedance (70V/100V line) or low-impedance (4Ω/8Ω) modes simultaneously, eliminating the need for additional equipment, as well as streamlining the installation process. XMV power amplifiers also enable both 70V and 100V operation for every pair of channels by simply selecting the preferred mode using the dip switches on the rear panel. High impedance operation often requires the use of two combined channels in bridge mode, but with XMV amplifiers, 70V or 100V mode can be assigned to every pair of channels without affecting the number of available output channels.



New "Double Power Mode"

The newly developed Double Power Mode function effectively doubles the output power of selected channels in order to drive speakers with higher output power. This means that speakers with varying output capacities can be powered simultaneously by the same amplifier, adding flexibility to system design and configuration.

*The number of channels that can be used will be reduced to half.



XMV4140

Selectable input formats for a wider range of applications

XMV amplifiers come equipped with either the newly developed YDIF digital audio format, or Audinate's digital audio network Dante. YDIF allows easy setup with the use of Ethernet cables while Dante models can be used for larger venues where long distant cabling is required.



A perfect match for the MTX Series

When XMV power amplifiers are used in systems with MTX series processors, settings such as the mute on/off or attenuator changes can be set via computer using the MTX Editor software application. YDIF and Dante ports make system configuration simple and fast with instant connectivity and flexible parameter control.



Best installation amp ever?

XMV amplifiers feature an innovative, new, patent pending circuit that improves the already highly efficient Class D circuit topology, bringing the efficiency level of the amplifier's output stage up to over 90%. This is achieved by automatically switching the circuit to match the corresponding output voltage. In high-impedance connections, both 70V and 100V operation can be achieved since the circuit is already capable of operating in high voltages. However, using the same circuit in low-impedance operation can mean excessive energy loss, so by automatically switching to a lower voltage drive, efficiency is improved significantly without sacrificing crucial aspects of the amp's performance such as keeping the distortion levels to a minimum.

XMV power amplifiers also feature a new switching power supply equipped with Power Factor Correction, which ensures harmonic control and decreases the amount of current draw dramatically, yet still maintains the same output power. This makes circuit breakers less prone to shutting down, as well as eliminating the need for thicker, heavier cables or a larger, more powerful system.

Protection features for more reliable operation

Automatic protection functions are an essential part of the XMV Series' design, ensuring peak performance and reliable operation in less than ideal situations. Low load impedance, overcurrent, and overheating can all damage vital amplifier components and threaten their ability to function effectively. To combat these hazards, XMV Series power amps feature powerful, intelligent protection functions that can deliver the assurance of long product life and consistent performance.



XMV4280-D
XMV4140-D



XMV4280
XMV4140



XMV4280 Rear Panel



XMV4140 Rear Panel



XMV4280-D Rear Panel



XMV4140-D Rear Panel

Specifications

		XMV4280	XMV4140	XMV4280-D	XMV4140-D
Output Power	1kHz, THD+N=1%				
	4Ω	4x 280W	4x 140W	4x 280W	4x 140W
	8Ω	4x 280W	4x 140W	4x 280W	4x 140W
	4Ω / Double Power Mode	2x 560W	2x 280W	2x 560W	2x 280W
	8Ω / Double Power Mode	2x 560W	2x 280W	2x 560W	2x 280W
High impedance	100V line	4x 250W / 40Ω	4x 125W / 80Ω	4x 250W / 40Ω	4x 125W / 80Ω
	70V line	4x 250W / 20Ω	4x 125W / 40Ω	4x 250W / 20Ω	4x 125W / 40Ω
Voltage Gain	RL=8Ω	31.7dB	28.7dB	31.7dB	28.7dB
	RL=8Ω / Double Power Mode	34.7dB	31.7dB	34.7dB	31.7dB
	100V	38.2dB	38.2dB	38.2dB	38.2dB
	70V	35.2dB	35.2dB	35.2dB	35.2dB
Input Sensitivity				+4dBu	
S/N Ratio	A-weighted			≥ 103dB	
Power Consumption	1/8 power (4Ω pink noise)	250W	150W	250W	150W
	Idle (4Ω)	37W	37W	37W	37W
	Standby	18.5W	18.5W	18.5W	18.5W
THD+N	1kHz, half power			≤ 0.1%	
Frequency Response	8Ω, 100V / 70V, Po=1W, 20Hz - 20kHz			0dB, ±1.0dB	
Crosstalk	1kHz, half power, 8Ω Att. max, input 150Ω shunt			≤ -60dB	
Maximum Input Level				+24dBu	
Input Impedance				20kΩ (balanced), 10kΩ (unbalanced)	
Connectors	Analog Input			2x Euroblock (6P, balanced)	
	Digital Input / Output		2x RJ45 (YDIF IN / OUT)	2x RJ45 (Dante PRIMARY / SECONDARY)	
	Speaker Output			4 pairs x Barrier strip	
	Network		1x RJ45		Shared with Dante ports
	Remote, Fault Output				1x Euroblock (3P)
	AC IN				1x AC Inlet
Load Protection		POWER switch on/off: Output mute, DC-fault: Power supply shuts down, Clip limiting			
Amplifier Protection		Thermal: Output mute (heatsink temp ≥90°C) (Restored automatically), Overcurrent: Output mute (Restored automatically), Low load impedance: Output mute (Restored automatically)			
Power Supply Protection		Thermal: Amplifier shuts down automatically (heatsink temp ≥100°C), Integrated power: Gain reduction (Restored automatically)			
Cooling Fan		2x 3-Speed fan, front-to-back airflow			
Power Requirements		100V, 120V, 230-240V; 50Hz/60Hz			
Dimensions (W x H x D) / Weight		480 x 88 x 422mm (18.9" x 3.5" x 16.6") / 8.1kg (17.9lbs)			

Ceiling Speaker / Surface Mount Speaker

VXC/VXS Series

VXC4(W) / VXC6(W) / VXC8(W)
VXS5(W) / VXS8(W) / VXS10S(W) / VXS10ST(W)

A versatile lineup for clear consistent sound

Yamaha designed the new VXC and VXS speakers to accommodate a growing list of applications in the installation market. While these speakers deliver quintessential Yamaha sound quality, they have also been carefully designed for safe and easy installation. Featuring both ceiling and surface mount options, these speaker series include a comprehensive range of models that are available in either black or white, or can be painted to match the interior of any application.

Pursuing the best sound for installation

We developed the VXC and VXS Series speakers to address a demand in the installation market for speakers capable of providing superb music reproduction as well as crystal clear announcements for public address applications. Both series feature newly customized transducers with large, powerful magnetic circuits that increase driving and braking force substantially, as well as dedicated tweeter diaphragms and speaker cone paper made from a carefully-created blend of materials that help optimize sound reproduction. Cabinets are built tough to meet the demands of a wide variety of commercial environments, constructed from a carefully selected plastic with just the right tensile strength, and designed with optimized bass-reflex tuning to offer a firm, tight low-end. From the networking components and the materials used for wiring and soldering, right down to the optimal placement of acoustic absorption material, a great deal of attention has been paid to even the smallest details of the series' design.

Speaker Design

Several aspects of these speakers' design reflect a strong emphasis on functionality as well as the aesthetic features of their construction—effectively enhancing sound quality and speaker performance without disturbing the interior décor of the installation. This concept is evident in the hexagonal design featured on the grille of both series' speakers that actually improves sound clarity by raising the aperture ratio. Similarly, the smooth curves of the surface-mount cabinet's simple yet sophisticated design allow the speakers to be mounted closely to the wall—while still fully capable of panning and tilting to target service areas. Even the innovative design of the VXC's tweeter improves sound clarity by providing unrestricted woofer movement.



VXC Series

Ceiling speakers for any application

The VXC Series offers three different woofer sizes, allowing you to choose the speaker that is most suitable for your venue. Each model has an internal transformer that allows both high and low-impedance drive with just a single speaker, simply by switching the tap on the baffle. Since a single speaker can be used for both operations, inventory control is simplified, and you can easily adapt your system to any changes.

VXS Series

Highly adaptable surface mount speakers

The VXS Series lineup features two full-range models and two subwoofers, allowing you to choose the optimal model for a particular application and, if necessary, combine it with a subwoofer for venues that require a stronger bottom end. VXS Series full-range models are equipped with internal transformers that allow them to operate at both high or low impedance simply by changing the tap on the rear of the speaker. Full-range models also offer IP45-rated protection, ensuring worry-free use in outdoor applications.





VXC Series

VXS Series

Safe, seamless installation

Series speakers' Anti-Drop tab allows them to be mounted temporarily in the ceiling, freeing your hands for better safety and ease of installation. An attached, flexible carrying band also makes the speakers very portable, allowing you to carry multiple speakers at once safely. Additionally, VXC Series speakers also come complete with O-rings and tile rails for a safer, smoother installation.



Anti-Drop tab

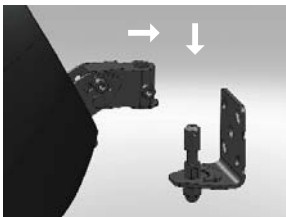
Specifications

	VXC4 / VXC4W	VXC6 / VXC6W	VXC8 / VXC8W
Speaker Type	Full-range, Bass-reflex	2-way, Bass-reflex	2-way, Bass-reflex
Components	LF HF	6.5" Cone 0.75" Soft dome	8" Cone 1" Soft dome
Coverage Angle ¹	130° conical	110° conical	100° conical
Nominal Impedance		8Ω	
Power Rating ²	NOISE PGM (1W, 1m)	30W 60W 88dB SPL	75W 150W 90dB SPL
Maximum SPL (Calculated, 1m)		109dB SPL	118dB SPL
Frequency Range ³ (-10dB)		80Hz - 20kHz	55Hz - 20kHz
Transformer Taps	100V 70V	30W / 15W / 7.5W 30W / 15W / 7.5W / 3.8W	60W / 30W / 15W 60W / 30W / 15W / 7.5W
Connectors	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)
Color (Grille)	VXC4: Black / VXC4W: White	VXC6: Black / VXC6W: White	VXC8: Black / VXC8W: White
Dimensions (Diameter x H)	Ø225 x 195mm (Ø8.9" x 7.7")	Ø286 x 204mm (Ø11.3" x 8.0")	Ø325 x 259mm (Ø12.8" x 10.2")
Weight	2.6kg (5.7lbs)	4.2kg (9.3lbs)	7.0kg (15.4lbs)
Included Accessories	O-ring, Tile Rail, Cutout Template, Screws, Owner's Manual	O-ring, Tile Rail, Cutout Template, Screws, Owner's Manual	O-ring, Tile Rail, Cutout Template, Screws, Owner's Manual

¹ 500Hz - 4kHz ² IEC ³ Half space

Flexible mounting for easier configuration

VXS speakers come with a dedicated bracket for safe, trouble-free speaker installation. Speakers can be mounted temporarily, freeing your hands to adjust mounting angles, which can now be configured consistently with ease thanks to the gear guides in the bracket connectors. Furthermore, the bracket base allows VXS Series speakers to be mounted on both walls and ceilings without the need to prepare a different set of brackets.



Specifications

	VXS5 / VXS5W	VXS8 / VXS8W	VXS10S / VXS10SW	VXS10ST / VXS10STW
Speaker Type	2-way, Bass-reflex	2-way, Bass-reflex	Subwoofer	Subwoofer
Components	LF HF	5.25" Cone 0.75" Soft dome	8" Cone 1" Soft dome	10" Dual Voice Coil
Coverage Angle	H x V 120 x 120	100 x 100		
Nominal Impedance		8Ω	8Ω + 8Ω	
Satellite Impedance				8Ω + 8Ω
Power Rating ¹	NOISE PGM (1W, 1m)	75W 150W 89dB SPL	90W 180W 93dB SPL	100W + 100W 200W + 200W
Maximum SPL (Calculated, 1m)		114dB SPL	119dB SPL	95dB SPL
Frequency Range ² (-10dB)		80Hz - 20kHz	55Hz - 20kHz	124dB SPL
Transformer Taps	100V 70V	30W / 15W / 7.5W 30W / 15W / 7.5W / 3.8W	60W / 30W / 15W 60W / 30W / 15W / 7.5W	50Hz - 180Hz 200W / 100W / 50W 200W / 100W / 50W / 25W
Connectors	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)	1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)	Input: 1x Euroblock (4P) (CH1: + / -, CH2: + / -) Satellite Output: 1x Euroblock (4P) (Out 1: + / -, Out 2: + / -)	Input: 1x Euroblock (4P) (Input: + / -, Loop Thru: + / -) Satellite Output: 1x Euroblock (4P) (Out 1: + / -, Out 2: + / -)
Environmental	IP45	IP45		
Color	VXS5: Black / VXS5W: White	VXS8: Black / VXS8W: White	VXS10S: Black, VXS10SW: White	VXS10ST: Black, VXS10STW: White
Dimensions (W x H x D)	176 x 280 x 163mm (6.9" x 11.0" x 6.4")	278 x 430 x 239mm (10.9" x 16.9" x 9.4")	260 x 500 x 372mm (10.2" x 19.7" x 14.6")	260 x 500 x 372mm (10.2" x 19.7" x 14.6")
Weight	3.5kg (7.7lbs)	6.0kg (13.2lbs)	19kg (41.9lbs)	20kg (44.1lbs)
Included Accessories	Wall / Ceiling mount bracket, Terminal cover	Wall / Ceiling mount bracket, Terminal cover	Wall mount bracket	Wall mount bracket

¹ IEC ² Half space

Seamlessly connect these, and other Yamaha products to expand your sound solution possibilities:

Compact Disc Player / Compact Disk Changer

CD-RK Series

2U rack-mountable CD players for commercial installations.



Mixing Consoles

MG Series

Whether you have a mixing application that involves only a few channels, or up to 32 inputs with a need for flexible signal routing, Yamaha's MG Series offer a console that will give you the capacity, control, and performance you deserve.



Digital Mixing Console

01V96i

Building on the proven configuration of its predecessors, the new 01V96i now offers USB 2.0 connectivity along with new multi-track recording features and improved sonic quality.



Digital Mixing Consoles

LS9 Series

Incredibly compact, lightweight digital live-sound consoles with recallable head amps, a built-in USB memory recorder/player, and stunning sound quality.



Mixing Consoles

MGP Series

From the preamps, EQ and effects to the Hybrid Channel functions and iPod/iPhone connectivity—every aspect, every feature, every sound, establishes the MGP as a premium mixing console in a class of its own.



Digital Installation Mixer

IMX644

A compact, easy operation digital rack mount mixer for installations. The IMX644 offers effective, error-free operation for inexperienced users as well as detailed setup and control capability for system integrators.



Power Amplifier

IPA8200

Highly efficient Class-D amplifier brings 8 x 200W/ch from a compact 2U body.

Digital Mixing Consoles

CL Series

Yamaha CL Series digital mixing consoles offer an evolved experience in accessible mixing, plus sonic purity with sound shaping capabilities that will give the most imaginative engineer unprecedented creative freedom.



Digital Mixing Engines

DME Series

These networkable DSP units offer an extensive range of signal processing capabilities, programmable via a comprehensive graphical interface.



Mini-YGDAI Cards

MY4-AEC
Acoustic Echo Canceller Card
for DME24N/64N

High performance conference system solution with Yamaha AEC technology.



Dugan-MY16
from Dan Dugan Sound Design

Fully automatic multi-mic mixing that delivers smooth, professional sound.



Power Amplifiers

XM Series

4-channel power amplifiers in two varying output power (XM4180: 180W/8 ohms, XM4080: 80W/8 ohms) that are an excellent choice for installations.

Power Amplifier

XH200

Compact, lightweight 200W + 200W distribution power amp for installed systems.

Power Amplifiers

XP Series

Five superb amplifiers optimized for installation use. Series is available in 5 models, ranging from 700W to 100W in stereo 8 ohms loads.



Active Loudspeakers

DXR Series

Offering superb high-definition sound and class-leading sound pressure levels—yet in a more compact and extremely functional design that provides a level of versatility unmatched by any speaker in its class today.



Active Loudspeakers

DSR Series

Next-generation active loudspeakers incorporating high performance DSP and all-new high power Class-D amplifiers with PFC switching mode power supply.



Active Subwoofers

DXS Series

A new line of compact, high output active subwoofers that match perfectly with DSR and DXR full-range active loudspeakers.

Loudspeakers

Installation Series

Favorites with discerning contractors and engineers, these speakers feature Uni-Phase design and matching sound - even between different models - for easy system setup and tuning.



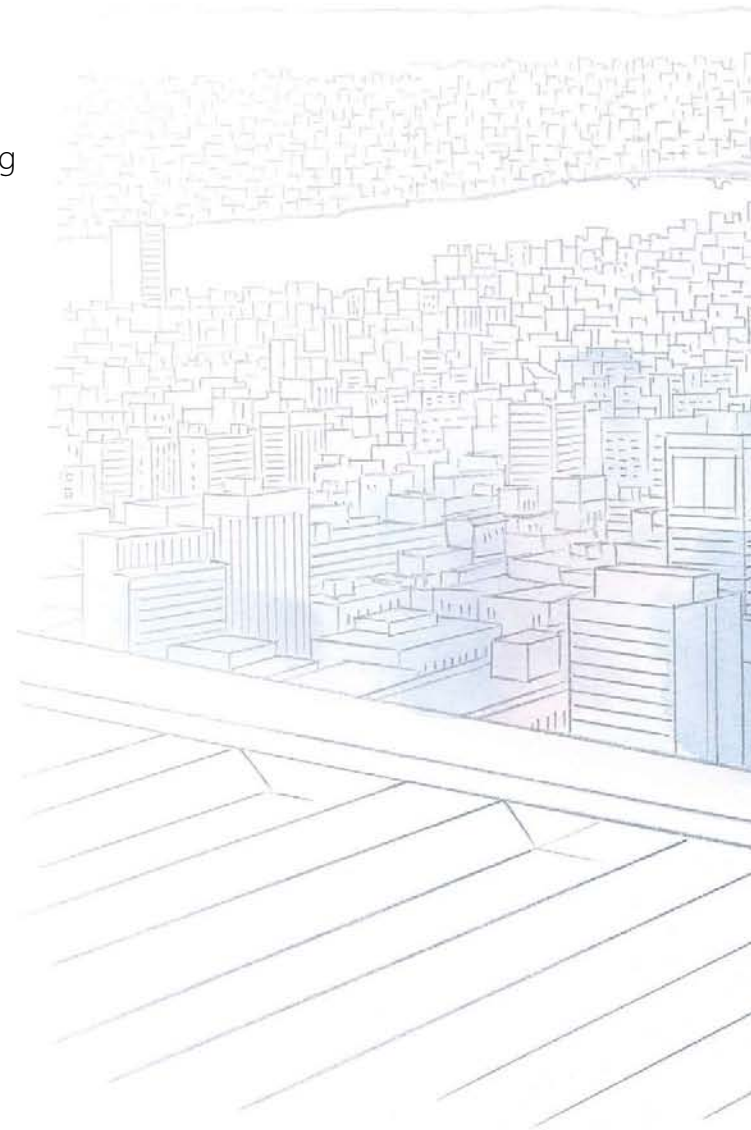
Surface Mount Speakers

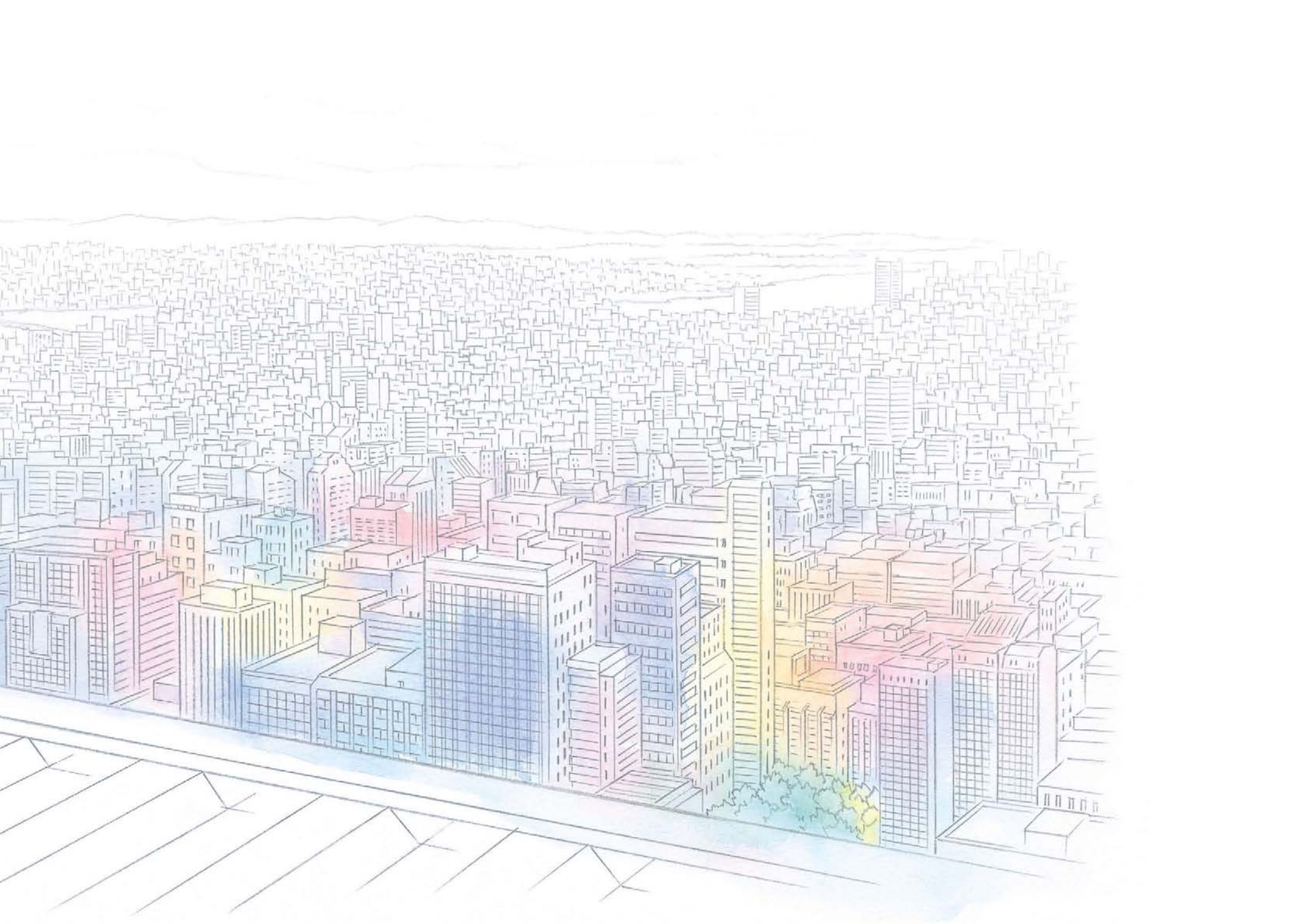
VS Series

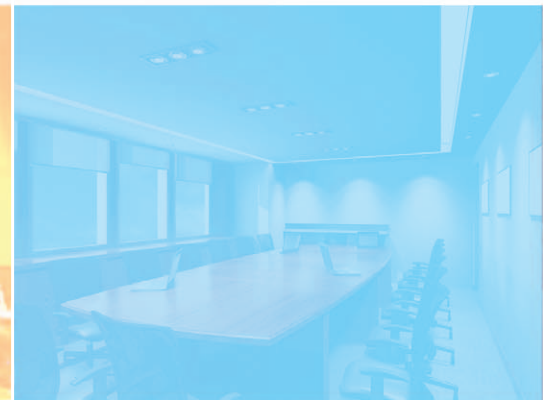
Compact indoor/outdoor speakers for background music or as part of a PA system for announcements.



As our first entry of full audio solutions geared toward the commercial installation market, this lineup of products symbolizes not only a fresh, new and efficient approach to installed sound, but a platform to build from in the years to come in order to meet the challenges and demands of a market that is constantly expanding and evolving. Through continued innovation and a growing foundation of high-quality, compatible products, we look forward to a future that will further engage and support our customers in the commercial installed sound market.







CREATING 'KANDO' TOGETHER

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