



# HOW TO DESIGN

a Camera Tracking System



## STEP 1 Learn

It is important to consult with the customer regarding how the room is going to be used, and where the tracking system will be implemented.

You need to clearly understand:

What are the end user's expectations and needs?

Understand the boundaries and how the presenter will move about during the presentations.

Your room dimension and layout, windows, doors, etc.

- Make a detailed drawing of the room, showing doors and windows.
- If possible, visit and confirm the drawing by scouting out the room.
- Check for possible infrared and/or motion sources in the tracking area.

If the system requires High Definition or Standard Definition quality video:

- Note the Installation requirements, cabling, power, audio, etc.

## STEP 2 Measure

On the room drawing determine:

- The width (W) of the tracking area where the presenter will move.
- Locate items that could interfere or obstruct the camera view such as projectors.
- Cameras are located to allow a proper view of the presenter.



Choose the suitable camera model based on viewing angle of the presentation area and camera locations. Use the calculator by going to: [www.vaddio.com/tech-center.php](http://www.vaddio.com/tech-center.php) and download our PTZ Image Size Calculator.

## STEP 3 Confirm

Windows and/or doors are not in the tracking area.

Tracking system is not too low and may be blocked by attendees.

Camera is not installed too high. Avoid steep viewing angles.

- When zooming in, make sure to keep an appropriate shot – preferably at least mid-thigh to above the presenter's head.
- Make sure there is enough headroom for all presenters – tall and short – who will be utilizing the room.
- Harsh lighting should not be present in the presentation area.
- Uniform lighting of more than 100 lux is recommended, especially if HD is used.
- There are no IR sources (incandescent light, sunlight, etc) in the presentation area. (AutoTrak only)
- There is no motion in the presentation area other than the presenter. Avoid projection screens that reach the floor. (TrackVIEW only)

## STEP 4 Decide

Compare both systems and choose based on:

### TrackVIEW

- Allows for only one person in the presentation area.
- The presenter must be visible in the wide viewing range of the reference camera.
- Maximum distance from presenter is 80 feet SD and 60 feet HD depending on camera choice.
- Maximum cable length is 200 feet.
- Accepts triggers directly and control from third party such as AMX and Crestron.

### AutoTrak

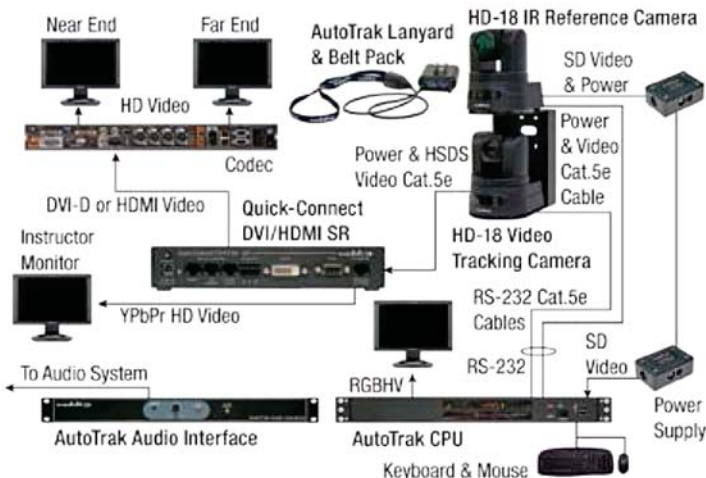
- Multiple persons can be on stage, but only one can be tracked.
- AutoTrak IR emitter (lanyard) must be in plain view of the IR reference camera.
- Maximum distance from presenter to camera is 40 feet in SD or HD at all times.
- Maximum cable length is 100 feet.
- If triggers and presets are needed, a Vaddio AutoPresenter is required.

\*\* All Vaddio tracking camera systems must be programmed by either a Vaddio Certified Installing Technician, or Vaddio Factory Technician. (See 999-PROG-000)

\*\* Integrators MUST complete the Online Certification Tutorial to submit a PO, specify and design Vaddio Tracking Systems.

\*\*For more information on Camera Tracking Certification, visit our website at [www.vaddio.com](http://www.vaddio.com)

### AutoTrak System Configuration



### TrackVIEW System Configuration

