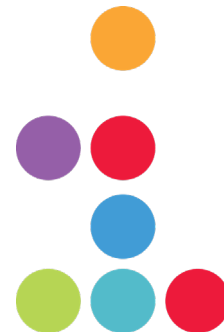# SafeCount – Technical Specifications
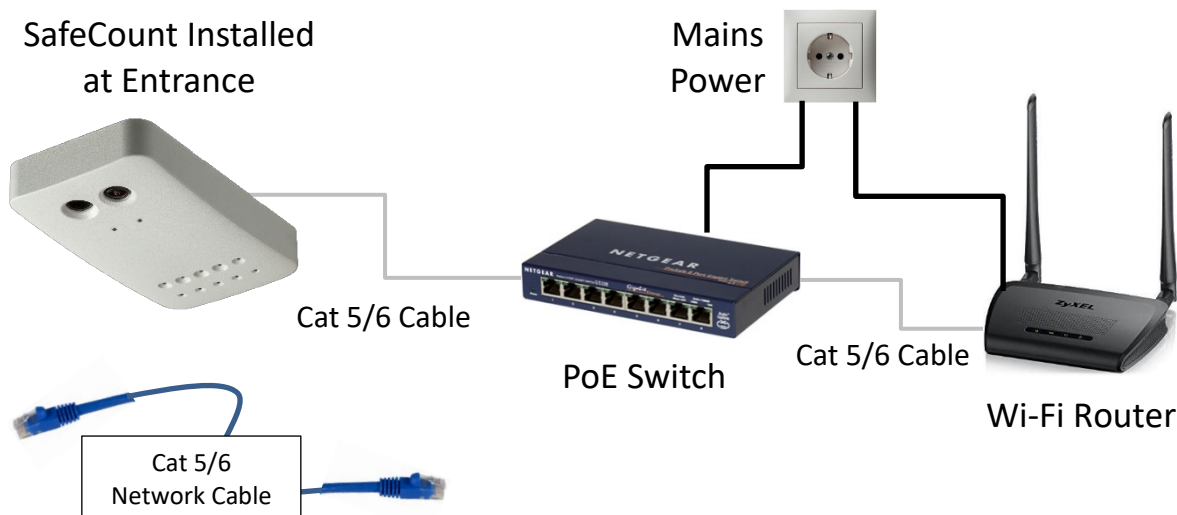
SafeCount

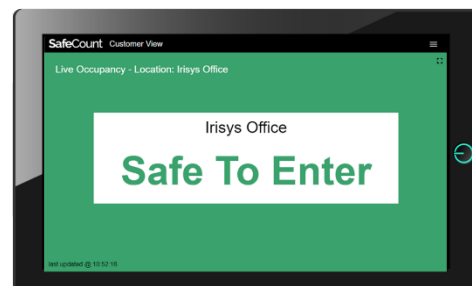SafeCount Technical Specifications   Issue: **2**

Before you Start

Before specifying, and ordering parts, please familiarise yourself with the SafeCount device and how a complete system connects together.

SafeCount Installed at Entrance

Mains Power

Cat 5/6 Cable

PoE Switch

Cat 5/6 Cable

Wi-Fi Router

Cat 5/6 Network Cable

Essentially, the SafeCount device is installed at the door to count people in and out. The IN and OUT values are then used to calculate the occupancy of the building. Note that you'll need a SafeCount device installed at each entrance and exit in order to measure occupancy.

Then, based on a configured maximum occupancy value, entries into the building can be managed via the tablet. When occupancy is at its maximum, further entries should be denied until more people leave.

The full system requires:

> 1x SafeCount device per Entrance/Exit (max 4)
> 1x PoE switch, or 1x PoE injector per SafeCount device
> 1x Wi-Fi Router
> 2+ network cables
> 1, or more, Tablet devices.

Tablet Specification

The main concern for your tablet choice is whether the screen is big enough for use – especially if you plan to leave the tablet display viewable by your customers/visitors.

The minimum screen resolution required is 1024x700.

Additionally, the tablet must be running the Google Chrome web browser app. Other web browser may work, but Chrome is the recommended browser and is known to work.

Any Apple iPad variant will be ok, as will the vast majority of Android based tablets. Just remember to install the Google Chrome browser app on your tablet first.

PCs and laptops will also work fine running the Google Chrome web browser, if preferred.

SafeCount – Technical Specifications

Smart TVs are unlikely to work without connection via an additional thin client device running the Google Chrome browser.

PoE Switch Specification

Any PoE switch which is compliant with the 802.3af standard PoE specification, can be used to connect and power your SafeCount device. Make sure that the switch you use has enough physical ports for each SafeCount plus the Wi-Fi Router connection. Remember that you'll need a SafeCount device at each entrance and exit to/from your store.

If using basic PoE injectors, these too must be compliant with the 802.3af spec. You will need a PoE injector per SafeCount, and each must connect to the Wi-Fi Router.

Wi-Fi Router Specification

The Wi-Fi Router must enable connection of all your SafeCount devices. If using a PoE switch then a single cable from that switch will suffice, but if using individual PoE injectors, make sure that your Wi-Fi Router has enough physical ports to allow connection to all of them. If your Wi-Fi Router only has one port, then a basic switch will also be required.

Network Configuration

The address range for the Wi-Fi Router should be 192.168.0.xx. This is often the default for Wi-Fi Router, but if it is different, it can be changed – please see your Wi-Fi Router instructions, or speak to your IT department if you're not sure.

The SafeCount device will be utilizing IP address 192.168.0.250. If you have other SafeCount devices on other doors these will be using addresses 192.168.0.251 and above.