

## GV-POEX0100 One-Port PoE Extender



### Requirements and Limitations

The maximum distance allowed between a PoE switch and a GV-IP Camera depends on the PoE switch type, PoE power output of the connected device (PD) and the type of power supply. These can be summarized as below.

#### GV-IP Camera Powered by PoE

Brand & Model  PD of GV-IP Camera	GeoVision		Third-Party PoE Switches (IEEE 802.3at)
	GV-POE0801 / 0811 GV-POE0812 GV-POE1601 / 1611 GV-POE2401 / 2411	GV-POE0400 GV-POE0410-E GV-POE0800 GV-POE0810	
PD < 6.49 W (IEEE 802.3af)	600 m (1968.5 ft)	400 m (1312.34 ft)	400 m (1312.34 ft)
PD 6.5 W ~ 12.95 W (IEEE 802.3af)	400 m (1312.34 ft)	200 m (656.17 ft)	200 m (656.17 ft)
PD 13 W ~ 25.5 W (IEEE 802.3at)	200 m (656.17 ft)	-	-
PD > 25.5 W	-	-	-

**Note:**

- Each GV-POEX0100 extends another 100 m (328.08 ft) between the PoE switch and the GV-IP Camera. Therefore, a distance of 200 m (656.17 ft) requires one GV-POEX0100 and 400 m (1312.34 ft) requires three etc.
- GV-POEX0100 can only be connected using CAT-5e cables, TIA/EIA-568-B, with the maximum DC resistance of 9.38 ohms/100 m.

## GV-IP Camera Powered by Power Adapters

Brand & Model	GeoVision		Third-Party PoE Switches (IEEE 802.3at)
	GV-POE0801 / 0811 GV-POE0812 GV-POE1601 / 1611 GV-POE2401 / 2411	GV-POE0400 GV-POE0410-E GV-POE0800 GV-POE0810	
GV-IP Cameras	600 m (1968.5 ft)	400 m (1312.34 ft)	400 m (1312.34 ft)

## Compatibility

- GV-POEX0100 is only compatible with third-party switches that comply to PoE+ (IEEE 802.3at) and is not compatible with GV-PA191/481/482/901.
- GV-POEX0100 supports all **GV-IP Camera** when **installed with a power adapter** and **does not** support the following models **when powered by PoE**:
  - GV-BX2510-E / 5310-E
  - GV-FE3403 / 5303
  - GV-VD2540-E / 5340-E
  - GV-SD220 / 220-S
- GV-POEX0100 is only compatible with the following GeoVision PoE switches of the indicated firmware versions:
  - GV-POE0801 / 1601 / 2401 (V1.03 or later)
  - GV-POE0811 / 1611 / 2411 (V1.01 or later)

## Packing List

- GV-POEX0100
- Screw x 2
- Screw anchor x 2
- GV-POEX0100 Installation Guide

## Overview



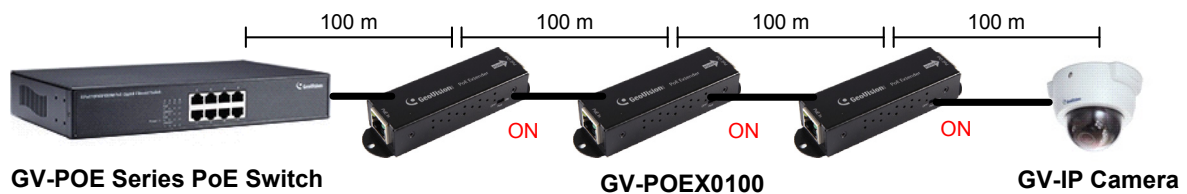
No.	Name	Description
1.	PSE Port	Connect to the Power Sourcing Equipment (PSE) or the PoE switch side.
2.	PD Port	Connect to the Powered Device (PD) or the GV-IP Camera side.
3.	DIP Switch	Switch it to ON to enable the PoE function; switch it to OFF to transmit data without supplying the power.

### LED indicator:

LED	Color/Status	Description
PoE	Amber On	PoE function enabled
	Off	PoE function disabled or no connection
Data	Green On	Ports connected
	Green Blinking	Data being transmitted and/or received
	Green Off	No connection

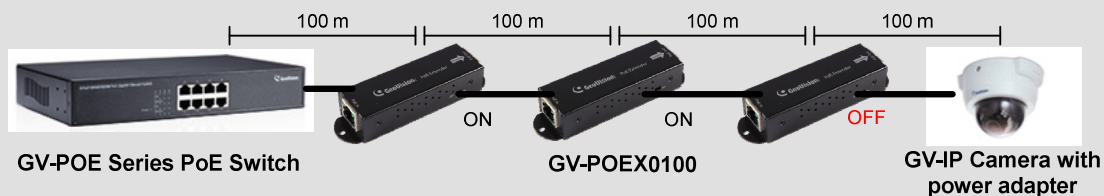
## Setting Up GV-POEX0100

Connect the PSE port of the extender to a power sourcing equipment and the PD port to the powered device using CAT-5e cables. Make sure the DIP switch of every PoE extender is turned to **ON** to allow for both power and data transmission. This can be illustrated as below:



### Note:

1. Optionally use the supplied screw anchors and screws to fix the extender in place.
2. Make sure the DIP switch of the GV-POEX0100 next to the powered device is turned to **OFF** for any of the following scenarios:
  - A. When your camera is powered up with a power adapter and only receives data from the power sourcing equipment. This is illustrated below (though you may use up to 5 extenders).



- B. When a PoE switch is connected to another PoE or non-PoE switch.

## Specifications

For details, see [Datasheet](#).