irisys
Vector 4D

Vector 4D is the latest innovative product from Irisys. Developed based on customer feedback over many years, it is highly accurate and boasts advanced dwell and staff detection features. This objective data goes beyond people counting and enables businesses to make informed decisions that improve customer experience, save money and increase profits.

KEY FEATURES:

- 99% accuracy
- Employee detecting
- Dwell time measuring
- Works in darkness
- Easy installation
- Connect up to 32 units seamlessly
- Remote configuration and validation
- Unaffected by reflective or shiny surfaces
- Accurately detects children and adults
- Edge IoT device

SOLUTIONS:

- Optimise customer service
- Increase store conversion rates
- Reduce labour costs
- Shorten customer queuing time
- Save space, energy and money

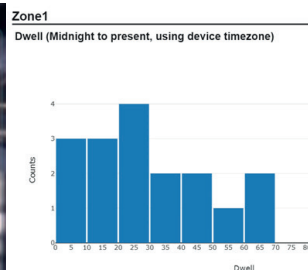**HIGH ACCURACY** · **STAFF DETECTION** · **DWELL TIME** · **WORKS IN DARKNESS** · **MULTI UNIT**

Customer Dwell
Dwell time in defined zones can be measured in seconds. Data can be visualised in histograms.

Zone1
Dwell (Midnight to present, using device timezone)

Employee Detection
Employees wearing lanyards made of a special material can be excluded from counts or counted specifically. This detection is passive and requires no additional setup, RFID tags or batteries.
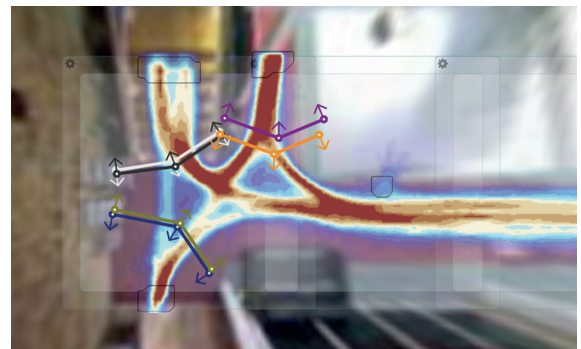

Red = Staff
Yellow = Customer

Customer Engagement
Utilising the employee detection functionality, Irisys algorithms can measure how long customers wait for service and how long it takes staff to serve them.
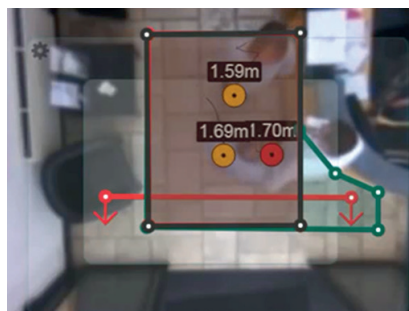
Heat Map
Visualisations built in to the Estate Manager platform allow you to easily identify trends.

Multi Unit
Up to 32 devices can be connected together seamlessly at the edge, eliminating the need for 3rd party application servers. Algorithms ensure that people moving between sensors are not lost or counted twice.

PEOPLE COUNTING | **INSTORE ANALYTICS** | **QUEUE MEASUREMENT** | **SMART BUILDINGS**
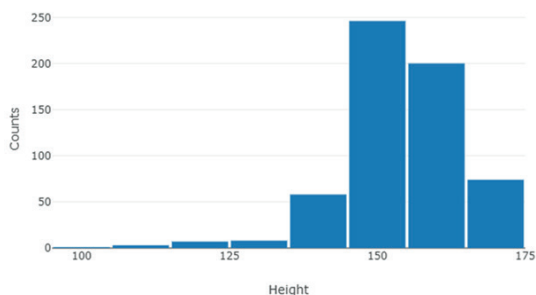
Count Lines and Zones
Each counting network can have up to 32 different count lines or zones.

Extreme Light and Darkness
Using infrared light, Vector 4D works perfectly in extreme sunlight or darkness. Not affected by shadows or reflections and works accurately in high contrast environments.

Demographic Data
Using height data that is accurate to +/- 2cm, customer demographics can be inferred.

Future Proof
Built on robust hardware with a MTBF of 25 years.

Time of Flight technology
The device emits invisible infrared light, which illuminates the scene below. Reflected light is detected and the time taken for it to return is used to identify people from objects and track their movements.

Easy Installation and Configuration
Fast and easy thanks to a HTML5 web based, mobile friendly, GUI which can be accessed locally and remotely.

Local and Remote Device Manager
Check the health of your device network, perform data validations and upgrade remotely for new features.

Integration
Via MQTT, REST API or HTTP POST, data can be quickly integrated in to existing systems.

Compatible Deployment
Built to work with Irisys' Estate Manager platform, the Vector 4D can be deployed with other Irisys products.

BOOK A FREE DEMONSTRATION OR DISCUSS FURTHER:

www.irisys.net/contact-us

TECHNICAL SPECIFICATIONS:

Technology	Infrared - Time of Flight
Mounting Height	2.0m to 4.5m
Coverage	Varies based on mounting height @ 2.5m = 2.27m x 1.63m @ 4.0m = 4.41m x 3.16m
Counting Modes	Lines - addition, subtraction, sequential, alternative, exclusion Zones - count, duration, exclusion, staff call, staff attend
Detection Speed	5 m/s (max)
Required Illumination	N/A - works in total darkness
Sensor Dimensions	195mm x 110mm x 32mm
Sensor Weight	550g
Housing Material	Cast aluminium alloy
Power Supply	PoE IEEE802.3af Class 3 (<12,95W)

Auto Height Setup	Yes
Height Measurement	Yes - accurate to +/- 2cm
Dwell Measurement	Yes - with histogram output
Configuration Interface	HTML5 web configuration Access remote/local Mobile device compatible
Data Interface	HTTP POST (JSON formatted) REST API MQTT
IP Interface	IPV4, IPV6 ready Fixed IP address / DCHP IP connections secured using TLS v1.2
Video Validation	Low resolution Setup and audit purposes only
Origin	Manufactured in UK
Part Number	IRC6637-AW

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