

PoE switches

Installer Guide

Everything you need to know
about Videosec PoE switches.



VIDEOSEC PoE Selection Guide

Find the most suitable PoE solution for your project!



Unmanaged PoE switches



- 4 PoE port
- 8 PoE port
- 16 PoE port
- 24 PoE port



Managed PoE switches



- 8 PoE port
- 16 PoE port
- 24 PoE port



PoE accessories



- PD Switch
- PoE Injector
- PoE Extender
- Surge Protection

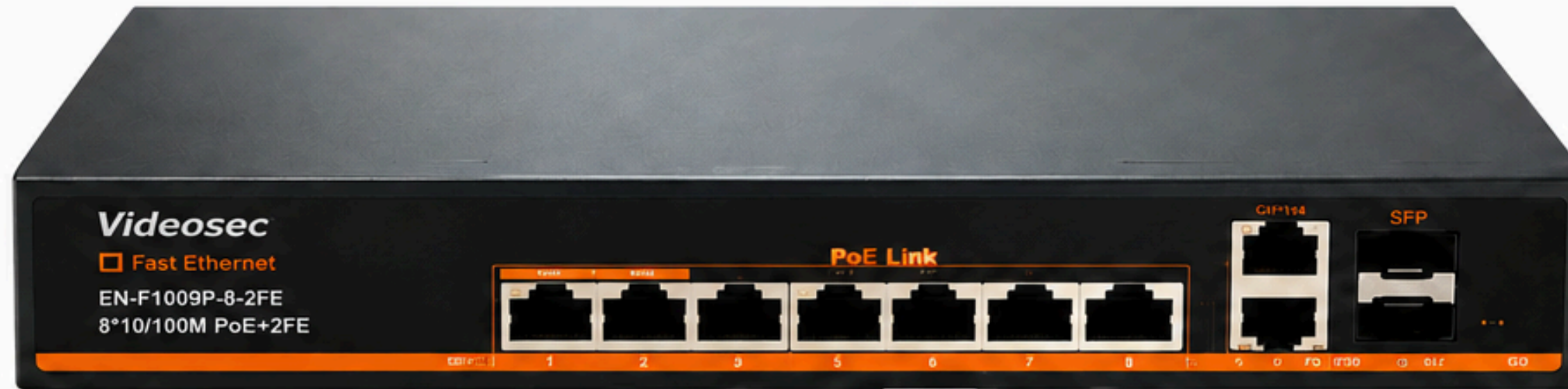


PRO TIPS

On the following pages, we present the key product categories to help you easily choose the most suitable solution for your project.

Unmanaged PoE switches

Simple, reliable, and cost-effective PoE solutions for IP camera systems.



Two uplink ports



Gigabit uplink

High bandwidth connection for stable network performance.



SFP uplink

Optical uplink capability for greater distance and reliability.



Why choose it?

- Plug & Play installation
- No configuration needed
- Stable operation
- PoE power over a single UTP cable
- Competitive price/value ratio



Ideal for

- Family homes
- Small businesses
- Offices
- Warehouses
- 4–24 camera systems

Available models

4

PoE port

8

PoE port

16

PoE port

24

PoE port



PRO TIPS

Choose an unmanaged PoE switch if you need a simple, quick-to-install and reliable camera system without requiring network configuration.

Cloud Managed PoE switches

A full range of Videosec Cloud Managed products on one page

8 PoE PORT



PSNSW3000-8FE+2GE-CM

-  8 × 10/100 Mbps PoE
-  2 × Gigabit uplink
-  120 W PoE budget
-  Cloud Managed

 For small, up to 8 camera systems

16 PoE PORT



PSNSW3000-17GT1GP1GC-LPOE-IN

-  16 × Gigabit PoE
-  Gigabit and SFP uplink
-  150 W PoE budget
-  Cloud Managed

 For medium-sized and rack-mounted systems

24 PoE PORT



NSW3000-24T1GT1GC-POE-IN

-  24 × 10/100 Mbps PoE
-  Gigabit + GE/SFP Combo uplink
-  370 W PoE budget
-  Cloud Managed

 For larger camera systems and higher PoE requirements

24 PoE PORT



PSNSW3000-24T1GT1GC-POE-IN

-  24 × 10/100 Mbps PoE
-  Gigabit + GE/SFP Combo uplink
-  370 W PoE budget
-  Cloud Managed

 24-port Cloud Managed model



When selecting the right switch, not only the number of ports matters, but also the uplink connection and the total PoE budget.

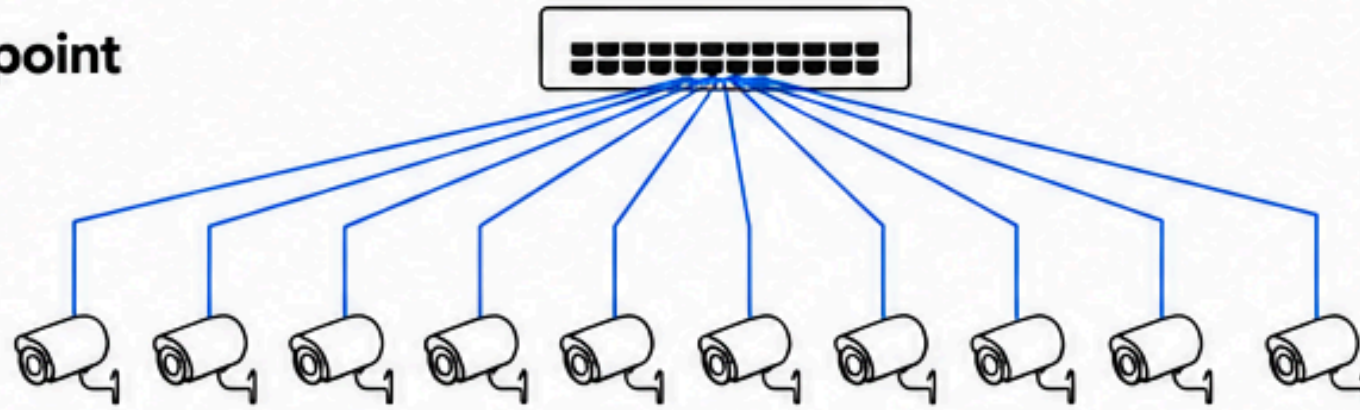
VIDEOSEC PRO TIPS



Installer Guide I.

Network topologies

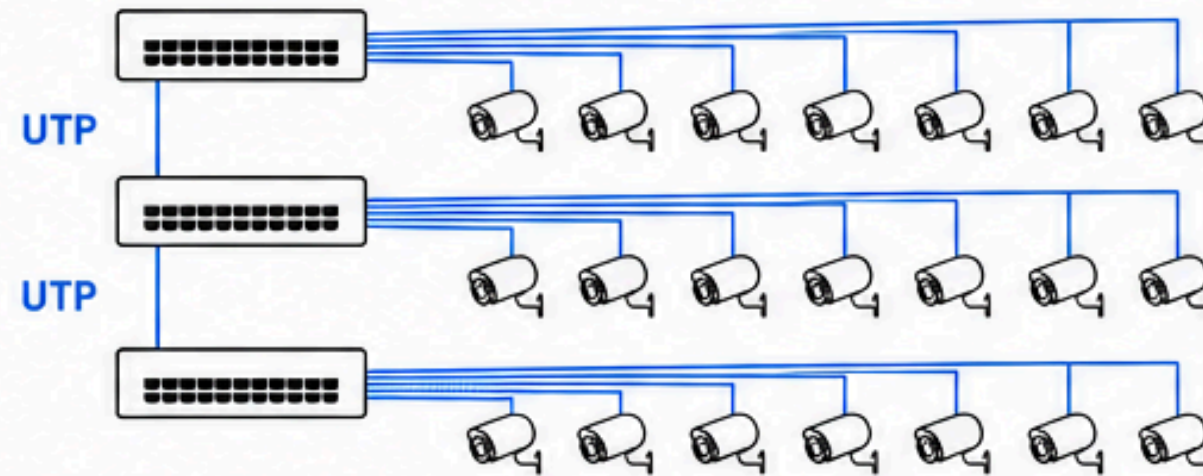
1 Point-to-point system



✓ Recommended solution

- ✓ 16 or 24 PoE port switch
- ✓ Rack mounting
- ✓ Centralized installation

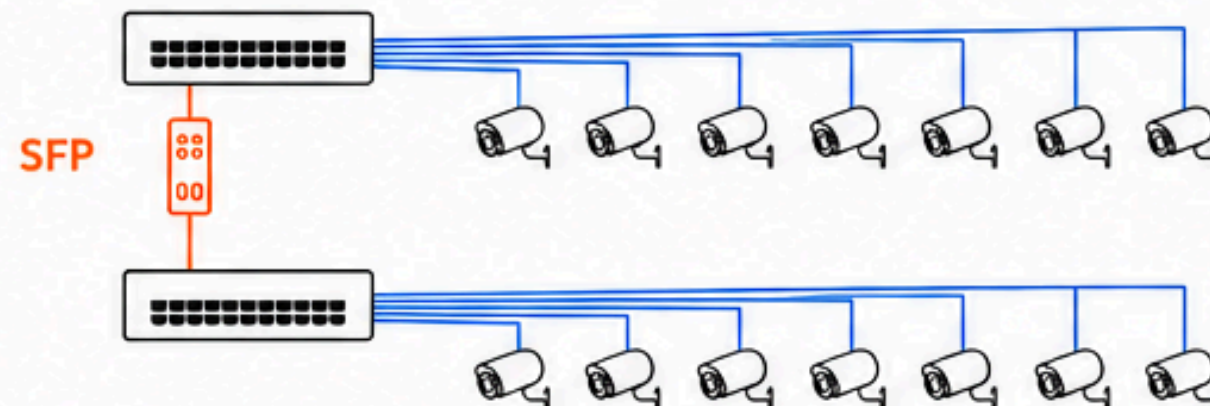
2 Short cable distance



✓ Recommended solution

- ✓ 4 or 8 PoE port switch
- ✓ Two uplink ports
- ✓ Gigabit uplink
- ✓ Short cable network

3 Long cable distance



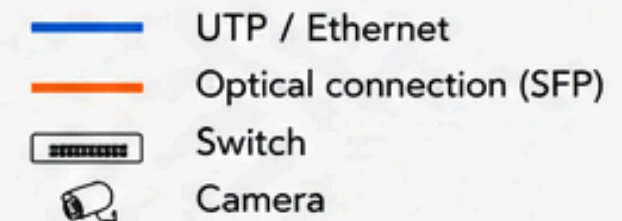
✓ Recommended solution

- ✓ SFP uplink
- ✓ Long distance
- ✓ Electromagnetic interference immune connection



PRO TIPS

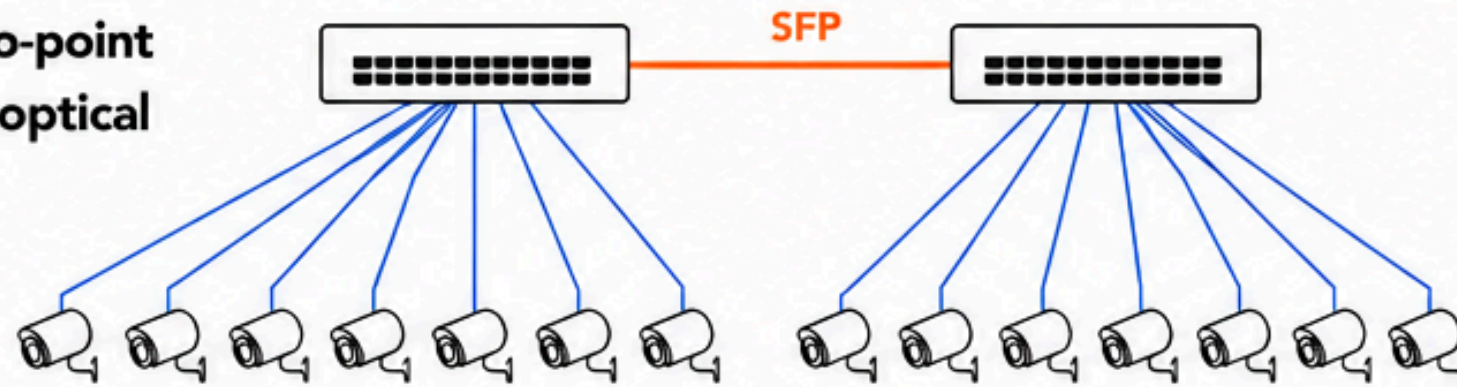
Choosing the right network topology is just as important as choosing the right switch. The type of cable network (UTP or fiber) and the installation environment determine the optimal solution.



Installer Guide II.

Remote switches and network extension

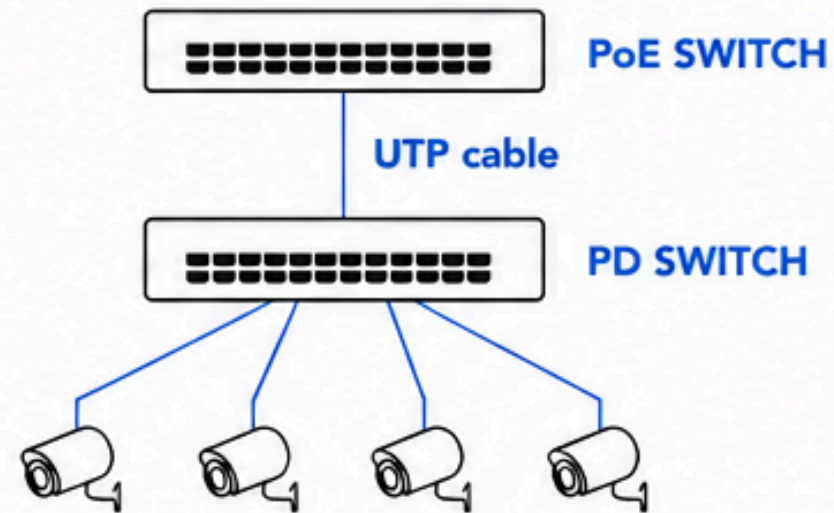
- 1** Multi point-to-point system with optical connections



✓ **Recommended solution**

- ✓ 16 or 24 port switch
- ✓ SFP uplink
- ✓ Multiple buildings interconnection
- ✓ Long distance transmission

- 2** Remote switch without 230 V power



✓ **Recommended solution**

- ✓ Use of PD switch
- ✓ No local 230 V power supply
- ✓ UTP cable
- ✓ Simple remote installation

i The PD switch operates without its own power supply.

- 3** Important to know



IMPORTANT!

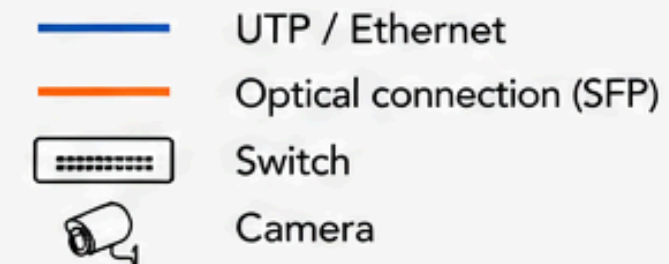
A PD switch can operate PoE cameras, but its maximum output power is limited to **30 W**.

i If higher performance is required, use a High-PoE power supply.



PRO TIPS

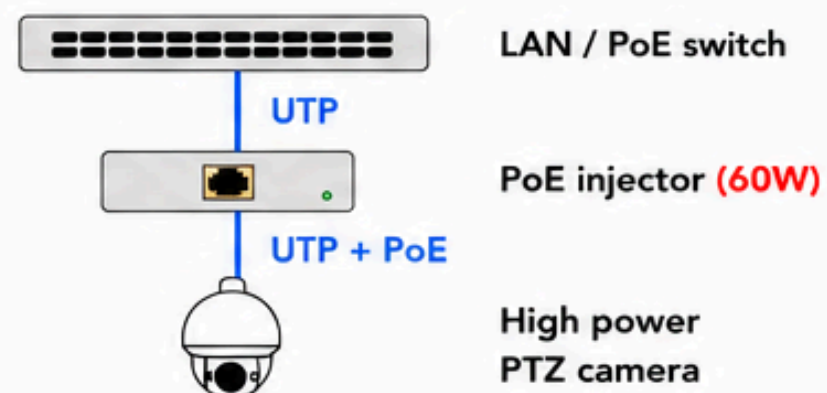
If there is no local 230 V power supply, a PD switch provides an easy way to add a new PoE endpoint.
Always ensure the power capability of the supplying PoE port is sufficient for proper operation.



Installer Guide III.

PoE power supply solutions

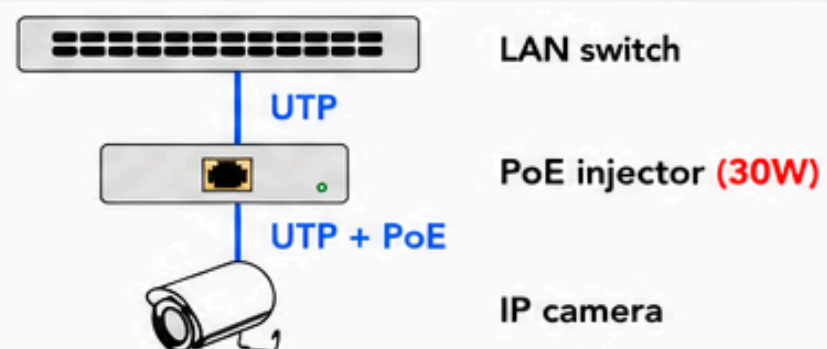
1 High power PoE solution



✓ Recommended solution

- ✓ High power capability
- ✓ PTZ cameras
- ✓ High consumption devices
- ✓ High-PoE power supply

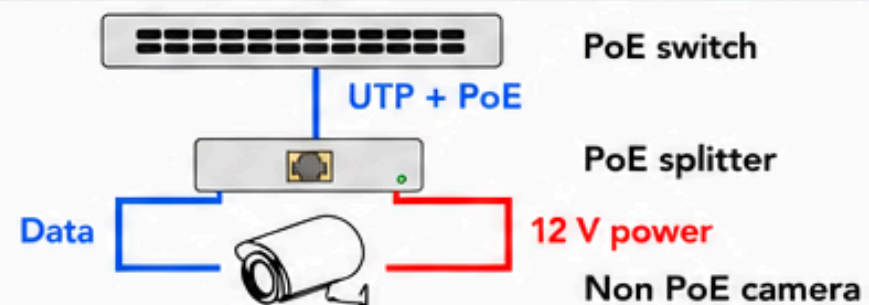
2 Adding PoE to an existing network



✓ Recommended solution

- ✓ PoE switch not required
- ✓ Expand existing network
- ✓ Single camera
- ✓ Quick installation

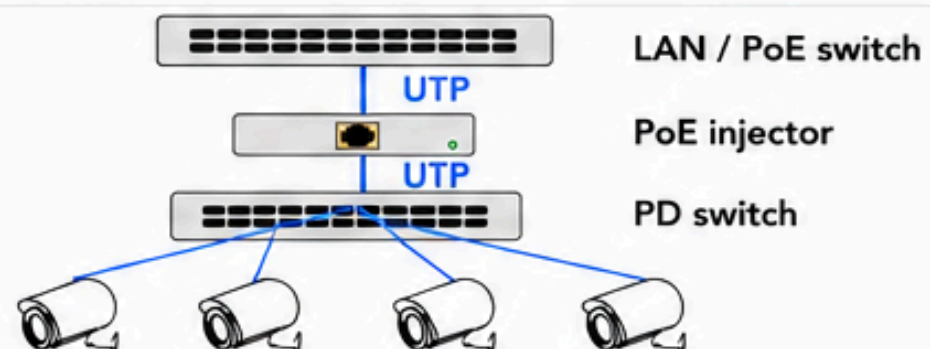
3 Non PoE camera in use



✓ Recommended solution

- ✓ Non PoE compatible camera
- ✓ 12 V power supply
- ✓ PoE network
- ✓ Easy conversion

4 Injector + PD switch solution (4 cameras)



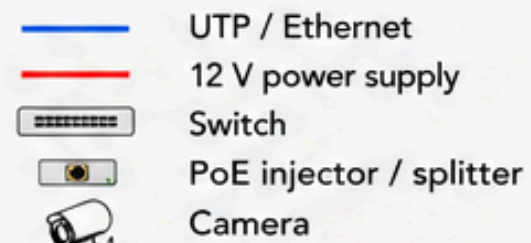
✓ Recommended solution

- ✓ Remote installation
- ✓ Up to 4 cameras at one point
- ✓ No local 230 V power supply
- ✓ Simple installation



PRO TIPS

Selecting the right PoE accessory allows the existing network to be significantly expanded without major modifications. Before installation, **always check device compatibility, required power, and the PoE power supply.**



Cloud Managed PoE Switches

Centralized management from web interface and mobile app



Cloud-based management

From anywhere,
via internet connection

WEB INTERFACE

The web interface displays the following sections:

- Device Panel Status:** Shows 10 ports with status indicators (Online/Offline monitoring).
- Basic Info:**
 - Device Name: NSW3000-8FE+2GE-CM
 - Device Model: NSW3000-8FE+2GE-CM
 - Serial No.: 21023SUIUG32SCC00002
 - Current Version: NSW-B1203.S.9.C03201.251203
 - IP Address: 192.168.1.227
 - MAC: e4:f1:4c:9b:9f:95
 - DNS: 8.8.8.8
 - Up Time: 82:day(s):4h5min
- Port Info:**

Port Name	Connected Device Type	Connected IP	Connected Device Name
9	Switch	192.168.1.231	NSW3000-24T1GT1GC-POE-IN
- Device Utilization:**
 - RAM Usage: 23%
 - CPU Usage: 2%

MOBILE APP

The mobile app dashboard displays the following sections:

- Port Status:** Real-time online/offline monitoring of 10 ports.
- Total Power (mbps):** Received 13.18, Transmitted 21.73.
- PoE Power Usage (W):** Total: 13.05 / Max ...
- Port List:**
 - Port1:** Status Up, Speed 0.54, Power 15.27.
 - Port2:** Status Up, Speed 0, Power 0.
 - Port3:** Status Up, Speed 0, Power 0.

Port status

Real-time online /
offline monitoring

PoE consumption

Power usage
per port

Operational statistics

Traffic and
performance info

Remote port
configuration

Individually configurable
PoE port

Connected devices

Monitor devices, IP address
and name connected to the port

Web management

- ✓ Real-time port status
- ✓ Connected devices
- ✓ IP and device information
- ✓ CPU and memory usage
- ✓ Remote configuration

Manage via mobile app

- ✓ Port status
- ✓ PoE power usage
- ✓ Traffic and performance
- ✓ Per-port control
- ✓ Remote port configuration



PRO TIPS

Videosec Cloud Managed PoE Switches can be managed from a web interface and the **Videosec Control Panel** mobile app. Monitor port status, PoE power usage, network traffic and remotely configure ports via internet connection from anywhere.



Intelligent network functions

Professional network management made simple



VLAN

Secure network segmentation and logical separation of networks.



QoS

Ensures bandwidth for critical applications, such as video.



Port Isolation

Isolates devices on a port to improve overall network security.



PoE Watchdog

Automatically restarts non-responsive PoE devices.



PoE Schedule

Schedules PoE ports for power on/off to save energy.



Loop Protection

Automatic protection against network loops for stable operation.



Internet



Cloud



Cloud managed switch

Centralized management with intelligent functions

VLAN 1



IP Camera Network

VLAN 2



Office Network

QoS



Bandwidth for video

Watchdog



Automatic restart

Loop Protection



Network loop protection



PRO TIPS

Videosec cloud managed switches come with advanced network functions that ensure stable, secure, and easy-to-manage network deployment.



Quick guide for installers

When is which Videosec solution the right choice?

POE ⚡



SITUATION

Camera keeps crashing



RECOMMENDED SOLUTION

PoE Watchdog

Automatically restarts unresponsive PoE devices.



SITUATION

No local 230 V



RECOMMENDED SOLUTION

PD Switch

Powers up to 4 cameras over a single PoE connection.



SITUATION

Long distance



RECOMMENDED SOLUTION

SFP uplink

Transmits data over long distances using optical connection.



SITUATION

High power PTZ camera



RECOMMENDED SOLUTION

60 W PoE

Provides reliable power for high consumption devices.

NETWORK 🌐



SITUATION

Cameras must be separated



RECOMMENDED SOLUTION

VLAN

Logical network segmentation to improve overall security.



SITUATION

Video traffic congestion



RECOMMENDED SOLUTION

QoS

Prioritizes video traffic in the network.



SITUATION

Network loops occurred



RECOMMENDED SOLUTION

Loop Protection

Automatically detects and handles network loops.



SITUATION

Remote troubleshooting is needed



RECOMMENDED SOLUTION

Videosec Control Panel Pro

Web interface or mobile app for PoE power usage and remote port configuration.



With the right Videosec function, installation and operation become faster, simpler, and much more efficient.

