VIGI
by tp-link

Solar Power Solution

Farmlands | Orchards | Forests | Parks and More
Non-Stop Power Where the Sun Shines

Challenges

- Complex Wiring
- Difficult Device Installation and Removal
- Hard to Maintain
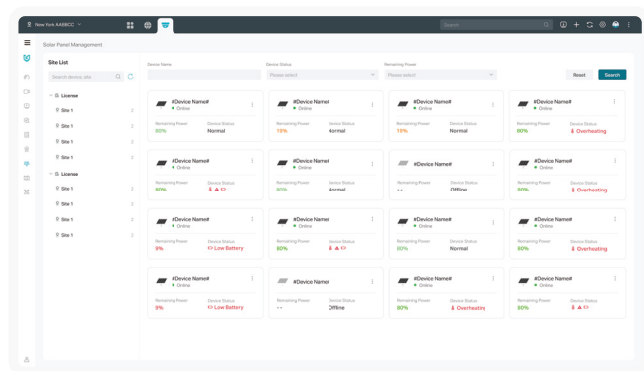- Short System Standby Time
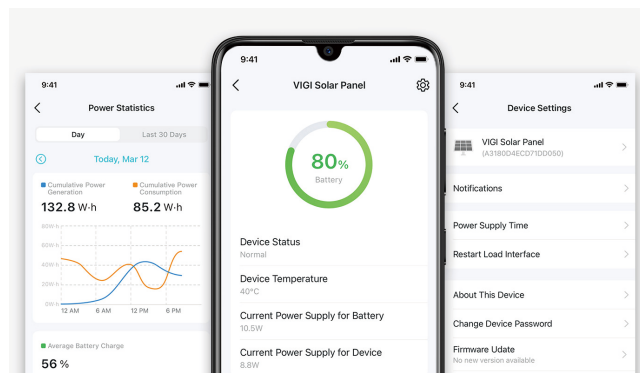- Poor System Stability
- Difficult Event Tracing

What We Offer

Remote Management and Maintenance

Control devices centrally, monitor power statistics, receive low-battery alerts, update firmware, and reboot the system via the VIGI app or VIGI Cloud VMS. Enjoy peace of mind, no matter your location.
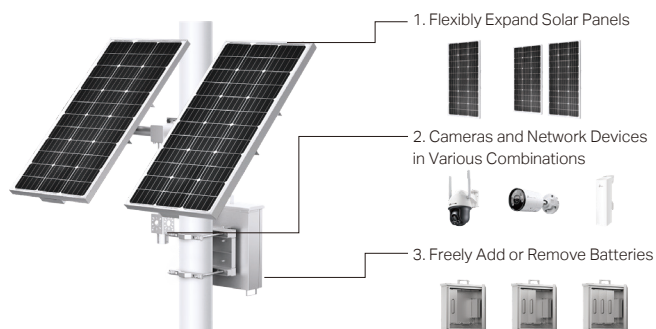

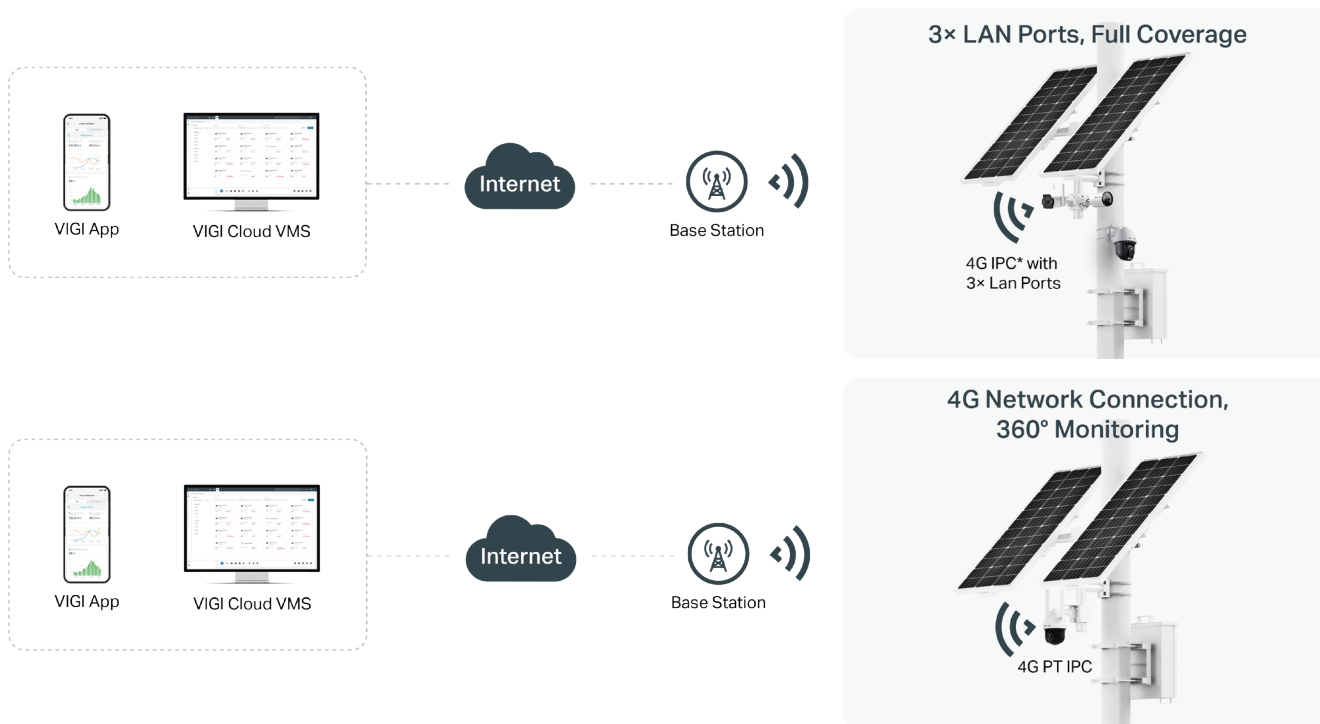VIGI Cloud VMS

VIGI App

Customized Assembling

Easily tailor your solar power system with our modular hardware design. Mix and match solar panels, batteries, and onboard devices (3× DC voltage output ports available) to meet your deployment needs freely.

1. Flexibly Expand Solar Panels

2. Cameras and Network Devices in Various Combinations

3. Freely Add or Remove Batteries

Click the link to view more solutions: https://www.vigi.com/solution-list/

Flexible Deployment

1. 4G IPC-Solar Power Solution

VIGI App   VIGI Cloud VMS

Internet

Base Station

3× LAN Ports, Full Coverage

4G IPC* with
3× Lan Ports

VIGI App   VIGI Cloud VMS

Internet

Base Station

4G Network Connection, 360° Monitoring

4G PT IPC

2. 4G Router-IPC-Solar Power Solution

VIGI App   VIGI Cloud VMS

Internet

Base Station

4G Router^ with
3× Lan Ports

3. Wireless Bridge-IPC-Solar Power Solution

VIGI App   VIGI Cloud VMS

Internet

Router

Switch

Simple Installation

The modular design allows for quick bracket installation and disassembly within minutes.
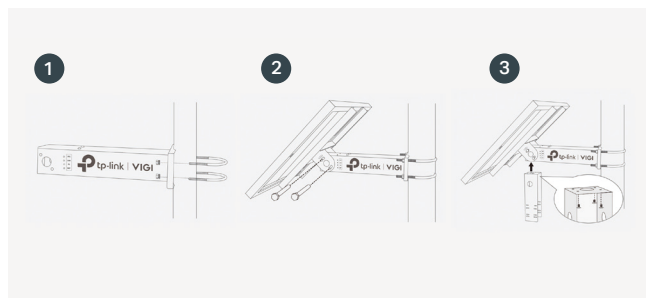
Adjustable Angle

Adjustable angles of 5°, 15°, 25°, 35°, 45°, and 55° ensure optimal alignment and maximum sunlight utilization.

5°/15°/25°/35°/45°/55°
Adjustable angles

*The model of the 4G IPC is InSight S345-4G and will be shipped in Q4 2024.
^The model of the 4G router is ER703WP-4G-Outdoor and will be shipped in Q4 2024.
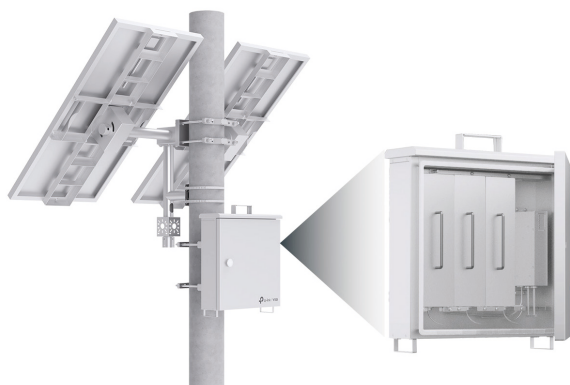
Longer Standby Time

Industrial-Grade Solar Panel

Grade **A** Solar Panel

21.6%* ↑ Conversion Efficiency

25+ Year Lifespan

Up to **180W†** Optional

Automotive-Grade Lithium Battery

Up to **93.6Ah** Optional

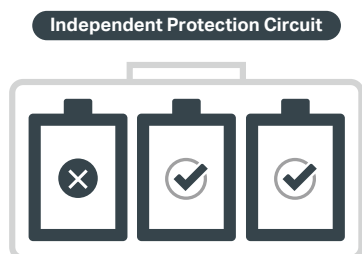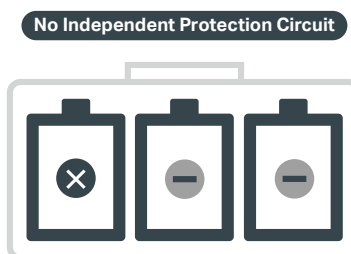Discharge Efficiency up to **99%**

> 500 Cycles

Remaining Capacity **> 70%** after 500 Cycles

Independent Protection Circuit**

Ensures battery safety and uninterrupted device operation.

Independent Protection Circuit

If a single battery fails,
other batteries still work normally

No Independent Protection Circuit

If a single battery fails,
other batteries are at risk of damage

MPPT Controller Boosts Charging Efficiency

An MPPT (Maximum Power Point Tracking) controller optimizes solar panel power, reduces power loss, and increases charging efficiency by 20% compared to PWM (Pulse Width Modulation) controllers.
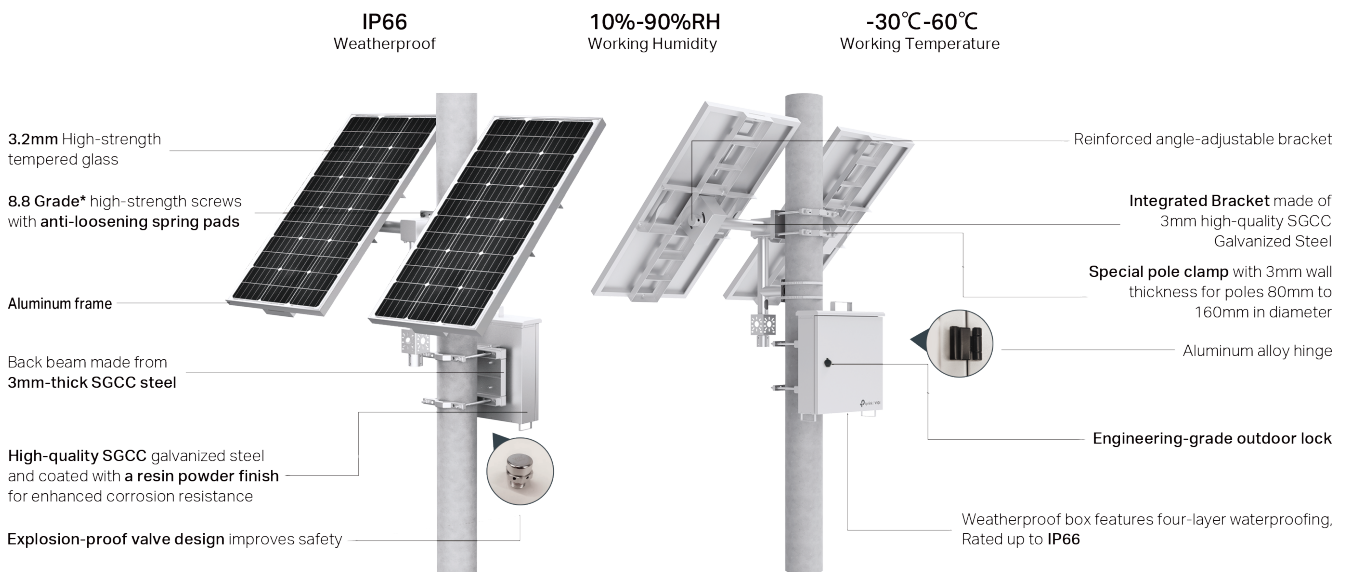
MPPT Controller

PWM Controller

Increases Charging Efficiency by
20%

*This value is compared to the conversion efficiency of polycrystalline silicon solar modules.
**Applicable to VIGI PS90. And VIGI PS90 will available in Q3 2024.
†Requires 2*VIGI Solar Panel 90W.

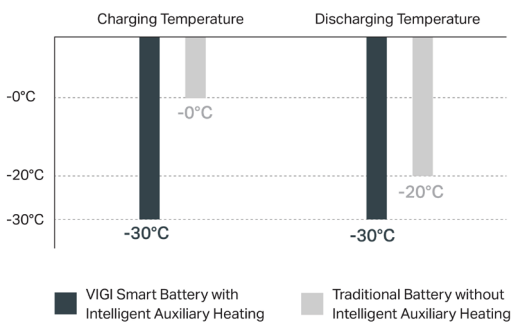# High System Stability Reduces Subsequent Maintenance Costs

Enterprise Level Hardware Design

IP66
Weatherproof

10%-90%RH
Working Humidity

-30℃-60℃
Working Temperature

3.2mm High-strength tempered glass

8.8 Grade* high-strength screws with anti-loosening spring pads

Aluminum frame

Back beam made from 3mm-thick SGCC steel

High-quality SGCC galvanized steel and coated with a resin powder finish for enhanced corrosion resistance

Explosion-proof valve design improves safety

Reinforced angle-adjustable bracket

Integrated Bracket made of 3mm high-quality SGCC Galvanized Steel

Special pole clamp with 3mm wall thickness for poles 80mm to 160mm in diameter

Aluminum alloy hinge

Engineering-grade outdoor lock

Weatherproof box features four-layer waterproofing, Rated up to IP66

Intelligent Auxiliary Heating Technology

The built-in smart battery supports intelligent auxiliary heating technology, which allows the battery to operate normally across a wide temperature range.

Charge and Discharge Temperature Limit Comparison

Charging Temperature   Discharging Temperature

-0°C
-0°C

-20°C
-20°C

-30°C
-30°C   -30°C

■ VIGI Smart Battery with Intelligent Auxiliary Heating
□ Traditional Battery without Intelligent Auxiliary Heating

Actual Discharge Comparison at the Same Temperature

Discharge Capability

VIGI Smart Battery with Intelligent Auxiliary Heating

21.14%
Improvement

Traditional Battery without Intelligent Auxiliary Heating

*The auxiliary heat will only be turned on when the photovoltaic system has a certain input or the battery has a certain amount of power. The test environment consisted of a 20°C aging box and 1A constant current discharge.

Rapid Incident Handling

In remote areas like orchards and farms, dim lighting at night complicates intruder detection. Delays in reaching the scene may mean incidents are already happening, compounded by complex terrain hindering intruder tracking.

VIGI AI ISP-Powered ColorPro Image**

Captures colorful and clear images even in ultra low-light conditions without fill lights, enhancing situational awareness.
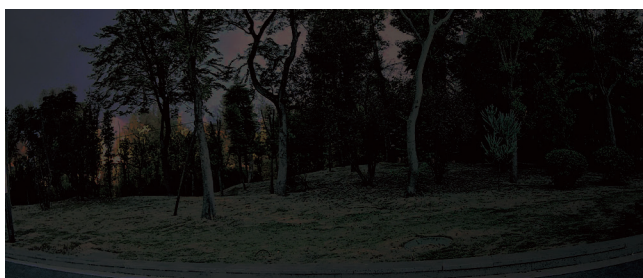
Naked Eyes

VIGI AI ISP-Powered ColorPro Image

*Complies with international standard ISO 898-1.
**This feature will be available in Q4 2024.

Smart Detection

VIGI's smart detection, like intrusion and line crossing, will notify you promptly of any breach, enabling swift action on your part.

Please leave the fence.

20:20
Line-Crossing Detection
"The VIGI camera" detected a line-crossing.
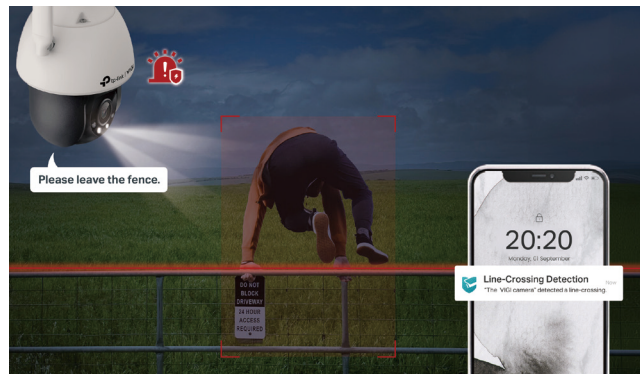
Active Defense

Instantly deter potential intruders with sound and light, proactively protecting your property even when you're away.

Please get out of here .
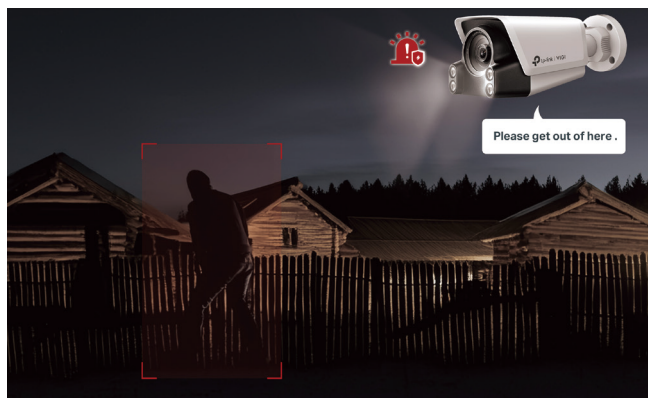
Auto Tracking

Continuously tracks intruders and provides seamless footage. This enables swift comprehension of intruders'paths.

Typical Applications

Farmlands

Orchards

Forests

Parks

Other Value Added Highlights

Trusted Quality

Independent R&D

Superior Suppliers

Vertical Integration

Complete Quality Control

Superb Pre- and After-Sales Services

Certification and Training (TPSA)

Replacement and Warranty

Localization Support Teams

Dedicated Online Support

Official Community

SolutionX | Partner Program

https://partner.tp-link.com/

Join TP-Link SolutionX Partner Program to get better support and more profit.
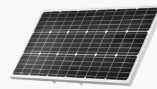
Recommended Products

Solar Power Supply System*

VIGI PS90[§]

VIGI Solar System Controller

- 1×/2×/3× 31.2Ah Customized Ternary Lithium
- Independent Protection Circuit
- MPPT Controller
- IP66 Weatherproof

VIGI Solar Panel 90W

VIGI Solar Panel 90W

- 90W Capability
- Grade A Monocrystalline Silicon
- IP67 Weatherproof

Network Cameras

H.265+ **ONVIF®** | **S T G** NDAA COMPLIANT

InSight S345-4G[§]

VIGI 4MP Outdoor Full-Color 4G Bullet Network Camera

- 3× LAN Ports to Power Downstream Devices
- 4G Mobile Network**
- 4MP Resolution & Full-Color
- Smart Detection
- Active Defense and Two-Way Audio
- IP66 Weatherproof and On-board Storage**

VIGI C540-4G

VIGI 4MP Outdoor Full-Color 4G Pan Tilt Network Camera

- 4MP Resolution & Full-Color
- 4G Mobile Network**
- 360° Monitoring & Auto Tracking
- Human & Vehicle Classification
- Smart Detection
- Active Defense and Two-Way Audio
- IP66 Weatherproof and On-board Storage**

Software Services

VIGI App

- Remote Management and Maintenance without On-site Presence
- Practical Playback
- Two-Way Audio
- Instant Notifications

VIGI Cloud VMS

VIGI Cloud Video Management System

- Cloud-Based, Free⁺ and Unlimited
- Unified Management Across Sites
- Zero-touch Maintenance
- Easy to Deploy

Solar System Selector[†]

By specifying parameters such as load device power and desired system operating time, select the suitable solar products quickly.

Click the link to learn more about VIGI products: https://www.vigi.com/all-vigi-surveillance/
Click the link to view related cases: https://www.vigi.com/case-study/

TP-Link Systems Inc.

Homepage: www.vigi.com