



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
- 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

Options

- Optional: 4x zoom
- Optional: CVBS/HDMI video out
- Optional: 1/4"-20 mount tripod
- Optional: Wi-Fi module



Corona Camera

Specifications

- **Pixel Resolution:** 640 x 480
- **Operation Range:** -15 °C to 50 °C (5 °F to 122 °F)
- **Storage Range:** -25 °C to 60 °C (-13 °F to 140 °F)
- **Detector Array:** custom
- **Measurement Distance:** lens dependent
- **Overlay Accuracy:** < 1 Mrad
- **Focus:** automatic/manual
- **Focus Range:** 1.5 m ~ ∞ (4.92' ~ ∞)
- **FOV:** 7.2° x 5.4°
- **Spectral Band:** 240 nm to 280 nm
- **UV Sensitivity:** 2.2 x 10⁻¹⁸ W/cm²
- **Minimum Discharge Detection:** 1pC @ 10 m (32.81')
- **Minimum RIV Sensitivity:** 3.6 dBμV @ 1 MHz
- **Dynamic Range:** 14-bit
- **Humidity:** 90% non-condensing
- **Pixel Operability:** > 99 %
- **Dimensions (without lens):**
290 mm x 136 mm x 86 mm (L x W x D ± 0.5 mm)
(11.41" x 5.35" x 3.39" (L x W x H ± 0.02"))
- **Weight (without lens):** 1.38 kg (3.04 lbs)
- **Battery:** Li-ion, rechargeable
- **Power:** DC 9V ~ 12V, ≤10.8
- **Power Management:** automatic shutdown/sleep mode
- **Adapter:** AC: 110V ~ 240V or DC: 50 Hz ~ 60 Hz/9V 3.8A
- **Operation Time:** 4 hours
- **Zoom:**
 - Standard: 2x
 - Optional: 4x
- **Interface:** MicroUSB
- **Video Format:** AVI, > 1 hr video, 1 GB
- **Video Output:** Standard: PAL or NTSC
- **Image Modes:** visible, UV, combined
- **Image Format:** JPG
- **Image Storage:** SD Card (up to 32 GB)
- **UV Image Polarity:** white, red, green, yellow, purple
- **Media Download:** card reader, USB
- **Screen:** 5" LCD screen, 800 x 480
- **IP Rating:** IP54, CE IEC 010-1
- **Visible Camera:**
 - **Detector Array:** custom
 - **Pixel Resolution:** 640 x 480
 - **Minimum Visible Light Sensitivity:** 0.1 Lux
 - **Focus:** automatic/manual
 - **Focus Range:** 1.5 m ~ ∞ (4.92' ~ ∞)
 - **Zoom:** 12x digital or 10x optical
 - **Image Polarity:** color or black and white