AVSystem & Terabee

Technologies that come together
for a better people counting solution

Terabee has partnered with AVSystem to deliver the most comprehensive and reliable people counting solution that answers current, pandemic-ridden market needs. Terabee's Time-of-Flight (ToF) based devices were paired with AVSystem's Linkyfi platform for WiFi management to provide the most accurate data on occupancy.
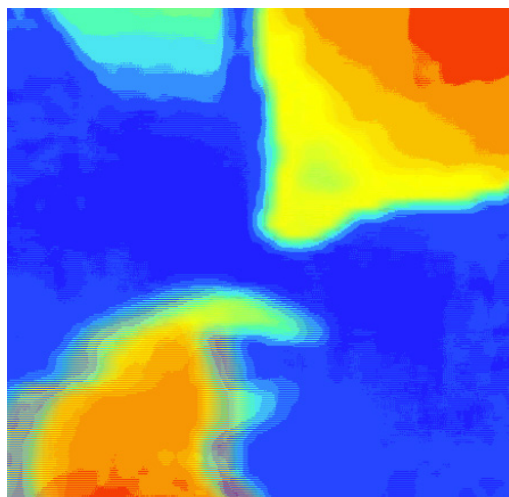
Terabee's precise ToF technology

By using Infrared Time-of-Flight technology to sense depth, Terabee's cameras and sensors collect non-intrusive depth image data, meaning that personal identity can never be captured. Since the devices do not require ambient illumination for optimal performance, they are suitable for applications in low light or complete darkness.

Enhanced by AVSystem's Linkyfi platform

The Linkyfi platform can combine data from multiple sources, such as WiFi- and BLE-equipped devices – and now also cameras – to measure how many people are in a venue at any given moment. Over the years Linkyfi has been applied commercially by verticals such as retail, HoReCa or transportation for guest WiFi management, indoor location tracking and WiFi marketing.

Recently, the platform was equipped with the Linkyfi Social Distancing and Occupancy Management tool. It allows venues to safely maintain physical distance using a set of alerts that go off when required visitor limits are exceeded. Additionally, it helps venues control rush hours, identify points of congestion, and keep visitors aware with text, push, and email notifications.

Why choose us?

No single people counting technology is perfect. They all have their benefits and drawbacks, some bigger than others. While WiFi-based metrics on occupancy are quite reliable, they are not 100% accurate, as they can't account for people who don't have WiFi-equipped devices. Cameras, on the other hand, are more accurate, but they can account only for people entering and exiting the venue. This means that if they fail at either point (entrance or exit), for example if something obscures their view, their count will now be permanently affected and accumulate error. By combining these two technologies, we get a checks-and-balances system for accurate visitor count and more. WiFi also offers indoor location tracking that helps manage occupancy even better, as well as other visitor metrics, such as return rate.

Key features

This combined solution ensures:

- Personal privacy protection, GDPR compliance
- Reliable data – 98% accuracy
- Discrete hardware, easy to deploy software
- Does not require ambient light – works effectively in low light environments
- Fast, easy instal via Web GUI
- Remote device management and updates
- Indoor location and visitor metrics