

## OMNITEK HIGH-ENERGY IGNITER FOR FLARES AND BOILERS

Oil fields, refineries, water treatment plants, waste dumps and other installations have flares to burn off excess gas. These flares use a commercially available igniter (spark generator) to ignite the gas stream traveling up the flare stack. When the gas reaches the top of the stack the igniter is turned on and if everything is working correctly, the sparks ignite the gas and the flare burns. However, there are several scenarios where low-power sparks may not ignite the flare and the gas is released unburned into the atmosphere.

The Omnitek high-energy Igniter assures ignition of the gas in the flare stack, therefore substantially reducing air pollution.

The Igniter is based on a patented capacitor-based ignition wire technology and creates the most powerful spark possible. The ignition wire is engineered with a special built-in capacitor. This revolutionary design allows energy from the spark generator to accumulate in the capacitor until the voltage at the igniter electrodes reaches the ionization point. At that split second the entire power of the stored spark is discharged at once, creating a high-energy continuous spark.



The Flare Igniter consists of one each:

- High-voltage spark generator
- Long-reach spark electrode
- Patented capacitor-based ignition wire
- System ground cable
- 110VAC/12VDC power supply
- 12VDC direct battery power cable
- Terminal bridge

**Price: \$650.67**

**SPECIFICATIONS**

Spark Voltage:	Up to 45 kV
Igniter Electrode Gap:	3/4 inch optimum
Operating Voltage:	12 VDC
Current Draw:	4 A max
Power Consumption:	50 W max
Ignition Wire Length:	25' standard (or made to order)
Approx. Size:	5"x 10"x 5"
Weight:	3.25 lbs w/out Ignition Cable
Power Supply:	110AC to 12VDC or 12 VDC direct

## FEATURES & OPERATION

### ➤ ON – OFF – ON Switch

**OFF:** Not powered

**ON Pulse Adjust:** No need to push red button, Igniter will stay on. Adjust spark-pulse frequency from 1 – 60 seconds.

**ON Momentary:**

1. Push red button to activate high-voltage spark.
2. Terminal Block for remote activation:
  - a. Install Terminal Bridge and Igniter will stay ON.
  - b. Remove Terminal Bridge and connect to remote operated switch, or automatic-on methane detector relay.

### ➤ Replaceable 10A Fuse

### ➤ Secure High-Voltage Connection

### ➤ Use 110VAC power supply, or supplied cable to power Igniter from a car battery, or a 12V 6A Solar Panel

