

# Firefighting Intervention Simulators

Professional firefighting training facility design overview focuses on creating a state-of-the-art training environment tailored for various emergency response scenarios, particularly related to firefighting tactics during intervention handling. Below is a structured breakdown of the key features and functionalities:

## Facility structure Overview



Based on fully equipped and customized containers



An adaptable multi-level approach committed to fulfilling diverse training needs.



External and internal stair access for efficient movement.



A 600°C resistant coating scheme ensures high-temperature safety.



Interior elements constructed from stainless steel, including dedicated fire burners for realistic training scenarios.



Aluminium non-corrugated floors promote durability while easing cleaning and maintenance.

## Training Features

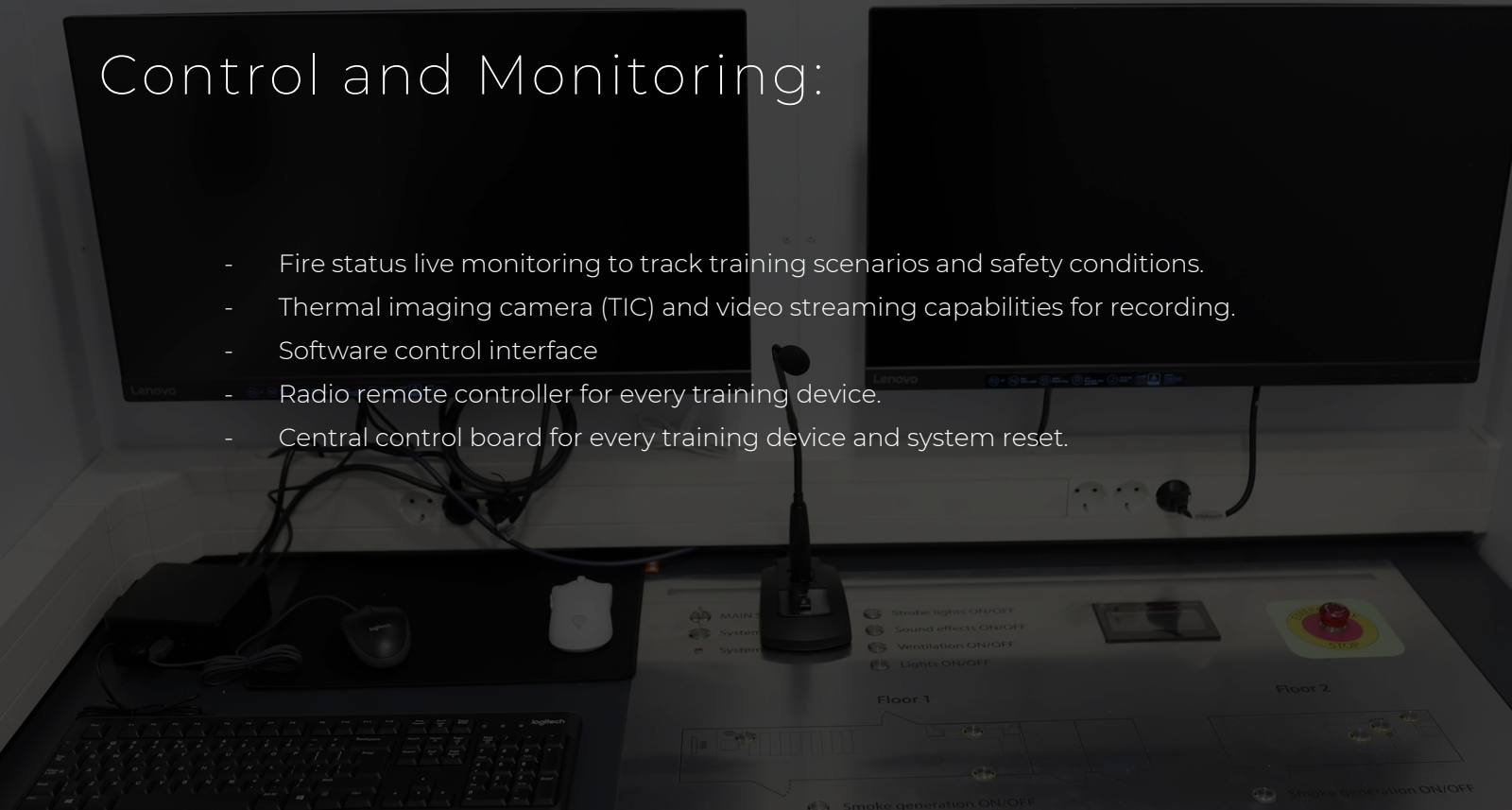
- LPG-operated fire points strategically placed for state-of-the-art training exercises (6 units).
- LPG flashover simulator (1 unit).
- Training elements for high pressure cutting tools.
- Smoke generation capabilities on both floors to simulate real fire scenarios.
- Sound playback system integrated into both floors for realistic auditory training effects.
- Various door and hatch access solutions, including labyrinth designs, enhancing training complexity and realism.



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TECHNOLOGIES

## Control and Monitoring:

- Fire status live monitoring to track training scenarios and safety conditions.
- Thermal imaging camera (TIC) and video streaming capabilities for recording.
- Software control interface
- Radio remote controller for every training device.
- Central control board for every training device and system reset.



# Software control interface

- Database for trainee tracking and management.
- Scenario management for activating all training devices and creating scenarios.
- Event history tracking and generation of PDF reports for documentation and review.

## Safety

- Fixed LPG gas monitoring safety system, including two sensors inside each closed area and a controller.
- Automatic gas supply shutoff feature for each fire point when extinguished.
- Emergency function with individual circuits.
- Ventilation system equipped with four powerful fans and automated shutters.
- LED daylight fixtures throughout the facility.
- Clearly marked evacuation routes with illuminated signage.
- Emergency stop functionality.



## Conclusion

This training facility is designed to deliver immersive, realistic scenarios for professional firefighters, ensuring they are well-prepared for firefighting and rescue situations. The combination of innovative materials, advanced simulation technologies, and thorough safety measures provides a comprehensive training solution that meets modern standards and enhances readiness for real-world challenges.

