

# **apis**<sup>®</sup> Automated Pantograph Inspection System



*Decrease  
Dwell Time  
While Increasing  
Safety*

**duostech**  
connected intelligence

# apis<sup>®</sup> Automated Pantograph Inspection System

## Overview

The Automated Pantograph Inspection System (**apis**<sup>®</sup>) is an intelligent pantograph imaging and evaluation system that virtually eliminates the need for routine manual pantograph inspections.

This technology provides multi megapixel images at various speeds which enhances accuracy and precision when conducting inspections on the pantographs. The system integrates the high-resolution pantograph imaging with a robust, browser based user-friendly interface for remote inspection.

*Safely*

*inspect electrified vehicles  
while protecting  
power infrastructure  
and minimizing  
unscheduled down time.*

## How it Works

01

### Image Capturing

- High-Resolution / Machine Vision Cameras
- Thermal Cameras
- Infrared Strobe Lights
- Eye-Safe Laser
- RFID Reader
- AEI Reader

02

### Image Management

- Improve **search efficiency** by storing digital video images as single record in SQL database
- **Scalable** storage configuration for Inspection Data

03

### Remote Inspection

- Enables **remote inspection of defects** (bends, chips, cracks, other worn conditions etc.)
- Identify and schedule maintenance and repairs ahead to **eliminate dwell time**

04

### centraco<sup>®</sup>

- User friendly Inspection UI
- Machine Learning / Machine Vision (A.I.\*) Camera Imaging Module
- Analyzes and correlates inspection data while tracking situational events
- Intuitive con-ops minimizes operator training time

\* Powered by **truevue360<sup>™</sup>** A.I.

## System Benefits



Reduce Dwell Time/  
Increase ROI



Optimize Inspection  
Workflow



Safe, Efficient, & Reliable  
Worker Environment



Advance Planning for  
Maintenance & Repairs



*inspect  
with efficiency*



Contact Us | All products, systems & solutions are backed by duostech 24 x 7 x 365 global training, maintenance & service program



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