Perceptics engineers and delivers the most accurate and high-performance imaging systems in the industry. Our technologies produce highly precise intelligence that helps our customers make optimal decisions. Perceptics prides itself on developing superior technologies and delivering unmatched customer service. We are the imaging company that listens to your needs, forms lasting relationships, and strives to always meet your expectations.

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WE READ YOU LOUD AND CLEAR™
The Perceptics LPR solution boasts an industry-leading 95% attach rate, which means fewer exclusions, more plate reads and a higher level of accuracy. The system’s success is built upon the high quality images our LPR produces and our OCR engine’s unsurpassed expertise in identifying North American plates. Each LPR includes our sophisticated OCR engine, which can be scaled to accommodate your highest throughput. To help maximize performance, the Central Management Console provides a dashboard that monitors the health status of every LPR lane connected to the network and alerts you to the number of images needing to go to manual review.

- 100% image capture
- Over 35 years of experience reading North American plates
- 99% accuracy in reading full license plate number, jurisdiction of origin and plate type

The Perceptics OCR “brain” trains day and night at thousands of sites across North America. No other system has the breadth of experience reading so many different plate types, with ongoing exposure to the latest plate changes. The Perceptics LPR system passes image data to a number of “virtual experts” which leverage neural net and other technologies to interpret the image from a variety of perspectives. Each expert computes a confidence for each character and for the license plate, and all expert results are combined to deliver extremely reliable confidence values to your back office application.

The Perceptics OCR is scalable to meet your maximum throughput.

- New OCR software configurations can be easily uploaded remotely
- Performance reports measure accuracy rates before and after Ground Truthing

To ensure your system performs to the highest standards, we use “Ground Truthing”—a process in which humans routinely sample and validate OCR interpretations—to fine-tune our OCR algorithms and teach our OCR engine to recognize subtle new details and nuances. Ground Truthing ensures that the OCR software is up to date and optimized for the plate styles and features as they change throughout the life of the installed systems. It can also help identify and address potential issues with the hardware.

Ground Truthing can be performed at predefined intervals as part of a continuous improvement program.

Plates that are damaged or partially obscured yield low-confidence reads. They may even require costly manual reviews. While the OCR engine interprets the features on the plate image as alphanumeric characters, the Perceptics UVID module automatically encodes the pattern of shapes on and around the license plate region, creating a digital fingerprint or “signature.” A UVID-enhanced system allows the toll operator to efficiently locate all the images and low-confidence OCR results associated with a given vehicle trip by matching similar signatures/fingerprints. This facilitates the gathering of the associated trip information while minimizing the need for manual review.

Encoding signatures from front as well as rear plates further increases the odds of finding a strong ID match.