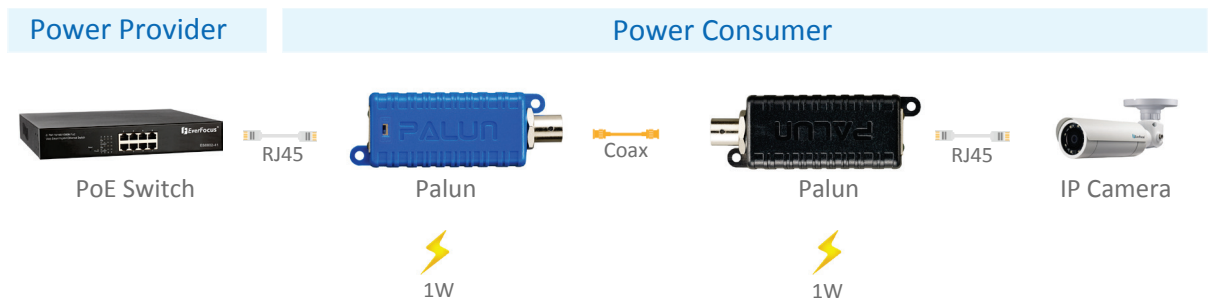


Introduction

Palun is a PoE-powered Video Balun which can transmit both power and digital IP video signal over coaxial cable. With Palun, you can easily upgrade the surveillance system from analog to IP, leveraging the existing coaxial infrastructure without re-cabling. Moreover, a smart switch design enables Palun to better accommodate cameras of different class levels. Please see all the detail information in this document.

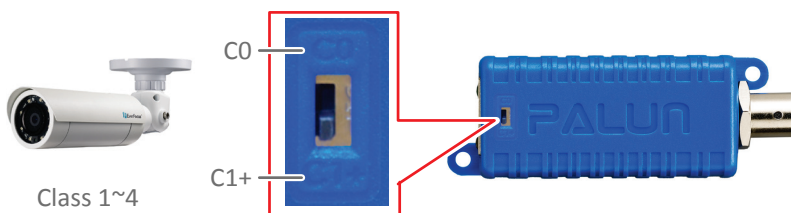


How to Use the Switch on Palun?

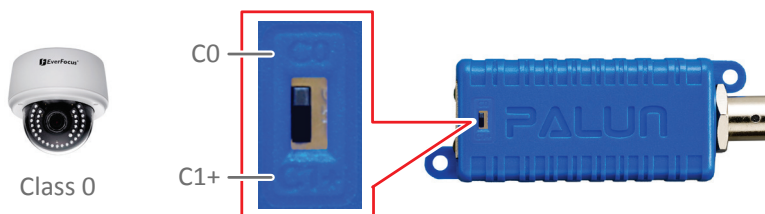
The switch on Palun (the blue one only) is designed for adjusting the power output from the PoE switch in order to better accommodate cameras of different class levels.

If the IP camera's PoE type is Class 1~4, please switch it to C1+.

(If your IP camera's class level is 1, Palun will advertise it as Class 2 to the PoE switch; if the camera is Class 2, Palun will advertise it as Class 3 to the PoE switch, and so forth)

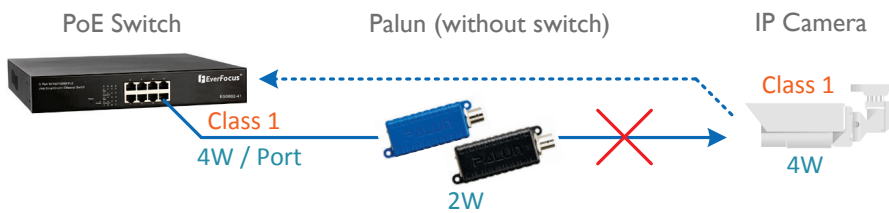


If the IP camera's PoE type is Class 0, please switch it to C0.

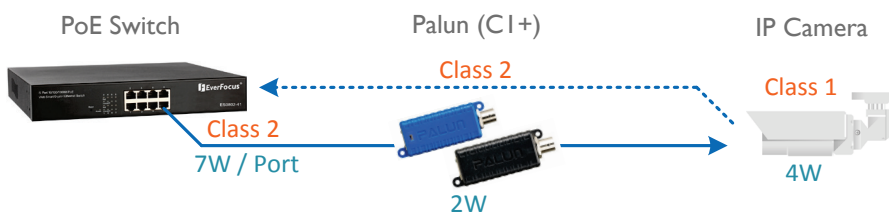


Why to Use the Switch on Palun?

Originally, if your camera is Class 1 and consumes 4W, the PoE switch detects the class level and sends Class 1 guaranteed maximum 4W of power which is sufficient to power up the camera. However, Palun also consumes 2 watts of power, so the total power consumption (6W) of both Palun and IP camera exceeds the power (4W) delivered by the PoE switch.



Now, if you switch Palun to **C1+** (for Class 1~4 IP camera only), it will help to increase the guaranteed power output from the PoE switch by advertising a higher class level. Therefore, in our example above, even though the IP camera is Class 1, Palun will advertise it as Class 2 to the PoE switch so that the PoE switch will reserve a Class 2 guaranteed power (7W) for devices connected to this port. Then, it is now sufficient to power up both camera and Palun.



Guaranteed Power at EverFocus PoE Switch

IEEE PoE Standard	Class	Guaranteed Power at PoE Switch
IEEE802.3af IEEE802.3at (Type 1)	0	15.4W
	1	4W
	2	7W
IEEE802.3at (Type 2)	3	15.4W
	4*	30W

Table 1

* Class 4 can only be used by IEEE802.3at (Type 2) devices.