



**Monitoring Solutions**

### Description

*StructureView is an integrated monitoring approach tailored to your specific needs. After our staff develops an understanding of your project objectives, we develop a cost-effective turnkey solution that may include sensor selection, installation, data acquisition, remote access and analysis.*

### Corrosion Monitoring

Corrosion is a major deterioration mechanism that impacts service life. Monitoring is used to alert the onset of corrosion or to determine corrosion progression over time.

- Corrosion rate
- Corrosion potential
- Chloride penetration
- Concrete resistivity
- Temperature
- Relative humidity
- Stray current

### Cathodic Protection Monitoring

Measure the performance and determine the service life of galvanic and impressed current cathodic protection systems.

- Anode current
- Corrosion potential
- Polarization
- Temperature
- Rectifier monitoring & control



### Uses & Benefits

Monitoring solutions are designed for temporary or permanent installation in new construction or existing structures.

- Determine in-place performance
- Validation of design and modeling
- Develop and verify repair strategies
- Monitor construction impact on adjacent structures
- Hazard monitoring for increased safety
- Early detection of deterioration

### Remote Access

Many projects will benefit from the capability of remote access to locally collected data.

- Web interface
- Automated data collection
- Cloud based data storage
- Display and analyze data online or in pdf format
- Programmable alarms with email & SMS alerts
- Secure access and tiered user credentials
- Reduced inspection costs

### Structure Monitoring

Structural monitoring measures how infrastructure performs and responds to the environment over time.

- Load distribution
- Vibration
- Tilting, rotation and deflection
- Displacement
- Crack monitoring
- Tide levels
- Temperature

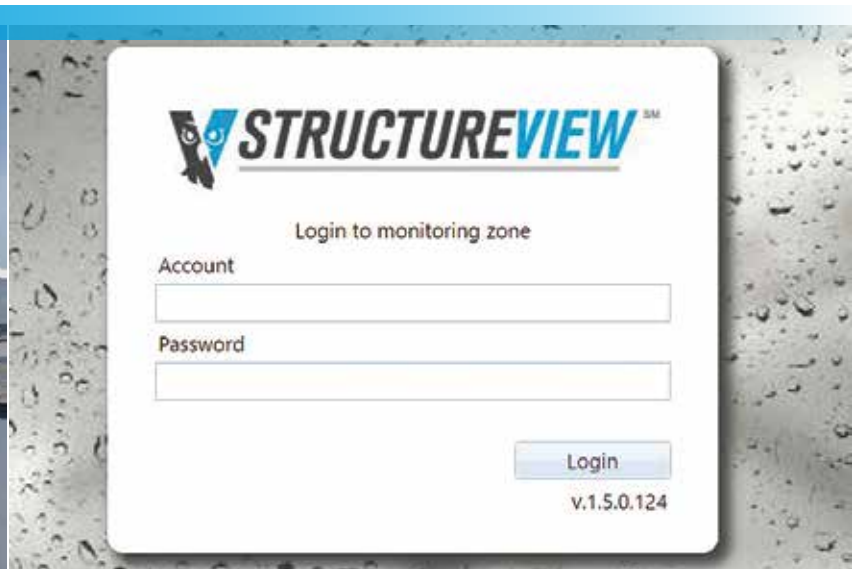
### Construction Site Monitoring

Analyze environmental conditions on the jobsite and the effect of construction activities on adjacent structures for reduced risk and improved safety.

- Temperature
- Relative humidity
- Dew point
- Airborne particulates
- Gasses such as oxygen & carbon monoxide
- Noise level
- Vibration



## Monitoring Solutions



**VCS** provides solutions for engineers, contractors and owners facing corrosion and concrete durability concerns. We offer the following services to protect infrastructure and building assets.

- Nondestructive testing services
- Corrosion engineering
- Cathodic protection design services
- Durability and service life modeling
- Monitoring solutions

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