RAPID SYSTEMS

***Helios Tactical Sentinel***
Photon Powered Security Platform

# Infrastructure on Demand

***Our tactical infrastructure trailer is engineered for longer runtime, higher efficiency, and easy field maintenance —where downtime is not an option.***

1 KW 3-Panel V4 Model shown

## Advantages

- Highly Portable Security System
- Self-contained and Self-powered
- Ultra-fast Deployment
- Kinetic Mesh Wireless Communication
- Remote Monitoring and Management
- Weatherproof Systems and Enclosures
- Easy Setup and Operation
- Easy Deploy Pneumatic Mast with No-Pinch Point Cable Port

## Applications

- Oil and Gas
- Mining
- Public Safety
- Construction
- Military
- Emergency Response
- FEMA

***High-performance AI and mesh communications —fully integrated, thermally managed, and field-ready.***

Expertly Installed Version 4 Security System cutomized for your use case.

***Version 4 is built directly from operator feedback and thousands of hours of real-world deployment.***

# Platform Specifications

| Communications | |
|---|---|
| Kinetic Mesh Network | **by Rajant** |
| Options | **Peregrine, Hawk, or Sparrow** |

| Batteries | |
|---|---|
| Battery Voltage | **12VDC, 24VDC, or 48VDC** |
| Battery Type | **LiFePo Maintenance Free Lithium Iron Phosphate** |
| Battery Life | **10+ Years** |

| Solar Panels | |
|---|---|
| Type | **700 Watt or 1 KW option** |

| Solar Controller | |
|---|---|
| Type | **MPPT 250PV \| 100A, Blue Tooth Enabled, Adaptive Charging** |
| Remote Access | **Bluetooth, WiFi, and Ethernet** |

| Top of Mast Enclosure | |
|---|---|
| Type | **Aluminum Die Cast** |
| Interior Size | **10" x 7.75" x 3"** |
| Voltage Available (16AWG Wire) | **12VDC 15A Regulated<br>56VDC 5A Regulated<br>24VDC 15A Unregulated** |
| PoE Ports | **5 Port Layer 2 Gigabit PoE Switch<br>Port 1 = 90W 802.3bt PoE<br>Port 2-4 =802.3at 30W PoE+<br>Port 5 = 24VDC 12W Passive PoE** |

| Extension Mast | |
|---|---|
| Type | **Pneumatic Locking Aluminum** |
| Lock Positions | **9', 12' ,15', 18'** |

| Equipment Enclosure | |
|---|---|
| Type | **Vented Locking Aluminum Diamond Plate** |
| Internal Size | **64.5" x 17.5" x 19.5"** |
| Voltage Available Inside Enclosure | **56VDC 5A Regulated,<br>24VDC 30A unregulated,<br>12 VDC 20A Regulated** |

| Remote Monitoring | |
|---|---|
| Type | **Web based, SNMP** |
| Parameters Monitored | **Solar Panel Volts and Current, Battery Volts and Current, Load Current, Temperature** |

| AC Charging | |
|---|---|
| Input | **110 VAC** |

| OIther Options | |
|---|---|
| Power | **Wind Turbine** |
| Lights | **LED Work Lights, Strobes** |
| Cooling | **Thermostat Fans** |
| Audio | **AI Horn Speaker** |
| Sensors | **Radar, LiDAR** |

Version 4 represents the natural outcome of how we build at Rapid Systems: learn in the field, refine with purpose, and engineer every lesson back into the platform.

What began as a response to real operational needs has evolved into a mature, integrated infrastructure solution that balances power autonomy, intelligent compute, and reliable communications within a compact, deployable system. By rethinking thermal management, expanding edge processing capabilities, and prioritizing practical, maintainable design, we have created a platform that performs consistently in demanding environments and continues to improve with every deployment.

This is not a static product, but a forward-looking foundation—designed to support today's missions while remaining adaptable to the requirements of tomorrow.

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