

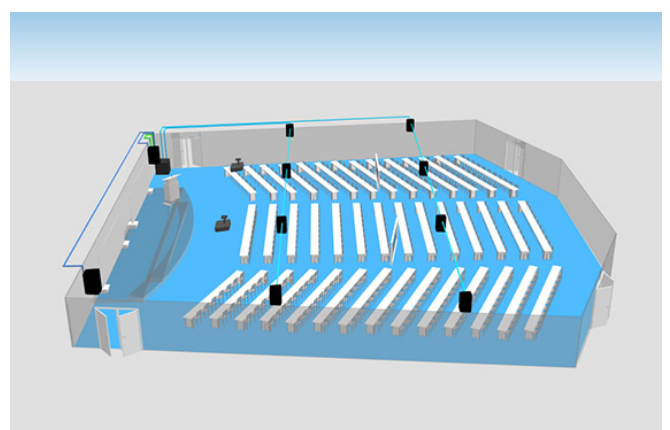
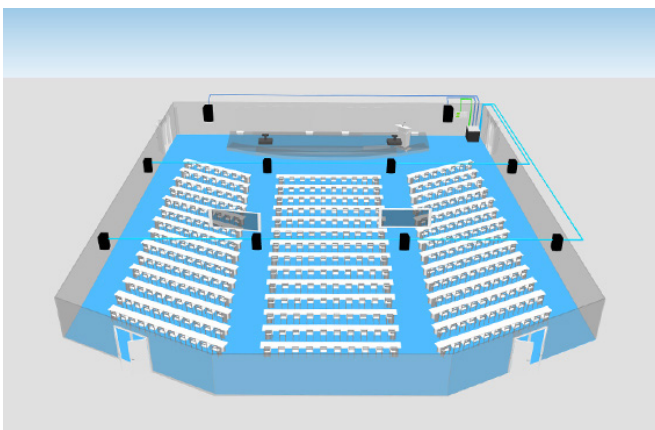
## High quality audio for lectures

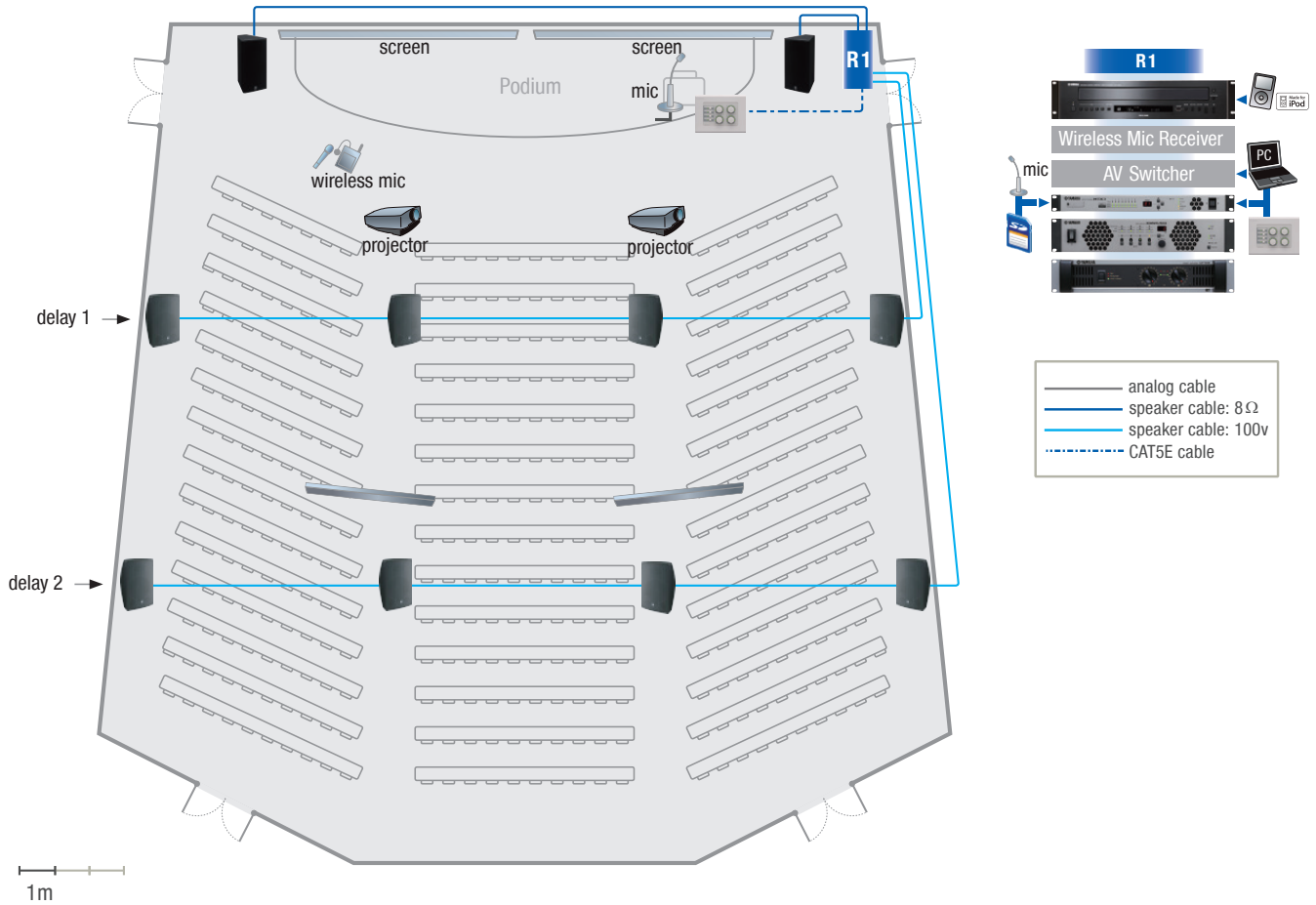
### System Overview

The time it takes for sound to travel from the front to the back of a large room like this causes a delay that can significantly reduce intelligibility. This situation can be improved by feeding the audio to speakers located at various points towards the back of the room with precisely calibrated delays so that all attendees, no matter where they are seated, receive consistently clear, well defined sound that can maximize concentration and make the program easier to absorb.

### Key Features

- Yamaha speakers are available in a range of sizes and power handling capacities: high power Installation Series speakers provide long-throw delivery, while compact VXS speakers are suited for support applications.
- MTX matrix processors feature powerful built-in signal processing capabilities for optimizing audio performance in a range of environments, including delays, speaker processing, EQ, and more.
- Source selection and volume adjustment can be easily carried out via DCP control panels.







## Component List


Name	IF2112/AS speaker	VXS8 speaker	DCP4V4S controller	XMV4280 amplifier	XP7000 amplifier
Qty	2	8	1	1	1
Name	MTX3 matrix	CD-C600RK CD player			
Qty	1	1			


## Cable List


Name	analog cable	speaker cable: 8Ω	speaker cable: 100v	CAT5E cable
Length	10m	30m	75m	10m


<b>IF2112/AS speaker</b>  	<b>Components</b> LF 12" woofer, 4" voice coil HF Rotatable constant directivity horn, 1.4" exit, 3" voice coil compression driver 60-100° x 60° (rotatable)
	<b>Coverage Angle</b> Nominal Impedance 8Ω <b>Power Rating (PGM)</b> Passive 1200W Bi-amp LF 1400W HF 220W <b>Sensitivity (1W,1m)</b> Passive 96dB SPL Bi-amp LF 96dB SPL HF 108dB SPL <b>Continuous SPL (calculated)</b> Passive 124dB SPL Bi-amp LF 124dB SPL HF 128dB SPL <b>Frequency Range</b> (-10dB) 50Hz-20kHz <b>Connectors</b> 2 x NL4 and barrier strip, wired in parallel <b>Dimensions</b> (W x H x D) 378 x 695 x 333mm (14.9" x 27.4" x 13.1") <b>Weight</b> 29.0kg (64lbs)


<b>XP7000 Power Amplifier</b>  	<b>Output Power</b> 8Ω 750W x 2 1kHz, THD+N = 1% 8Ω/ bridge 2200W 20Hz ~ 20kHz, 8Ω 700W x 2 THD+N = 0.1% 8Ω/ bridge (230V: 690W x 2) <b>Voltage Gain</b> 26dB/32dB RL=8Ω +4dBu position 35.7dBu +4dBu position +4dBu <b>Input Sensitivity</b> 120V/240V: +13.7 dBu RL=8Ω 26dB position 230V: +13.6dBu 120V/240V: +7.7 dBu 230V: +7.6dBu <b>S/N Ratio</b> 20Hz~20kHz, DIN AUDIO 104dB <b>THD+N</b> 20Hz~20kHz, 1/2 power, RL=4Ω Less than 0.1% <b>Maximum Input Level</b> +22dBu <b>Power Requirements</b> 120V, 220-240V; 50Hz / 60Hz <b>Dimensions (WxHxD)</b> 480 x 88 x 456mm (18-7/8" x 3-7/16" x 17-15/16") <b>Weight</b> 14kg (30.9lbs)
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<b>VXS8 speaker</b>  	<b>Speaker type</b> 2-way, Bass reflex <b>Components</b> LF 8" Cone HF 1" Soft dome <b>Coverage Angle (HxV)</b> 100° x 100° Nominal Impedance 8Ω <b>Power Rating (PGM)</b> 180W <b>Sensitivity (1W,1m)</b> 91dB SPL <b>Frequency Range</b> (-10dB) 51Hz - 20kHz <b>Connectors</b> 1x Euroblock (4P) (Input: + / -, Loop Thru: + / -) <b>Transformer Taps</b> 70V 60W (83Ω), 30W (170Ω), 15W (330Ω), 7.5W (670Ω) 100V 60W (170Ω), 30W (330Ω), 15W (670Ω) <b>Environmental</b> IP35 <b>Dimensions (W x H x D)</b> 278 x 430 x 239mm (10.9 x 16.9 x 9.4") <b>Weight</b> 8.2kg (18.1lbs)
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<b>MTX3 matrix</b>  	<b>Mixing Capacity</b> Mixing Channel : 8 Mono + 3 Stereo + 2 Effect Return + 8 Insert Output Busses : 8 Mono <b>Input CH Functions</b> Mono CH : 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor (only available in ch 1-4) Stereo CH: 3-band PEQ, Comp, Auto Gain Control 48kHz / 44.1kHz <b>Sampling frequency</b> <b>Signal delay</b> Less than 2.5ms (AD-DA @48kHz) <b>Frequency Response</b> 20Hz to 20kHz, +0.5dB, -1.5dB <b>Dynamic range</b> 107dB (Gain:-6dB) <b>Power Requirements</b> AC100V-240V; 50Hz / 60Hz <b>Dimensions (W x H x D)</b> 480 x 44 x 362mm (18.9" x 1.7" x 14.3") <b>Weight</b> 4.8kg (10.6lbs)
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<b>DCP4V4S controller</b>  	<b>Connectors</b> 2x RJ45 <b>Wiring</b> Max cable length up to 200m, Up to 8 controllers per 1MTX with CAT5 cable <b>Control</b> RS485, Power over Ethernet <b>Dimensions (WxHxD)</b> US: 162 x 120 x 47mm (6.4 x 5.5 x 1.9") EU: 147 x 86 x 47mm (5.8 x 3.4 x 1.9") not including wall box <b>Weight</b> US: 235g (0.52lbs) EU: 175g (0.39lbs)
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<b>CD-C600RK CD player</b>  	<b>Frequency Response(±0.5dB)</b> 20Hz-20kHz <b>Harmonic Distortion+Noise</b> ≤0.003% <b>Signal-to-Noise Ratio</b> ≥105dB <b>Dynamic range</b> ≥96 dB <b>Output Level (1kHz, 0dB)</b> 2±0.3V <b>Dimensions (W x H x D)</b> 480 x 116 x 405mm (18.9" x 4-5/8" x 16") <b>Weight</b> 6.9kg (15.2lbs)
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<b>XMV4280 Amplifier</b>  	<b>Output Power</b> 4Ω / 8Ω 280W x 4 1kHz, THD+N = 1% 4Ω/ Double Power Mode 560W x 2 8Ω/ Double Power Mode 560W x 2 100V line/70V line 250W x 4 <b>High impedance Voltage Gain</b> RL=8Ω 31.7dB RL=8Ω/Double Power Mode 34.7dB 100V 38.2dB 70V 35.2dB RL=8Ω +4dBu <b>Input Sensitivity</b> ≥100dB <b>S/N Ratio</b> A-weighted ≤0.2% <b>THD+N</b> 1kHz, half power 0dB, ±1.0dB <b>Frequency Response</b> RL=8Ω, 100V/70V, Po=1W, 20Hz - 20kHz <b>Maximum Input Level</b> +24dBu <b>Power Requirements</b> 100V, 120V, 230V-240V; 50Hz/60Hz <b>Dimensions (WxHxD)</b> 480 x 88 x 422mm (18.9" x 3.5" x 16.6") <b>Weight</b> 8.1kg (17.9lbs)
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