

Energy management terminal

Intelligent Cloud Photography Series

The ELCO IoT Cloud Camera series terminal is developed using embedded technology and designed based on NB, 4G, and CAT1 communication methods. It is equipped with a high-definition pinhole camera and an extended 485 interface module. Intelligent AI algorithms are deployed in the cloud for local photography and cloud recognition storage. Combined with electricity settlement functions, it intelligently manages the electricity consumption of power transfer, distributed power supply, and discrete power supply scenarios. It supports the selection of low-power battery power supply and adapter power supply models, fully meeting customers' intelligent electricity needs. It adopts an attached installation design and has intelligent anti disassembly function. It is an ideal product for the construction of electric IoT systems.

This product can be combined with Yike Intelligent Circuit Breaker to easily collect on-site electricity usage data and settle platform electricity usage according to electricity billing rules. It supports the combination of "platform+APP" for easy installation, debugging, and later maintenance. Widely used in the field of the Internet of Things, such as power monitoring and control for base stations, power monitoring and billing for park tenants, and power monitoring for remote discrete power scenarios, supporting the expansion of data collection and settlement for other types of data.



01 Product characteristics

- Support 4G communication mode
- Equipped with self-developed algorithms and supporting intranet deployment
- Fully enclosed photography ensures image recognition rate and meets installation and use requirements in different environments
- Support infrared acquisition function, based on State Grid DL645 protocol to collect information from electricity meters
- Support inspection button function, achieve manual triggered reporting, and reserve observation windows for on-site viewing
- Support FLASH breakpoint storage and continuation, network interruption self repair, and supplementary transmission verification
- Support functions such as external control power-off and power on, timed disconnection, anti-theft alarm, periodic photography, continuous shooting or single shooting, etc
- Support battery image query, abnormal alarm, battery calculation, and on/off control
- Reserve observation windows for on-site inspection to ensure accurate operation, maintenance, and alignment
- Support the working mode of battery+adapter combination power supply to ensure long-term stable operation of the product
- Having third-party testing and certification reports

02 Product parameters

Interface parameters	
DC12V adapter interface	1
RS485*1	Electrical isolation: supported, baud rate: 9600bps, data bit: 8-bit, stop bit: 1-bit, verification method: none; (Supports expanding circuit breakers)
SMA*1	External screw internal hole antenna wiring terminal; Rod antenna: optional support, suction cup antenna: standard support
SIM Card slot*1	Communication mode: full network connection; SIM card size
Collection port	Infrared interface supports DL645 protocol
Indicator light	Network status, execution status, standby status
Key parameters	
Trigger button	Trigger photography
Reset button	Parameter reset
Network parameters	
Wireless Communication Standard 1 (optional)	4G
Wireless Communication Standard 2 (optional)	CAT1
Wireless Communication Standard 3 (optional)	NB
485 protocol support (standard)	DL/T645