



Proven non-contact solutions
for transmission line monitoring,
assessment & dynamic line ratings

FEATURES AND CAPABILITIES:

- Modular non-contact monitoring system can be deployed without the need for outages, crews, or bucket truck / hot-stick equipment
- Flexible installation options, including a direct tower mount configuration
- Accurate real-time and forecasted data on key conductor performance parameters
- Anomaly detection algorithms and asset health trend indicators / alerts
- Private cloud-based interface to view data, configure customized alerts, and download historical information
- Secure datafeed for EMS integration
- Complete turnkey solution, including installation, warranty, and data delivery setup

LINE DATA PROVIDED:

- Real-Time Dynamic Line Ratings (DLR)
- Forecasted Line Ratings
- Real-Time Short Term Emergency Limits
- MW, MVAR, Power Factor
- Conductor Sag / Clearance
- Conductor Blowout / Horizontal Movement
- Conductor Temperature
- Icing and Galloping Detection
- Site Specific Weather Data

Transmission line operators, planners, and asset health engineers are facing the challenge of accommodating additional renewable generation and increasing system reliability despite an aging infrastructure and tight budget constraints.

The LineVision V3 system is a proven platform to enhance the capacity, reliability and flexibility of transmission lines. Featuring patented non-contact electromagnetic field and optical sensors, the system is a complete turnkey solution that is deployed under critical lines without the need for disruptive line outages or utility installation crews.



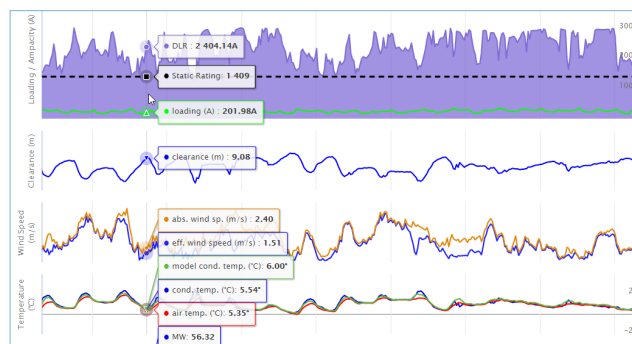
LineVision's patented monitors—mounted here to the steel tower structure—deliver highly accurate, real-time data on key operating parameters

- PROVEN** Leveraging over 15 years of transmission line monitoring expertise, the EMF power flow monitoring hardware is the most widely deployed monitor with over 5,000 units worldwide.
- PRECISE** When integrated with a state-of-the-art optical sensor, the LineVision V3 system provides unparalleled granularity and accuracy.
- FLEXIBLE** The LineVision V3 system's non-contact design allows it to be mounted on the base of the tower, higher, or ground-mounted depending on client preferences and easement constraints. Systems can be easily redeployed as needs change and are compatible with all conductor types and voltage from 33kV and higher.
- SECURE** Clients receive a powerful and secure web-based interface to view real-time, forecasted, and historical data. Clients also have access to an encrypted datafeed for EMS integration.
- COMPLETE** LineVision V3 is a turnkey system designed to avoid additional OPEX costs and does not require utility field crews or equipment. We take end-to-end responsibility ensuring a successful project and the delivery of high-quality transmission line data.

Asset Management & Dynamic Line Ratings

The LineVision V3 system provides utilities with unrivaled visibility on critical parameters for transmission lines. The combined EMF and optical sensors deliver a new level of granularity and accuracy on physical and electrical line parameters. Transmission operators can enhance wide area situational awareness, increase network flexibility with visibility on actual line capacity, and improve line utilization with DLR.

LineVision enables utilities to implement intelligent condition-based asset management strategies. Network reliability is enhanced through real-time alerting when transmission assets are experiencing anomalies such as icing, galloping, atypical motion or tower structure issues. Utilities can leverage LineVision data to improve the allocation of scarce CAPEX dollars — identifying lines in need of repair or replacement and extending the useful life of healthy lines.



LINEVISION V3 SYSTEM INCLUDES:

- Optical Sensor for conductor position and motion measurement
- EMF sensor for measurement of electrical parameters (MW, MVAR, phase angle)
- Full hardware warranty and software license
- Installation & calibration
- Weatherproof IP66-rated enclosure with solar panel and battery backup
- Data connectivity to client via secure web interface and/or datafeed

Request a custom consultation today to transform your grid's reliability, flexibility & resiliency.