iVENCS CORE

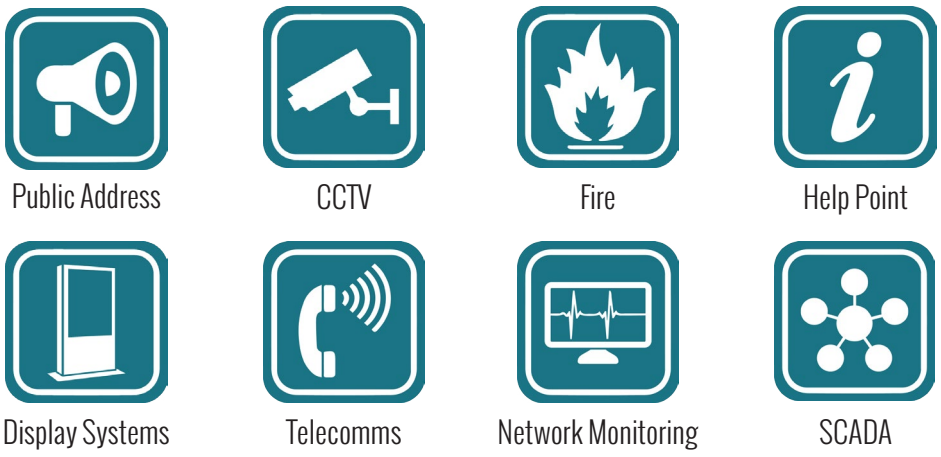
overview

The iVENCS Control System is an open and intuitive integrated management platform. Offering robust control, monitoring, and incident analysis across all building safety, security and communications subsystems, iVENCS sits at the heart of building and site management.

- Intuitive 3D or traditional 2D graphical interface
- Comprehensive library of equipment types
- No ongoing license cost
- Distributed processing with multi-site redundancy
- Modular system architecture; easily expandable
- Customisable administrator permissions
- Cross platform support
- Caters for many industry applications

a custom solution

According to what subsystems you wish to monitor and control, you can add any number of iVENCS modules to the iVENCS Core package. iVENCS can simultaneously control many subsystems, including: Public Address; Fire; CCTV; Digital Signage; Network Monitoring; Building Management Solutions, SCADA, and more*. Thus, from small site management to large sites, iVENCS can be as comprehensive as you require.



and more...

* Please see our Module Handouts for more information on each module

3D and 2D GUI

iVENCS can be used with either or both a traditional 2D view, or with ASL's award-winning 3D view, which allows the user to fully navigate around the building or site.

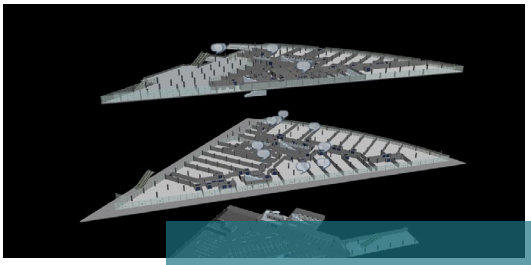
The 2D view allows the user to view site maps at the top-level - useful for large site applications such as multiple stations over a railway line, or large international airports with many gates.

Meanwhile, the intuitive 3D view enables the user much more in-depth control of the site, with the ability to: zoom in on certain devices to see their statuses; select zones and graphically see which zones you are making announcements to; analyse escape routes; and also be alerted of system faults in real-time. Intuitive controls allows the user to pan, tilt, rotate and zoom at ease, whilst allowing the user to view and select multiple storeys at once, or to drill down into a particular floor or room.

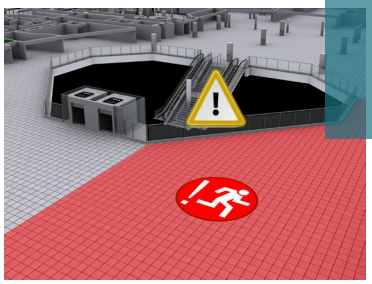
2D

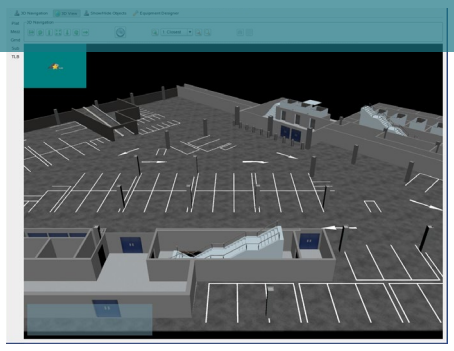
A 2D view of the Glasgow long line PA system - allowing multiple stations to be monitored at once.

3D



A 3D GUI of Westfield shopping centre, with easy navigation of multiple storeys at once





fault and status reporting

iVENCS continuously monitors both its own health, the status of its subsystems, and all associated devices. Each alarm is configured using a prioritised alarm structure, with its own colour, symbol, display icon, audible alerts and pop-up warning banners. And it's not just alarms that iVENCS can monitor; status icons can be used to show the current operating statuses such as doors being open or closed, the direction of escalator movement, or even the position of lifts or barriers.

All triggered alarms and system faults are logged as incidents, and are stored in an event history on the system. A user can look back over past incidents and create a report, and can also export the data to Excel. With search, sort and filter functions, any device can be quickly found and its history easily looked up.

flexible user permissions

Different admin rights can also be configured in iVENCS for various users according to their role - for instance, a site maintainer's account can be configured to view the entire system and all device statuses for full comprehensive control, whilst the account for a site manager who only wishes to see the overall site status can be configured to see just a number of indicators and statuses.

simple system maintenance

With a built-in editing tool, iVENCS users are free to maintain and amend the system themselves, with no need to come to ASL for development works. Users can freely re-position and edit subsystem equipment icons in the GUI to add new devices and mirror system changes, with preview, auto-save and roll-back functionality - all whilst a record is made of all the changes.

A training mode gives operators the ability to play out lifelike scenarios within a safe simulated environment, without the need to purchase and maintain additional training workstations. However if you would like hands-on training with one of our iVENCS engineers, we offer a range of courses to suit your needs - please contact us for more information.

low operating costs

Intelligent alarm handling allows equipment downtime and maintenance costs to be reduced. In the event of an equipment failure, the fault is prioritised and escalated to in-house and external maintainers, according to the failure's impact on the system.

With a single click, the operator is transported through the 3D model to the affected device, without the need to hunt through files or check site plans. Contigency plans are automatically enacted where necessary, whilst detailed diagnostic information in the form of a fault tree accompanies alerts with suggested corrective actions.

ST PANCRAS INTERNATIONAL

St Pancras International is Europe's largest rail hub, where several iVENCS workstations offer control and monitoring of over 8,000 devices across 16 communications, security and life safety subsystems.

These include CCTV, BMS, network switches, passenger help points, long line public address, voice alarm, access control, passenger information displays, vehicle barriers and telephones.

The system incorporates advanced features for failover and redundancy between operational and backup locations, allowing other stations to take on a disaster recovery role for St Pancras in the event of a control room evacuation.

implementation options

There are a number of implementation options to suit various different needs, budgets and requirements.

iVENCS can be installed onto any number of workstations. For smaller applications, just one PC with a built-in server will suffice, whilst at the other end of the scale multiple-server systems can be set up with IP connectivity; enabling the management of large complex sites with an almost unlimited number of monitoring and control points.

Both the servers and workstations run on either Windows or Linux operating systems. An iVENCS system can be supplied with more than one server to offer dual or multiple redundancy, ensuring peace of mind that the system will keep running smoothly even in the event of a system disruption.

Please see the table below for examples of various hardware options*:

	Integrated-Server Workstation	Separate-Server Workstation
Standalone	 **1 workstation + built-in server** • Back-end server + Front-end user interface all in one PC • Less storage space required • Best for smaller sites	 **multiple workstations**  **+ separate server** • Back-end server PC separate from Front-end user interface PCs • Easy to upgrade • Best for large sites with more than one system operator
Dual Redundant	 **2 workstations + built-in servers** • Most reliable option for a smaller site • Two workstations/ servers ensure dual redundancy - if one workstation fails, the other keeps the system running	 **multiple workstations**  **+ multiple servers** • Most reliable option for large sites • Multiple servers ensure dual redundancy - if one server fails, the other(s) keep the system running

* Each option can have as many workstations as required

We understand that different sites have many different requirements, and that working out the variation of control system you require can be complex - so please contact us if you would like any help with clarifying your requirement, and we will be happy to assist.