

Guide to Patching Instruments and P16 Personal In-Ear Monitors on Stage

Stage Setup Overview

Each campus stage is equipped with:

1. **Floor Boxes:** Labeled alphabetically (A, B, C, etc.), each containing:
 - Female XLR inputs labeled numerically with "IN" (e.g., IN01, IN02).
 - Ethernet ports labeled NET followed by a number (e.g., NET01, NET02).
 2. **Patch Bay:** Located in a rack, the patch bay includes:
 - **XLR Return Plate:** Organized by floor box labels (A, B, C, etc.) with corresponding input numbers.
 - **Ethernet Patch Panel:** For floor box ethernet returns, labeled A01, B02, C03, etc.
 - **Soundboard Inputs:** A labeled plate with input numbers and instrument/mic names, mapped to the X32 console via AES50.
 - **P16 Ethernet Connections:** A P16D unit with eight outputs labeled P16, linked to an external plate with eight labeled jacks.
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Patching Instruments and Microphones

1. **Connect to the Floor Box:**
 - Plug the instrument or microphone into the pre-planned XLR input on the designated floor box.
 - Example: If the keyboard is assigned to **Box C IN03**, plug the keyboard cable into that port.
2. **Patch to the Soundboard:**
 - At the patch bay, locate the **XLR Return Plate** for the corresponding floor box (e.g., "C" for Box C).
 - Identify the output labeled with the input number (e.g., C IN03 for the keyboard).
 - Connect an XLR cable from the identified output (C IN03) to the input on the **Soundboard Plate** labeled "KEYS."
 - Repeat for all instruments and microphones according to the pre-planned patching assignments.
3. **Verify the Connections:**
 - Check that all connections are secure and that each input corresponds to its designated channel on the soundboard.

Patching P16 Personal In-Ear Monitors

1. **Connect to a Floor Box:**
 - Plug the P16 ethernet cable into the designated NET port on the appropriate floor box.
 - Example: If the P16 is assigned to **Box A NET01**, plug it into that port.
2. **Patch to the P16D Unit:**
 - At the patch bay, locate the **Ethernet Patch Panel** for the corresponding floor box (e.g., A01 for Box A NET01).
 - Connect an ethernet cable from the identified port (A01) to any available P16 port on the P16D unit.
3. **Distribute P16 Outputs:**
 - Ensure that the P16D outputs are routed to the stage via the labeled P16 jacks on the external plate.
4. **Verify the Connections:**
 - Check that all P16 units are receiving signal and that the routing corresponds to the assigned inputs.

Key Notes for Setup

1. **Floor Box Assignments:**
 - Ensure all instruments and microphones are plugged into their pre-assigned floor box and input numbers.
2. **Soundboard Labeling:**
 - Match the XLR patching at the patch bay to the labeled input names on the soundboard plate (e.g., KEYS, ACOUSTIC, DRUMS).
3. **Consistency Across Campuses:**
 - While specific labels may vary slightly, the process for patching and routing is the same at all campuses.
4. **Troubleshooting Tips:**
 - Double-check all connections if an input is not registering.
 - Ensure that P16 units are patched correctly to both the NET port on the floor box and the P16D unit.

Example Patching Scenarios

Keyboard Setup:

1. Connect the keyboard to **Box C IN03**.

2. At the patch bay, plug an XLR cable from **C IN03** to the **KEYS** input on the Soundboard Plate.

P16 Setup:

1. Plug the P16 into **Box A NET01**.
2. At the patch bay, connect an ethernet cable from **A01** to a P16 output port on the P16D.