

# TEKREX<sup>®</sup>

## Case Studies

### Fiber Cassette Test System

#### Challenge

An autonomous driving simulator uses a custom, highly dense fiber optic cassette. The cassette needs to be performance tested to detect any attenuation issues or bad splices.

#### Our Solution

TekRex created a test fixture solution including both the software and hardware.

The software was written through NI's LabVIEW to provide a custom interface that passed or failed a unit under test (UUT) and created a test report which was then stored to a database.



#### Results



The cassette itself is part of a system that can simulate days of driving in a matter of seconds. The TekRex-designed test fixture replaces \$30,000 worth of equipment with parts costing around \$150.



Form factor was also improved, with the original being about the size of a desk and TekRex's version being only the size of half a sheet of paper.