



# Corona Detection

**Corona detection is a predictive inspection that locates harmful partial discharges on medium and high-voltage electrical distribution networks (5000 volts or more).**

The term "corona" comes from the "corona effect", a phenomenon of partial electrical discharges seen as light points of ultraviolet wavelengths not visible to the naked eye.

Coronas are a result of anomalies such as equipment that is faulty, dirty, or that has lost its insulation capacity.

The ionization of the humidity in the air causes the discharges to generate acid that is deposited on the equipment and accelerates its deterioration.

We use a Daycor portable camera to detect ultraviolet emissions produced by discharges to pinpoint their location, calculate them, and analyze the significance of anomalies.

## DETECTION IS DONE QUICKLY AND AT A SAFE DISTANCE.

Charging current (amp) is not required on the network; it must only be switched on (voltage). Equipment categorized as problematic can be repaired in the short or long term according to the severity indicated in the report.

## MAINTENANCE DOWNTIME IS MORE EFFICIENT AND FOCUSED.

**Much less time is required** for inspection compared to the traditional method using aerial lifts.

**Much less expensive** at the time of inspection, but also in the long term since maintenance costs are lower, there is less power loss, less noise, less deterioration of equipment, fewer accident hazards, lower risk of outages and shutdowns.