

## Mx-Vision™ for Validation Testing

MicroMax's Mx-Vision™ extends the Mx-Suite™ validation tools with machine vision technology. You now can easily and automatically test your electronics using your native human-machine interfaces. Driver information systems, speedometer clusters, infotainment systems, and any other devices that have visual actuation can be quickly tested using the Mx-Suite™.

Mx-Vision™ frees your human testers from manually performing tests and spending their valuable time analyzing test data for pass/fail decisions.

### Applications

Mx-Vision™ is used for design verification and production validation of electronic products by monitoring physically activated devices during operation.

**Types of Devices to Test:** Driver information systems, clusters, HVAC interfaces, multimedia systems, mechatronics position actuators, etc.

**Design Validation tests:** function and performance of the product.

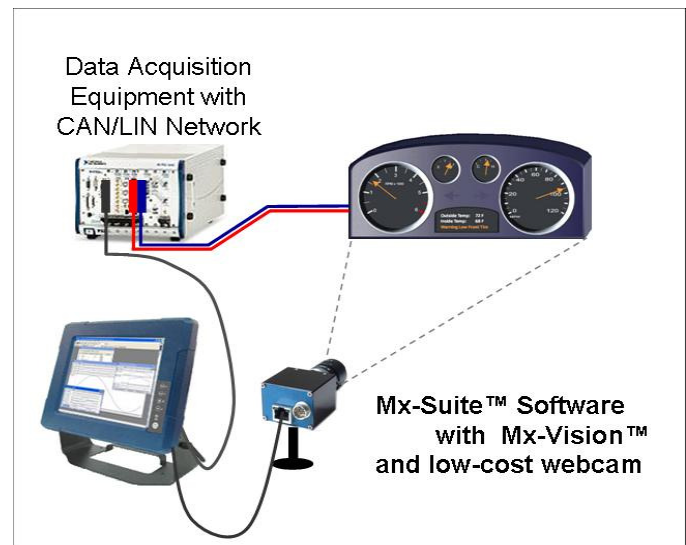
**Environmental tests:** temperature, dirt, corrosion, conductivity, pressure, and radiation.

**Electromagnetic tests:** electromagnetic compatibility (EMC) and electromagnetic interference (EMI)

**QRD tests:** quality, reliability, durability for design verification or pre-production tests.

### Benefits

- Low-cost machine-vision system
- No script writing or custom software
- Re-use design verification test cases
- Lights-out testing, with automatically produced test reports
- Less time, less money, less problems



**Mx-Vision™ application of Mx-Suite™**

### Features

#### Eliminate manual testing!

- Pattern and geometric matching for gauges, dials, lights, telltales.
- Optical character recognition/verification.
- Color matching
- Symbol to alphanumeric value conversion
- Automatic golden test case comparison
- Performance (frames/sec) is scalable based on your choice of camera

Contact us at [info@mrmx.com](mailto:info@mrmx.com) for more information or a demonstration of Mx-Suite and Mx-Vision™.