

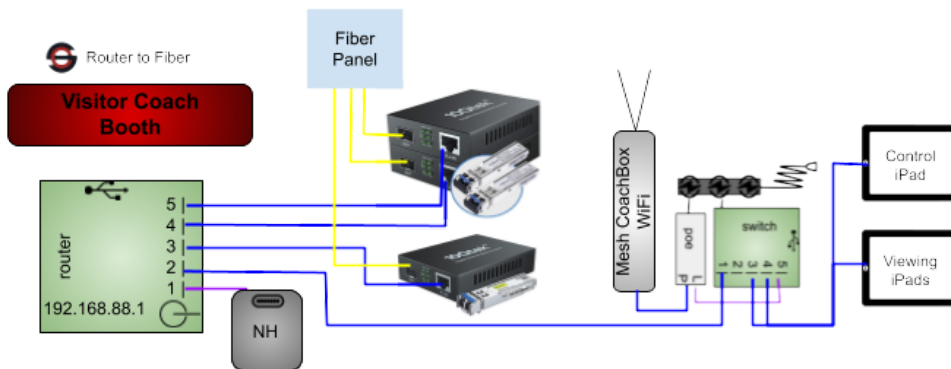
## SkyCoach Capture at Cameras using Fiber

### Visiting Coach Room

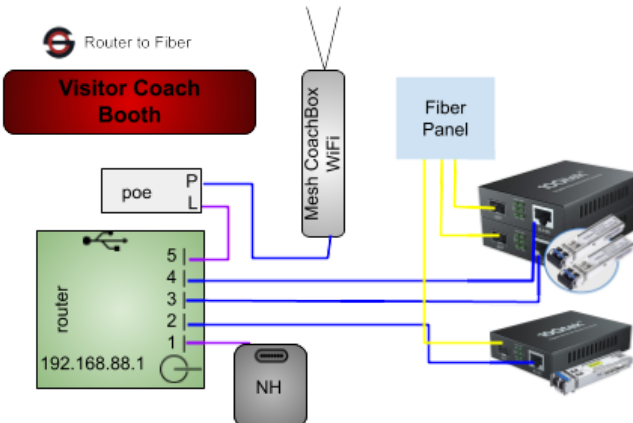
Power the Host Box and Coach Box in the Coach Room

1. Prepare Router for Connections
  - a. Disconnect the SkyCoach antennas from the Host Box
  - b. Disconnect the POE injectors ethernet cables from the router to open ports for the fiber to ethernet converters
2. Camera Feed Connections (repeat for each camera)
  - a. Connect the coach room fiber patch panel camera ports to the fiber to ethernet converter
    - i. Use the ST connector for the fiber patch panel and LC connector for the converter
  - b. Connect the fiber to ethernet converter ethernet port to the Host Box router
3. Coach Room to Sideline Connection
  - a. Connect the coach room fiber patch panel sideline port to the fiber to ethernet converter
    - i. Use the ST connector for the fiber patch panel and LC connector for the converter
  - b. Connect the fiber to ethernet converter ethernet port to the Host Box router
    - i. Do not plug in to a POE injector
4. Coach Box WiFi Connection
  - a. Option 1 - Connect the Host Box router to the Coach Box Switch
  - b. Option 2 - Connect the Coach Box WiFi antenna to the POE port on one of the Host Box POE injectors
    - i. The POE injector used must be connected to the router from injector LAN port

### Option 1 Host Box Diagram - Antenna Connected to Coach Box



### Option 2 Host Box Diagram - Antenna Connected to Host Box



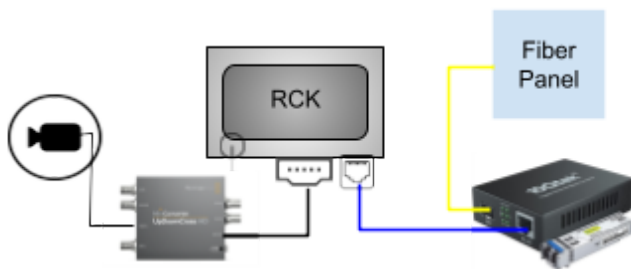
### Camera Locations

1. Connect the camera to the UpDownCross converter HDMI in or SDI in
  - a. If using the home team's camera, you will need to bring an HDMI/SDI splitter or ask them to split their signal for you
2. Connect the UpDownCross converter HDMI out to the RCK in
3. Connect the RCK ethernet port to the fiber to ethernet converter
4. Connect the fiber to ethernet converter to the patch panel
  - a. Use the ST connector for the fiber patch panel and LC connector for the converter

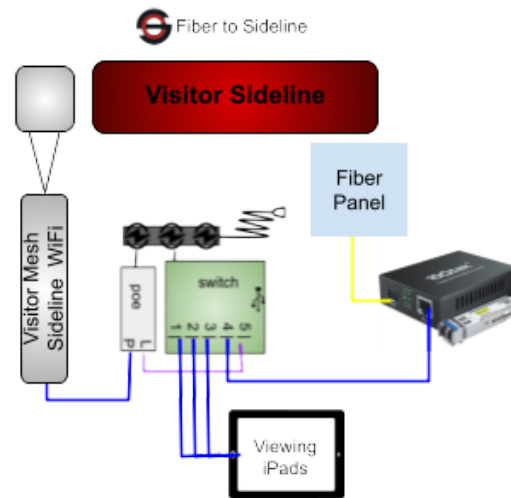
### Visiting Sideline

1. Connect the sideline fiber patch panel port to the fiber to ethernet converter
  - a. Use the ST connector for the fiber patch panel and LC connector for the converter
2. Connect the fiber to ethernet converter to the SkyCoach switch
  - a. Do not connect it to the the POE injector
  - b. Use a long ethernet cable to get the Sideline Box closer to the team area
  - c. Use a long power extension cord to reach the Sideline Box to power it

### Camera Location Diagram



### Sideline Diagram



### Video Examples

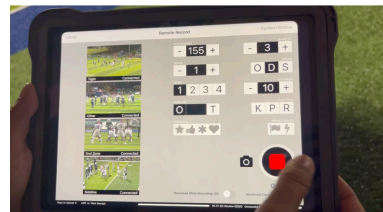
[Connecting Host Box to Sideline Box using Fiber](#) - Link the visiting coach room to sideline using fiber

[Connecting the Host Box Router to Fiber Panel](#) - Link the visiting coach room to the visiting sideline using fiber to ethernet converter. Same for the camera locations, but connect converter to RCK instead of switch.

[Connecting the Sideline Box Switch to Fiber Panel](#) - Link the visiting sideline to the visiting coach room using fiber to ethernet converter. Same for the camera locations, but connect converter to RCK instead of switch.

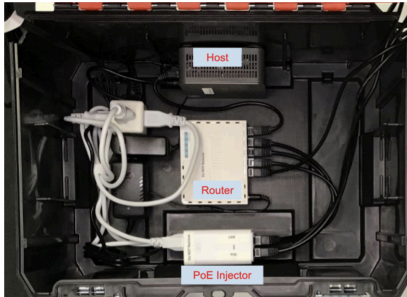
[Disconnect Fiber LC Connectors](#) - This video shows how to properly disconnect the LC fiber connectors

### Clip at Camera Location or in Coach Room



## Parts Needed

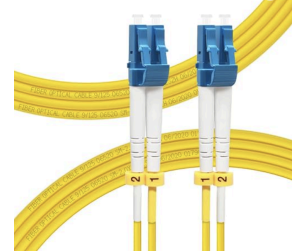
1 X Host Box



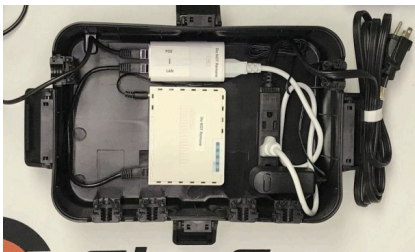
1 X Sideline Stand



6 X Fiber LC to LC Jumpers



1 X Coach Box



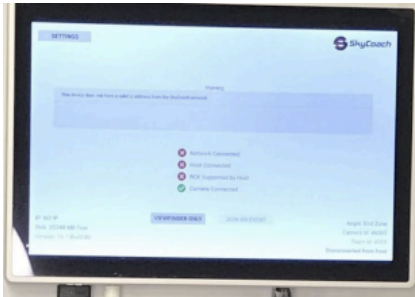
2 X UpDownCross Converters



(2 X SDI Cables and 2 X HDMI) or (4 X HDMI)



2 X RCKs



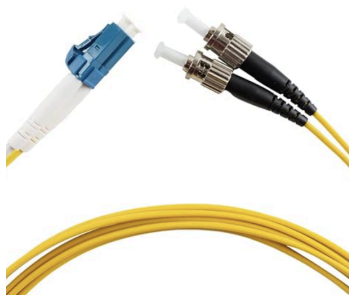
6 X Fiber to Ethernet Converters



1 X Sideline Box



6 X Fiber LC to ST Jumpers



### Several Power Strips

5 total plugs in the Coach Room. Some plugs take more space than regular plugs. Must account for 1 Host Box, 1 Coach Box, and 3 fiber to ethernet converter

2 total plugs on the sideline. Sideline Box and fiber to ethernet converter

3 total plugs at each camera location. 1 RCK, 1 UpDownCross converter, and 1 fiber to ethernet converter

### Extension Power Cables

On the sideline the power for the Sideline Box may be a good way from the optimal location for the Sideline Box box and antenna

### 100ft Ethernet Cables

Use the 100ft ethernet to connect the fiber to ethernet converter to the Sideline Box

### Recommended USB C to Ethernet Adapters

The switches in the Sideline Box and in the Coach Box allow you to connect your iPads to the SkyCoach network via ethernet. This may be necessary in some of the larger environments.

Bring 6 LC and ST fiber jumpers. The school may be using one or the other. Best to have both scenarios covered.