Protecting you, your home and your business
About WESTRONICS Ltd

Our Philosophy
At WESTRONICS we have vast experience installing fire and security systems for over 8,000 commercial and domestic customers. WESTRONICS’ philosophy is to work with our customers to identify their needs and tailor our designs to provide a system that meets their requirements with our expert installations team using high quality equipment. Put simply we install systems that work for you!

Who we are
WESTRONICS are an independent Fire and Security Systems Company based in Reading, Berkshire, serving customers throughout the South of England and further afield where required. WESTRONICS were established in 1969, offering over forty years of experience in delivering highly efficient and effective systems and excellent service throughout our customer base. Our business is focused on the four core areas of Fire Systems, Intruder Alarms, Access Control & CCTV Systems. Our team of security and fire surveyors and consultants is supported by a solid structure of qualified experts and professionals, who are widely recognised as one of the leading service and installation teams within the security and fire industry.

What makes Westronics Different?
The answer is of course extremely simple. WESTRONICS provide the highest quality installations at sensible costs, carry out the projects in the most professional manner, always meet their installation deadlines and operate at all times with the clients best interests in mind.

WESTRONICS are recognised by the fire and security industry as cutting edge in the design and installation of projects. This was proven by our nomination for the ‘Best Security Installation’ at the 2012 IFSEC international security awards.

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**What we do**

**WESTRONICS** design, install and maintain systems under the following categories:

**Fire Systems**
We have an extensive range of sophisticated equipment to meet today’s toughest requests. All our fire systems are designed and installed to BS5839.

**Intruder Alarms**
Every Intruder System is designed and installed to the highest standard with PD6662 as a minimum requirement and are installed to the prestigious NSI gold award standard.

**Access Control**
From a single door to a multi site or multi location we can create an access control system to the highest standard for your premises. All systems are installed to NSI Gold standard.

**CCTV Systems**
From home to commercial CCTV systems, **WESTRONICS** specialist design and installation team can provide the ultimate system and guide you through all aspects of CCTV systems & data protection. All CCTV systems are installed to NSI Gold standard.

**Audio & Video Entry Systems**
**WESTRONICS** design, install and service all types of audio and video entry systems from domestic 1 to 1, to commercial 1 to many, we have a perfect solution for your door entry project.

**Emergency Lighting**
**WESTRONICS** have a wealth of experience in designing, installing and maintaining emergency lighting systems from conventional to eco friendly LED systems we have provided them all. Just ask and we can help.

**Other Products**
**WESTRONICS** can help with most aspects of fire and security. Even if we can’t install and maintain the products ourselves there’s a good chance that we know and can recommend a partner who can. From fencing to locksmiths and security lighting to gates; with over 40 years in the industry Westronics can help.

**Accreditations**

**WESTRONICS** install intruder alarms to BS 4737/ PD6662 and fire alarms to BS 5839. We were also one of the earliest security companies to be approved to BS EN ISO 9001, Quality Management Assurance, which provides an independent assessment by a recognised body, (the National Approval Council for Security Systems NACOSS) of our professional approach to our business. **WESTRONICS** hold the prestigious NACOSS Gold standard and were the first UK Company to have been awarded an accreditation certificate for security systems way back in 1972.

**WESTRONICS** have also passed stringent assessments and are registered to the Department of the Environment (D.o.E.) reference number 7W/BERK/121 as an approved supplier to all departments.

**WESTRONICS** are CHAS accredited and are members of ROSPA.

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A fire detection system will give you the peace of mind that your premises and assets are protected. WESTRONICS can install many different types of fire detection systems from a simple conventional zoned system to a fully networked analogue addressable system.

WESTRONICS has over 40 years experience in designing, installing and servicing fire detection systems in offices, industrial units, schools, colleges, universities and council buildings across the South of England and further afield where required.

Following your fire risk assessment you may find that the installation of a fire detection system may be a legal requirement. WESTRONICS can help guide you and design and install a fire system that meets your needs.

You can rest assured that WESTRONICS only install open protocol panels and detection devices giving you the peace of mind that you will have an adaptable and upgradeable system which isn’t locked to one supplier or manufacturer. All new WESTRONICS’ fire detection systems come with a comprehensive maintenance package meaning that your system will always be in top condition without any surprise repair bills.

Takeover/ Maintenances
WESTRONICS are able to takeover and maintain most fire detection systems and a surveyor will be able to determine whether or not your existing system can be maintained. Westronics offer restricted maintenance on all 3rd party systems which includes annual service visits and offers all parts, labour and call outs at a special reduced rate.

Westronics are also able to maintain and repair emergency lighting systems as well as design and install low voltage LED emergency lighting systems.
Conventional Fire Detection System
Conventional fire detection systems are generally utilised for small to medium sized buildings where manual and automatic detection devices are wired in zones. The intelligence of the fire system resides solely with the fire control panel which receives a trigger signal from the conventional detection devices which in turn controls sounders and other ancillary devices.

Analogue Addressable Fire Detection System
Analogue addressable fire detection systems differ from conventional fire systems and offer a large degree of flexibility and intelligence of the fire system and are generally used for larger premises. Each detection device communicates with the fire control panel and is able to offer precise location of the detector in the event of an activation.

High Sensitivity Air Sampling Systems
High Sensitivity air sampling systems are highly sensitive smoke detection systems. These systems can detect a potential fire at a very early stage, long before a conventional smoke detector would activate. Air sampling can be also be installed in more challenging environments such as high bay warehouses and manufacturing plants and can be configured to operate at lower sensitivity levels.

Fire Suppression Systems
Fire suppression systems are generally used to protect high value assets within a confined space i.e. data centers, comms room etc. A fire suppression system is made up of the suppression agent stored in cylinders and released into the enclosure via a frame work of discharge pipes controlled by a separate fire detection system.

Linear Heat Detection
Linear heat detection provides early detection of fire conditions or overheating of equipment, plant or the surrounding area. Linear heat detection cables are conventional heat detectors in a linear form. They sense heat anywhere along their length and are designed to be used in commercial and industrial applications. Heat sensing cables can be used with or in place of conventional heat detectors or where conventional heat detection is expensive or difficult to install and maintain.

Disabled Refuge Alarm System
A disabled refuge alarm system is now a requirement in many types of building. The system provides safe communication between the master control panel and dedicated refuge areas.

Voice Alarm System
A voice alarm system is installed instead of traditional fire alarm sounders or bells and consists of a central control unit and field based speakers. It is a system that assists in the effective evacuation of an area or building during a fire, bomb alert or other emergency. At all other times a voice alarm system can be used to make public address announcements, broadcast advertisements or background music.

Signalling

The signalling device that you require should be discussed with your insurance provider prior to installation to guarantee that the level of signalling is acceptable.

Dual Com Fire
CSL Dual Com is a dual path signalling device that works on a primary path of GPRS signal (like a mobile phone) and a secondary path of a standard telephone line. Alarm activations are monitored by a central monitoring station who notify key holders if the system is activated. (A single path GPRS only device is available for areas without BT landline coverage).

Redcare Fire
Redcare Classic is a single path signalling device that works on a dedicated BT telephone line. Alarm activations are monitored by a central monitoring station who notify key holders if the system is activated. Redcare is a BT product and requires a dedicated BT line to be installed by the client.

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Commercial Intruder Alarms

An intruder alarm system will give you the peace of mind that your business and assets are protected. A commercial intruder alarm system is primarily installed as a deterrent to ‘would be’ intruders and secondarily to notify of an alarm activation informing the police or a guarding company.

WESTRONICS has over 40 years experience in designing, commissioning and installing commercial intruder alarms at offices, industrial units and large infrastructures across the South of England and further afield where required.

Westronics use devices from the following manufacturers to create the perfect intruder alarm system for you and your property:
- Galaxy
- Texecom
- Visonic
- Risco

All new WESTRONICS security systems come with a comprehensive maintenance package allowing you to have peace of mind that your system will always be in top condition without any surprise repair bills.

Takeover/ Maintenances
WESTRONICS are able to takeover and maintain most intruder alarm systems and a surveyor will be able to determine whether or not your existing system can be maintained. WESTRONICS offer restricted maintenance on all 3rd party systems which includes annual service visits and offers all parts, labour and call outs at a special reduced rate.
Jargon Buster

Control Panel
An Intruder Alarm control panel is a wall-mounted box where the detection devices and wiring of the alarm are ultimately connected and managed. If the system is wired then all wiring goes back to the control panel, if the system is wireless then a radio frequency transmitter will be sited in the control panel. Where possible it is preferred to site the control panel out of view.

Keypad
The keypad is the device with which you set and unset the intruder alarm system. Setting is possible using a code, key fobs or a radio remote control (dependent on system chosen).

Movement Detector
Also referred to as Dual Techs or PIRs. Detectors generally are fixed to the corner of the room to provide the widest area of cover.

PIR
Strictly speaking, PIR (Passive Infra Red) sensors do not detect motion; rather, they detect abrupt changes in temperature at a given point. As an intruder walks in front of the sensor, the temperature at that point will rise from room temperature to body temperature, and then back again. This quick change triggers an alarm activation.

Dual Tech
A Dual Tech is a PIR detector & microwave detector combined that has all the features of a normal PIR with the addition of a microwave sensor which is not affected by temperature and makes them very effective for use in situations where there are large temperature fluctuations like conservatories. Dual Techs are less susceptible to false alarms and are Westronics preferred choice of detector.

Magnetic Contact
Fitted to either a door or window, the magnetic contact measures an opening of more than 22 - 60mm which in turn creates an alarm activation.

External/Internal Sounder
External and internal sounders are the boxes on the inside and the outside of the property. When an alarm activation takes place these sounders will emit a loud sound alerting people of the alarm condition and are also designed to deter any intruders.

Signalling

Speech Dialler
A speech dialler is a simple signalling device, a box that connects on a standard telephone line to the intruder alarm system. Up to 8 telephone numbers of your choice can be programmed into the speech dialler. Upon activation of the alarm the speech dialler will automatically call these numbers until the call is answered.

Dual Com
CSL Dual Com is a dual path signalling device that works on a primary path of GPRS signal (like a mobile phone) and a secondary path of a standard telephone line. Alarm activations are monitored by a central monitoring station who notify key holders and the police if the system is activated. (A single path GPRS only device is available for areas without BT landline coverage).

Redcare
Redcare Classic is a single path signalling device that works on a dedicated BT telephone line. Alarm activations are monitored by a central monitoring station who notify key holders and the police if the system is activated. Redcare is a BT product and requires a dedicated BT line to be installed by the client.

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The **WESTRONICS** team have a vast experience designing, installing and maintaining CCTV systems. From simple 1 camera systems to advanced IP systems utilising thermal cameras and analytics **WESTRONICS** can provide the right CCTV system for your project.

A CCTV (Closed Circuit Television) system can be used for many different purposes. Commonly these include crime, vandalism and health and safety.

CCTV is now a common sight in all major towns and areas where security is vital. CCTV can be used in simple domestic situations allowing the client to view their property via internet or mobile devices as well as security sensitive commercial locations where our central station can act as your remote security guard, keeping an ever watchful eye on your property.

**WESTRONICS** can design, install and commission a CCTV system utilising the latest tried and tested technologies to provide you with a system that meets your requirements for protecting your property.

**Takeover/ Maintenance**

**WESTRONICS** are able to takeover and maintain most CCTV systems and a surveyor will be able to advise you on how to get the best out of your system with a **WESTRONICS** maintenance package. **WESTRONICS** offer restricted maintenance on all 3rd party system which includes annual service visits and offers all parts, labour and call outs at a special reduced rate.
Jargon Buster

Surveillance Objectives
The traditional way of defining requirements for resolution of an analogue CCTV system has been by specifying what percentage of the full screen the observed object occupies. Different surveillance objectives require different percentages.

<table>
<thead>
<tr>
<th>Surveillance objective</th>
<th>Body representation</th>
<th>Approximate linear resolution</th>
<th>Face width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification</td>
<td>120%</td>
<td>250 pixels/m</td>
<td>40 pixels</td>
</tr>
<tr>
<td>Recognition</td>
<td>50%</td>
<td>100 pixels/m</td>
<td>17 pixels</td>
</tr>
<tr>
<td>Detection</td>
<td>10%</td>
<td>20 pixels/m</td>
<td>3 pixels</td>
</tr>
</tbody>
</table>

Typical CCTV requirements for identification, recognition or detection

Recording Resolution CIF, 2CIF, 4CIF, D1, Half D1
This is one of the two most important factors! There are three types of DVR Recording Resolution qualities: CIF, Half D1 and D1.

CIF: This is the lowest and out-dated resolution-quality. Video and picture is produced at 320 X 230 Pixels. Proper identification of suspects is unlikely and chances of success in court rather small.

2CIF or Half D1: Semi Recording Quality / recommended only for home and small business use. Does not produce fully professional and reliable evidence in all situations. Up to 720 X 260 Pixels.

4CIF or D1: Records at up to 720 X 520 Pixels, which is similar to DVD Quality.

DVR
Digital Video Recorder – allows images from CCTV cameras to be recorded and stored.

CCTV Cameras
Analogue cameras use conventional coax cabling to provide a robust CCTV system.

I.P. cameras connect directly to your Lan/Wan to create a virtual CCTV system which can be viewed from your PCs.
Cameras typically operate in high definition.

Monitor
Allows you to view your CCTV on site via an LCD monitor that can be connected to the system allowing you to view incidents as they happen or after the event directly from the DVR.

Off Site Monitoring
CCTV systems can be monitored remotely by our central station via broadband, satellite or 3G connections.

Thermal Cameras
Thermal cameras use the thermal spectrum to provide CCTV images where normal cameras cannot. For example in fog, where no lighting is available and in areas where dense undergrowth exists.

Analytics
A device which provides on screen motion detection and effectively turns any camera into a movement detector alerting the client of movement within the cameras viewable area.

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Access Control Systems

The WESTRONICS team have vast experience of designing, installing and maintaining Access Control Systems from simple one door to complex multi door systems allowing you to control who has access to your property.

WESTRONICS has over 40 years experience in designing, installing and servicing access control systems in offices, industrial units, large infrastructures, schools, universities and local authority premises across the South of England and further afield where required.

Access control systems are a vital tool in allowing you to control access to your property and areas to be restricted to desired individuals or groups. This can be controlled via a PC installed with intuitive software allowing you to set up rules for groups and or individuals allowing you to control the areas or rooms that they have access to and even the hours and days that access is allowed to these areas. WESTRONICS can work with you to design an access control system that meets all of your needs guaranteeing that you have a system that puts you in control of access to your site.

It is common in buildings that are secured by locks and keys for doors to be left unlocked all day. This opens up the possibility of opportunist theft and malicious damage. Electronic access control provides the most efficient and convenient way of securing your building and assets.

Takeover/ Maintenances
WESTRONICS are able to takeover and maintain most Access Control Systems and a surveyor will be able to advise you on how to get the best out of your system with a WESTRONICS maintenance package. WESTRONICS offer restricted maintenance on all 3rd party systems which includes annual service visits and offers all parts, labour and call outs at a special reduced rate.

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Jargon Buster

There are many different parts that make up an access control system. Below is a description to help you understand the jargon used to describe these different elements.

Standalone System
This type of system may be used to control access to one or many independent doors in a building. These systems are programmed at each door. If cards or fobs need to be barred or codes changed, this action must be completed at every door on the system.

Typical applications
- Small business premises
- Sports clubs
- Storage units
- Any small or medium sized site requiring access control
- Any premises where it is difficult to get cabling or power to.

PC Based Systems
Referred to as 'PC based' or 'Networked' access control, these systems may be used to control one or many doors in a building. PC based access control offers central control, via a network. This means that commands are given at the PC and are sent to each of the doors. A card or fob can be barred from all of the doors instantly. Another benefit of this type of system is flexible control, allowing you to grant different permissions for individuals or groups of users.

Reports may also be generated to see who went where and when. Many systems allow control of additional buildings via existing LAN/WAN. PC based systems are increasingly being used to control other services within buildings, for example intruder alarms, fire doors, lifts and lighting.

Typical applications
- Small/medium premises
- Multiple-site premises
- Universities
- Car parks
- Hospitals
- Large corporate premises
- Government buildings
- Sports clubs
- Schools
- Any site where control of entry to buildings or areas is needed

Proximity Reader/ Keypad
The proximity reader or keypad is the device by which individuals can gain entry into a building, room or area. Usually placed next to the door the reader or keypad will require a proximity card, fob or code to gain access to the required area.

Fob or Card
You may prefer for staff to carry cards or fobs to use your access control system. Each fob or card can be given access to required areas via the administrator or in the case of loss and theft, the card or fob can be removed from the system to prevent unwanted access to your site.

ACU
The ACU (Access Control Unit) is fitted on the secure side of door, with the reader fitted on the other side. The control unit stores all of the access permissions for users’ within the unit; meaning that even if the reader is tampered with, the door remains secure.

Lock
There are a number of different locks that can be used in conjunction with an access control system and the lock that is right for your system is influenced by factors such as door material and headroom. When designing your system we will survey your premises and suggest the best locking mechanisms to meet your needs.

Software
If you have a PC based access control system installed you will need specialist software to control access for individuals and groups which makes enrolment and management of the system more efficient than a standalone system. Westronics will guide you through all of the software features provided with our systems.

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Video & Audio Entry Systems

The **WESTRONICS** team have vast experience designing, installing and maintaining video and audio entry systems from simple one to one systems for domestic and commercial properties to one to many on large commercials and apartment buildings.

For over 40 years **WESTRONICS** has been designing, commissioning and installing audio and video entry systems in houses, offices, industrial units, large infrastructures and the public sector across the South of England and further afield where required.

An audio or video entry system enables you to control who enters your home or business premises by allowing you to communicate with (and see in the case of video entry) the person at the door. You can then choose to allow or deny access to the visitor from the safety of your own building.

**Takeover/ Maintenance**

**WESTRONICS** are able to takeover and maintain most audio or video entry systems and a surveyor will be able to advise you on how to get the best out of your system with a **WESTRONICS** maintenance package. **WESTRONICS** offer restricted maintenance on all 3rd party systems which includes annual service visits and offers all parts, labour and call outs at a special reduced rate.

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Jargon Buster

There are many different types of audio and video entry systems that can be installed. Below is a description to help you understand the jargon used to describe these different elements.

Audio Entry Panel
The panel is the device that a visitor uses to alert you to their presence by means of a sophisticated door bell. The person can communicate with you via the onboard microphone and will be able to hear you via the onboard speaker.

Audio Entry Handset
This allows you to speak with the visitor and grant entry by the push of a button.

Video Entry Panel
Just the same as an audio entry panel but with the addition of a camera installed within the neat external housing.

Video Entry Handset
Allows you to speak with the visitor and also see the visitor via a built in monitor – very important to ensure that only the person you are speaking to is at your door.

One to One System
This is a simple system where you have one entry panel linking to one entry handset. This type of system is typically installed in domestic and small office premises.

One to Many System
This system would involve one entry panel linking to multiple handsets. The entry panel would have more than one button that when pushed would alert the required handset that somebody is at the door. This type of system would typically be installed in a small apartment block or office premises where there is more than one company within the building sharing the same entrance.

Many to Many System
This system is usually found in businesses and large apartment blocks where there are multiple entrances and multiple offices or flats that would need to be alerted to a visitor’s presence.