



Advanced alarm handling

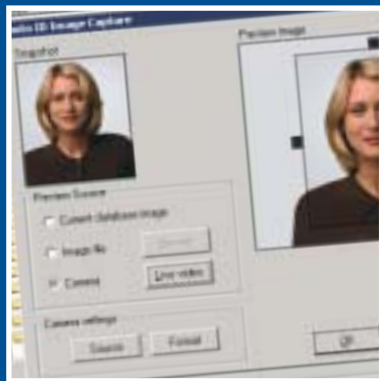


Photo ID option

### Features list eXcel<sup>2</sup> eXcel<sup>4</sup> and eXpert<sup>2</sup>

| Controller Configuration        | eXcel <sup>2</sup>   | eXcel <sup>4</sup>              | eXpert <sup>2</sup> |
|---------------------------------|--|---------------------------------|---------------------|
|                                 | <b>1/2 doors</b>   | <b>2/4 doors</b>                | <b>1/2 doors</b>    |
| Max. readers per door           | 2/1  | 2/1                             | 2/1                 |
| Egress inputs                   | 1/2  | 2/4                             | 1/2                 |
| Door sensor inputs              | 1/2  | 2/4                             | 1/2                 |
| Spare inputs                    | 6/4  | 4/0                             | 6/4                 |
| Spare outputs                   | 3/2  | 2/0                             | 3/2                 |
| Mantrap                         | No/Yes   | Yes                             | No/Yes              |
| Counters                        | 16   | 16                              | 16                  |
| Communications options          | RS232, RS485   | RS232, RS485, Ethernet (TCP/IP) | RS232, RS485        |
| Card capacity with eXguard LITE | 5000   | 5000                            | 48000               |
| Card capacity with eXguard PRO  | 24000  | 18000                           | 48000               |
| Reader technologies*            | TDSi Infra-red Microcard (eXcel <sup>4</sup> requires digital output reader)<br>Mag-stripe Track 2 ABA<br>Wiegand 26 BIT<br>eXprox Proximity<br>eXsmart Mifare |                                 |                     |

\* Only readers supplied by TDSi are supported. Other manufacturers' readers MAY work if the interface meets industry-standard clock/data or Wiegand specifications but this cannot be guaranteed – please contact your supplier for guidance.

### Technical specification eXcel<sup>2</sup> and eXcel<sup>4</sup>

|                       |   |
|-----------------------|---|
| Case dimensions cm    | 38h x 33w x 14d   |
| Environment           | <b>Temperature</b> -5° C to +45° C<br><b>Humidity</b> 0-95% rh non-condensing   |
| Power 230V AC version | <b>Input</b> 220- 240V AC 80VA max<br><b>Output</b> 12V DC 1A for ACU, 2 x 12V DC 1A for locks, 2 x 13.6V for standby batteries |
| Power 12V DC version  | <b>Input</b> 12V DC 500 mA max  |
| Relays                | Form C changeover contacts rated at 30V 2A  |

### Stand-alone features list for eXpert<sup>2</sup>

As main list plus:

- Serial printer interface for event list, reports
- Event lists can use names instead of card numbers
- Hand-held menu-driven programmer for easy set-up

TDSi's unique reader technology, unrivalled in its all-weather performance and reliability, provides total security coupled with unbeatable value.

Although the traditional lock and key plays a major role in securing rooms, buildings and other areas, its shortcomings are obvious where large buildings or high security sites are concerned and personnel access has to be closely monitored and recorded.

The 'key' of an access control system may be a device such as a magnetically encoded card. The card offers much more security because it is much more difficult to copy. A card reader interprets the encoded card and controls an electric lock.

The advent of low cost personal computers and their associated software packages has dramatically increased the flexibility and features now available for access control, offering distinct user benefits.

### Features list eXguard PRO

|                                    |  |
|------------------------------------|--|
| Max. card capacity                 | Unlimited card capacity of controllers is limited - see separate table |
| Max. doors                         | 16 - Unlimited depends on licence                                      |
| Max. operators                     | No limit   |
| Anti pass-back                     | Timed or true*   |
| Mantrap                            | Yes*   |
| Time groups                        | 64   |
| Card expiry by date                | Yes  |
| Personnel data                     | 18 fields  |
| Site plans                         | Yes  |
| Real-time event lists              | Yes  |
| Real-time alarm notification       | Yes  |
| Person tracking                    | Yes  |
| Attendance reports                 | Yes  |
| Real-time graphical status display | Yes e.g. doors open/closed   |
| Full on-line help system           | Yes  |
| Full backup system                 | Yes  |
| Communication method               | RS232, RS485 and Ethernet (TCP/IP)                                     |

\*Mantrap and True Anti-passback decisions are made within the controller, therefore depend on configuration.

### System requirements eXguard PRO

#### Minimum specification up to 16 ACUs and 500 Key Holders

Pentium P3, 1 GHz, 256 MB RAM, Windows 98/ME/NT/2000/XP, 10GB Hard Disk

#### Recommended spec up to 32 ACUs and 5000 Key Holders

Pentium P4, 1.5 GHz, 512MB RAM, Windows 2000, High spec graphics card  
Max. 8 ACUs per com port, Max 2 com ports per computer, 30 GB Hard Disk,  
2nd Hard disk on Database PC

Explorer always on separate PC from Database and comms

Becomes a multi-workstation installation – requires a suitable license

#### Above 32 ACUs or 5000 Key Holders

Please contact TDSi for advice

#### Other Considerations

Communication ports as required for direct or modem communication with ACUs

Communication over TCP/IP does not require physical communication ports

RS232/RS485 or Ethernet/RS485 converters may be required

Parallel port for Licence Key

CD-ROM for installation of software

- **Photo-ID Option**

The optional Photo-ID feature provides eXguard PRO users with image capture and badge design functions that are fast, versatile and easy to use – ideal for further enhancing your security.

- **Multi Workstations Option**

Different people (e.g. personnel dept., security guards) in the organisation performing different functions in the system – or – in large organisations, different people administering their part of the system.



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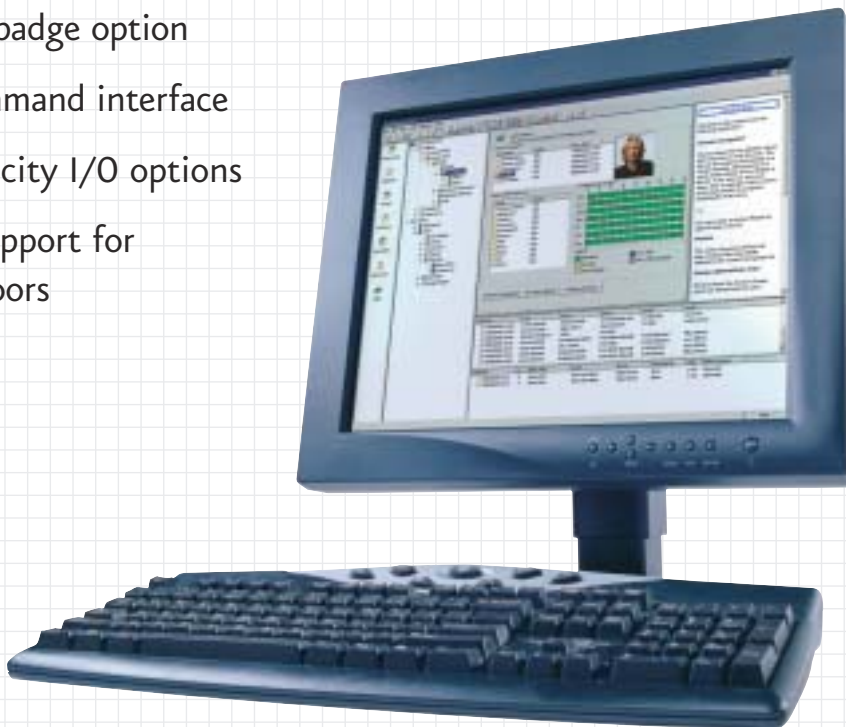
# eXguard

## PRO

eXguard PRO provides simple and effective monitoring and control of buildings and rooms for the smallest organisation through to multi-site, multi-tenant applications.

### *Features and Benefits*

- Windows® 98/ME/NT/2000/XP application
- SQL database, with read-only access for use with external reporting applications
- Multi workstation support via LAN/WAN
- Easy to install, configure and maintain
- Instant visibility of information
- Site graphics with real-time animation
- Advanced alarm handling
- Multiple real-time event windows
- Photo-ID badge option
- CCTV command interface
- High capacity I/O options
- Dial-up support for remote doors



## ACCESS CONTROL

TDSi has a family of systems carefully designed after twenty years of listening to what our customers and users want.

Systems that are easy to install, simple to administer, designed for painless expansion, straightforward care and maintenance, and above all trouble-free operation for the life of the product, all backed by a comprehensive three year warranty. Who could ask for more?

TDSi's access control systems include on-line central computer(s) that record entries and exits by cardholders and store the card database and printer reports. It is now common practice to integrate additional security requirements onto the central PC to provide a cost-effective system solution.

Alarm management, audit trail and building management control, for example, can be integrated onto a central PC to provide a 'bespoke' system solution that is user friendly and allows the customer to realise the maximum potential from his/her investment.

TDSi's smart card and proximity technologies coupled with the unique infrared reader technology, unrivalled in its all-weather performance and reliability provides total security coupled with unbeatable value.

eXguard PRO has been designed to give you the best access control software in the industry. By that we mean the simplest and easiest to use, the fastest and most reliable to set up and yet it includes all the facilities you need to secure, manage, monitor and audit even the most complex installations.

## Special Benefits of eXguard PRO

- True anti-passback
- Dial-up modems to remote ACUs
- Database import
- **Advanced Alarm Handling**  
When an alarm occurs, eXguard Pro makes it impossible for the operator to ignore it, easy to see what caused it and easy to see what steps to take as a result. An operator can see if an alarm is already being dealt with by another operator, and the administrator can see later what happened and how it was dealt with. Alarms can also result in consequential triggering of relays, sounds and CCTV. Alarm Zones can be armed/disarmed manually or according to a schedule.
- **CCTV Command Interface**  
Reduces the chance of missing incidents that are an inherent problem in unattended, random-sequencing systems.
- **Designed for Painless Expansion**  
TDSi's access control systems easily expand to cover more doors or more computers or to enable monitoring of windows, doors and other sensitive areas of the site or to switch on lights, sounders or even move a camera to a pre-set position. We can also cater for those who prefer a mixture of monitoring and switching.

## More features

### Different operators have different rights

This increases security because they can't do any more than you want them to.

### Lots of data stored against each person incl. photograph

Can be a substitute for a personnel database – finding someone based on data is easy. Privacy of data is protected by operator rights.

### Restriction of people to areas and times

You have the control with temporary cards and multiple cards per person.

### Adding people takes seconds

Access rights are per group. You just make someone a member of a group.

### Event reports are easily created

This can be created for the whole system down to just one person or door.

### Selection of events for alarms

You can choose which events are brought to your attention with alarms.

### Easy to check

See who is in the building or an area. See at a glance whether doors are closed, inputs are active. e.g. window left open

### Realistic Site Plans

Excellent representation of your site layout, showing doors, areas, readers, inputs, outputs.

### Controllers work autonomously

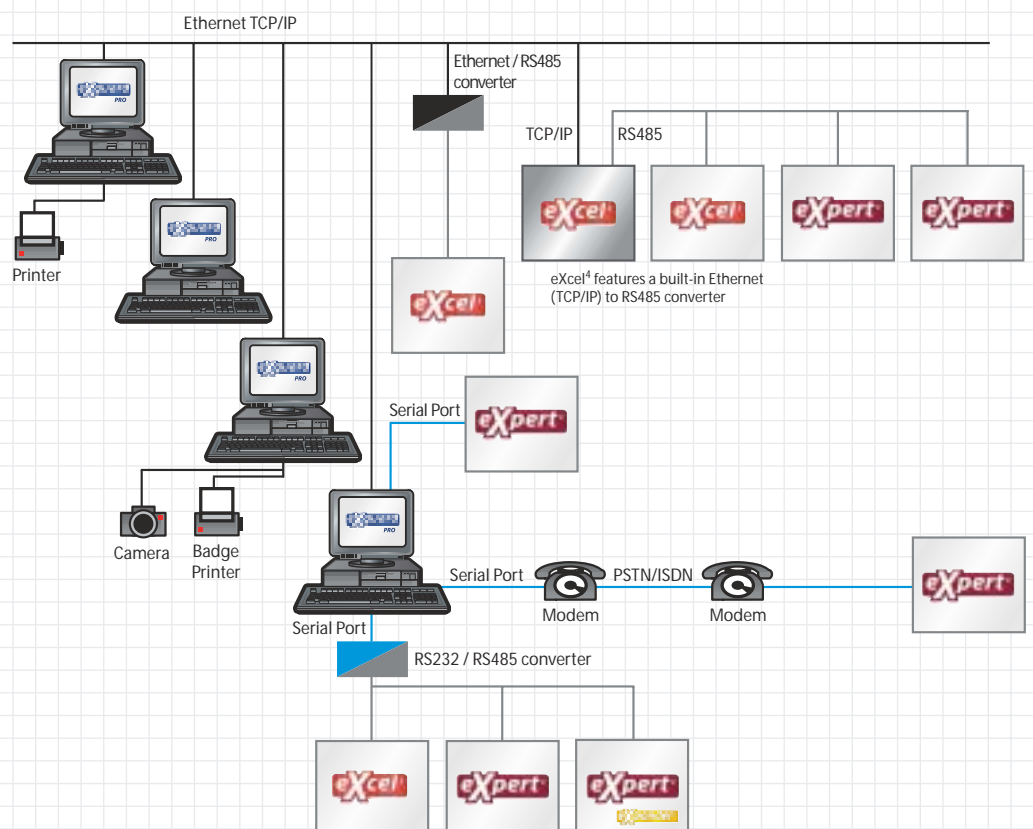
Full security at doors is maintained if a computer is off or if a communications line cut.

### Car Park Control

A counter feature allows you to limit car park access.

### Instant Occupancy Lists

On demand lists for the entire site, one area or a group of areas.



# eXcel

The eXcel range comprises 2-door and 4-door controllers, programmed and monitored using eXguard software. The beauty of these systems is the ease and simplicity at every stage - specification, installation, commissioning and day-to-day use. When used with eXguard LITE, eXcel controllers have capacity for 5000 card-holders - while eXguard PRO allows up to 24,000 card-holders at each door.

## Features and Benefits

- Big system features at an entry-level price. Spare inputs can be used for monitoring windows, etc. Spare outputs can be used for alarms, heating, lighting, etc. Instant notification of unusual activity (e.g. access denied).
- Provides fast information on staff movements, etc. While stand-alone systems can control access, linked systems are essential to monitor access (not all staff can be trusted all of the time). The software also helps your organisation meet Health and Safety regulations and the Working Time Directive.
- Really easy to install and configure. During installation you can test each door without going back to the computer.
- Multi-door controllers are better than single door controllers in terms of cost and saving time.
- eXcel<sup>4</sup> has built-in TCP/IP and RS485 interfaces, saving time by eliminating the need for dedicated cabling runs.
- Installing 2 readers per door allows for attendance monitoring and occupancy lists.



As well as having TDSi's legendary reliability and formidable build-quality, this system is totally flexible to your needs. An optional upgrade brings eXguard LITE to eXguard PRO status putting a highly sophisticated and comprehensive array of monitoring and control tools at your disposal.

## eXcel<sup>2</sup>

### 2 door configuration

|               |   |    |
|---------------|---|----|
| Lock          | ● | x2 |
| Reader        | ● | x2 |
| Door Contact  | ● | x2 |
| Egress Button | ● | x2 |

#### Spare Outputs



#### Spare Inputs



### 1 door configuration

|               |   |    |
|---------------|---|----|
| Lock          | ● | x1 |
| In Reader     | ● | x1 |
| Door Contact  | ● | x1 |
| Out Reader    | ● | x1 |
| Egress Button | ● | x1 |

#### Spare Outputs



#### Spare Inputs



## eXcel<sup>4</sup>

### 4 door configuration

|               |   |    |
|---------------|---|----|
| Lock          | ● | x4 |
| Reader        | ● | x4 |
| Door Contact  | ● | x4 |
| Egress Button | ● | x4 |

#### Spare Outputs

Zero

#### Spare Inputs

Zero

### 2 door configuration

|               |   |    |
|---------------|---|----|
| Lock          | ● | x2 |
| In Reader     | ● | x2 |
| Door Contact  | ● | x2 |
| Out Reader    | ● | x2 |
| Egress Button | ● | x2 |

#### Spare Outputs



#### Spare Inputs



# eXpert<sup>2</sup>

The eXpert<sup>2</sup> access controller has features that are second to none and accommodates connection via LAN/WAN as well as the traditional hard wired and dial-up options. eXpert<sup>2</sup> is a 2 door controller with 48,000 card capacity. Several upgrades are available.

## Features and Benefits

- eXpert<sup>2</sup> can work as a stand alone system or, for administration and control of a networked system, TDSi's comprehensive eXguard PRO software is available in different versions according to the size of the system.
- With an eXpander<sup>2</sup> circuit board, which fits neatly inside an eXpert<sup>2</sup> controller you can easily add 2 doors to make a 4 door controller.
- With an input/output board, large numbers of external devices can be monitored and controlled.
- eXpert<sup>2</sup> can also be used to further enhance and grow a system started using the eXcel<sup>2</sup> controllers.

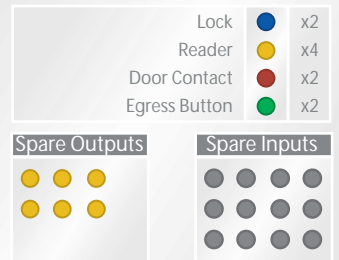


### Something for the Engineers!

To avoid engineers having to rush backwards and forwards between access controllers and the PC, TDSi has been very thoughtful in producing an eX keypad which can be plugged into the eXpert<sup>2</sup> to perform simple set up and diagnostic routines.

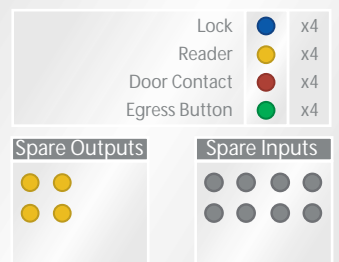
eXpert<sup>2</sup> + eXpander<sup>2</sup>

2 door configuration



eXpert<sup>2</sup> + eXpander<sup>2</sup>

4 door configuration



You can add inputs and outputs to give almost unlimited expansion of site alarm monitoring - there's a choice of three circuit boards eXin<sup>32</sup>, eXout<sup>32</sup> or the eXin<sup>32</sup>/out<sup>16</sup>.