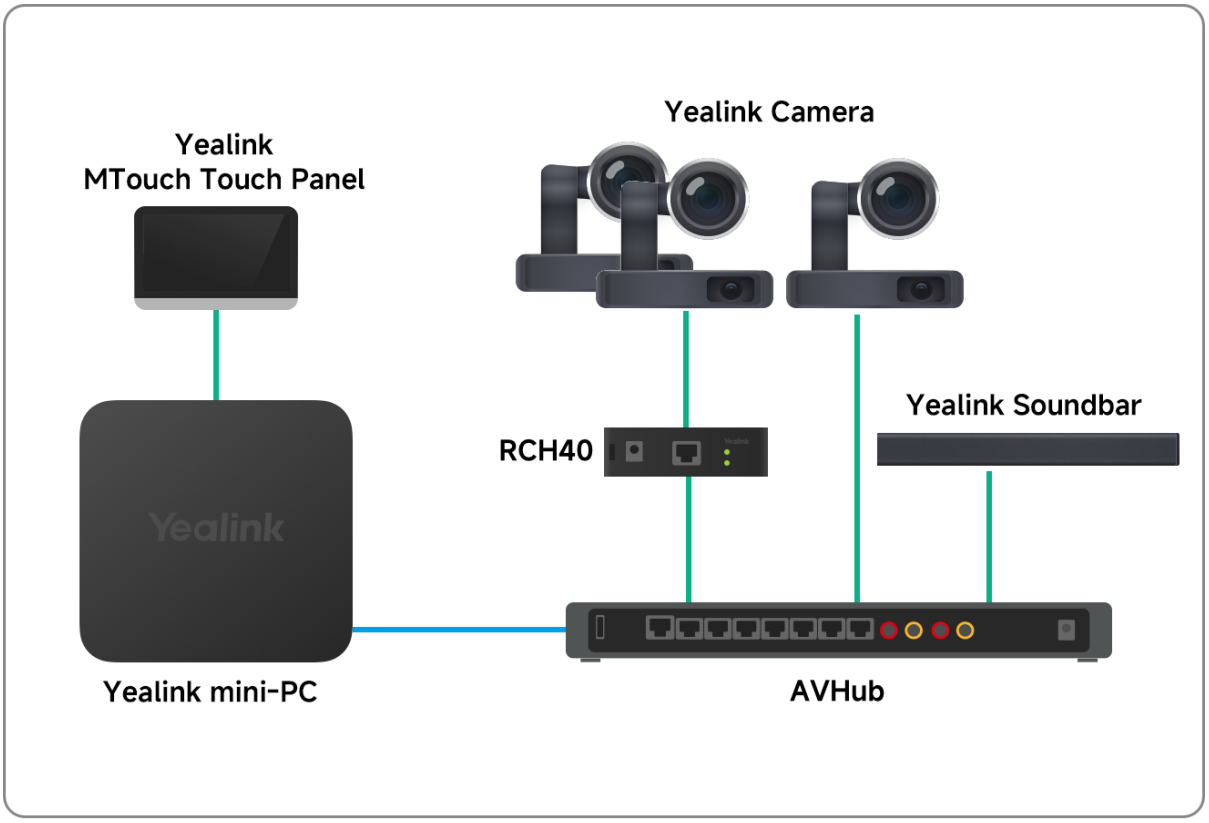
IntelliFrame (Beta) (Multi-Camera) Deployment

Device Connection



Yealink Camera:

UVC86

When multi-speaker tracking is active, the peak power consumption of each UVC86 reaches **33W**. Since AVHub supports up to **90W**, it cannot power more than **2 UVC86 cameras** simultaneously. We recommend using an **RCH40** or a **Gigabit PoE+ switch** for both power supply and data transmission.

- If using an **RCH40**, each RCH40 can power up to **2 UVC86 cameras**.
- Alternatively, each UVC86 can be connected to a DC power source, allowing you to use a standard switch or connect directly to the AVHub.

SmartVision 80

- When multi-speaker tracking is active, the peak power consumption of each **SmartVision 80** reaches **30W**. Since AVHub supports up to **90W**, it cannot power more than **2 SmartVision 80 cameras** simultaneously. We recommend using an **RCH40** or a **Gigabit PoE+ switch** for both power supply and data transmission.
- If using an **RCH40**, each RCH40 can power up to **3 SmartVision 80 cameras**.
- Alternatively, each **SmartVision 80** can be connected to a DC power source, allowing you to use a standard switch or connect directly to the AVHub.

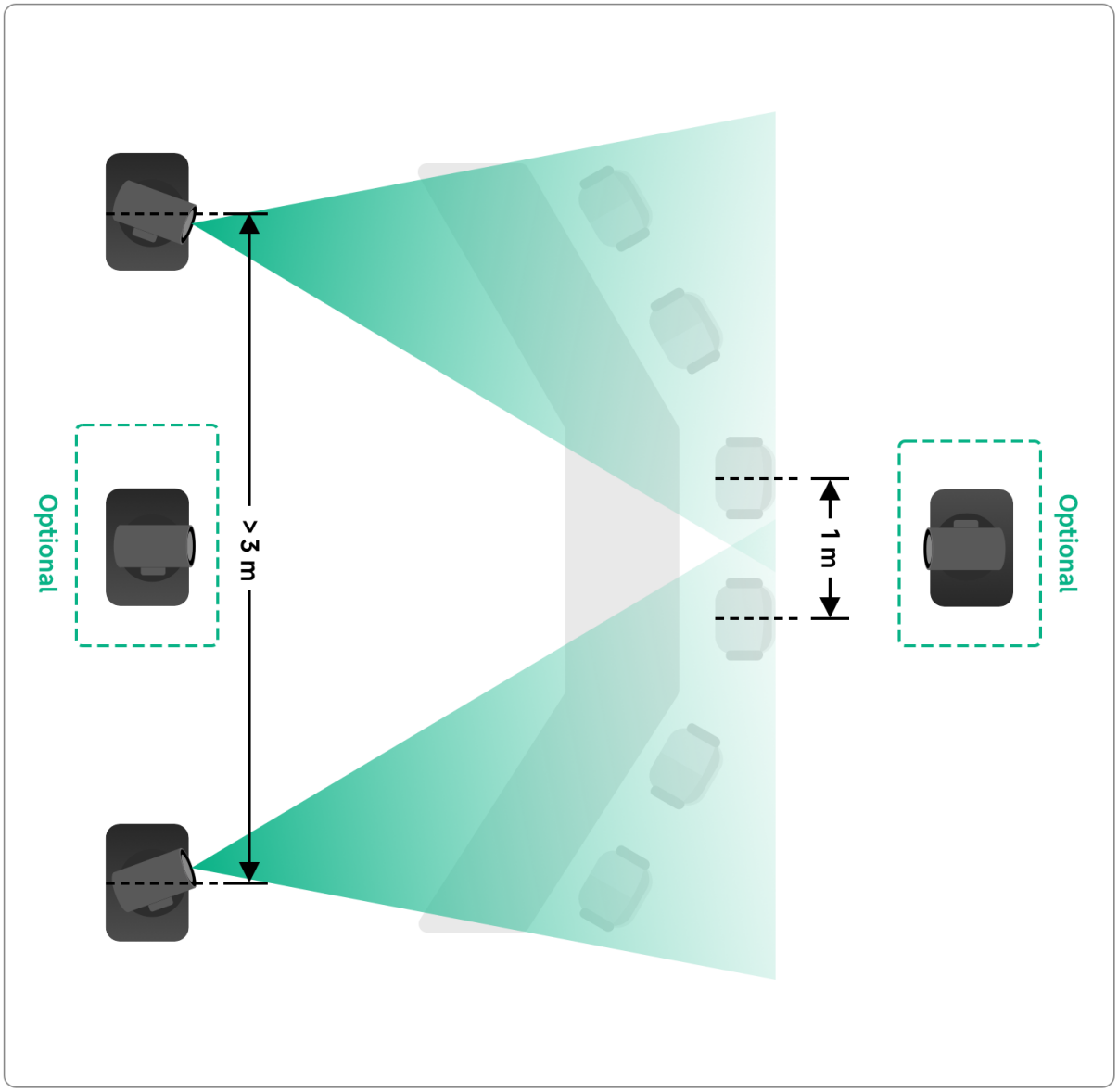
Deployment Recommendations

Currently, IntelliFrame provides two types of meeting room layouts. Please select the appropriate type according to your actual room setup.

To ensure a good meeting experience, choose the corresponding type based on your room layout. If you’re unsure, please contact Yealink technical support or select the vertical (longitudinal) meeting room type.

Horizontal Meeting Room

Horizontal meeting rooms are suitable for rooms arranged with seats and tables in a horizontal layout. You can deploy two cameras along the front and rear centerlines as needed. Recommended room structure and camera deployment:



Deployment Recommendations

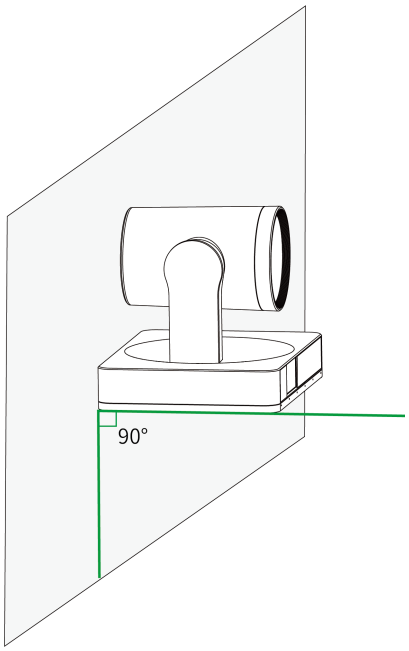
- At least two cameras are required for horizontal meeting rooms.
- The recommended camera installation height is 1m–2.5m.
- The distance between cameras should be greater than 3m, and the distance from the camera to participants should be at least 2m.
- Select the camera height according to participant positions, ensuring the ratio between participant height and device height does not exceed 4:3.
- Seat spacing should be greater than 0.5m (1m recommended) to prevent voice tracking drift or speaker image overlap.

Vertical Meeting Room

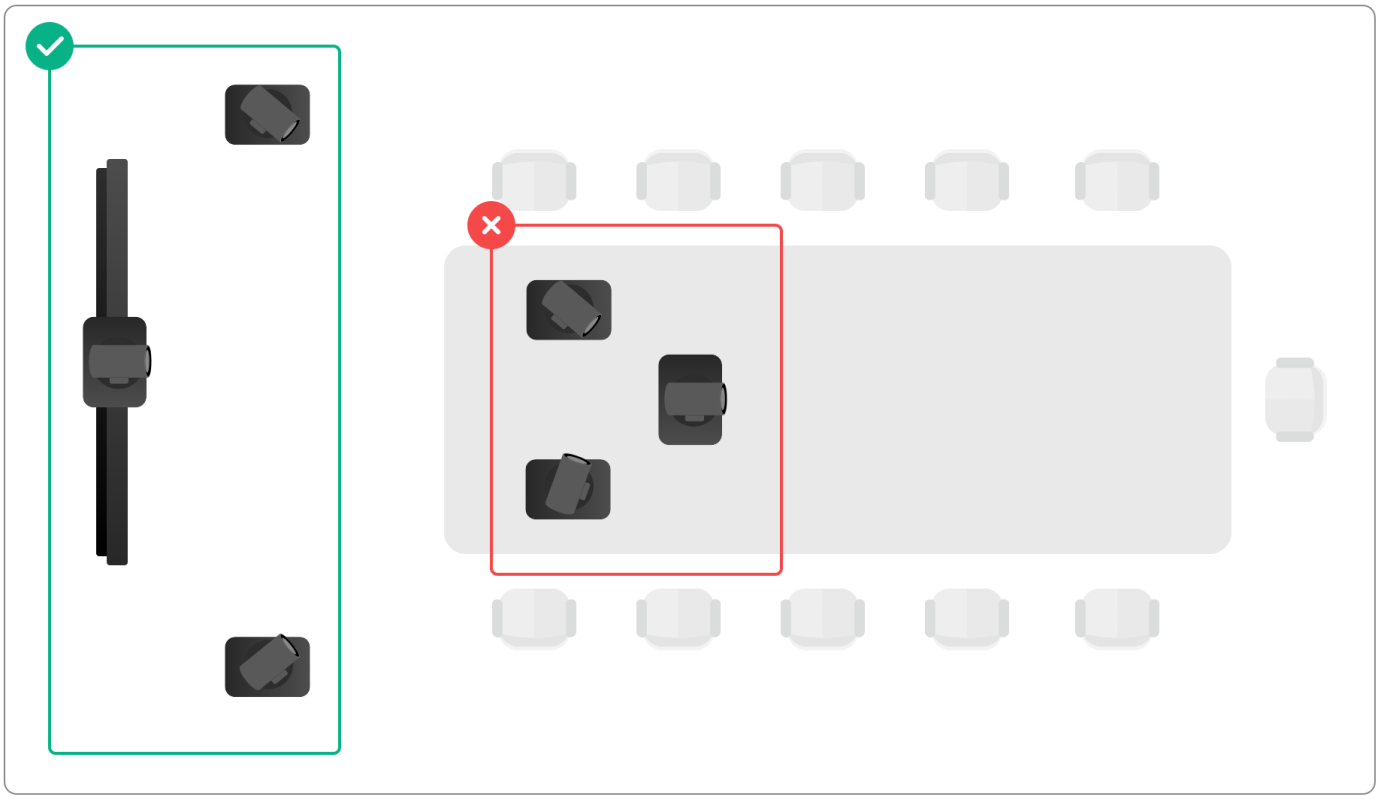
Vertical meeting rooms are suitable for vertical layouts and medium to large meeting rooms.

Deployment Recommendations

- Avoid placing cameras in the corners (wall corners) of the meeting room.
- Ensure cameras are mounted horizontally, without steep tilting.



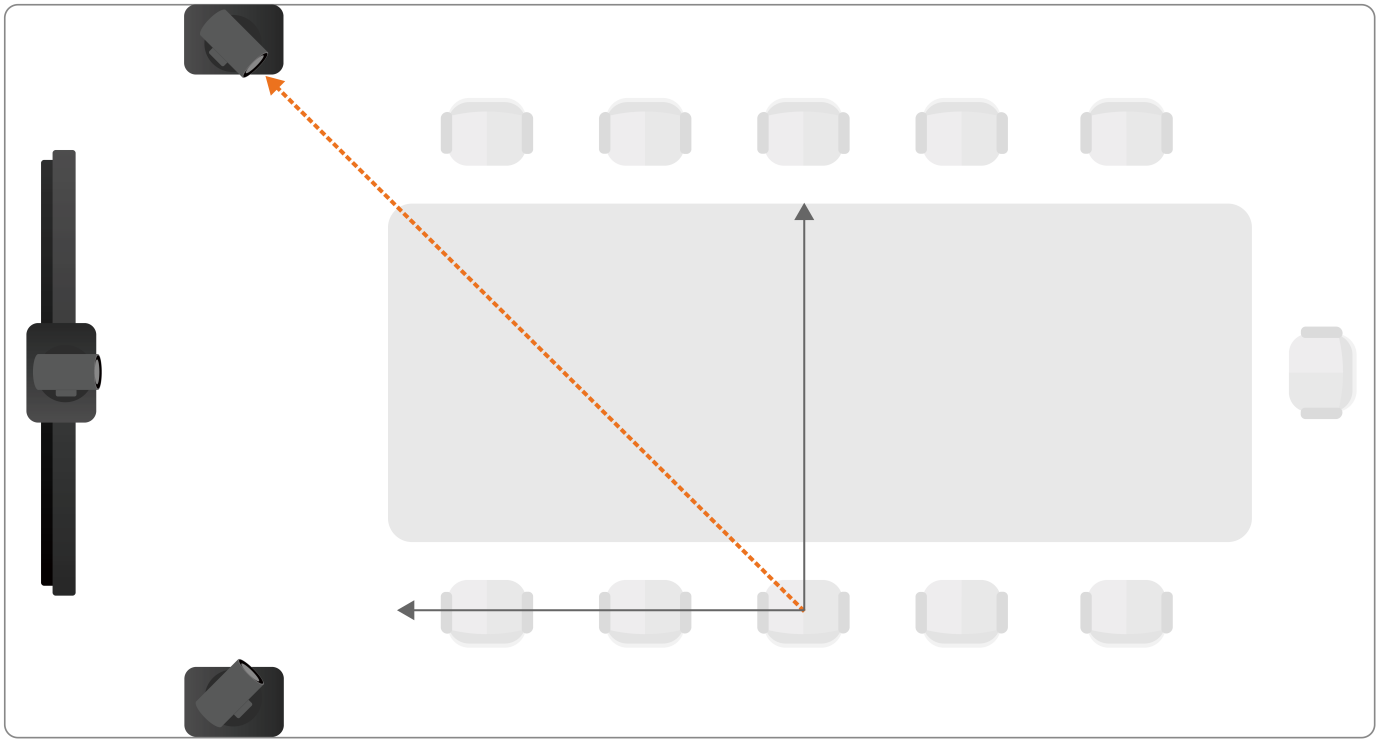
- Cameras should be placed behind participants, ensuring all attendees are within the front field of view of the camera’ s secondary lens. Avoid placing cameras directly above or in front of participants’ heads.



- At least 3 cameras are required for vertical meeting rooms. Recommended deployment: one in the center, one on each side wall. UVC86 cameras should not be placed in corner positions.
- The recommended camera installation height is 1.8m–2.2m. If the center camera is installed below the TV, raise its height as much as possible to ensure it is above the desktop. The recommended

distance from the main seat to the center camera should be less than 8m and not exceed 10m.

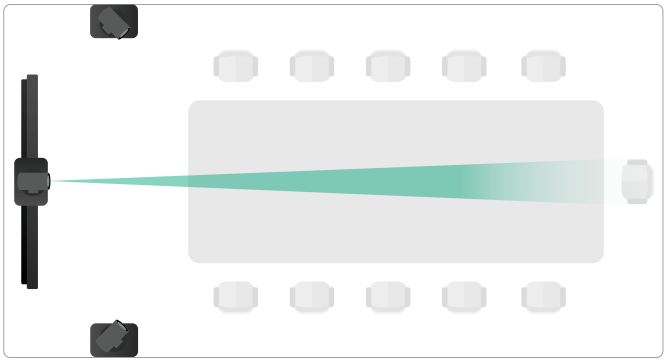
- The first row of the meeting room should be at least 2m from the front camera, seat spacing should be more than 0.5m, and the conference table width should be at least 1.5m. The recommended distance from the main seat to the center camera should be less than 8m and not exceed 10m to avoid voice tracking drift.
- Side cameras should be positioned at a 45° angle to the center of the coverage area and extend beyond the first row for better portrait framing. Adjust left or right by ±15° as needed.
- Avoid deploying cameras near continuous noise sources such as air conditioner outlets.
- Each camera can cover up to 6 participants. Exceeding this number may result in edge participants not being included in the frame. It is recommended to cover 5 participants for better tracking performance. If one side has more than 5 seats, add more cameras.
- The deployment method for left and right side cameras is the same.

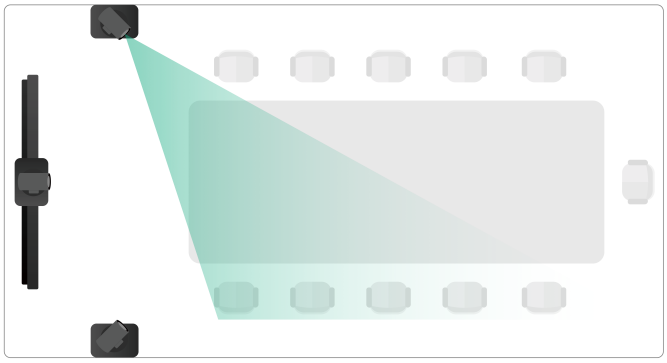


Camera Coverage Requirements

Medium Vertical Meeting Room

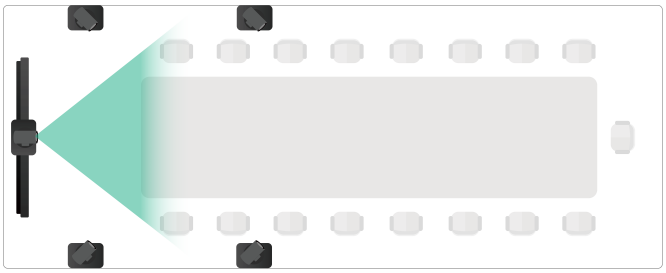
- Deploy one camera in the center and one on each side, for a total of 3 cameras.

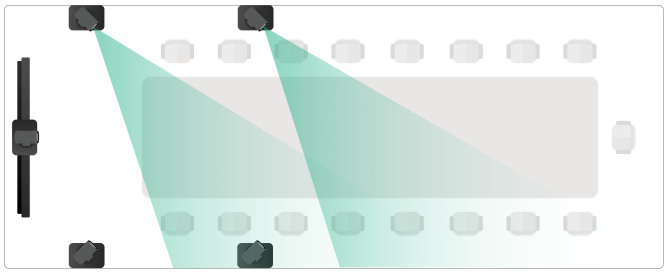


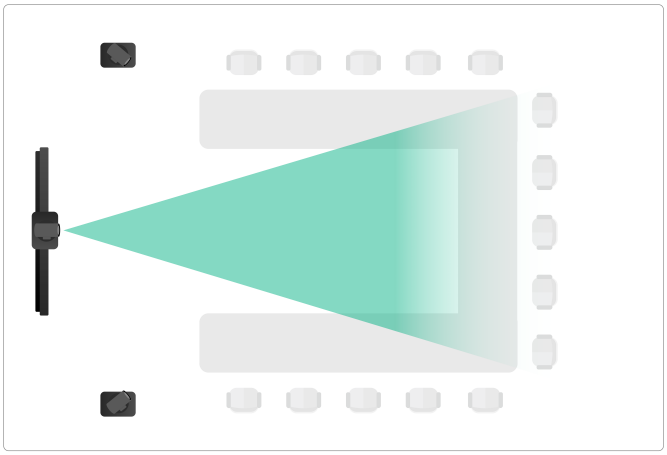
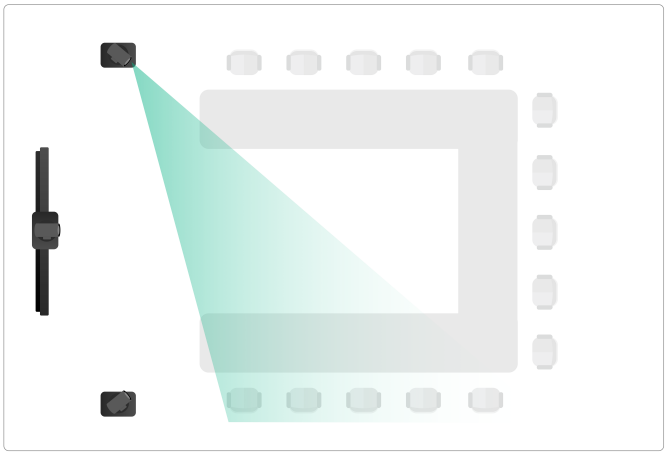


Large Vertical Meeting Room

- Deploy one camera in the center and two on each side, for a total of 5 cameras.





U-Shaped Meeting Room

- Deploy cameras on the left, center, and right sides, for a total of 3 cameras.