



# CTRL UL101 ELECTRICAL INSPECTOR

*Detect corona discharge.  
Inspect electrical panels safely.*



## Safe.

The CTRL Electrical Inspector allows inspection of dangerous electrical equipment from a safe distance without the need to remove electrical panels

## Early detection.

The CTRL Electrical Inspector allows for early detection of corona discharge, tracking, arcing, and partial discharge

## Panel and Substation Inspection.

Use the airborne attachments to safely inspect sealed electrical panels and substations with the CTRL Electrical Inspector and save time and money on transmission and distribution loss

## APPLICATIONS

**corona discharge** | electrical panels | electrical tracking  
| transformers | **partial discharge** | electrical arcing |  
substations

## ELECTRICAL INSPECTION

The **CTRL UL101 Electrical Inspector** includes the UL101, PowerBeam 300, and additional accessories to allow for a full inspection of electrical equipment. The inclusion of the concentrator set and polycarbonate extension probe makes the inspection of dangerous electrical panels possible and safe.

## FEATURES

- Identify arcing and corona discharge with airborne detection attachments
- Inspections performed at a safe distance
- Ability to inspect sealed panels
- Lightweight, accurate, easy to use
- Range of detection up to 300 feet

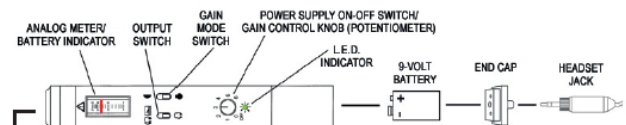


# UL101 Electrical Inspector Specifications

<b>PowerBeam 300 Dimensions</b> Dish Diameter	21" x 17" x 1.26" (533 x 432 x 32 mm) 13" (330 mm)
<b>PowerBeam 300 Weight</b>	45 oz (1.3 kg)
<b>PowerBeam 300 Power Supply</b>	Two (2) Standard AAA Alkaline Batteries (for laser)
<b>Battery Life</b>	> 20 hours
<b>PowerBeam 300 Warranty</b>	1 Year Parts & Labor
<b>Receiver Dimensions</b>	8.75" x 1.26" x 1.26" (222 x 32 x 32 mm)
<b>Receiver Weight</b>	11.6 oz (330 g)
<b>Housing</b>	Extruded Aluminum, wall thickness .09" (2.3 mm)
<b>Receiver Power Supply</b>	9-Volt Alkaline (> 45 continuous hours use)
<b>Kit Shipping Dimensions</b>	21" x 18" x 7" (53 x 18 x 46 cm)
<b>Kit Shipping Weight</b>	14 lbs (6 kg)
<b>Distance of Reception</b>	Up to 300 feet (90 m)
<b>Sensitivity Threshold</b>	Minimum Intensity: $10^{-12}$ W/m <sup>2</sup> (0 dB SPL) Minimum Ultrasonic Pressure: $2.0 \times 10^{-5}$ PA @ 40 kHz
<b>Frequency Bandwidth</b>	1.8 - 2.2 kHz @ level 0.7 (or -3 dB SPL)
<b>Working Resonance Frequency</b>	40 kHz +/- 1.5 kHz
<b>Operating Temperature Range</b>	-4° to +130° F (-20° to +54° C)
<b>Headset</b>	Industrial Grade/600-Ohm Impedance 21-24 dB External Noise Attenuation Over or Behind-the-Head (for use with hardhat)
<b>Warranty</b>	5-year parts & labor on all manufacturer's defects. No calibration required. Requalification of performance (once per year)

## CTRL UL101 Receiver and attachments

Not pictured: Carrying Case, David Clark Headseat, Operator's Manual, Training CD



## PowerBeam 300 Assembly

