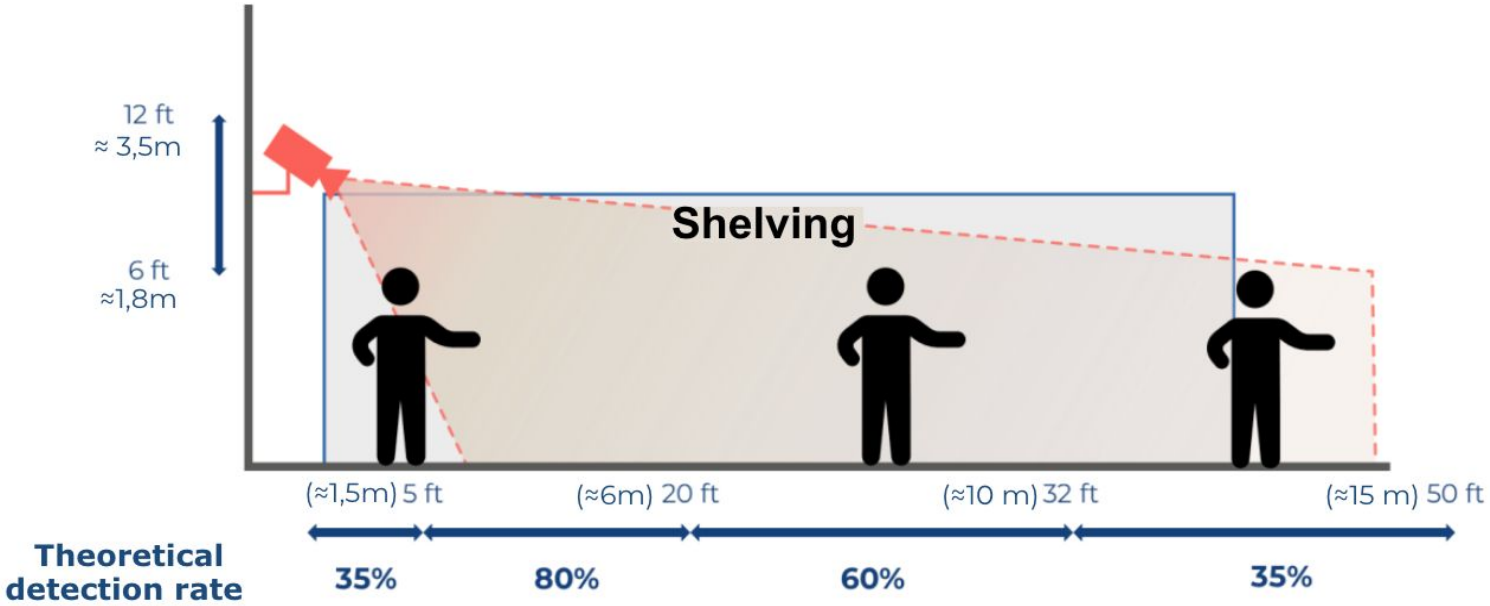

veesion
CAMERA POSITIONING
Where to place the cameras for optimal detection rate

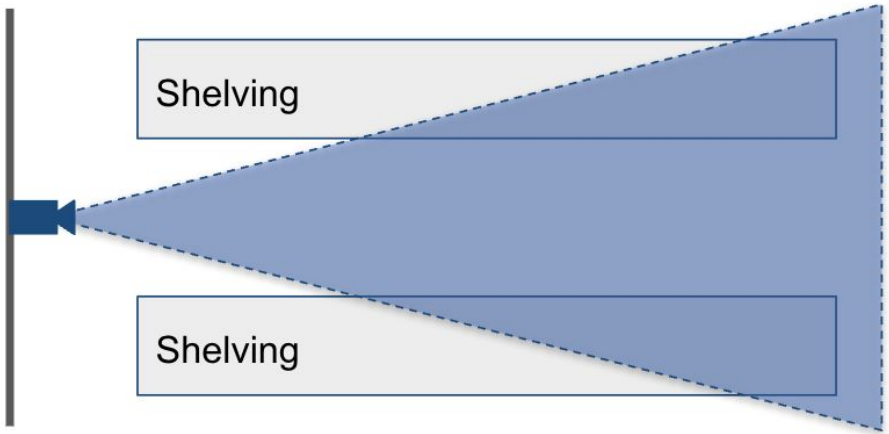
Detection Coverage Diagrams

Single Camera Configuration

For display shelves monitored by a single camera, the optimal detection coverage extends in a semi-circular pattern from the camera position.



Centered on the aisle



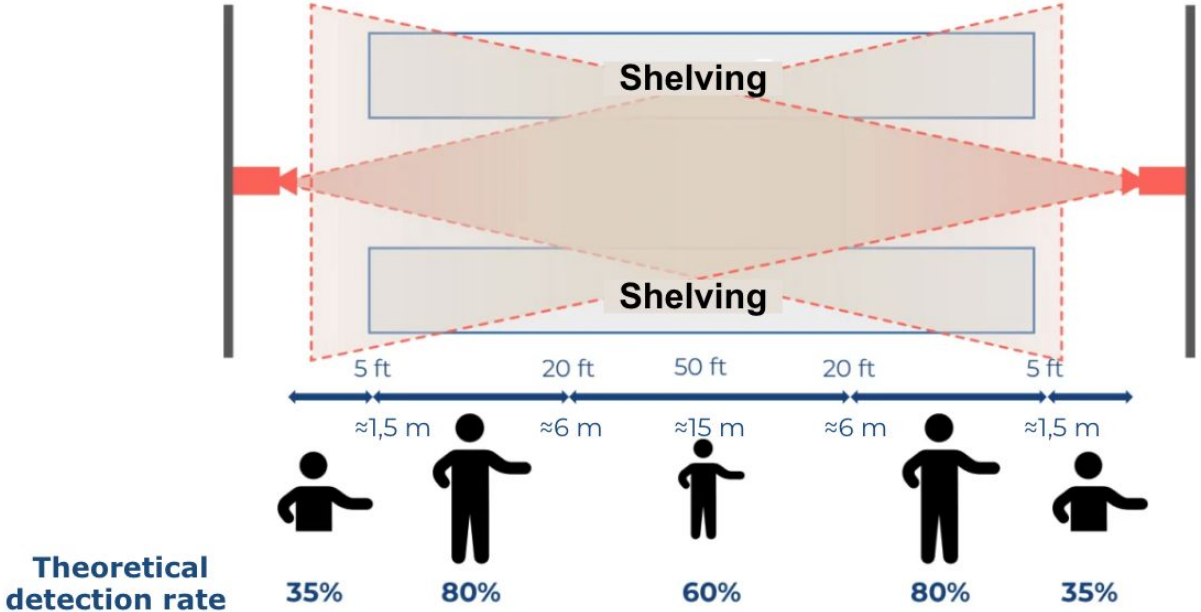
Optimal positioning

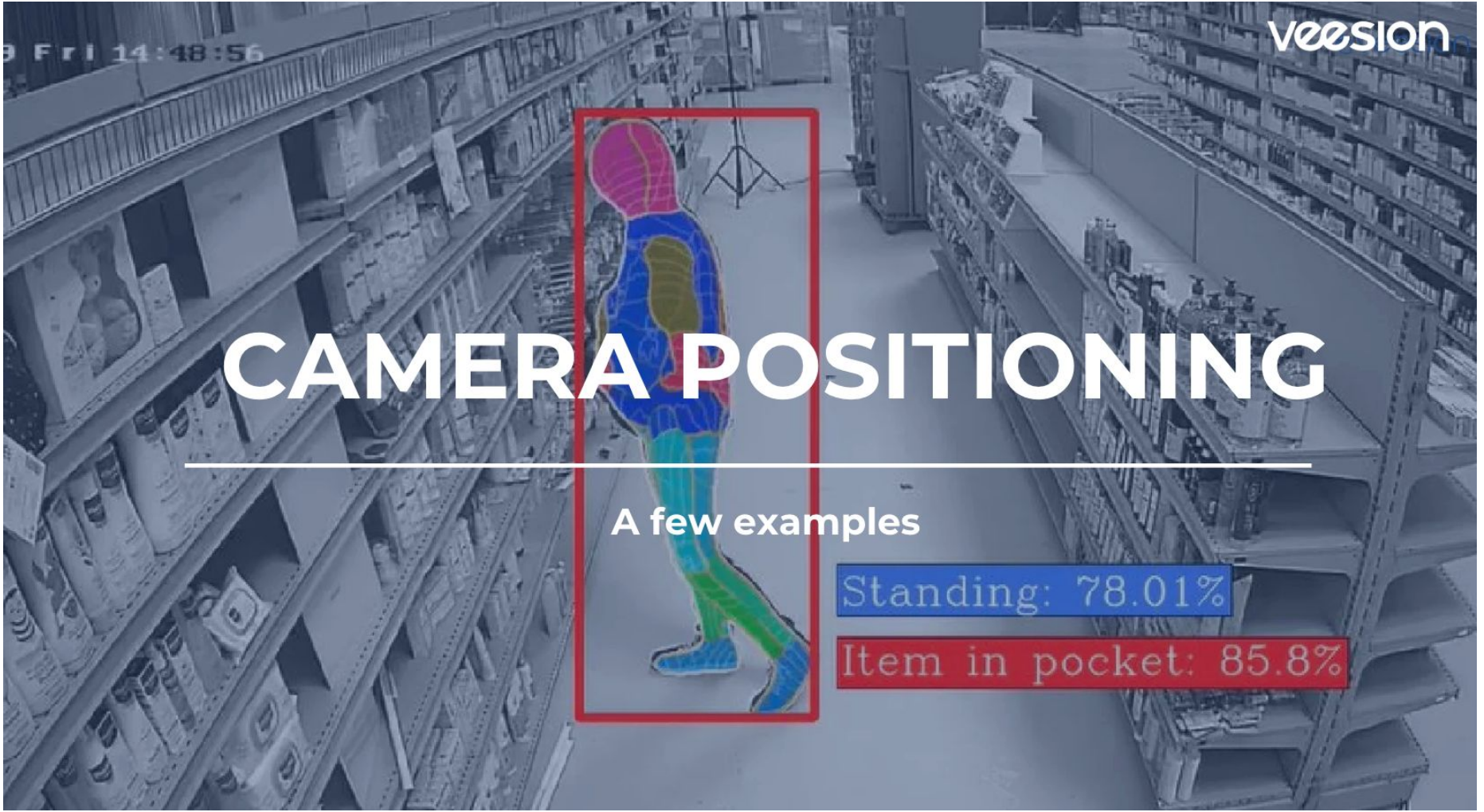
Non-optimal positioning

Detection Coverage Diagrams

Dual Camera Configuration

For display shelves with two cameras, the detection zones overlap to provide enhanced coverage and redundancy across the monitored area.

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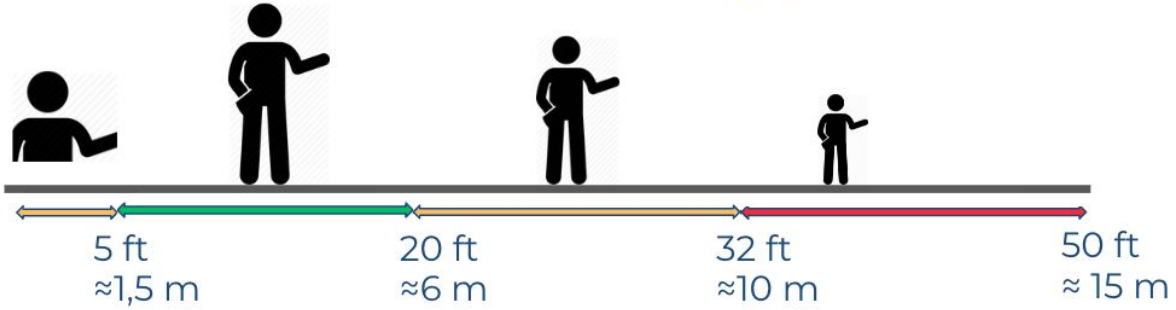
veesion
CAMERA POSITIONING
A few examples
Standing: 78.01%
Item in pocket: 85.8%

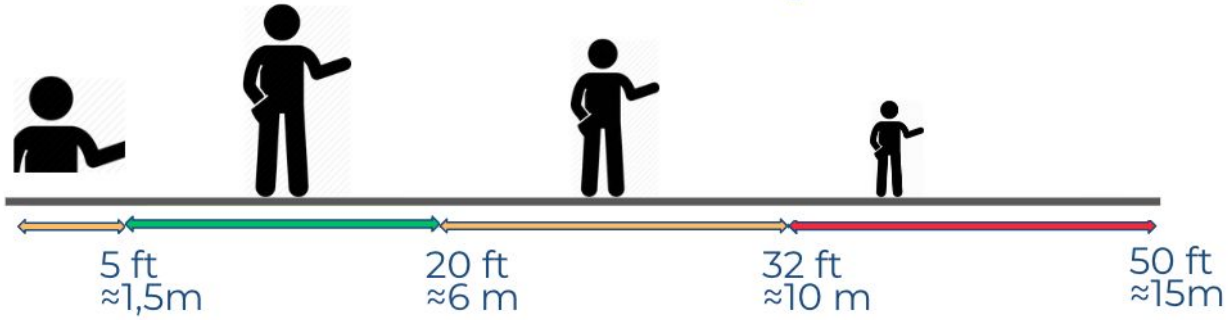
Optimal distance: 5 to 20 ft (1,5m to 15m)



Each camera's detection effectiveness varies based on the position relative to the camera. Understanding these zones helps optimize the AI:

Green Zone: Ideal detection area with highest accuracy
Yellow Zone: Medium detection effectiveness
Red Zone: Low detection probability

Optimal distance: 5 to 20 ft (1,5m to 15m)



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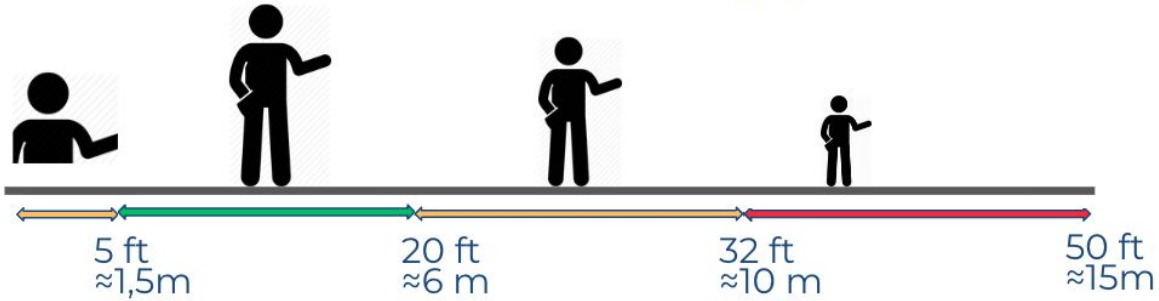
*Camera not suitable for Veesion

Optimal distance: 5 to 20 ft (1,5m to 15m)



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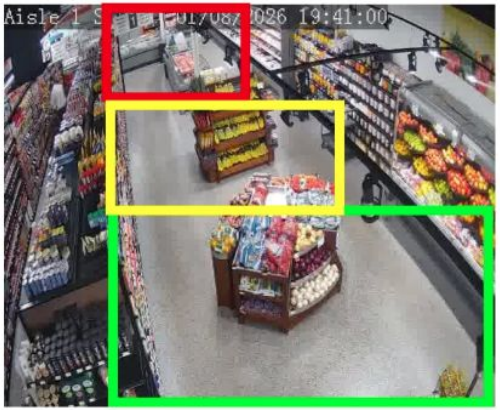
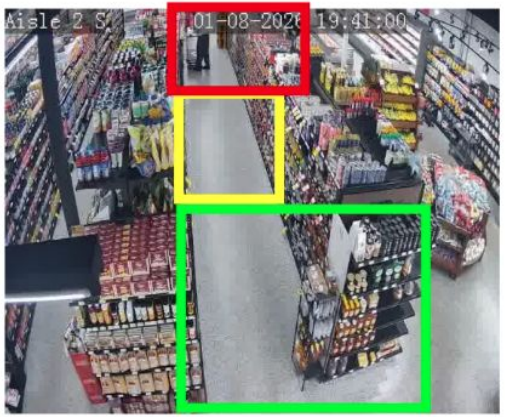
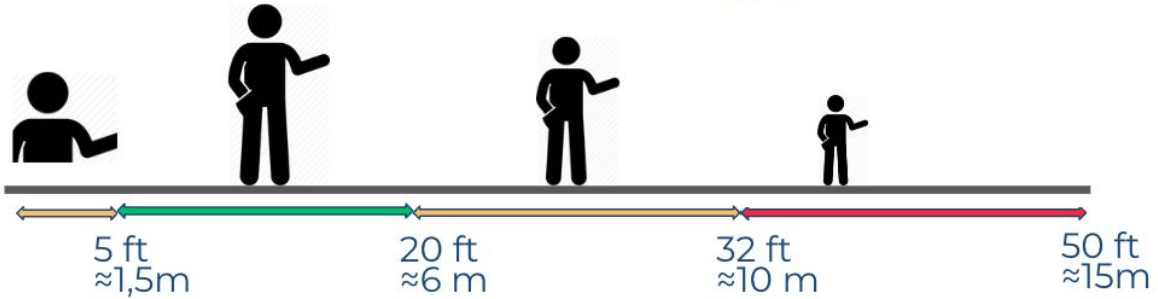




Optimal distance: 5 to 20 ft (1,5m to 15m)



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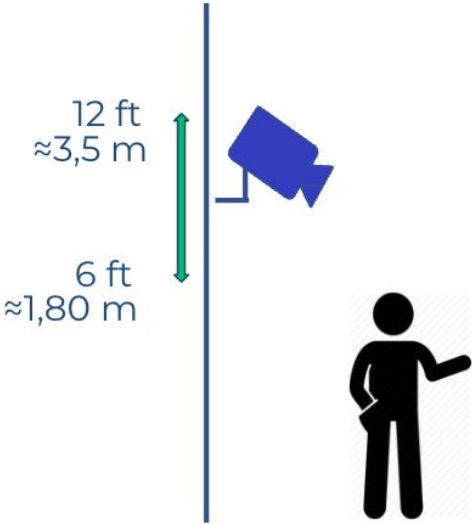
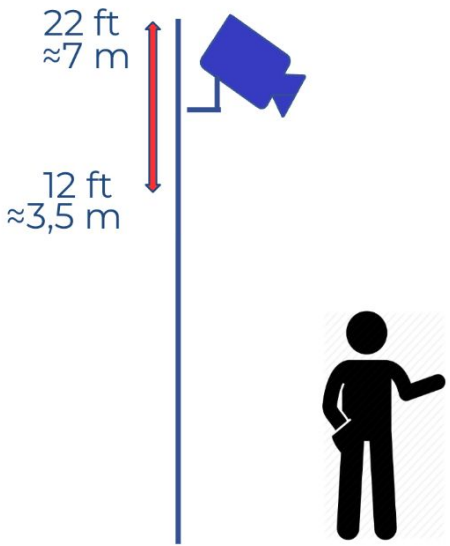
Optimal height: 6 to 12 ft (1,8 m to 3,5 m)



>22 ft (7 m): Lower detection rate




veesion
TO AVOID
Lower detection rate

Too wide field of view

The wider the field of view, the higher chances of having >30 people simultenaously and places to hide from the cameras: this reduces the detection rate.

Dead angles

Cameras that focus on blocks of shelves from the side do not allow customers between the shelves to be seen entirely reducing the detection rate.


Veesion
TECHNICAL SPECS
How to make your CCTV system compatible with Veesion

DVR / NVR CONFIGURATIONS

- Time set in NTP
- Provide IP address of DVR / NVR
- Provide account username / password
- Provide DVR / NVR make and model
- Continuous recording (no motion detection)
- Configuration for secondary video playback:
    - Optimal Resolution: 1280x720
    - Optimal FPS: 10
    - Optimal Bitrate: 1024Kbps

1 fisheye / 360 camera:

- = 4 licences (e.g.: 2 fisheye cameras = 10-15 bracket on the price list)
- = 7 slots on the hardware (e.g.: 2 fisheye cameras requires a server handling a minimum of 14 streams)