

CTRL UL101 Corona Detector

Power Distribution & Transmission
Has a Cost-Effective Solution!



PREDICTIVE

The CTRL Corona Detector allows for early detection of corona discharge, tracking, and arcing, reducing transmission loss and outages.

SAFE

The CTRL Corona Detector allows for long distance inspections of dangerous electrical equipment.

EXTENDED RANGE

The CTRL Powerbeam 300 can accurately pinpoint sources of ultrasound to within 1 degree from center. Giving the user the ability to locate leaks up to 300 feet away with no need for a ladder or fork lift.

Applications

corona discharge

electrical tracking

transformers electrical arcing

Corona Detection

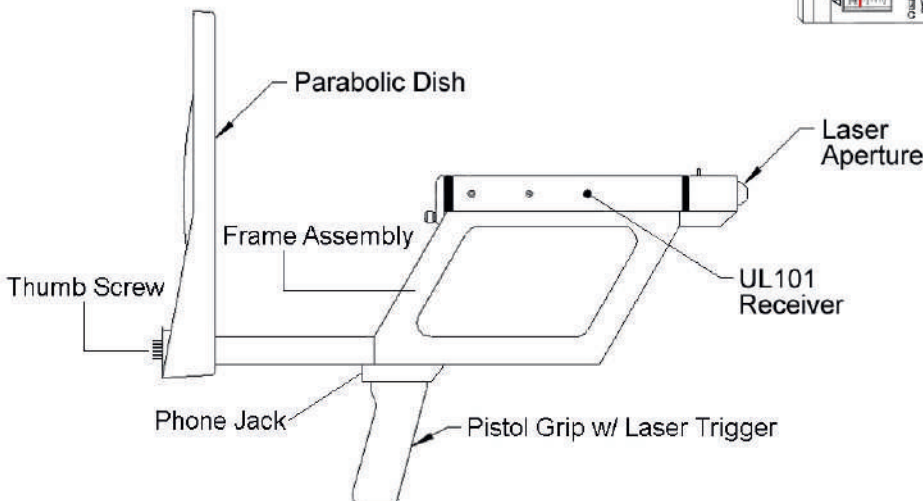
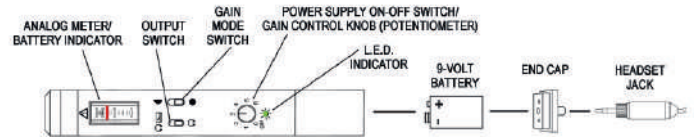
UL101 Corona Detector Specifications

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

The **CTRL UL101 Corona Detector** combines the CTRL UL101 and PowerBeam 300 to indicate and locate the ultrasound produced by arcing and corona discharge. In addition, the Powerbeam 300 improves the sensitivity of the UL101 and extends range of reception for leak detection to 300 feet.

Features include:

- Pistol type detector with fixed frequency response range
- Accuracy to within 1 degree from center
- Extended range to 300 feet
- Laser pointer and rifle site for accurate pinpointing
- Lightweight, compact and easily assembled
- No recharging of batteries
- No calibration or special maintenance



Not Pictured: Carrying Case,
David Clark Headset, Operator's
Manual, Training CD