

## VISIONTRX™ VISUAL MONITORING SYSTEM

ETS-Lindgren's VisionTRX™ Visual Monitoring System redefines automated movement based analysis of Equipment Under Test (EUT) during Electromagnetic Compatibility (EMC) testing.



ETS-Lindgren's VisionTRX Visual Monitoring System redefines automated movement based analysis of Equipment Under Test (EUT) during Electromagnetic Compatibility (EMC) testing. In order to verify EUT behavior, the software allows automated visual monitoring of relevant parameters during exposure to the required electromagnetic field strengths. EUT may include speedometer needles, dash lights, LEDs, radios, heads up displays, etc. – the possibilities are limitless.

This vision instrument can function either independently or seamlessly with ETS-Lindgren's TILE!™ Totally Integrated Laboratory Environment, the powerful VisionTRX platform provides extensive time-saving capabilities with vast potential in your lab.

### Key Features

- Compatible With Most Cameras
- Extensive Monitoring Parameters
- Customizable Limits
- Active Analysis
  - Including Frequency Tests for Turn Signals
- Event Recording
- Active Data Text Overlays (Selectable Colors)
  - User Defined (Operator, EUT id, frequency, level, time/date)
- Thresholding
- Automatic Failure Detection
- VXI-11 Compliant

### Features

#### Supports Multiple Cameras

VisionTRX can support one or more cameras and even combine images from multiple cameras. It is compatible with almost any type of camera including ETS-Lindgren's 4340 HD-CCTV System, commercially available security cameras with RTSP and EMC hardened cameras for inside chambers. Inexpensive USB Cameras can also be used with VisionTRX outside chambers to monitor auxiliary equipment. Any Camera with an HDMI / DVI can be used with optional USB frame grabber including Messtechnik GmbH, Pontis and ChangeN.

#### Camera Functionality

Capable of supporting a frame rate of up to 60 Frames-per-second (fps) at 1920 x 1080 (60 Hz), depending on the camera selected. Optional frame grabbers allow for easy interface with HDMI, DVI Inputs. Vibration tolerance is user-definable based on region size, giving the user complete control.

#### Extensive Monitoring Parameters

Allows monitoring on color, intensity, and movement. It also supports Optical Character Recognition (OCR) and monitoring of numeric characters.

## Customizable Limits

Define regions to be monitored and set limits relative to the parameter being monitored.

## Active Analysis

Allows active real-time analysis and fault detection for each region.

## Event Recording

Allows recording and storing of all video collected during a test, along with the ability to jump directly to failures. Collected data can easily be remotely shared with clients or exported for reports

## Active Data Overlay

Text with selectable colors can be overlaid in the recorded video. When functioning in parallel with TILE!, the software allows live data to be overlaid on the recorded video. This could include power level, frequency, time/date, User defined: operator, EUT id, and etc.

## Thresholding

When functioning in parallel with TILE!, the software allows automatic thresholding to pinpoint the exact level where faults occur.

# Specifications

## Additional Specifications

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### Recommended System Requirements

- Microsoft Windows® 10
- Intel® Core i7 or greater processor
- 8 GB RAM
- 1 TB of free HDD (SSD recommended)
- DVD/CD-ROM Drive (can use download if needed)
- 2 free Ethernet ports
- 2 free USB ports
- National Instruments GPIB Card or USB
- 24 inch or Greater Monitor (4K recommended)
- Speakers, Keyboard, Mouse
- Optional Frame Grabber (depending on camera type)

## Product Options

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- Complete Turnkey Systems Available
  - Computers
  - Monitors
  - Framegrabbers (Convert HDMI/DVI)
  - Image Processor Cards for Supercomputer-like Processing Using nVidia Video Cards with CUDA
- Training
- Installation
- Integration