



An Optical Recognition System using LabVIEW and Machine Vision is one kind of an Intelligent Transport System and is of considerable interest because of its potential applications in highway electronic toll collection and traffic monitoring systems. This type of applications puts high demands on the reliability of an OCR System. The purpose of this work was to develop a real time application which recognizes license plates from cars at a gate, for example at the entrance of a parking area or a border crossing. The system, based on regular PC with video camera, catches video frames which include a visible car license plate and processes them. Once a license plate is detected, its digits are recognized, displayed on the User Interface or checked against a database. The focus is on the design of algorithms used for extracting the license plate from a single image, isolating the characters of the plate and identifying the individual characters. The Proposed system has been implemented using Vision Assistant & LabVIEW The performance of the system has been investigated on real images of about many vehicles. Recognition of about 98% vehicles shows that the system is quite efficient.

## Design & Development of Optical Character Recognition (OCR) system for License plates using LabVIEW & Machine Vision