XY SENSE A+K

A new type of workplace sensor.
A smarter office re-entry.

At XY Sense, we've built a world-leading smart sensor platform to help you access and act on workplace data in real-time.

Our sensor helps you create COVID-safe environments for returning teams and future-proof your workplace strategy with powerful data.

✓ SOCIAL DISTANCE MONITORING

✓ COVID-Safe ALERTS

✓ LIVE ANALYTICS

✓ BOOKING SYSTEM INTEGRATIONS

CRE teams **need accurate data** now, more than ever.

→ Social Distancing

→ Desk Booking

→ RTW Team transitions

→ Downsizing CRE footprint

→ Forensic cleaning

→ Office / Space Planning

FUTURE-PROOF YOUR OFFICE RE-ENTRY
Create a smarter, safer workplace with XY Sense

XY Sense's advanced workplace solution delivers immediate and long-term benefits for property teams adapting workplace strategies in the era of COVID-19.

COVID19 - Social Distancing

18
Average Violations per Day

3
Average Rule 1

6
Average Rule 2

10
Average Rule 3

WITH FREQUENT VIOLATIONS

DISTRIBUTION OF VIOLATIONS

Project Space B 13.86%

Corridor 27.23%

Open Plan Neighbourhood B 32.18%

Meeting room A 15.84%

Open Plan Neighbourhood A 10.89%

VIOLATIONS PER DAY

MacBook

☑ **RIGHT NOW**

Support a safe return to office with real-time social distancing monitoring, live alerts and data-driven space booking systems.

☑ **OVER NEXT 12-18 MONTHS (AND BEYOND)**

Measure your 'new normal' before you act on downsizing or space re-design. De-risk strategic planning in an uncertain landscape and take a data-driven approach to workplace planning.

Our sensor is the first of its kind.

Developed in-house by leading machine learning engineers.

Advanced AI sensor
Analyse people movement not tags or devices.

Truly real-time
When we say real-time we mean it. Updating your analytics every 2 seconds.

Pin point accuracy
The best positional resolution on the market. Capture sightings from 30cm - 1m.

Greatest range sensor on the market
95 sqm line of sight means fewer sensors to install, cheaper to run.
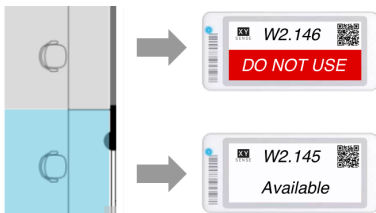
Enterprise-grade security & privacy controls
100% anonymous data capture, processed at the edge of the sensor.

One advanced sensor, multiple benefits.

REAL-TIME SOCIAL DISTANCING MONITORING AND ALERTS

XY Sense can identify people's positions accurate to under 1m every 2 seconds. This makes it possible to monitor and act on social distancing breaches in real-time. Assign a mobile number to text per geofenced area on floor plan and customise alerts to remind team members to stay distant and safe.

INTEGRATIONS WITH E-LABELS FOR DATA-DRIVEN SPACE BOOKING

Help returning workers understand where it's safe to sit through wireless e-labels connected to your XY sensor. Unlike static floor plans, XY Sense can adapt and update desk e-labels based on real-time usage and capacity in a given space.

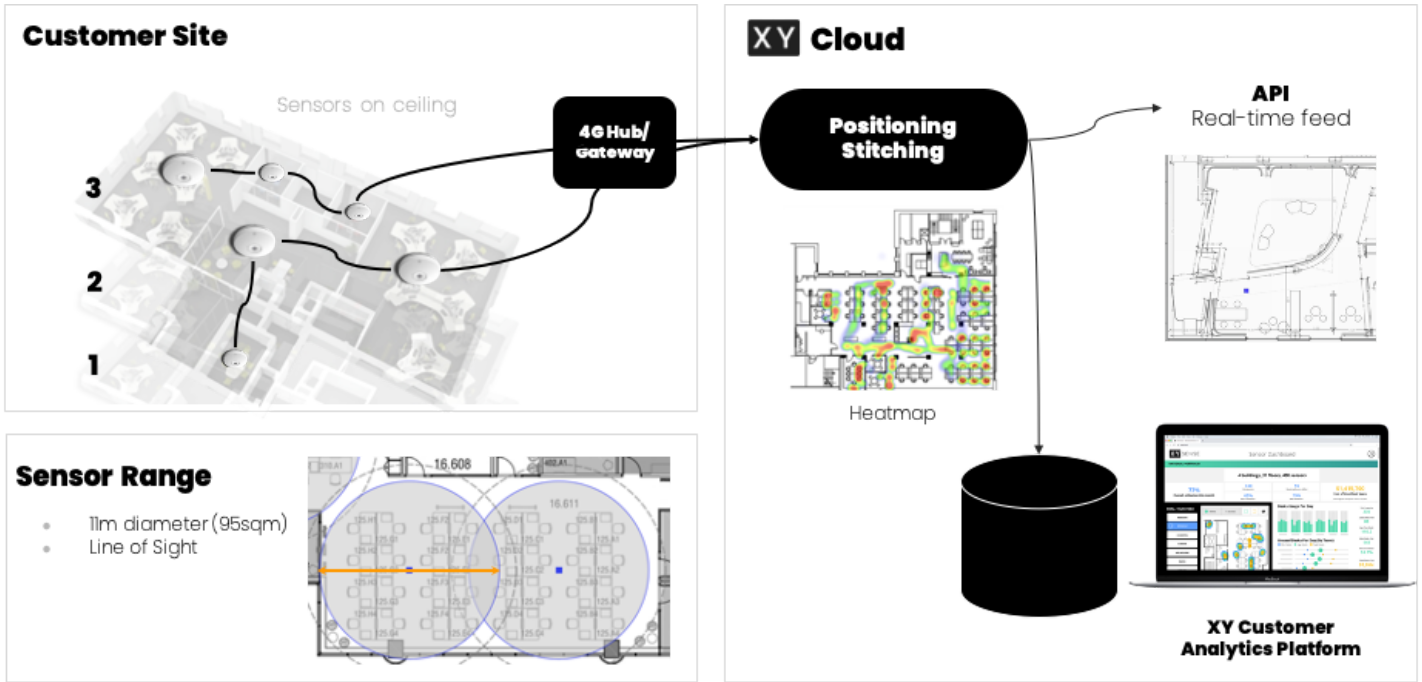### ACCURATE USAGE REPORTING & OPTIMISED CLEANING SERVICES

XY can provide a precise heat map of all areas that have had traffic or usage on a floor. Track social distancing breaches as well as space usage in a given day, down to the desk level, to optimise cleaning costs and ensure team safety.

MEASURE YOUR 'NEW UTILISATION NORMAL' AS WORKERS RETURN

Use sensors to start collecting valuable data to inform post-COVID workplace strategies & space redesign. Underpin any long-term corporate real estate decisions (downsizing) with data from 'your new normal' as people start to return to offices.

How it works

Customer Site

Sensors on ceiling

3
2
1

4G Hub/ Gateway

Sensor Range

- 11m diameter (95sqm)
- Line of Sight

16.608
16.611

XY Cloud

Positioning Stitching

Heatmap

API
Real-time feed

XY Customer Analytics Platform

1. Real-time, anonymous data capture

When installed and in active mode, the sensor works continuously to capture sightings of the wide-range sensor zone every 2 seconds. While the sensor has pinpoint positional accuracy (<30cm -1m,) of people moving in a given space, the sensor itself only captures XY coordinates of people to protect privacy.

This anonymous scene data is then processed locally at the 'edge of the device', ensuring that no scenes are ever stored on, or ever leave the sensor device.

2. Data processing at the edge

Processed data is then transmitted via an encrypted MQTT connection to XY Sense's cloud platform through an on-premise 4G hub. Customers have the option to configure the sensors to use their corporate network and firewall. XY Sense's unique sensor daisy-chaining capabilities allows for multiple sensors to connect to one 4G hub.
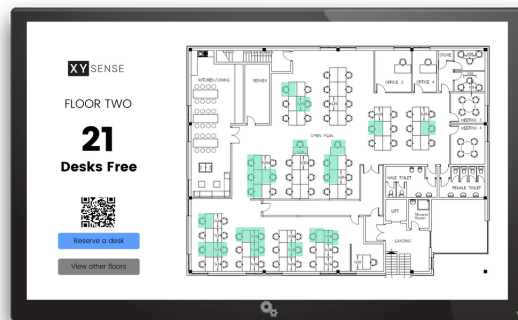
3. AI powered position stitching

Encrypted, anonymous sensor data is then processed by proprietary algorithms on the XY Cloud Platform to deliver accurate positional stitching between sensor sightings. This enables full floor plan coverage without duplicates.

4. Real-time updates to e-labels & booking integrations

Having stitched real-time sightings together and normalised against the mapped floor plan, sensor data is then pushed to both our real-time API feed and XY customer analytics platform to update dashboards, wireless e-labels and smart booking systems.

This processing happens in near real-time with updates delivered to XY customer analytics platform every 2 seconds. This means that end-user tools such as kiosk views of floorplans with available seats/ meeting rooms and e-labels are update in real-time.

XY SENSE

FLOOR TWO

21
Desks Free

Reserve a desk
View other floors

W2.145
Available

W2.145
Occupied

W2.145
Needs Cleaning

Social Distance Warning

Technical Specifications Summary

INBUILT SENSORS	CMOS
TECHNOLOGY	Ultra low power deep learning at the edge running custom neural networks designed by XY Sense.
POWER CONSUMPTION	3 –5 W
POWER & DATA SUPPLY	External – Ethernet Cat5e cable via Gateway
DATA OUTPUT	For each person detected, an encrypted binary packet is sent via direct connection to the gateway. •X,Y coordinates relative to the sensor •Anonymous person vector to help differentiate people and prevent double counting. Eg [1.375, 2.75, 0.375,]
COMMS PROTOCOL	HTTPS/ Encrypted MQTT over ethernet
DATA USAGE	1.5 MB/s per 40 sensors
COMPLIANCE	Our sensors have passed FCC and CE certification for international use. XY Sense is a US company and we have validated our installation designs against US and European installation guidelines.

Clean energy installations

Our installations are permanent - not battery powered, saving money for our customers and protecting the environment. Batteries aren't suitable for a true real time solutions as they require consistent changes, draining the environment and facilities team patience.

XY Sense's permanently installed low powered sensors help companies maintain sustainable clean energy ratings and ensure data continuity.

Our daisy-chain difference

To our knowledge, we're the only daisy chain capable AI sensors in the utilisation space. This enables us to have vastly cheaper installations with up to 16 sensors drawing power and comms from a single source.

Installation can be performed with pre terminated patch cables and much shorter cable runs.

A smart sensor platform, designed for enterprise teams.

Truly passive, real-time data capture

No need for workers to carry anything, install apps, enable Bluetooth or connect to Wifi.

Our sensor works day and night capturing data in real-time.

Easy to use analytics

No manual data wrangling or external data support required. Powerful workplace analytics are at your fingertips with our out of the box analytics and data science support.

Enterprise-grade security

Enterprise-grade security with fully anonymised data collection. Our sensor only captures XY coordinates of individuals within a given zone, hence our name.

Flexible Integrations

Our open data platform and APIs support integrations with a variety of IWMS, desk booking and BI tools.

Enjoy seamless data flows.

XY SENSE

About XY Sense

Founded in 2016 by Alex Birch and Luke Murray, XY Sense is a Melbourne headquartered technology startup that has designed and engineered a world-leading smart sensor platform to help businesses access and act on workplace data in real-time.

- Our sensors are unique. Our proprietary sensor technology has been designed and engineered in house using the latest in machine learning, AI technologies.

- Our founders have 20+ years' combined experience in real estate technology (Serraview Co-Founder & Former Senior Architect) and our team is made up of leading ML/AI engineers, enterprise software experts and data scientists.

- We're backed by Blackbird Ventures (Canva, CultureAmp, Safety Culture & Zoox) and have growing team of 15+ across Melbourne and Sydney.

- We're trusted by major enterprise companies across Australia and New Zealand. And are on track to install our sensors in over 200,000 sqm of corporate offices by the end of our launch year, 2020.

- We're expanding rapidly and have commenced remote global installations in the UK, USA and EMEA.

Are you ready to use AI sensors to create a truly data-driven workplace?

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A+K

About Anders +Kern

Anders+Kern is an authorised distributor of XY Sense technologies in the United Kingdom.

Anders+Kern UK Ltd is a leading Digital Workplace distributor and audio visual channel integration partner based in Suffolk, UK. Founded in 1989, A+K are specialists in AV, digital signage, Sensors, room and desk management/booking systems, visitor management and data analytics.

Our mission is to inspire with innovation and simplicity, and be the Distributor of choice for IoT & workspace software solutions, championing "best in class" through quality service & support.'

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