



Outdoor switch

SW-704E

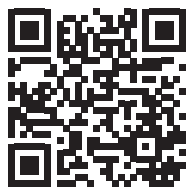


USER MANUAL

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More information
here:



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1. ELECTRICAL AND USAGE SAFETY

- Handle the equipment with the power disconnected
- Do not expose the switch to humidity or temperature values higher than those indicated in this manual
- Use Cat5e or higher cabling in good condition
- Do not exceed 30 W per port or 60 W in total
- Install on a stable surface and ensure sealing to maintain the IP65 rating
- Activate VLAN/Extended only when necessary, as it reduces the available bandwidth
- Dry clean and periodically check the connections

2. PACKAGE CONTENTS

- 1 x SW-704E outdoor switch
- 1 x User manual

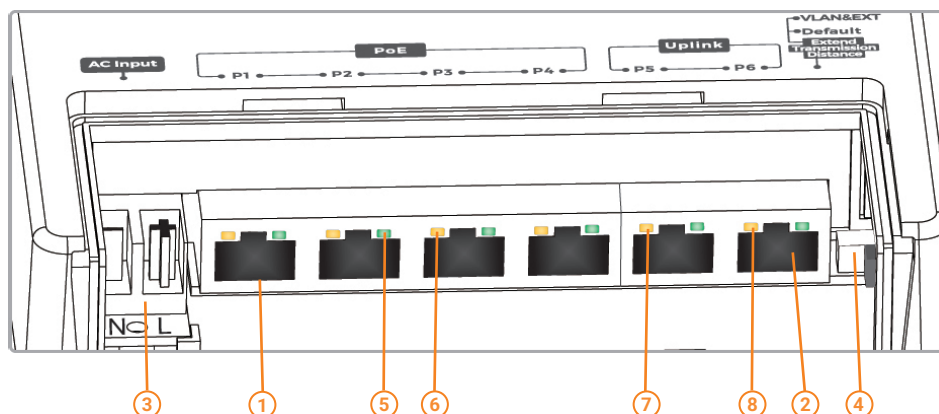
3. GENERAL DESCRIPTION

The SW-704E is a switch designed for security applications and commercial environments. It integrates 4 PoE 10/100 Mbps ports compatible with IEEE 802.3AF/AT with a total power of 60 W, allowing you to power devices such as IP cameras. It has 4 PoE RJ-45 ports and 2 uplink RJ-45 ports of 10/100 Mbps for connection to NVR, switches, or other network devices. Its IP65 protection design makes it suitable for outdoor installations. It allows you to easily create video surveillance systems with up to 4 IP cameras and an NVR, managed centrally on a local or remote network. The ports support auto-negotiation and Auto-MDI/MDIX, eliminating the need for crossover cables. In addition, the ports are equipped with AI Watchdog technology.

4. WHAT IS THE AI WATCHDOG FUNCTION

The SW-704E features AI Watchdog technology. Thus, when a PoE camera stops responding, the switch detects the absence of traffic. If the failure persists for more than 3 minutes, the port is automatically restarted by cutting and restoring the power. This allows the system to remain operational without manual intervention. The AI Watchdog function cannot be disabled.

5. DESCRIPTION OF THE MAIN PARTS



- ① PoE Port
- ② UpLink Port
- ③ AC Input
- ④ VLAN Selector and Extended PoE
- ⑤ Link/Act Indicator
- ⑥ PoE Indicator
- ⑦ VLAN Indicator (on if VLAN and Extended PoE are active)
- ⑧ Power Indicator

6. WHAT IS THE VLAN AND EXTENDED POE FUNCTION

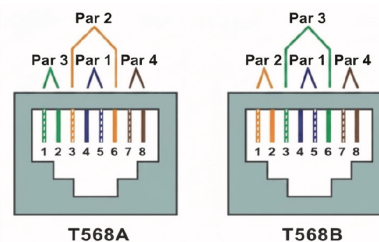
The VLAN and Extended PoE functions are enabled and disabled from their selector simultaneously. When the VLAN and Extended PoE functions are enabled, the switch will behave as follows:

- The PoE ports cannot communicate with each other
- The PoE ports can only communicate with the UpLink ports
- The PoE ports operate at 10 Mbps to reach up to 250 m distance
- The UpLink maintains 100 Mbps and 100 m

7. RJ45 WIRING

You can use the T568A or T568B standard at both ends of the cable.

Follow the color diagram shown below.



	1	2	3	4	5	6	7	8
T568A	Blanco Verde	Verde	Blanco Naranja	Azul	Blanco Azul	Naranja	Blanco Marrón	Marrón
T568B	Blanco Naranja	Naranja	Blanco Verde	Azul	Blanco Azul	Verde	Blanco Marrón	Marrón

8. INSTALLATION



- ① Remove the protective cover



- ② Pass the cables through the sealing rubber



- ③ Finish the wiring with RJ45 connectors following the T568A or T568B standard



- ④ Connect the PoE ports to the cameras and the 230V AC power supply.



- ⑤ Connect the UpLink port to the main switch or router of the installation



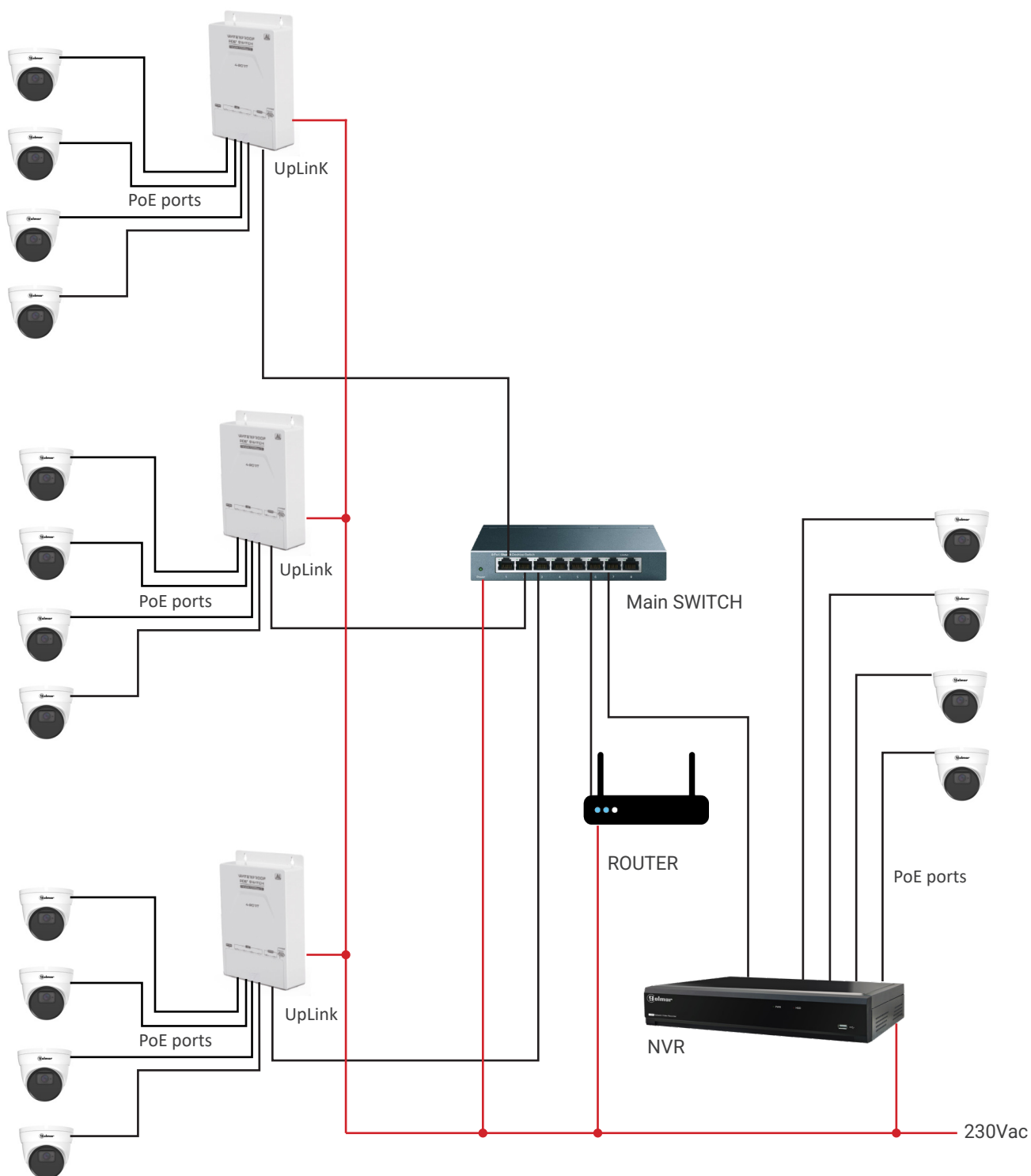
- ⑥ Make sure all connections are secure. Put the cover on and power the switch

9. TECHNICAL SPECIFICATIONS TABLE

Model	SW-704E
Ethernet Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3af/at
Downlink Ports	4 × RJ45 10/100 Mbps PoE
UpLink Ports	2 × RJ45 10/100 Mbps
Port Speed	Auto-negotiation 10/100 Mbps
MDI/MDIX Support	Auto MDI/MDIX
PoE Power per Port	Up to 30 W (IEEE 802.3at)
Total PoE Power	60 W
Backplane Bandwidth	1.2 Gbps
Cache Memory	768 K
Flow Control	IEEE 802.3x (full-duplex)
Maximum Distance	100 m (up to 250 m in Extend mode)
Input Voltage	AC 100–240 V
Surge Protection	4 kV (IEC 61000-4-5)
ESD Protection	Contact ±4 kV / Air ±6 kV (IEC 61000-4-2)
LED Indicators	Power, Link/Activity, PoE, VLAN
Physical Button	VLAN / Extend (enable–disable)
Enclosure	ABS Plastic
Degree of protection	IP65
Dimensions	140 (W) × 200 (H) × 42 (D) mm
Weight	417 g
Operating temperature	-20 °C to 55 °C
Storage temperature	-40 °C to 85 °C
MTBF	≥ 100,000 hours
Applications	CCTV, IP systems

10. INSTALLATION DIAGRAMS

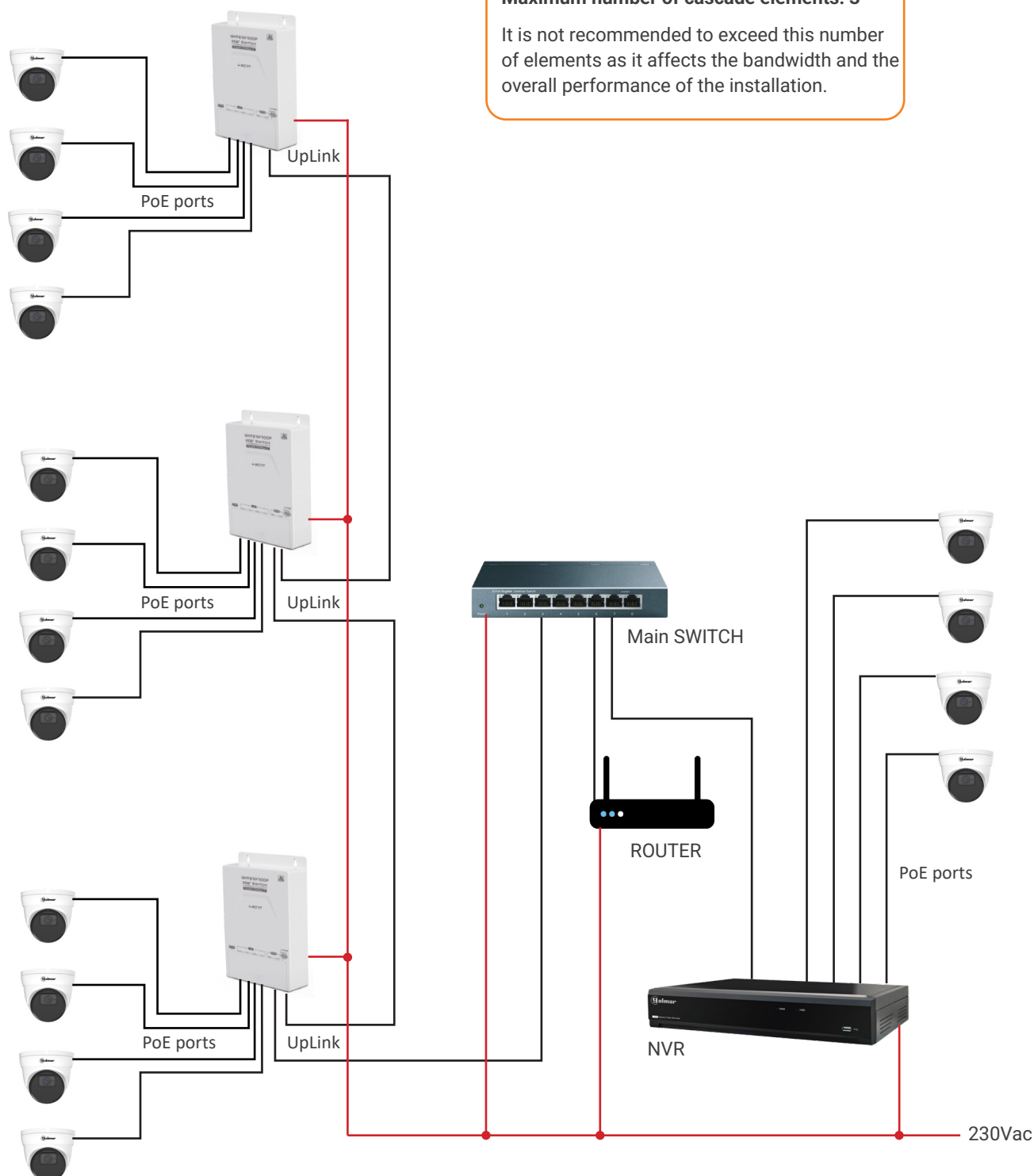
10.1 Radial connection



10.2 Cascade connection

Maximum number of cascade elements: 3

It is not recommended to exceed this number of elements as it affects the bandwidth and the overall performance of the installation.





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