High quality audio for presentations

System Overview

One of the main requirements for this application is that the audio system should be flexible enough to adapt to the needs of various events that are held at the facility. For presentations, speakers on either side of the main screen provide the main sound at the front of the room while ceiling speakers provide reinforcement throughout the room. The ceiling speakers also provide uniform sound distribution for BGM.

Key Features

- Settings for a variety of applications can be preset in the MTX matrix processor and easily recalled via the DCP control panel switches when needed.
- The MTX processor also includes an Auto Gain Control function that automatically adjusts the volume levels of different sources so that they are consistent, a Priority Ducker function that automatically reduces the music level when microphone input is detected, and more.
- The XMV power amplifier can simultaneously drive low and high impedance speaker systems, occupying a minimum amount of rack space in systems that use both types of speaker systems.
### Component List

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<th>Name</th>
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<tr>
<td>IF2108 speaker</td>
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<td>DCP4V4S controller</td>
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<td>XMV4280 amplifier</td>
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<td>MTX3 matrix</td>
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<td>CD-C600RK</td>
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### Cable List

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<td>speaker cable: 100v</td>
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<td>CAT5E cable</td>
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<td>10m</td>
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### VXC8 ceiling speaker
- **Speaker type**: 2-way, Coaxial type, Acoustic suspension
- **Components**
  - **LF**: 8” Cone
  - **HF**: 1” Soft dome
- **Nominal Impedance**: 8Ω
- **Coverage Angle**: 100° conical
- **Power Rating**: 180W
  - **Nominal SPL**: 90dB
  - **Frequency Range**: 55Hz - 20kHz
- **Connectors**: 1x Euroblock (4P) (Input: + / -, Loop Thru: + / -)
- **Transformer Taps**:
  - 60W (83Ω), 30W (170Ω), 15W (330Ω), 7.5W (670Ω)
- **Dimensions**: Ø325 x 295mm (Ø12.8 x 11.6”)
- **Weight**: 6.6kg (14.6lbs)

### IF2108 speaker
- **Components**
  - **LF**: 8” woofer, 2” voice coil
  - **HF**: Rotatable constant directivity horn, 1.7” voice coil compression driver
- **Nominal Impedance**: 8Ω
- **Power Rating**: 200W
  - **Continuous SPL**: 115dB
  - **Frequency Range**: 55Hz - 19kHz
- **Connectors**: 2x RL4 and barrier strip, wired in parallel
- **Dimensions**: 283 x 448 x 250mm (11.1” x 17.6” x 9.8”)
- **Weight**: 14.0kg (31.0lbs)

### DCP4V4S controller
- **Connectors**: 2x RJ45
- **Wiring**: Max cable length up to 200m, Up to 8 controllers per 1MTX with CAT5 cable
- **Control**: RS485, Power over Ethernet
- **Dimensions (WxHxD)**: 480 x 44 x 362mm (18.9” x 1.7” x 14.3”)
- **Weight**: 4.8kg (10.6lbs)

### XMV4280 Amplifier
- **Output Power**: 4Ω / 8Ω
  - 4kHz, THD+N = 1%
    - 4Ω: Double Power Mode 280W x 4
    - 8Ω: Double Power Mode 560W x 2
- **High Impedance**: 100V line/70V line
  - 250W x 4
- **Voltage Gain**: RL=8Ω
  - 31.7dB
- **High Sensitivity**: RL=8Ω
  - 34.7dB
  - 100V
  - 39.2dB
  - 70V
  - 35.2dB
- **Input Sensitivity**: RL=-8Ω
  - A-weighted
  - ≥100dB
- **THD+N**: 1kHz, half power
  - 20kHz-2kHz
  - ≤0.2%
- **Frequency Response**: RL=8Ω, 100V/70V
  - 0dB, ±1.0dB
- **Maximum Input Level**: +24dBu
- **Power Requirements**: 100V, 120V, 230V-240V; 50Hz/60Hz
- **Dimensions (WxHxD)**: 480 x 88 x 422mm (18.9” x 3.5” x 16.6”)
- **Weight**: 8.1kg (17.9lbs)

### MTX3 matrix
- **Mixing Capacity**: Mixing Channel : 8 Mono + 3 Stereo + 2 Effect Return + 8 Insert
  - 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
  - Less than 2.5ms (AB-DA @48kHz)
  - 107dB (Gain: -6dB)
  - AC100V-240V; 50Hz / 60Hz
- **Dynamic range**: 40dB (1kHz, ±3dB)
- **Output Level**: 480 x 44 x 362mm (18.9” x 1.7” x 14.3”)
- **Weight**: 4.8kg (10.6lbs)

### CD-C600RK CD player
- **Frequency Response**: 20Hz-20kHz
  - ≤0.003%
  - ≥105dB
  - ≥96 dB
- **Signal-to-Noise Ratio**: 48kHz / 44.1kHz
  - 2±0.3V
- **Dimensions (WxHxD)**: 480 x 116 x 405mm (18.9” x 4-5/8” x 16”)
- **Weight**: 6.9kg (15.2lbs)