



BODYGUARD

Frequently asked Technical Questions

What is the recommended Internet Speed?

A wired connection with a minimum upload speed of 15 Mbps to support the efficient transfer of video recordings.

- Each vehicle recording consists of 6-10 camera angles, with an average data size of approximately 150MB.
- The actual upload size may vary based on camera settings, resolution, and the number of cameras in use.
- The system stores video data locally before uploading it to the cloud to ensure reliability in the event of internet interruptions.
- This recommendation is based on standard vehicle workshop traffic (approximately 100 vehicles / day)

For high-volume environments, bursts of traffic, or non-standard use cases, additional bandwidth may be required to ensure timely uploads. If you anticipate higher throughput or have specific operational needs, we encourage you to contact our team for recommendations tailored to your setup.

What is the highest/lowest temperature that BODYGUARD can withstand?

Cameras are rated for operating temperatures -30C to 50C.

How do you deal with strong reflections?

BODYGUARD is designed to minimize the impact of strong reflections, such as sunlight glare, by utilizing multiple camera angles to capture the vehicle from different perspectives. This ensures that even if one angle is affected by reflections, other viewpoints provide clear and reliable imaging for accurate analysis. Additionally, the system's exposure settings and image processing techniques help enhance visibility in varying lighting conditions.

How many images are taken per vehicle?

Images are captured as a function of the frame rate of the cameras and the speed of the vehicle travelling through the towers as well as the number of cameras.

To calculate the total number of images captured:

- Frame rate: 30 frames per second (default configuration)
- Assuming car is visible in the cameras for 5 seconds
- Number of cameras: 6

Total images per camera:

$30 \text{ frames/sec} \times 5 \text{ sec} = 150 \text{ images per camera}$

Total images from all 6 cameras:

$150 \text{ images/camera} \times 6 \text{ cameras} = 900 \text{ images}$

So, you can expect 900 images to be captured in this scenario.

Can the camera settings be fine-tuned?

Yes, the camera's color and exposure settings are adjusted to optimize performance for different environments, ensuring accurate image capture in varying lighting conditions. Our camera settings are tuned with the purpose of being able to optimally identify damage on the vehicle with the lighting from the towers projected onto the vehicle.

What is the resolution?

1920 x 1080

What is the color spectrum?

Full color spectrum

What is the format being used?

The imaging format used is H.264-encoded video stored in MP4 format, with individual frames available as JPEG images.

- Each camera angle is recorded as an MP4 video using the H.264 codec for efficient compression and storage.
- Individual frames from the video can be extracted as JPEG images for analysis or review.
- This setup ensures a balance between high-quality imaging and optimized file sizes for efficient storage and transfer.

What is the recommended speed a vehicle may drive through BODYGUARD?

The recommended speed is 3-5 km/h. The slower the vehicle is travelling the more images that are captured from a camera.