



Orama group



**UNIVERSITY
OF TRIESTE**

Argus Security Meets UNITS

Trieste, 28 April 2025



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Argus Company Profile



Introductions



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ORAMA group of companies
Engineering Director



Federica Scrigner

Marketing Specialist



Luca Toso

Electronics Development Leader

Who we are



Who we are Company Overview

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- Argus Security is one of the world's leading designers and manufacturers of **wireless and wired smoke detection and alarm devices**.
- Company has been founded in 2001 and today employs **100+ experts** in the design, manufacture and supply of high-performance fire protection products.
- Together we cover **30+ geographies** across the globe.
- **2+ millions devices** per year produced at Trieste plant.





Who we are

We are part of the Orama Group



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Orama is a group of market leading wireless businesses united by a strong commitment to keeping people and their environment safe using the power of wireless technology and digital systems, creating value and opportunities for our customers and society.

The Orama Group is comprised by 3 companies, Hyfire, Argus and Ramtech, generating revenue of approximately £39m.



Who we are

The Halma group of companies



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- Orama is part of **Halma plc**, a **global group of life-saving technology companies**.
- FTSE 100 company with 6.300+ employees in around 41 subsidiaries worldwide.
- Our business is split into three sectors.
 - **Infrastructure Safety Products**
 - Medical Products
 - Environmental and Analysis Products and Technologies





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Our Values

-  **Stay close to the customer:** Listen carefully, delight and exceed customer expectations.
-  **Think digital:** Continually grow and change. Challenge assumptions and grasp digital opportunities.
-  **Act transparently:** Play to win, but not at the expense of the others. Be fair and honest in all that you do. Be inclusive and leverage diverse points of view.
-  **Be accountable:** Be innovative and data driven. Transform bold ambitions into reality. Be agile and responsive in the face of change.
-  **Be bold and own it:** Own everything you do, enjoy empowerment and eagerly collaborate to accomplish our goals.

Products



Our Product Families

Wireless and Wired Fire Detection and Alarm

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Argus offers the **widest range of commercial wireless and wired fire devices on the market**, ranging from optical, multi-criteria and heat detectors to notification, alarm, interface and control units.

Wireless product lines

TAURUS 

LIBRA 

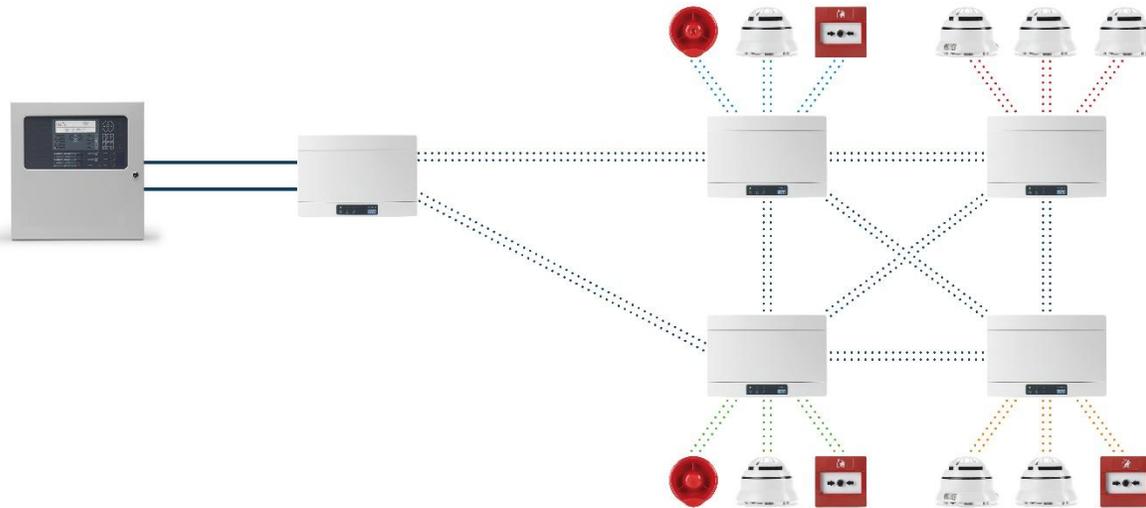
Wired product lines

ALTAIR 

AURORA 

Taurus Wireless Technology

Key Features



- TauREX, new user-friendly software
- Network Optimiser Technology: 60 communications channels (infrastructure & field devices)
- SafePath Mesh Expander Technology: Redundant Communication Paths Between Expanders
- SafeSwitch Technology: Dual Channel Redundancy
- Pathfinder Technology: Optimised Infrastructure Range
- Optimised Power Management: Fully synchronized outputs with rapid reaction time and superior energy management using standard CR123A lithium batteries across the range.

Wireless Technology

Typical applications

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Wireless is highly flexible making it the ideal solution for a wide range of applications.



Industrial



Retail



Leisure & Hospitality



Heritage



Commercial



Healthcare



Education



Government & Public

Recent projects

Miramare castle in Trieste

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Unity Building, Liverpool **Residential building 26 storey**

- Project size: 1000+ devices
- Complete renewal of the fire protection system in an occupied building in just 4 weeks.
- The use of Taurus allowed the original system to remain fully operational until its replacement.

This is a large and complex building, so we had concerns when it was suggested that a wireless fire alarm system was the best option to be installed. There were a couple of concerns about wireless signals traveling through the thick concrete sections of the building, but these proved completely groundless. The whole system has worked without a hitch from day one. - Chris Attwater, Regional Manager for the buildings managing agent FirstPort



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Grenfell Tower, London, 2017

72 avoidable victims



R&D

Electronics and Software Development



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Radio technology

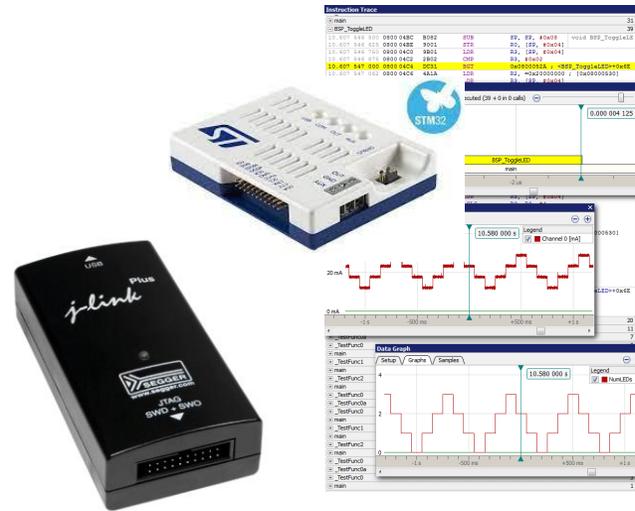


Bluetooth® Low Energy



- BLE 5.2 +
- Meshing
- 868

Debugging



Firmware ARM



- RISC32 bit, 16 bit
- Cortex M (0+,3,4,33)

- Tracing
- On-target debug
- Env Dockerization
- CI/CD

Q&A





THANK YOU!

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