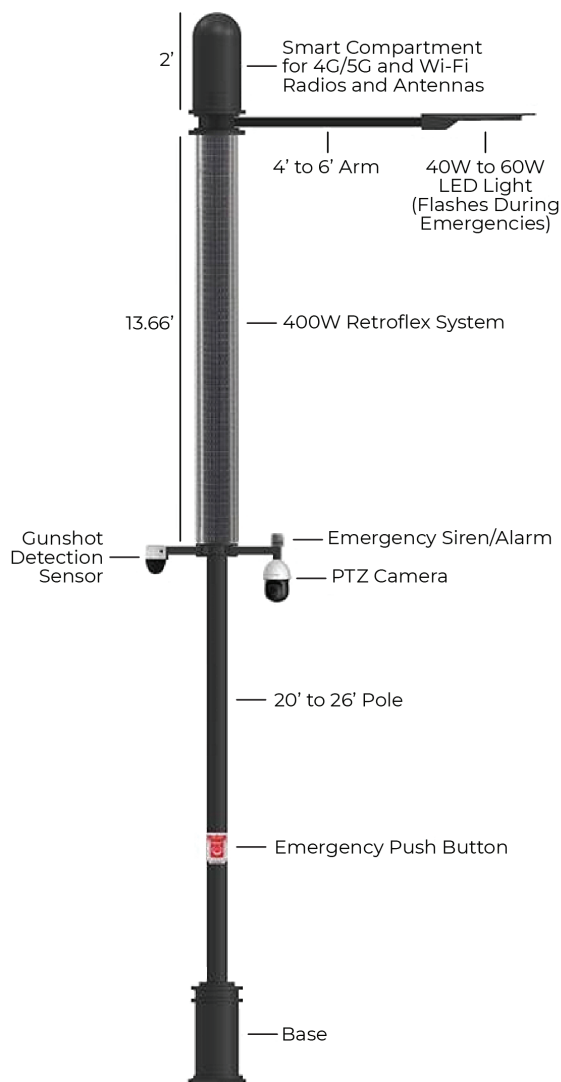




## VECTRUS SECURITY ENHANCED SMART POLE

### CLEARWORLD SECURITY ENHANCED SMART POLE



#### Smart Storage Compartment

- 4G/5G and WiFi
- Radios and antennas

#### Emergency Siren/Alarm

- 30' to 100' distance
- Ideal for outdoors
- Loud audible sound

#### Emergency Push Button

- Initiates siren and flashing lights

#### Gunshot Detection Sensor

- Detection and location
- Classification and notification

#### PTZ Camera

- Pan, tilt, zoom, and 360° rotation
- 1080P HD resolution
- True day/night vision
- 3D noise reduction
- ONVIF profile compliant

#### Cylindrical 5" OD Pole

- 20' to 26' mounting heights
- Single or multiple luminaire

#### Luminaire

- 40W to 60W LED light
- Flashes during emergencies

#### Cap Arm/Base

- 360° mounting
- 4' to 6' length
- Decorative contemporary base

#### Retroflex System

- Patent array system
- Charge controller
- Battery backup (1-6 hours)
- 400W CIGS solar panel

## APPLICATIONS AND USES AND BENEFITS

### Applications

- Emergency alert devices
  - Emergency push button
  - Flashing LED lights
  - Alarms and sirens
- Gunshot detection sensors in real-time including automated PTZ cameras with built-in facial recognition
- Environmental sensors

### Uses and Benefits

- Emergency alert devices
  - Flashing LED lights and sirens are initiated on all connected base poles when the emergency push button is engaged on any of the poles networked; to alarm and direct authorities to nearby threats.
- Gunshot detection sensor and PTZ camera with facial recognition
  - In the event of a gunshot in close proximity, the PTZ camera will automatically pan, tilt and zoom to the area indicating shot location while capturing the identity of the person who fired the shot. The incident will be identified on a map alerting and directing the authorities to the exact location.
  - The PTZ camera also alerts authorities when an unidentified person(s) appears in an unauthorized area not included in the centralized/localized facial recognition database.
- Environmental sensors
  - Sensors provide real-time visibility of temperature, humidity, pressure, air quality, sound, and light levels.

## REAL TIME ASSET MANAGEMENT AND CONTROL

- ClearWorld IoT
  - Platform as a Service (PaaS)
  - Real time dashboard
  - Access to APIs
  - Web and mobile apps
  - Remote system maintenance
  - Over the air software updates
  - Full system visibility and control with 24/7 customer service
- Monthly fee – per device

## CLEARWORLD SOLAR SMART LIGHTING



ClearWorld's RETROFLEX is a flexible solar array that wraps around new or any existing poles which allows a grid free pole with up to eight days of power with no sun. The patented design vertically wraps the complete RETROFLEX system to poles of any dimension, diameter, and finish. RETROFLEX is designed to harness solar energy and provide efficient outdoor lighting.

Our OFF-GRID option eliminates the need for **timely and costly underground infrastructure** (no trenching, conduit, wiring, metering, etc.) on new projects or projects where infrastructure needs to be replaced.

Light poles can be mounted on concrete bases with forklift cut out for mobile/deployable lighting. No need for noisy generators and no need for fuel (bypassing the complex logistics of bringing fuel to the site).

ClearWorld provides smart city options for bases of the future to include environmental sensors, 5G, plate readers, Wi-Fi, security cameras, gunshot detection, etc. In the case of Smart City options requiring on grid application...ClearWorld can provide backup power.

The solar poles can also be used as a power source (with or without a light head) to power sensors, cameras, and other IoT devices.

Forward Operating Bases (FOB), special training operations, walking paths, roadways, parking lots, base housing, and areas in need of light for safety are great options for ClearWorld's OFF-Grid poles. The option of backing up existing on grid light poles is a perfect match for Base of the Future Installations providing a sustainable and resilient solution for keeping critical infrastructure mission ready.