



Exclusive
Residences,
Apartments,
Shops and
Offices

ICAM[™]
by  **xtralis**[™]

The shortcomings of conventional systems are obvious

Challenges faced...



Aesthetics

Many exclusive homes, luxury apartments and executive office interiors have their aesthetics compromised by the presence of conventional point (spot) smoke detectors. Architects are looking for alternatives which can provide discreet or invisible detection.

Access

Maintenance of conventional smoke detectors in large housing estates and serviced accommodation is often difficult and expensive where access to the detector is regulated and complicated by privacy concerns.



Assured Performance

Risk of tampering or misuse is a challenge for conventional smoke detectors. If burnt toast or cigarette smoking causes tenants to restrict air flow to a detector, how would you know?

Vandalism and Nuisance Alarms

Where conventional detectors are placed in public spaces they are obvious and recognizable. They get vandalized and subject to mischief causing nuisance alarms, both at great cost to service continuity and maintenance budgets.



Asset Protection

Loss of precious chattels from smoke and fire damage can be enormous and difficult to prevent without early warning detection. Water released by any sprinklers might control a fire for the benefit of a building structure but would most likely destroy occupier assets. Costs and delays for clean up of smoke and water damage can be massive.

Life safety and environmental quality

Reducing the risk of injury and loss of life from smoke inhalation requires a dependable system that provides local annunciation and remote indication to first responders. Improving the quality of the air within the occupied environment requires more sophisticated sampling technologies than are commonly available.



ICAM by Xtralis Solutions...



Aesthetics

The ICAM family of Air-sampling Smoke Detectors (ASD) sample smoke through piping that can be easily installed and concealed. In properties with ornate ceilings the microbore sampling pipe or discreet sampling points can be installed without either damaging or disfiguring the building structure.

All that can be seen of this high-tech smoke and gas detection system is an unobtrusive capillary tube or fitting painted to match the decor (as shown) or a low profile stainless steel sampling point.

Access

Air-sampling smoke detectors can be located outside of the protected space, allowing convenient servicing of the system without necessarily requiring access or interruption.



Assured Performance

ICAM ASD detectors actively draw air samples to a central detector for analysis and constantly monitor the airflow to the detector to ensure reliable sampling. Any tampering with the pipe network or restriction on the airflow raises a fault that can be indicated locally to occupants or centrally to maintenance staff.

Vandalism and Nuisance Alarms

ICAM detectors provide multiple levels of alarm to provide time to respond to an event with the appropriate level of urgency and the minimum disruption. Very early warning alarms can alert facility management staff or occupiers to respond before brigade or emergency services are involved. Rugged vandalism-proof sampling points are available for high-traffic and high-risk public spaces.



Asset Protection

The very high sensitivity of ICAM detectors (typically 1000 times more sensitive than conventional detectors) can provide time for investigation of the earliest signs of incipient fire, before smoke is even visible. Risks of flaming fire and large volumes of smoke can often be completely avoided and actuation of suppression systems avoided. Should suppression be required, ICAM solutions provide the most reliable detection of high levels of smoke.



Life safety and environmental quality

The very early warning capabilities of ICAM detectors allows monitoring for very low levels of smoke often seen in smoldering fires and below levels known to be toxic or unhealthy. In addition, these unique systems can, via the same sampling pipes, provide monitoring for harmful gases, to more completely monitor the quality of the occupied environment.



Other industries

Unmanned sites

- Fully self-contained
- Additional environmental parameters monitored
- Web access

Warehouses

- Pipes can be placed within the racking
- Minimize maintenance costs
- Access difficult to reach areas which cannot be monitored by normal detection

Correctional Facilities and Detention Centers

- Tamper proof air sampling
- Central Maintenance facilities

Cold stores

- No heated detector bases
- Very Early Warning
- Unaffected by high airflows
- Simple installation

Mines

- Individual protection of high-voltage switchgear cabinets
- HV cabinets are bolted and cannot be opened easily
- PLC and control rooms
- Electrical substations

Historic buildings/ Museums

- Discrete monitoring
- Rapid response
- Monitoring valuable assets

IT rooms

- Extremely high sensitivity
- Individual cabinet identification
- Unaffected by high air speeds

Exclusive Residences, Apartments, Hotels, Shops and Offices

- Aesthetic, invisible
- Remote web monitoring

Utility providers

- Large area coverage
2,000 sqm (20,000 sq ft)

Transport

- Ideally suited to long compartments
- Concealed detection
- Automatic air pollution compensation
- Multiple sectors for carriage sets with integral cabs

Significant religious buildings

- Unobtrusive detection
- Earliest detection

Wind Turbines

- Smoke detection control during braking both Emergency and Operational
- Unaffected by arcing, lightning and static electricity
- Unaffected by air speeds within the generator
- Insensitive to environmental conditions



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