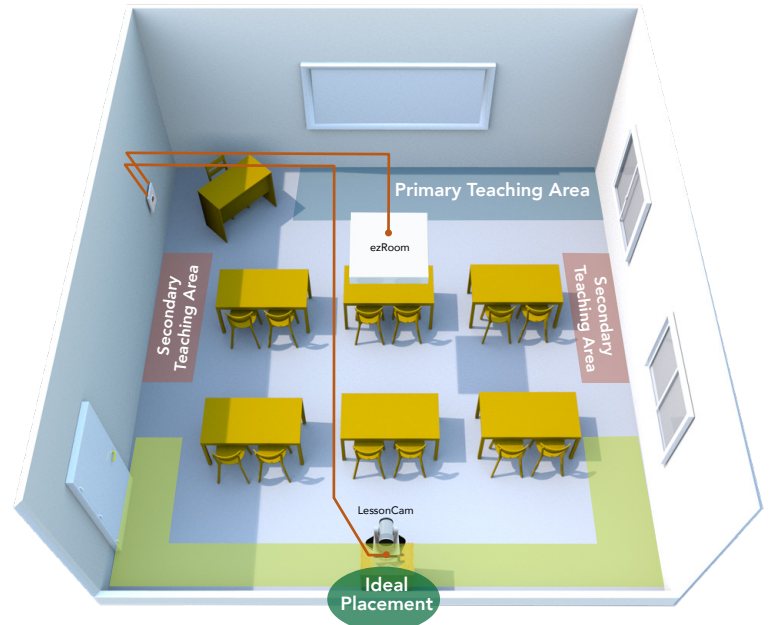


1. Place

For most standard classrooms, the ideal spot will be centered at the back of the room. This allows ideal viewing angle for most teaching.

The camera can pan/tilt/zoom, so consider how secondary teaching areas will be viewed when placing the LessonCam.

If the teacher microphone frequently cuts off when moving about the room, an external ceiling/wall sensor may be required. The sensor plugs into the back of the Juno and should be placed above/near the primary teaching location.



Place the camera on the back wall to capture the whiteboard centered, as well as all teacher areas.

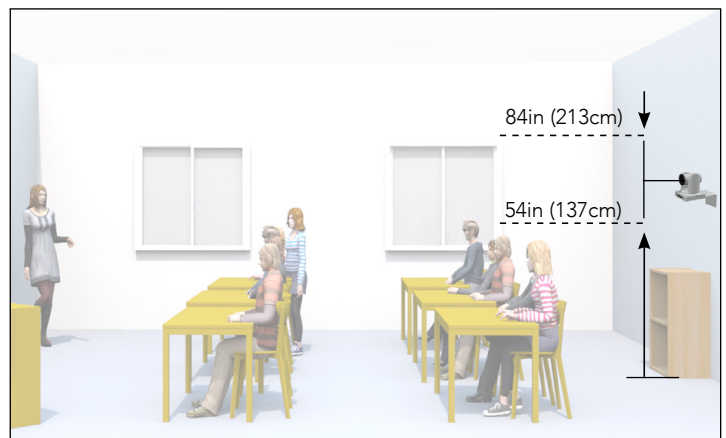
2. Mount

Camera height should provide the most unobstructed view possible. Typically, between 54in (137cm) and 84in (213cm) from floor.

3. Connect

The LessonCam must connect directly to the teacher's computer. Install the dual USB wall plate by the teacher's desk, and connect the camera to the wall plate using the 50 ft USB cable. Connect the other 50 ft USB cable to the USB connector in the ezRoom enclosure.

Important: Disconnect all other USB cameras from the teacher's computer during LessonCam installation and initial power-up.



4. Download



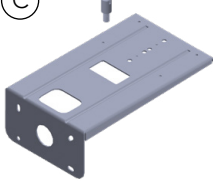
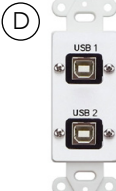








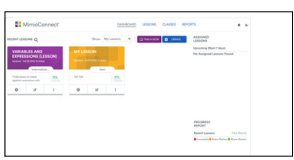
Download and install FrontRow LessonCam software on the teacher's computer. LessonCam software is free and can be found at:

<https://www.gofrontrow.com/support/software-downloads/>

If the camera is connected properly and you receive an error code upon startup, click "Tutorials" to access the LessonCam User Guide and additional installation tips and troubleshooting.

Activate your MimioConnect license using the enclosed license keys and start creating lessons and presenting video classes!

LessonCam Parts List

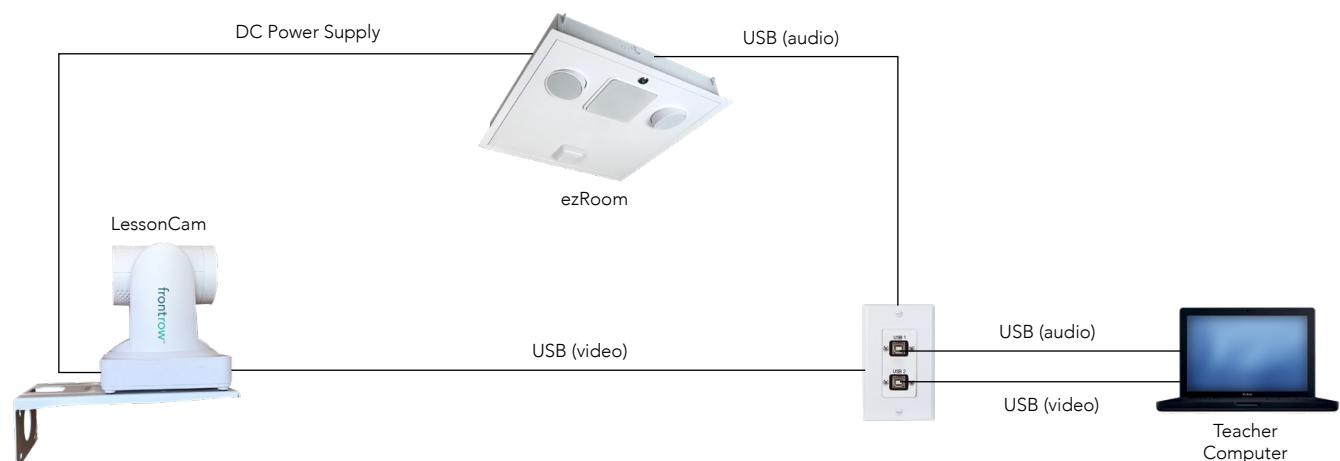
- | | | | | | |
|---|--|--|--|--|---|
| <p>(A)</p>  <p>LessonCam PTZ Camera</p> | <p>(B)</p>  <p>LessonCam Power Supply
(Total length- 8ft)</p> | <p>(C)</p>  <p>Wall Mount Bracket
with cable openings
and locking pin</p> | <p>(D)</p>  <p>Dual USB Decora
Wall Plate</p> | <p>(E)</p>  <p>Single-Gang Wall
plate cover</p> | <p>(F)</p>  <p>Two (2) 50ft/15m
Plenum-rate USB
cables (with active
electronics)</p> |
| <p>(G)</p>  <p>4 Port USB 2.0 Hub</p> | <p>(H)</p>  <p>USB to RS232 DIN8
Connector Cord</p> | <p>(I)</p>  <p>USB Type A to Type A
Connector Cord</p> | <p>(J)</p>  <p>Two (2) 13ft/4m
USB Type A to Type B
Cables</p> | <p>(K)</p>  <p>Cable Ties</p> | <p>(L)</p>  <p>Double Stick Foam</p> |
| <p>(M)</p>  <p>License Keys
License keys for MimioConnect Classroom and Pro.
LessonCam software does not require a license key but
only works with FrontRow LessonCam.</p> | | | | | |

Wiring & Installation

Option 1: Run power above ceiling

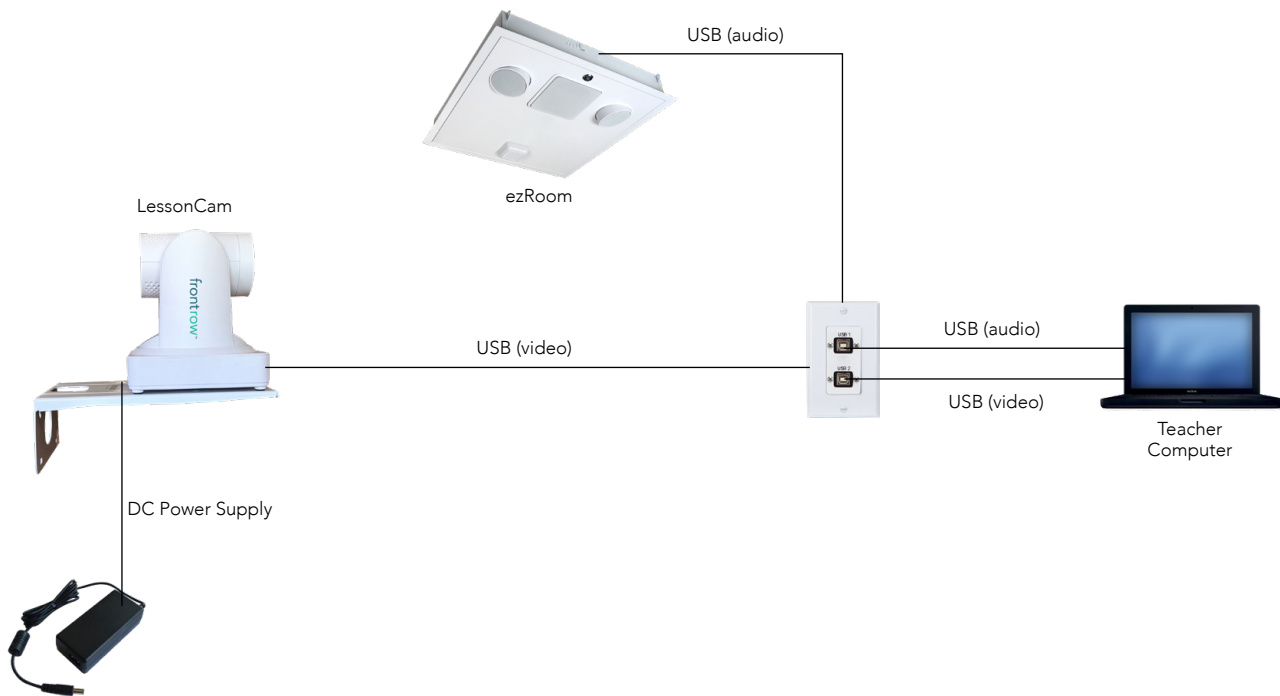
You can extend the DC power cable as needed and hang above the ceiling tiles, connecting the power supply to the extra outlet socket in the ezRoom. Then run the power line down the wall (via raceway or conduit) to a passthrough plate behind the camera. This provides the cleanest look.

IMPORTANT: The included power supply DC cable is not plenum rated. If installing in plenum spaces you must use plenum rated jacketed wire of 16AWG or better.



Option 2: Install using a wall outlet

You may also connect the camera to the power supply plugged into a nearby wall outlet. Cover the power cable using raceway or run behind the wall to a pass-through wall plate for a cleaner look.



1. Install the ezRoom

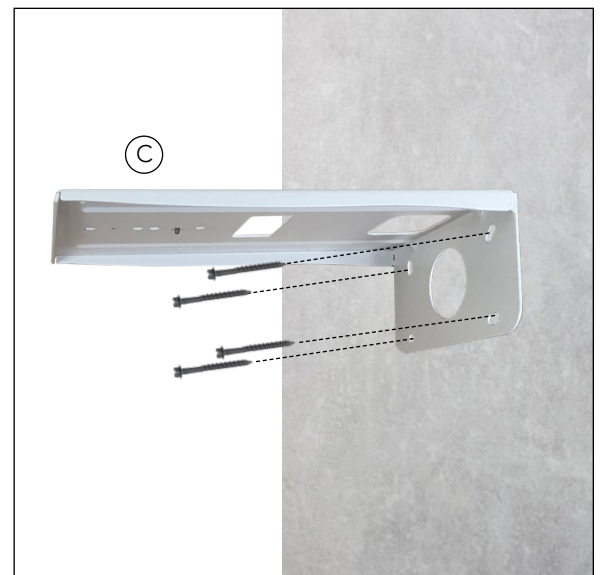
See the *ezRoom Installation Guide* for information on securing the ezRoom enclosure and making connections to devices. Your ezRoom may be an ELEVATE system, SmartIR system, or an audio only (no voice) ezRoom.

NOTE: The LessonCam Kit requires that the ezRoom have the preinstalled Class2Home cable kit (not included) so that the audio path over USB can be connected to the CM900 or ICR-01 amplifier in your ezRoom.

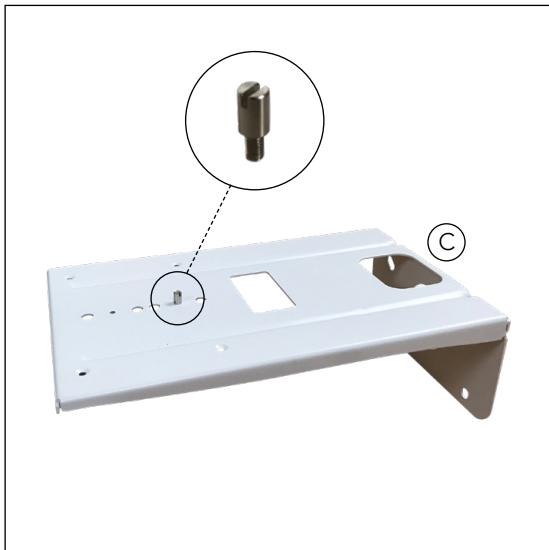
2. Install and Connect the LessonCam

- Select the desired location for the camera.
- If running cables behind sheet rock, cut an opening for the USB cable and optionally, the power cable. (The metal bracket (C) will cover the hole, or use a pass-through cover plate.)
- Pull a 50ft USB cable (F) between the wall plate location and the camera location. The Type A side should be at the wall plate and the Type B side at the camera location.
- Install power in either the ezRoom or a nearby outlet as indicated in the diagrams above, and run the DC power line to the LessonCam.
- Attach the bracket (C) to the wall (hardware not included). Concrete recommended. If using sheet rock, it is recommended you install a wooden extension to one of the studs so that ALL FOUR of the wall bracket mounting holes are secured into wood. Drywall butterfly bolts and plastic anchors are not recommended.

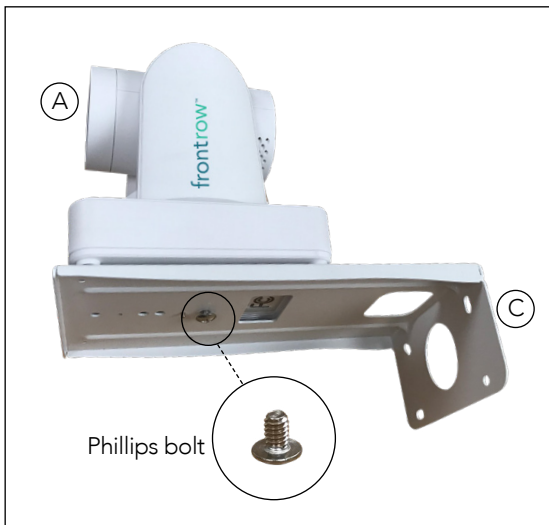
FrontRow is not responsible for damage or injury due incorrect or poor installation.



- f. Insert the locking pin into the metal bracket (C).



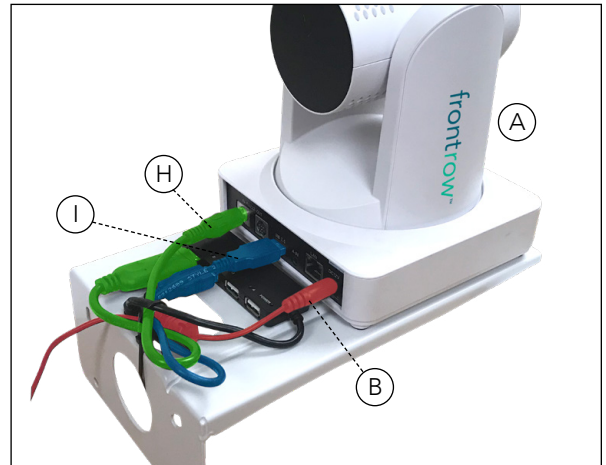
- g. Place the camera (A) on the bracket (C), fitting it over the locking pin. Then secure with the Phillips bolt.



- h. Secure the USB hub (G) to the bracket (C) using the double-sided foam tape (L).



- i. Connect the USB to RS232 cable (H) and USB to USB cable (I) from the USB hub (G) to the camera (A).
- j. Connect the 50ft USB cable (F) to the Type B female connector on the USB hub (G).
- k. Secure the USB cables with a cable tie (K).
- l. Connect DC power from power supply (B) to the camera (A).



3. Install and Connect the USB Wall Plate

- Select a location near the teacher's desk for the USB wall plate (D). Consider if you are combining this with other wall plates or control panels such as the CB55.
- Cut an opening in the sheet rock of appropriate size.
- Install low voltage back box or mud ring if necessary (not included).
- Pull one 50ft USB cable (F) from the ezRoom to the wall plate opening. The Type A connector should be on the wall plate side.
- Connect the USB cables (F) to the USB wall plate (D) and secure to the wall. Cover with the Decora cover plate (E).

4. Connect to the Teacher Computer and test

- Connect the wall plate (D) to the teacher's computer using the two USB cables (J).
- Follow the instructions in the *LessonCam User Guide* to complete setup and test your audio and video settings to ensure audio and video are passing correctly, and you can control the camera.

<https://www.gofrontrow.com/support/user-guides/>

Optional: Create LessonCam presets as described in the user guide that position the camera at the main learning areas of the room.

Most importantly: Train the teacher, or make sure someone does!