Three Example “Mobile” Devices Brought Into Classroom By Instructor (only one gets connected at a time):

- Laptop w/HDMI & Wifi
- Laptop w/VGA
- VCR (or other legacy device)

LEGEND

Locations (typ.):
@Ceiling  @Wall  @Mobile

Cabling / Connectivity:
- Power
- AV (Cat6a STP)
- Network (Cat6)
- Control cabling
- PowerStrip
- AMX Input Connection Plate and AV Transmitter
- DX-TX-WP
- Laptop w/VGA
- VCR (or other legacy device)
- Network Jack
- AMX MCP-106 Control Pad
- Network Switch
- DX-RX AV Receiver
- Network (+POE) Injector
- High Power POE Injector
- PowerStrip
- PowerStrip*
- Projector (or other HDMI capable display)
- UNI-Mount Audio Amplifier
- UNI-Mount Speaker
- Motorized Screen

*Note: Install this PowerStrip on extension-arm, with power switch by hole for easy access to reset it.
AMX MLC-106BL-P Front View with Button Assignments

Button Functions:

PROJ ON
Turns on projector

PROJ OFF
Turns off projector

PIC MUTE
Blanks projected image temporarily

VOLUME (Up & Down)
Adjusts audio output level

SOURCE
Resets projector to correct input
HD Plug-And-Play Classroom Wiring Paths: AV Run Above Ceiling*

*Note: Exact equipment wiring path and location may differ by classroom.

**LEGEND**

- **Equipment:**
  - Vendor Furnish & Install
  - GC F. & I. (General)
  - GC F. & I. (Mount System)
  - GC F. & I. (Wiremold)

- **Cabling / Connectivity:**
  - HDMI or DVI
  - Power cabling
  - AV (Cat6a STP)
  - Stereo-Audio
  - Network (Cat6)
  - Speaker
  - Control cabling

TLC Classroom Technology Diagram
West Virginia University
June 20, 2018
HD Plug-And-Play Classroom Wiring Paths: AV Run Across Wall*

*Note: Exact equipment wiring path and location may differ by classroom.

LEGEND

Equipment:
- Vendor Furnish & Install
- GC F. & I. (General)
- GC F. & I. (Mount System)
- GC F. & I. (Wiremold)

Cabling / Connectivity:
- Power cabling
- AV (Cat6a STP)
- Network (Cat6)
- Control cabling
- HDMI or DVI
- Stereo-Audio
- Speaker

TLC Classroom Technology Diagram
West Virginia University
June 20, 2018
HD Plug-And-Play Classroom Installation Guide

Before

- Determine if room orientation will change (GC)
- With Owner, determine best locations for equipment (GC)
- Install short-throw projector mount, set aside electronics for AV installer (GC)
- Install HD motorized hanging projection screen (GC)
- Install wire-mold from instructor station (control & input panels) to projector mount (GC)
- Provide new power & network (GC)
- Install, connect, configure, and confirm functionality of audiovisual equipment (AV Installer)

During

After

TLC Classroom Technology Diagram
West Virginia University
March 13, 2018
HD Plug-And-Play Classroom Installation Example (Armstrong Hall 112)

Before...

After...

Mounted panels for input connectivity, control, power, and network

Cables ran above drop ceiling

Installed wiremold

Mounted short-throw projector wall mount system close to ceiling

Upgraded projection screen to motorized widescreen

Mount HDMI Adapter Ring under Input Panel

TLC Classroom Technology Diagram
West Virginia University
June 20, 2018