

# ICI | Corona Camera



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# ICI | Corona Camera

The ICI Corona Camera is the latest in solar blind UV camera technology, which detects, pinpoints, and documents flash-arc corona, partial discharge, as well as micro arcing and arcing. The Corona Camera is a highly sensitive, powerful tool for detecting UV signals in full daylight from long distances, making it an ideal predictive maintenance device for overhead transmission lines and high voltage substations.



## Features

- Solar Blind
- High Sensitivity to UV Signals
- Precise Location of Corona Sources
- Auto Focus of UV Channels
- Auto Focus of Visible Channels
- Light Weight (1.5 kg)
- Low Power Consumption
- UV Event Counter

## Applications

- Transmission Line Inspections
- Electrical Inspections
- High Voltage Component Inspections
- High Voltage Panel Inspections
- Predictive Maintenance
- Scientific Research
- Substations

## Visible Specifications

- **Detector Array:** Custom
- **Pixel Resolution:** 640x480
- **Minimum Visible Light Sensitivity:** 0.1 Lux
- **Focus:** Automatic / Manual
- **Focus Range:** 1.5m ~ ∞
- **Zoom:** Digital: 12x, Optical: 10x
- **Image Polarity:** B&W, Color

## Options & Accessories

- Tripod: 1/4" - 20
- Video Output: CVBS / HDMI
- Zoom: 4x

## UV Specifications

- **Detector Array:** Custom
- **Pixel Resolution:** 640x480
- **Spectral Response:** 240 nm to 280 nm
- **UV Sensitivity:** 2.2 x 10<sup>-18</sup> W/cm<sup>2</sup>
- **FOV:** 7.2° x 5.4°
- **Minimum Discharge Detection:** 1 pC @ 10 m
- **Minimum RIV Sensitivity:** 3.6 dBµV @ 1 MHz
- **Operation Range:** -15 °C to 50 °C
- **Storage Range:** -25 °C to 60 °C
- **Screen:** 5", LCD Screen 800x480
- **Image Modes:** Visible, UV, Combine
- **Overlay Accuracy:** < 1 Mrad
- **UV Image Polarity:** White, Red, Green, Yellow, Purple
- **Dimensions (with lens):** 290 x 136 x 86 mm (H x W x D ± .5 mm)
- **Encapsulation:** IP 54, IEC 010-1
- **Video Format:** AVI, > 1 hr Video, 1 GB
- **Video Output:** Standard: PAL, Optional CVBS / HDMI
- **Image Format:** JPG
- **Image Storage:** SD Card up to 32 GB, 1000+ Images
- **Media Download:** Card Reader, Wifi, USB, Wifi SD Card
- **Voice Annotation:** Stored with Image
- **Weight:** 1.38 kg
- **Battery:** Li-ion, Rechargeable
- **External Power:** DC 9V ~ 12V
- **Power Consumption:** 9 W
- **Adapter:** AC: 110V ~ 240V or DC: 50 Hz ~ 60 Hz / 9V 3.8A
- **Operation Time:** 4 Hours
- **Zoom:** Standard: 2x, Optional: 4x
- **Interface:** MicroUSB
- **Focus:** Automatic / Manual
- **Focus Range:** 1.5m ~ ∞
- **Humidity:** 90 % non-condensing
- **Status Indicators:** Battery, Memory, Gain, Counting, Date, Selected Functions, Focus, Inspection Mode, Corona Color, GPS, Temperature, and Humidity

