

BACK-UP CAMERA



CHALLENGE #1: LIMITED VIEW

Your back-up camera has a limited field of view. It may not see objects below the bumper or under your vehicle. When a child or an object in your back-up camera view suddenly disappears, you should recheck before backing up. They may have entered your back-up camera's blind spot.



What would you do?

What kind of object might trick the camera? Using the car graphic as an example, work with a partner to design your own scenarios! Consider many possible objects, such as a mail box, garbage can, bicycle, balls, tree branch, tow bar, and drivable toy car.



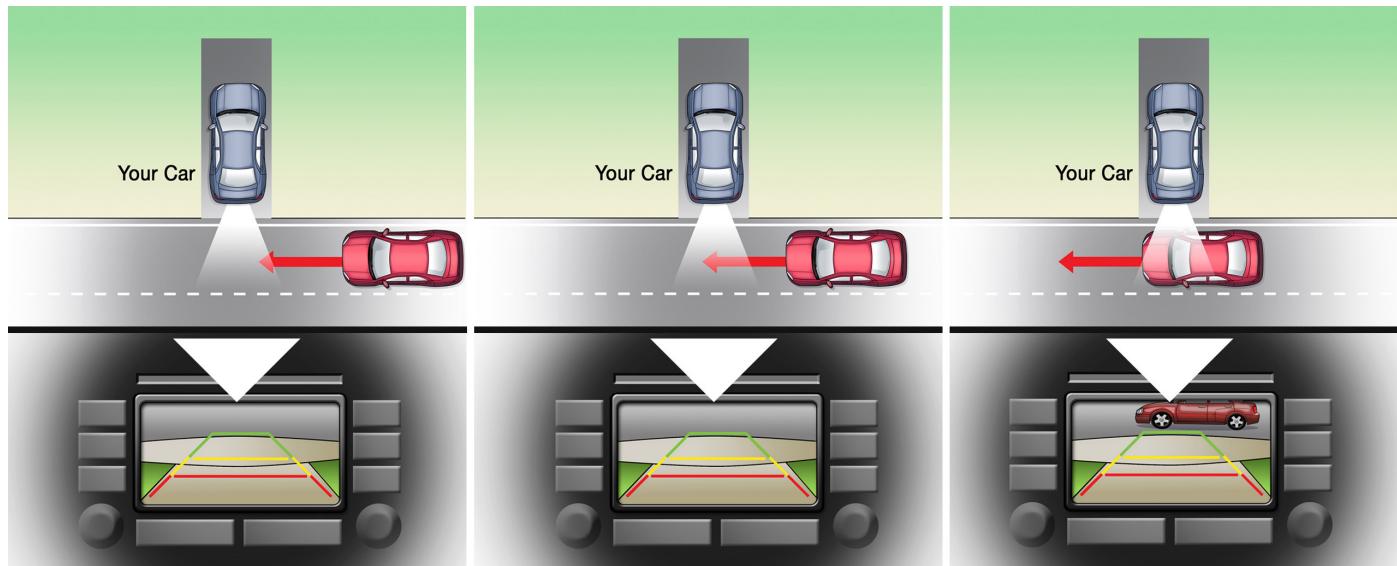
Describe or draw your scenario

BACK-UP CAMERA



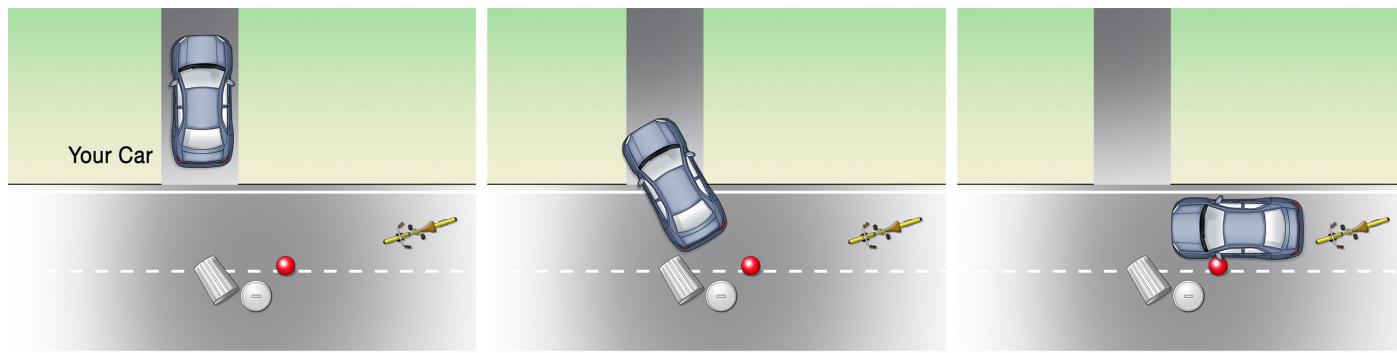
CHALLENGE #2: SIDE VIEW

Your back-up camera's field of view is directly behind your vehicle, so it may not detect objects or people to the left or right of your car. In this image, see how the back-up camera screen doesn't show the oncoming car until the 3rd frame.



What would you do?

In each frame of the image to the right, circle the objects that your back-up camera would display on your screen.



Frame 3: My camera will find only the bike.

Frame 2: My camera should find the ball, and possibly the front end of the bike.

Frame 1: My camera will only find the garbage can.

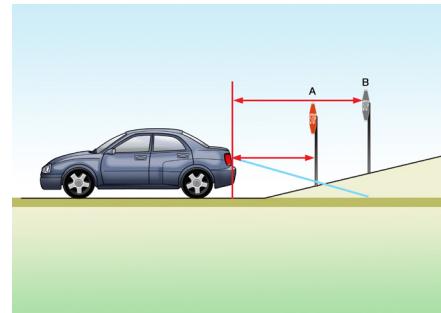
Experts' Challenge Answer:

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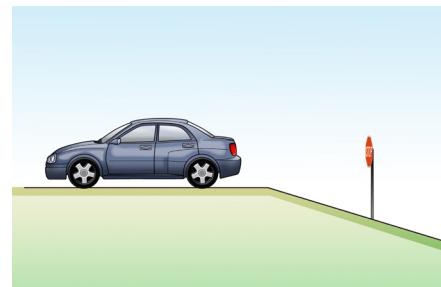
CHALLENGE #3: HILLS

Your back-up camera's distance lines give you an idea of how far away objects are when you are backing up on a flat surface. When you back up on a hill, the distance lines may not work accurately. In this image, the screen may show point A being farther away than it really is. This is because the ground slopes up and shortens the distance to the camera. When backing up a steep hill, remember that objects in the real world are closer than they appear on the screen



What would you do?

Imagine yourself backing down the hill shown in this image. Describe any problems there might be in the way the camera displays the situation.



What problems might there be in the way your camera displays the situation?

BACK-UP CAMERA



Understand

WHAT IS IT?

A back-up camera, also called reversing camera or rearview camera, is a special type of camera attached to the rear of your vehicle. It helps you see the area behind your car when backing up. It often provides more visibility behind your car than you can get by turning your head. This added visibility can help prevent a crash when backing up.



HOW TO USE IT?

Activation

When you shift your car into REVERSE, the back-up camera automatically turns on. A video display shows an image of the area behind your car. This display screen is usually in the rearview mirror or on the dashboard.



In some systems, the image may include lines to show distance. Some back-up cameras have pathway lines to help you estimate the space required when parking. The lines may adjust based on your steering and wheel movements.

Deactivation

When you shift out of REVERSE, the back-up camera will turn off. Some cars also allow you to turn off the back-up camera manually by pressing a button.

HOW DOES IT WORK?

Your back-up camera is located in the rear of your car. It is connected to a display screen that shows you what is happening in the area behind the vehicle.



Back-up Warning System

Some back-up camera systems include sensors in the rear bumper. These sensors detect objects behind your car. When an object is detected, your system will provide a warning light and/or a warning sound.



Rear Cross Traffic Alert

Some cars are also equipped with Rear Cross Traffic Alert. This system helps you backing out of a parking space when your vision may be blocked. Sensors monitor both sides of the vehicle. If an oncoming vehicle is detected, it will alert you.

