



LINEVISION LUX™

The industry's only **non-contact sensor** that is transforming the way power lines are monitored.



Illuminating the path to a safer and more efficient power grid

Welcome to a new era in transmission line sensing with **LineVision LUX**, where insight meets innovation. Just as lux represents the SI unit of illuminance, our technology illuminates opportunities previously hidden in the grid for increased capacity and line health visibility.

This patented sensor platform mounts quickly and securely to transmission towers rather than to live lines, eliminating the need for outages, expensive installation equipment, and high-risk work for line crews. By utilizing LiDAR technology and sensor-validated methodologies, LineVision delivers the most robust Dynamic Line Ratings and analytics on line health and capacity. LUX can monitor all phases of power in a span with a single sensor, delivering precise data in real-time to optimize grid operations and accelerate the transition towards a brighter, more sustainable future.

INTEGRATION & OPERATIONS

Comprehensive design and dependable partnership

Operating Temperature	-4° F to +131 F (-20° C to +55° C)
Humidity	0% to 100% relative humidity
Electromagnetic Compatibility	FCC 47CFR PART 15 SPT B:(2023-02), IEC 61000-6-2:2016 Ed.3.0, IEC 61000-6-4:2018 Ed.3, ETSI EN 301 489-1:2019 Ed.2.2.3, ETSI EN 300 386:2016 Ed.2.1.1, VCCI V-32 2019
Tower Compatibility	Lattice towers, monopoles; adaptable platform mounting brackets
Product Assembly	All LineVision products are assembled in the USA in an ISO 9001 certified environment
Warranty	Full hardware maintenance and warranty for life of contract

LiDAR SENSOR

Accurate and continuous data collection

Weight	2.04 lbs (0.93 kg)
Ingress Protection Rating	IP67
LiDAR Sensor Accuracy	+/- 3 cm at up to 200 m distance

ENCLOSURE

Secure, stainless steel enclosure, patented mounting hardware

Weight	30.3 lbs (13.7 kg)
Ingress Protection Rating	IP66
Assembly	Plug-and-play wiring, modularized assembly, 304 stainless steel

BATTERY

Lightweight, high-capacity, long-lasting

Type	Lithium Iron Phosphate (LiFePO4)
Weight	13.7 lbs (6.2 kg)
Nominal Voltage/Capacity	12.8 V / 52 Ah
Integrated Protections	Over-voltage, under-voltage, temperature limit detection

SOLAR PANEL

Independently powered by safe, reliable, clean energy

Weight	12 lbs (5.5 kg)
Ingress Protection Rating	IP65
Maximum Power	100 W @ 12 V
Voltage at Max Power	19.8 V
Current at Max Power	5.06 A