

VIDEO SURVEILLANCE

Street Lighting Cleverly Used...

...to Supply Energy for Video Surveillance Systems

Epvideo from Slat provides a reliable power supply for video surveillance systems and their uninterrupted operation around the clock. The solution, which has already been used successfully in France for twelve years, now secures more than 15,000 surveillance projects at hazardous locations and traffic junctions, in car parks and logistics platforms. Now the successful product is also coming to Germany.

The Epvideo outdoor cabinet is installed on a street lighting pole. The Li-Ion battery inside charges up at night when the lights are on. The stored energy is then used to power cameras and other networked IP objects during the day, with an autonomy of up to 21 hours. With its integrated UPS function, the system also ensures uninterrupted operation of the connected systems around the clock in the event of disturbances to or the failure of the mains supply.

The high efficiency factor allows reliable planning of the security system for years to come. This is because around 1800 complete charge/discharge cycles can be carried out with an energy efficiency of over 96 % in the discharge cycle and a maintenance-free functional time of up to ten years.

Installation is simple and can be done by one person in less than 30 minutes. Afterwards, activation is automatic via remote control. The operation of the system is monitored remotely via Internet protocol (TCP/IP, SNMP). In case of an interruption of a recording camera (e. g. a frozen camera), an automatic restart is triggered after 8 seconds.

To support the customer's project planning in the best possible way, Slat issues a so-called associativity report. For this purpose, all devices connected to Epvideo (e. g. cameras, routers, switches, Wi-Fi systems) are checked for compatibility using an in-house developed configurator. Only in this way can the entire system function reliably. The report also documents information about performance and autonomy at different temperatures as well as the specific day length in the summer and winter months depending on the location. The solution has grown over many years of experience and has the advantage of being able to be quickly installed and removed, and without and civil engineering work being necessary.

Case Study

An interesting case study is the e-valley in Cambrai, northern France, where a gigantic logistics platform for e-commerce, the e-valley, is currently being built on the site of the former Cambrai airbase. With 550,000 m² of space for warehouses, up to 85,000 m²

of service areas (restaurants, hotels, nursery, and a training center) and 300,000 m² of land reserves, it is to become Europe's largest logistics center. And not only in terms of floor space.

A campus equipped with intelligent technologies is planned: robots and drones in and around the warehouses (Logistics 3.0) as well as an infrastructure controlled according to smart city criteria.

It is not difficult to understand that in a project of this magnitude, which is based on critical applications, security is the top priority. This applies first and foremost to the maximum protection of the site's main traffic axis. The contract was awarded to the planner and installer Eryma from among a number of bidders. The company had submitted an Epvideo-supported security concept.

Many Ports

Seven such systems, each with installations adapted to the requirements of the surveillance masts, have so far been installed on the central main traffic axis. They supply three camera configuration types, each with a six-port Ethernet switch including two SFP ports: three Q1941-E thermal network cameras, a P1455-LE bullet camera with PoE injector, and a Q6125-LE network camera with PoE injector.

The overall solution, which is easy to install and maintain, durable and cost-efficient, can be conveniently monitored via remote control and is 100 % fail-safe. And last but not least, the selection decision was supported by the track record of the large number of Epvideo devices already installed and proven in safety technology installations in France.

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Epvideo from
Slat with Q1941-E
thermal network
camera