F-PLS

Power Line Security Camera

Power line security camera (F-PLS) is used to monitor the overhead power line (including transmission line and distribution line,tower and pole). F-PLS takes photo or short video periodically or manually, prevent the power line from damaging by people, vehicle or some other construction machines, such like theft the power line or equipment, wildfire, tower crane, excavator, especially in the construction site or the road which power line across.

F-PLS is a special camera which integrate with solar panel and battery inside. it also has 2G/3G/4G communication, GPS positioning, 433MHz access, image recognition, line temperature measurement, environmental monitoring, voice broadcast and other functions.

F-PLS is an important part of power line monitoring system. Adopting technologies of image acquisition, data calculation, remote control, it provides an intelligent and visible real-time status monitoring solution for power line and power equipment.

Highlight

Industrial-grade Design

- ◆ High performance 64 bit processor
- ◆ Stainless steel Support
- ◆ IP67 protection
- ◆ "solar energy ＋ battery＋ super capacitor″ multiple power source design
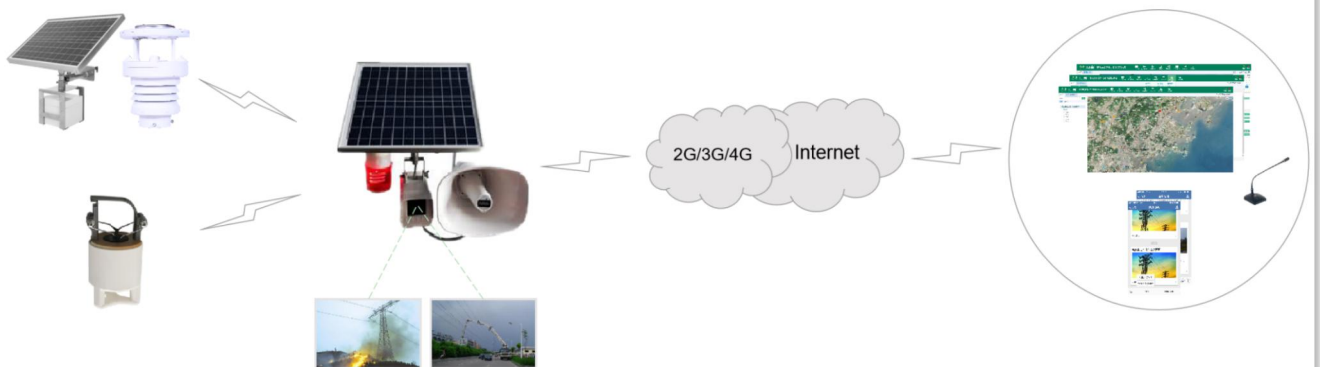
Standard Interface & Easy-to-Use

- ◆ Support multiple　picture/video transmission protocol
- ◆ Compliant with power line photo/video device specification standard
- ◆ Small size, light weight, compact structure
- ◆ Easy installation within 10 minutes
- ◆ Mounting bracket can be adjusted horizontally 360 degree and vertically 90 degree
- ◆ Support access to sound and light, temperature, meteorological module

Stable & Reliable

- ◆ Re-transmission mechanism, data not easy lost

- ◆ Photo priority and video assistant, high on-line rate and low communication failure

- ◆ Support 30 days continuous working without light

- ◆ 8 year life span

- ◆ 30000 hours MTBF

- ◆ 2G/3G/4G antenna, GPS antenna, WIFI antenna, 433MHz antenna internal

- ◆ SIM card internal

Typical Application

Specifications

Function

Item Content	F-PLS100	F-PLS110
Timed Photo	Support	
Timed Video	Support	
Remote Manual Photo	Support	
Remote Manual Video	Support	
Real Time Video	Not Support	Support
Sound And Light Function	Support	
Remote Shout Function	Support	

	F-PLS100	F-PLS110
Zoom Function	Not Support	Support
Night Shot Function	Not Support	Support
Intelligent Analyse Function	Not Support	Support
Micro Meteorology Access Function	Support	
Line Temperature Measuring Access Function	Support	
Auto & Manual Working Mode Function	Support	
Near Field Debug Function	Support	

Basic Parameter

Item Content	F-PLS100	F-PLS110
High Definition Lens	8 Mega pixel, max 2100 Mega pixel optional	8 Mega pixel, max 2400 Mega pixel optional
Low Light Lens	/	2 Mega pixel, min light 0.001Lux
Zoom Lens	/	20 times
Down View Lens	/	Support high definition, low light lens
Tripod Head	256 preset positions, 360° horizontally, 110° vertically	
Sound Light Shout	200 m visible to light and hear sound	
Micro Meteorology — 2 Factors	wind direction, wind speed	
Micro Meteorology — 5 Factors	wind direction, wind speed, air pressure, temperature, humidity	
Micro Meteorology — 6 Factors	wind direction, wind speed, air pressure, temperature, humidity, rainfall	
Line Temperature Measurement	Range -40~+290℃, accuracy ±1℃ ,minimum start current 20A ,Non-closed CT take power, current capture each 1 min	
Adjusted Angle	Horizon 360° , vertical 90°	
Power Supply	Solar energy + Lithium iron phosphate battery + Super capacitor	
Solar Panel	12W	40W
Battery	Internal 10Ah	Internal20Ah
Life Time	10 pictures each day. Support 30 days working without light	50 pictures each day, Support 30 days working without light. 1 hour video each day, Support 30 days working without light.
Network Standard	All network Supported	
Life Span	Above 8 years	

Physical Feature

Item Content	F-PLS100	F-PLS110
Weight	≤5kg	≤15kg
Structure	Solar panel and main machine integrated design	
IP level	IP67	

Environment Parameter	
Item	**Content**
Working temperature	-25 ~ +70℃
Storage temperature	-40 ~ +85℃
Relative Humidity	0~100%RH (No condensation)

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Ordering

Model	Description	Sound Light Shout	Micro Meteorology	Line Measure	Other Line Monitoring
F-PLS100	Standard Version	optional	optional	optional	expandable
F-PLS110	Enhanced Version	optional	optional	optional	expandable