NEXT
INSTALLATION BEST PRACTICES

Optimizing Your Camera Installation & Performance

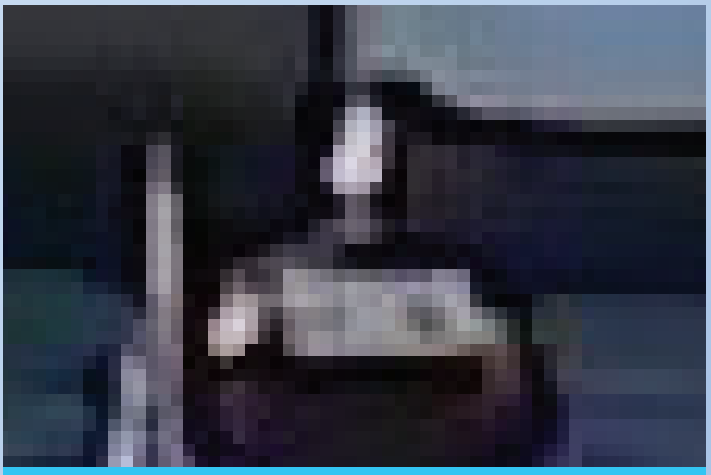
VICON

Before you install your NEXT camera, you should understand your ultimate goals for that camera in terms of its ability to detect, observe, recognize, and identify objects in its field-of-view. Make sure your installation procedure aligns with the goals for that camera, so you'll get the desired outcome. In other words, how and where you mount the camera will influence the camera's ability to detect objects according to your intended goals.

Follow these guidelines to enhance the effectiveness of your surveillance and reduce common challenges.

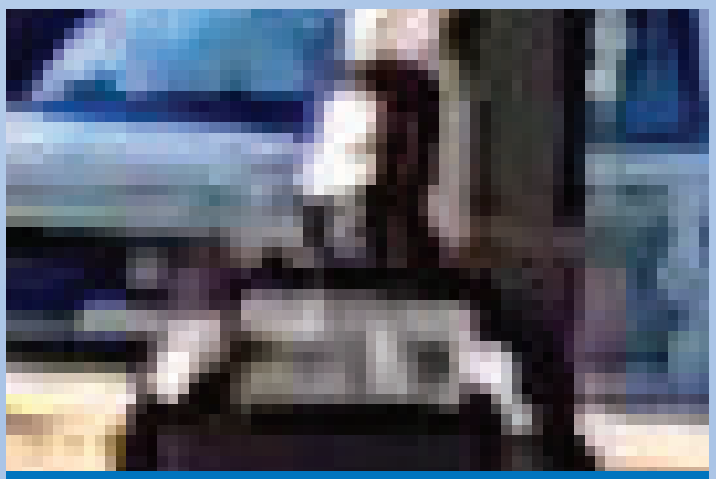
Define Your Goals

Before installing your camera, make sure you identify the priority of each camera based on what you hope to capture.



Detection

I want to confirm the presence of a vehicle or person in a given area. Ideal for wide-area monitoring, such as perimeters or open spaces, where the goal is to know if something or someone is present.



Observation

I want to monitor basic activity or behavior in a scene. Ideal for tracking events or ensuring compliance with regulations, such as monitoring public areas.

Recognition

I want to confirm the identity of an individual or vehicle with reasonable certainty. Ideal for entrances/exits or retail settings, where distinguishing between known and unknown entities is important.

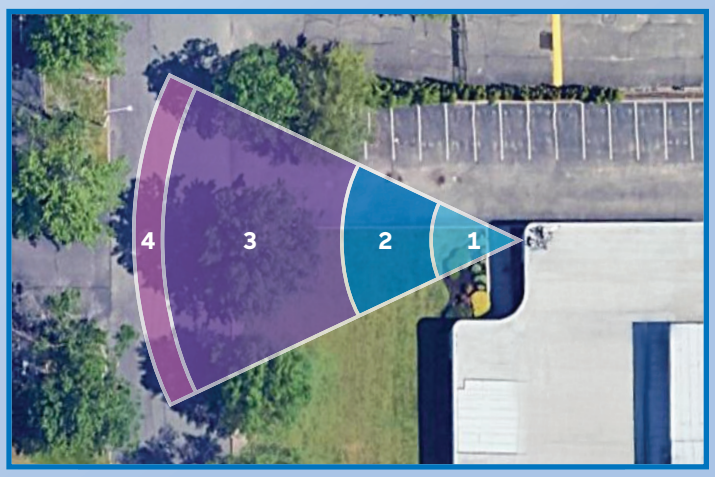
Identification

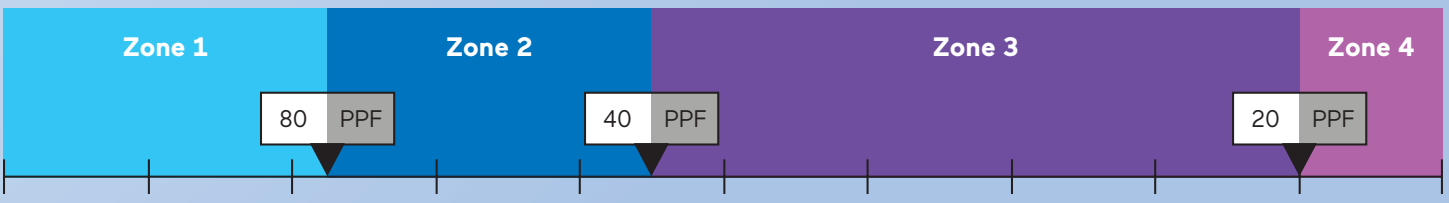
I want to confirm the identity of an individual or object with certainty. Ideal for security checkpoints, forensic investigations, or areas requiring strict access control.

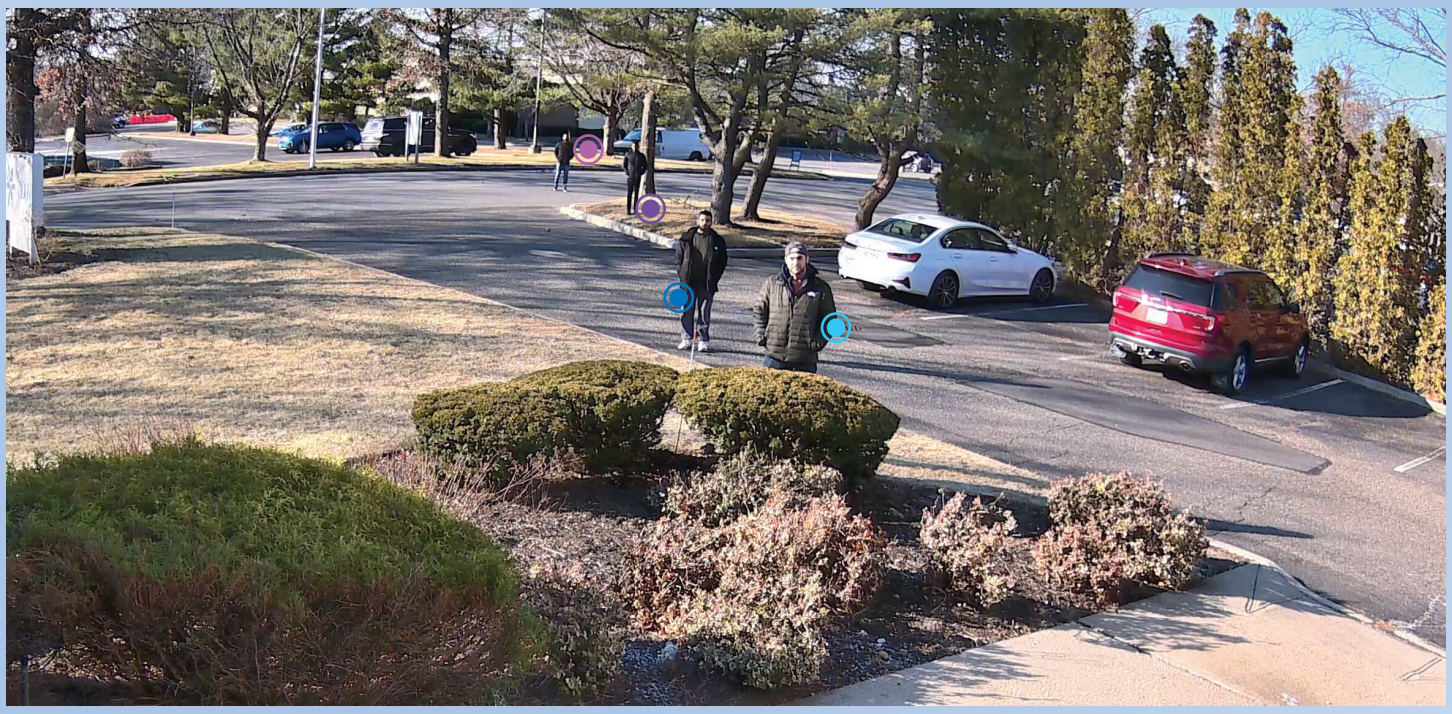
DORI Calculations

Wide Angle

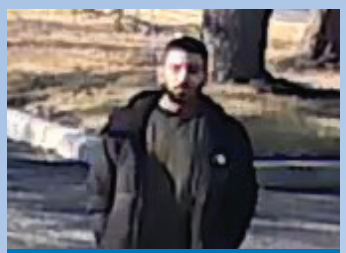
The wide angle setting delivers a wide horizontal field-of-view, resulting in the camera's ability to detect objects from over 100 feet away, with indisputable identification at 30 feet from the camera.



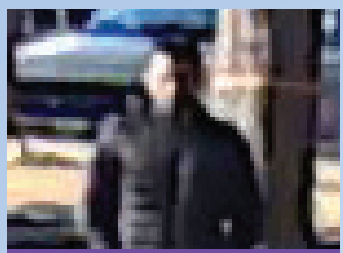




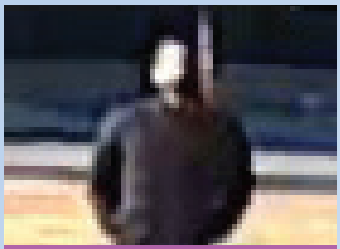
Identification: < 30 ft
Zone 1



Recognition: 31 - 50 ft
Zone 2



Observation: 51 - 100 ft
Zone 3

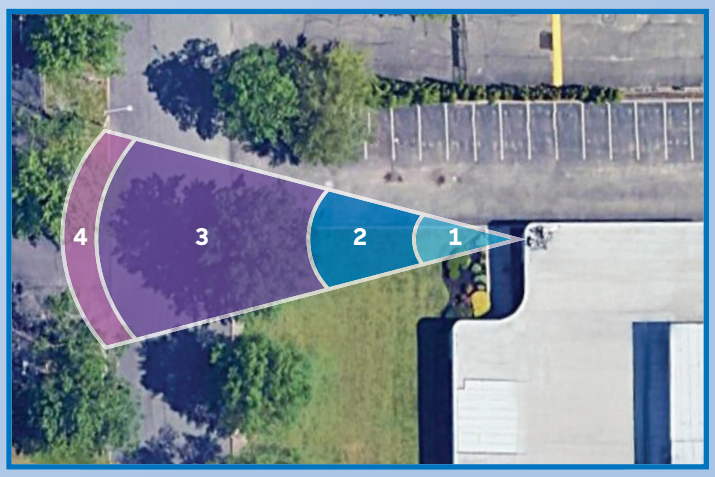


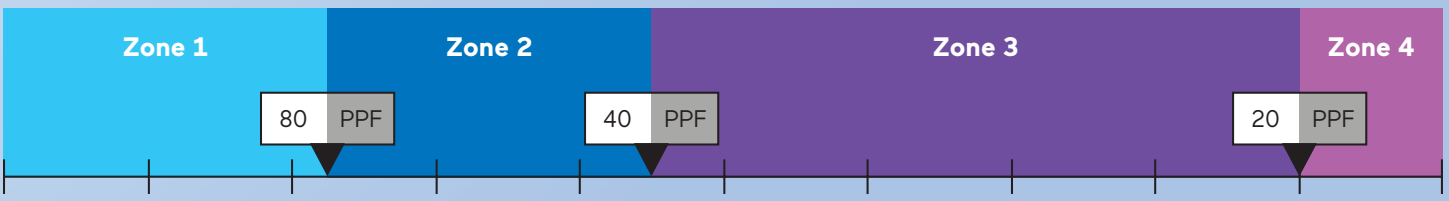
Detection: > 100 ft
Zone 4

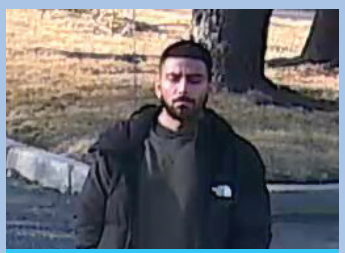
DORI Calculations

Telephoto Angle

The telephoto setting delivers a narrower horizontal field-of-view, resulting in the camera's ability to detect objects from almost 200 feet away, with indisputable identification at 50 feet from the camera.

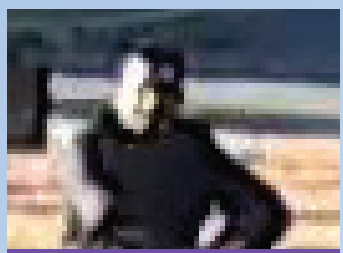




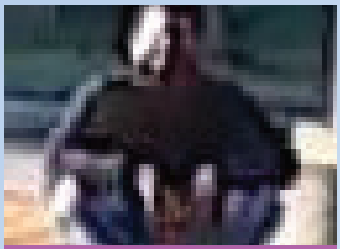


Identification: < 50 ft
Zone 1

Recognition: 51 - 100 ft
Zone 2



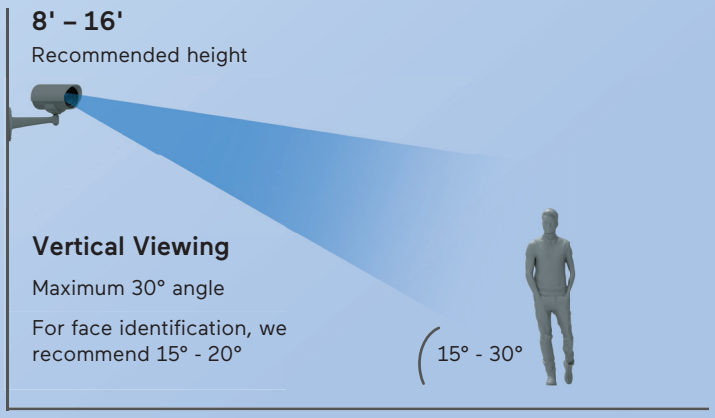
Observation: 100 - 194 ft
Zone 3



Detection: > 195 ft
Zone 4

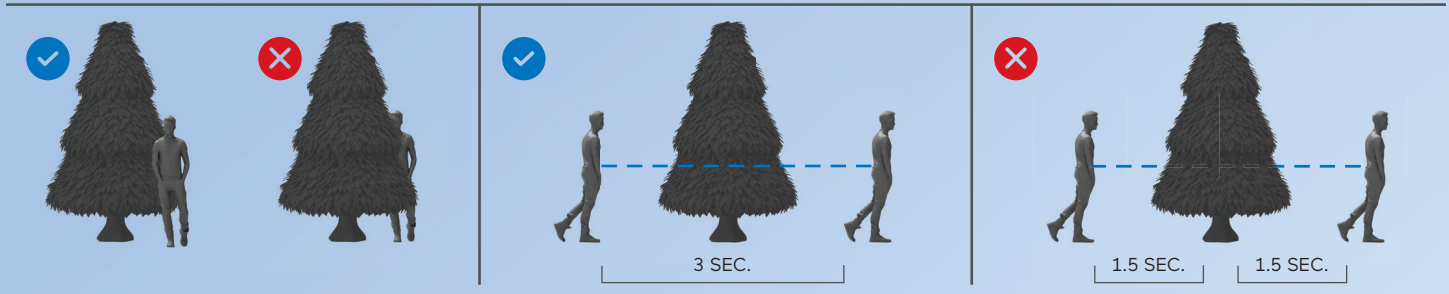
Mounting Recommendations

Before installing NEXT, it's important to consider the installation height and vertical viewing angle to ensure you're capturing the right field-of-view for your needs. This will make all the difference in getting clear, useful footage.



Object Detection Recommendations

- Good contrast is critical, especially in nighttime or low-light scenes.
- Object(s) should be fully visible in the camera's field of view for 3+ seconds.
- Avoid scene obstructions, as they can be interpreted by the camera as multiple shorter events (as the person passes behind the object), or they can cause incorrect or missed results.
- During the evaluation period, we recommend a scene with over 0.1 lux.
- People should be in the upright position.
- Reduce unnecessary background motion, like swaying trees and sky, in the scene as much as possible. More motion in the scene may lead to less optimal detection.



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