

# CORONAFINDER



## HIGH VOLTAGE CORONA DETECTION

CoronaFinder™ is a direct-view system that allows engineers and inspectors to detect, identify, and document corona and arcing in high voltage power generation and transmission equipment. Corona is an intense electrical field that, in lighted conditions, is invisible to the naked eye and causes costly equipment damage, outages, flashovers, and downtime. Used extensively in laboratory, manufacturing, and factory environments, CoronaFinder is a simple, easy to operate system that allows users to quickly see, and with optional cameras, record corona and arcing during assembly, testing, installation, and in-service operation of high voltage electrical equipment.

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Fully compliant with IEEE-1799-2012 recommended quality control practices, CoronaFinder supports in-service predictive maintenance inspections to improve safety, extend equipment lifetime, lower failure risk, and reduce costly repairs and downtime for:

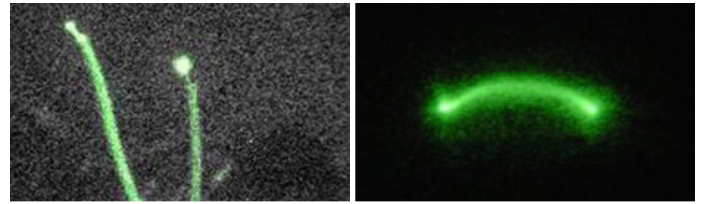
- Motors and generators
- Rotors, stator bars and generator windings
- High voltage power supplies and semiconductors
- High power transmitters, amplifiers and antennas
- High voltage transformers and insulators
- Radar and X-ray equipment

CoronaFinder's compact, lightweight design allows for hand-grip or tripod mount operation, and offers user-adjustable focus, eyepiece, and iris capabilities. Corona and arcing is made clearly visible through a low distortion quartz UV lens. CoronaFinder can be used indoors with full lighting or in low light outdoor conditions. Two filters are included to support various lighting conditions. CoronaFinder is compatible with IRISS, FLUKE, and Hawk IR sight glass for closed cabinet inspections.

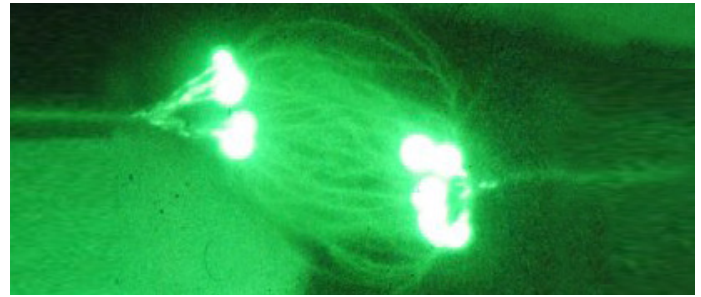
CoronaFinder can be configured with an adapter to attach a variety of optional digital, CCD and digital video cameras to record and download images and video for review, annotation, reporting, and storage. CoronaFinder imagery can also be "zoom" viewed on the camera display.



CoronaFinder with optional camera



Test wires 12 mm gap as viewed through CoronaFinder



High voltage corona image using CoronaFinder

## SPECIFICATIONS

<b>CoronaFinder:</b>	Product no. NV-9
<b>Image Type:</b>	UV, direct view system
<b>Standard Lens:</b>	78 mm with adjustable iris and focus
<b>Sensitivity:</b>	10 pC at 1 m, 50 pC at 10 m, pinpoint with 2 kV at 1 m 50-70 mA/W at a wavelength between 200-300 nm
<b>Batteries:</b>	2 AA (100 hours continuous operation)
<b>Size:</b>	242 mm x 55 mm x 178 mm
<b>Weight:</b>	1.2 kg with batteries
<b>Lens Mount:</b>	1" C-mount with back focus adjustment
<b>Eyepiece:</b>	Adjustable diopter, removable rubber eyecup
<b>Filters:</b>	Supplied with 2 filters for various lighting conditions
<b>Shipping Case:</b>	Rugged, waterproof Pelican case
<b>Warranty:</b>	1 year
<b>Options:</b>	Digital, CCD and digital video cameras Universal camera adapters Lenses and tripods (call for availability)