DSC®

taking care...

DSC®

SOURCE BOOK

INTRUSION • ACCESS CONTROL • CCTV • FIRE • STRUCTURED CABLING

taking care...

During the past three decades DSC® has grown to be a leading supplier to the global security industry. At DSC, we understand that this evolution could not have happened without the support of our loyal customers. We also know that our future growth will depend on our ability to continue to supply security professionals with innovative, good value products and industry leading services.

Our role as an industry leader begins with taking care of our business partners who face the challenges of a continually evolving security marketplace everyday. This entails helping our customers make the best use of new technology and providing them with the products and the tools they need to help grow their businesses.

One such tool is this new 'DSC Security Source Book' product catalog. It highlights our complete line of award-winning security solutions in a format that is both informative and easy to use. All products featured in the catalog are available through our extensive network of DSC Authorized Distributors who are likewise committed to taking care of your needs.

...taking care of product development

DSC is taking care of product development with new, state-of-the-art, R&D facilities and virtually unlimited resources worldwide. Our engineers and scientists have a mandate to develop products that are easy to install, simple to use and reduce false alarms. In addition, DSC products use the latest, most advanced technology for increased reliability.

...taking care of manufacturing

DSC is taking care of manufacturing by continuing to make significant investments in our production facilities, with manufacturing now on line in three factories. To enhance our ability to manufacture a high volume of dependable products, we have purchased the newest automated equipment to facilitate the latest production techniques.

...taking care of quality

DSC is taking care of quality through our commitment to new global ISO standards and the Six Sigma Total Quality Management (TQM) methodology. We have also invested in sophisticated test equipment to be utilized with newly established employee-driven quality assurance programs and continuous development initiatives. In addition, all DSC manufacturing employees undergo intensive, electronics manufacturing training.

...taking care of our customers

DSC is taking care of our customers in other ways, including the DSC Customer Help Center (CHC). This centralized department handles all technical issues as well as sales and general enquiries in multiple languages. We have also expanded our training resources. In addition to our highly trained outside sales force, a core of dedicated field trainers and our "distant learning" capabilities ensure our customers have the information they need to get the job done right.

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... of business

PowerSeries™

Expandable Hybrid Security Panel Solutions

PowerSeries control panels have a proven reputation for providing the value and dependability that security professionals expect. The modular design of the PowerSeries panels provides both versatility and flexibility in any application, from small residential to medium-sized commercial. Packed with features, they are easy to install, program and most importantly, easy to use. With over a dozen sophisticated false alarm prevention features, they provide the reliability you need.

PowerSeries™

Optional System Keypads

To meet the demands of any application, a variety of keypads are available for the PowerSeries panels, everything from simple LED keypads to programmable LCD keypads with integrated wireless receivers. And with standard features like 5 one-touch function keys, they are all easy to use.

PowerSeries

Common Features

- Supports 8 keypads, one zone input per keypad
- Up to 32 wireless zones (with wireless receiver)
- 32 user codes
- Built-in phone line and siren supervision
- SIA, Contact ID, and pager formats
- Supports Skyroute™ wireless alarm transceiver
- Full upload/download support

Power864™

8 - 64 Zone Control Panel

- 8 zones on main control panel
- Expandable using hardwire, wireless, addressable modules and keypad zones
- 8 partitions
- 256 event buffer
- 4 on-board PGM outputs:
  - *Expandable to 14 (PC5204, PC5208)*
- Commercial fire version available:
  - *PC5020CF (comes with PC5700)*
- Supports all PowerSeries modules

LCD5501Z

Fixed-Message LCD Keypad

- Large, fixed-message LCD:
  - *Auto-scroll open and alarm zones*
- 5 programmable function keys
- Built-in configurable input/output terminal
- Clock display
- Programmable door chime:
  - *4 options, programmable by zone*
- Multiple languages:
  - *English, French, Spanish and ICON*

RF5501-433

Fixed-Message LCD Keypad with Integrated Wireless Receiver

- Includes all features of the LCD5501Z keypad and PC5132-433 wireless receiver plus:
  - *Integrated low temperature detector*
  - *Dedicated PGM output*
  - *Built-in configurable input/output terminal*

LCD5511

ICON LCD Keypad

- Large ICON LCD display:
  - *Auto-scroll open and alarm zones*
- 4 programmable function keys
- Clock display
- Large buttons
- Easily identified fire, emergency and panic buttons
- Integrated low temperature detector
- Built-in configurable input/output terminal

Power432™

4 - 32 Zone Control Panel
- 4 zones on main control panel
- Expandable using wireless module and keypad zones
- 128 event buffer
- 2 on-board PGM outputs
- See PowerSeries modules for additional module support

Power632™

6 - 32 Zone Control Panel
- 6 zones on main control panel
- Expandable using wireless module and keypad zones
- 128 event buffer
- 2 on-board PGM outputs:
  - *Expandable to 14 (PC5204, PC5208)*
- See PowerSeries modules for additional module support

Power832®

8 - 32 Zone Control Panel
- 8 zones on main control panel
- Expandable using hardwire, wireless, addressable modules and keypad zones
- 2 partitions
- 128 event buffer
- 2 on-board PGM outputs:
  - *Expandable to 14 (PC5204, PC5208)*
- See PowerSeries modules for additional module support

LCD5500Z

Programmable Message LCD Keypad

- Large, backlit, two-line, 32-character display
- Plain language display of zone status, system status, trouble conditions, event buffer, system instructions, date and time
- Auto-scroll open and alarm zones
- Zone input
- 5 programmable function keys
- Multiple languages:
  - *English, French, Spanish*

PC5508Z/PC5516Z/ PC5532Z

8/16/32 Zone LED Keypad

- LED status lights for zones, status functions
- 5 programmable function keys
- Zone input

PC1555RKZ

8 Zone LED Keypad

- LED status lights for zones, status functions
- 5 programmable function keys
- Zone input

PowerSeries™

DSC®

PowerSeries™
Zone Expansion Modules

The strength of the PowerSeries control panel is its modular design. In addition to the hardwire zone input included with all keypads, several modules are available for hardwire, wireless and addressable zone expansion. The ability to add different technology modules to the same control panel gives you the tools to handle even the most challenging applications.

PowerSeries™
Specialty Modules

For those applications that require more functionality, a number of specialty, multi-purpose modules are available. These powerful modules provide several functions. For example, the Escort telephone interface module provides automation and thermostat control. The full-featured intercom module provides central station listen-in and two-way voice. When used in combination, they provide truly unique features such as end user 'audio help', verbal door chime and alarm annunciation.

PC5100
Addressable Zone Expander

- Connect up to 32 addressable detectors (AML)
- Detectors can be home-run, t-tapped or daisy chained
- Easy detector enroll process
- Compatible with the Power832 and Power864 control panels

PC5108
8 Hardwire Zone Expander

- Adds 8 hardwire zones
- AUX power, 125 mA (PTC protected)
- Compatible with the Power832 and Power864 control panels

All PowerSeries modules are compatible with the Concourse™ Wiring System. (see page 57)

Did you know…
Any zone can be assigned to one or more partitions. These are called 'common zones' and are only armed if all the partitions are armed (useful when there is a common entry/exit zone for two or more partitions).

PC5132-433
Wireless Receiver

- Supports 32 wireless zones, 16 wireless keys
- All wireless detectors are fully supervised for communication integrity
- Easy detector enroll process
- Compatible with all PowerSeries control panels

PC5320
Multiple Wireless Receiver Module

- Can be used to connect up to 4 wireless receivers to any PowerSeries control panel for increased coverage
- The PC5320 module supports:
  - *PC5132-433*
  - *RF5501-433*
  - *RF5108-433*

PC5200*/PC5204
Power Supply Modules

- Provides up to 1 Amp @ 12 VDC
- Fully supervised for AC failure, low battery and AUX failure
- PC5204 adds 4 programmable high current voltage outputs:
  - *Rated at 1 Amp @ 12 VDC*
  - *Output #1 can be used as a supervised bell output*
- Compatible with the Power632, Power832 and Power864 control panels

*(*PC5200 compatible with Power864 only)*

PC5208
Programmable Output Module

- Provides 8 low current (50 mA) programmable voltage outputs
- Compatible with the Power632, Power832 and Power864 control panels

ESCORT™5580TC
Telephone Interface & Automation Control Module

- Turns any tone telephone into a talking keypad
- Programmable labels:
  - *For zones and partitions*
- Built-in X-10 interface:
  - *Supports up to 32 X-10 devices*
- Built-in thermostat support
- Compatible with the Power632, Power832 and Power864 control panels

PC5400
Printer Interface Module

- Can be used to support:
  - *Serial printer*
  - *DVACS communication (Canada only)*
- Compatible with all PowerSeries control panels

PC5936/PC5937
Intercom and Listen-In Module

- 7 stations, expandable to 15
- Page, doorbell, do not disturb, station monitor, telephone answer
- Supports central station listen-in and two-way (PC5904 station)
- Available stations:
  - *PC5921 interior station*
  - *PC5921EXT exterior station*
  - *PC5921EXT/R exterior station with relay*
- Compatible with the Power632, Power832 and Power864 control panels

PC5401
DataLink™ Module

- Supports bi-directional RS232 commands for third-party interface
- Supports real-time zone status
- Compatible with the Power832 and Power864 control panels

PowerSeries™

Wireless Products
433 MHz Receivers

When it´s time to add wireless detection devices to your next installation, DSC makes it easy. Turn any PowerSeries or MAXSYS alarm panel into a hybrid wireless alarm system using our proven wireless receivers. It´s as simple as adding another keypad to the existing 4-wire KEYBUS or COMBUS. Choose the RF5501-433 keypad with an integrated wireless receiver, low temperature detector and programmable output, or use the PC51323-433 or PC4164-433 stand-alone receivers. In either case, you will benefit from the exceptional performance, reliability, flexibility and ease of installation of DSC wireless technology.

RF5501-433

Fixed-Message LCD Keypad with Integrated Wireless Receiver

· Includes all features of the LCD5501Z keypad and PC5132-433 wireless receiver plus:
  - *Integrated low temperature detector*
  - *Dedicated PGM output*
  - *Built-in configurable input/output terminal*
· Compatible with all PowerSeries control panels

PC5320

Multiple Wireless Receiver Module

· Can be used to connect up to 4 wireless receivers to any PowerSeries control panel for increased coverage
· The PC5320 module supports:
  - *PC5132-433*
  - *RF5501-433*
  - *RF5108-433*

PC5132-433/ PC4164-433

Wireless Receivers

· Supports 32/64 wireless detectors, 16 wireless keys
· PC5132-433 is compatible with all PowerSeries control panels
· PC4164-433 is compatible with the MAXSYS control panel

WS4916 Photoelectric Smoke Detector

The next time you face a challenging installation, turn to the new WS4916 wireless smoke detector – perfect when running a wire is just not possible (see page 8).

Wireless Products
Wireless Key Receiver and Wireless Key

Wireless key systems are an attractive add-on to any security package, offering end users the convenience and flexibility of portable wireless remote control. DSC makes the upgrade to wireless easy with the RF5108-433 add-on wireless key receiver and the WLS919-433 wireless key. These multi-purpose wireless devices not only allow users to arm/disarm any PowerSeries security systems from a distance, they can also be programmed to trigger garage door openers, turn on lights, open powered gates, or trigger a panic alarm. The applications are virtually limitless. Beyond convenience, they help reduce potential false alarms by allowing users to disarm an alarm system before entering a home or business.

RF5108-433

Wireless Key Receiver

· Low cost alternative when only a few wireless keys and zones are required
· Supports up to 8 wireless keys and 8 wireless detectors
· Two on-board, fully programmable (50 mA) outputs:
  - *Activate garage door opener*
  - *Turn on armed status LED*
· LED switch plate (single-gang) provided
· Compatible with all PowerSeries control panels

WLS919-433

Wireless Key

· 4 programmable function buttons, 20+ options including Stay Arm, Away Arm, Disarm and Panic
· Slide cover to help prevent accidental activation
· One lithium battery included
· Compatible with all DSC wireless receivers and wireless control panels

RF5108WKK1-433

Wireless Key Kit 1

· Includes:
  - *One RF5108-433 wireless key receiver*
  - *One WLS919-433 wireless key*

WLS918-433 Wireless Panic Pendant

The WLS918-433 wireless panic pendant is an excellent add-on when personal security is needed. Lightweight and water-resistant, the unit can be activated two different ways: push button or pull (see page 7).

WIRELESS

DSC®

Wireless Products
433MHz Detectors and Devices

When hardwiring a detector is impossible, or if time is an issue, do not hesitate to rely on DSC wireless security. Get the same great performance you expect from DSC´s proven hardwire detection devices in our comprehensive line of wireless detectors. By applying DSC wireless technology to our products, DSC offers wireless devices for every application: door/window contacts, glassbreak detectors, pet-immune PIRs, smoke detectors and portable panic pendants. For exceptional wireless products, security professionals worldwide turn to DSC - setting the industry standard for dependable and cost-effective wireless detectors.

WLS925L-433
Wireless Door/Window Contact
· Built-in reed switch
· Normally closed external contact input
· 1 lithium battery included

WLS904L-433/ WLS904PL-433
Wireless Passive Infrared Detectors
· Based on the Bravo®3D hardwire motion detector
· High traffic shutdown
· Available with pet-immunity option:
  - WLS904PL-433 up to 60 lbs (27 kg)
· 1 lithium battery included

WLS914-433
Wireless Pet-Immune Passive Infrared Detector
· Based on the Bravo®6 hardwire motion detector
· High traffic shutdown
· Pet immunity up to 85 lbs (38 kg)
· 4 ´AA´ batteries included

WLS907T-433
Wireless Low Temperature Detector
· Alarm temperature 43˚ F (6˚ C)
· Restore temperature 48˚ F (9˚ C)
· 3 ´AAA´ batteries included

WLS912L-433
Wireless Glassbreak Detector
· Based on the Acuity glassbreak detector
· Tamper activated test mode:
  - Can be tested using the AFT-100 glassbreak tester
· 2 lithium batteries included

WLS918-433
Wireless Panic Pendant
· Panic can be activated two ways:
  - Push button
  - Pull-away
· Water-resistant
· LED status indicator
· System test feature
· Belt-clip and lanyard included
· 1 lithium battery included

WS4916
Wireless Photoelectric Smoke Detector

DSC is proud to introduce our new standard for life safety security, the WS4916 wireless smoke detector with built-in heat detector. This low-profile detector incorporates automatic drift compensation, high/low sensitivity trouble and early low battery indication. Sensitivity testing has never been quicker or easier. Just hold the FSD-100 test meter near the detector for a simple, clear readout. It´s UL and ULC Listed for commercial and residential installations and is perfect for those applications where running a wire to a smoke detector is just not possible.

WIRELESS

WS4916
Photoelectric Smoke Detector
· Low profile design
· Automatic drift compensation to maintain constant sensitivity
· High/low sensitivity trouble
· Built-in heat detector
  - 57°C (135°F)
· Easy maintenance replaceable chamber
· Local test button
· Built-in 85 dB horn
· Built-in low battery detection
· Unique sensitivity reading with the FSD-100 meter
· UL Listed 268 / ULC Listed S531 for commercial and residential applications

SECUTRON FIRE PRODUCTS
For a selection of Secutron fire alarm panels and accessories see page 53.

WIRELESS

Envoy™ LCD

Self-Contained Wireless Security System with LCD Display

The EnvoyLCD security system is DSC´s most popular self-contained wireless security system. Performance and reliability are guaranteed with advanced wireless technology. The EnvoyLCD offers a large real-time clock display, easy to read fixed messages, the convenience of wireless key control and personal paging. The system can be professionally installed within minutes without the disruption associated with hardwire installations, making it an excellent choice for small homes, apartments, condominiums and small businesses. Fully supervised, the EnvoyLCD control unit continuously monitors system components for tampering, radio frequency jamming, low battery power, zone faults and system communication errors.

FEATURES

NT9005 Control Panel

- Large fixed-message LCD display
- LCD-driven template programming
- Supports 32 wireless detectors, 16 wireless keys
- Includes 2 configurable input/output terminals:
  - *Zone inputs*
  - *PGM outputs*
- 32 user codes
- Local 85dB sounder
- 5 programmable function keys

NT9204

High Current Output Module

- Provides up to 1 Amp of additional current
- Fully supervised for AC failure, low battery and AUX output failure
- Provides 4 high current (1 Amp) programmable outputs:
  - *Output #1 can be used as a supervised bell output*
- This module is required to power the Skyroute™ wireless transceiver
- For use with the EnvoyLCD

WLS925L-433

Wireless Door/Window Contact

WLS919-433

Wireless Key

WLS904L-433/ WLS904PL-433

Wireless Passive Infrared Detectors

WLS914-433

Wireless Pet-Immune Passive Infrared Detector

WIRELESS

Envoy™

Self-Contained Wireless Security System with Voice-Prompting

The Envoy security system has all the features of the EnvoyLCD, but rather than an LCD display it utilizes a voice-prompt interface that guides the user through the system with a clear, full-sentence human voice. The system offers other popular features, including personal paging, remote and local telephone access, wireless key control, a family message center and full listen-in and two-way voice communication. Like the EnvoyLCD, the system installs in minutes. Fully supervised, the Envoy control unit continuously monitors system components for tampering, radio frequency jamming, low battery power, zone faults and system communication errors. The result is the utmost in performance and reliability and a system that´s easy to install and use.

FEATURES

NT9010 Control Panel

- Built-in voice module
- Voice-prompted template programming
- Supports up to 32 wireless detectors, 16 wireless keys
- Includes 2 hardwire zone inputs
- 32 user codes
- Local 85dB sounder
- 8 function keys
- Family message center

WS4916

Wireless Photoelectric Smoke Detector

WLS912L-433

Wireless Glassbreak Detector

NT9201

Remote Sounder

- Additional sounder that also supports:
  - *Voice-prompt commands*
  - *Central station listen-in and two-way*
- For use with the Envoy

WLS918-433

Wireless Panic Pendant

WLS907T-433

Wireless Low Temperature Detector

NT9202

Output Module

- Provides two voltage outputs
- Can be used to trigger external siren or back up communicator (Skyroute CL3050)
- For use with the Envoy

MAXSYS ®

Integrated Systems Technology

MAXSYS is a total security solution that integrates all aspects of building security - burglary, fire, access control and automation - into a single product, all of which can be used in any combination, at any time. This integration is achieved through the use of advanced microprocessors, extensive software and a unique COMBUS that provides high-speed data exchange between the main control panel and installed modules. A single system solution for even the most demanding applications - your key to opening new business opportunities.

PC4020

16 - 128 Zone Control Panel

- 16 zones on main control panel
- Expandable using hardwire, wireless modules and addressable zones
- 8 partitions
- 1,500 user codes
- 3,000 event buffer
- Built-in telephone line and siren supervision
- Auto SIA, Contact ID formats
- Supports SkyrouteMAX™ and T-Link™ communicators
- Full upload/download support

LCD4501

Programmable Message LCD Keypad

- Connect up to 16 keypads
- Large, backlit, 2-line 32-character display
- Plain language display of zone status, system status, trouble conditions, event buffer, system instructions, date and time
- Ready, armed and trouble LEDs
- 5 programmable function keys
- 4 keypad activated alarms:
  - *Panic, Auxiliary, Fire, Duress*
- Backlight boost

PC4216 & PC4632/PC4664

16 Output Module & 32/64 Point Graphic Annunciators

PC4216
- Provides 16 programmable outputs:
  - *Rated at 50 mA @ 12 VDC*
- Connect up to 9 PC4216 modules per system

PC4632/PC4664
- Egg-crate backplate for flexible LED locations
- Pre-printed point display transparency
- Clear transparencies (2) for custom graphics
- PC4632
  - *8.5˝ x 11˝ display area*
  - *PC4216 (1) and 16 LEDs included*
- PC4664
  - *11˝ x 17˝ display area*
  - *PC4216 (2) and 32 LEDs included*
- Additional LED assemblies available

MAXSYS ®
INTEGRATED SYSTEMS TECHNOLOGY

MAXSYS ®

Modules

A complete line of modules are available for the MAXSYS system including zone expanders, output modules, power supplies and access control modules. All modules utilize the 4-wire communication bus (COMBUS), saving time and money by reducing the number of wire runs needed.

PC4401

Serial Interface Module

- Connect up to 4 modules
- Each module can perform 1 of the following functions:
  - *Serial printer*
  - *PC-Link™ isolation*
  - *DVACS (Canada only)*
  - *DataLink™ bi-directional RS232*

PC4108/PC4116

8/16 Hardwire Zone Expanders

- PC4108, adds 8 hardwire zones
- PC4116, adds 16 hardwire zones
- AUX power, 250 mA (PTC protected)

PC4164-433

Wireless Receiver

- Supports 64 wireless zones, 16 wireless keys
- All wireless detectors are fully supervised for communication integrity
- Easy sensor enroll process

PC4204/ PC4204CX

Power Supply/Relay Output Module

- Connect up to 16 modules
- Fully supervised for AC failure, low battery and AUX failure
- 4 programmable form 'C' relays:
  - *Rated at 3 Amps @ 12 VDC*
- PC4204:
  - *1 Amp AUX (40 VA transformer)*
- PC4204CX:
  - *1 Amp AUX (40 VA transformer)*
  - *2.2 Amps AUX (80 VA transformer)*
  - *COMBUS repeater to extend COMBUS wiring length*

ESCORT4580

Telephone Interface & Automation Control Module

- Turns any tone telephone into a talking keypad
- Programmable labels:
  - *6 words per label*
  - *240+ word library*
- Built-in X-10 interface:
  - *Supports up to 32 X-10 devices*
  - *16 schedules, 8 modes*

PC4936/PC4937

Intercom and Listen-In Module

- 7 stations:
  - *Expandable to 15 with PC4937 expansion module*
- Page, doorbell, do not disturb, station monitor, telephone answer
- Supports central station listen-in and two-way (PC5904 station)
- Available stations:
  - *PC5921 interior station*
  - *PC5921EXT exterior station*
  - *PC5921EXT/R exterior station with relay*

DSC ®

MAXSYS®
Fire Products

With MAXSYS fire products you have all the equipment you need to integrate full commercial fire into any security application. MAXSYS offers many features including an advanced UL Listed commercial fire system, with a full complement of modules, including a dual-line dialer module, 24 VDC bell module and a battery charging module for high current applications. Integrating fire and burglary has never been easier.

PC4020CF
Commercial Fire Panel

- PC4020 control panel including:
  - *PC4050CR cabinet*
  - *PC4701 module*
  - *Built-in 16 VAC, 40VA transformer*

LCD4521
Programmable Fire Message LCD Keypad

- Includes all features of the LCD4501 keypad
- Red bezel
- Fire function keys:
  - *Silence Trouble, Silence Bells, Fire Reset, Fire Drill, Lamp Test*

PC4701
Dual-Line Dialer Module

- Dual, supervised phone line connections
- One two-wire Class B/Style B supervised smoke alarm zone
- One Class B/Style B waterflow zone
- Fire alarm and fire trouble form 'C' relays

PS4350R
External Battery Charger

- Includes PS4085 multi-rate charger module
- Includes PT1012 transformer, 12 VDC, 160 VA
- Space for 60 Ah of rechargeable batteries

PC4204CF/PC4204CXCF
Commercial Fire Power Supplies

- Includes all features of the PC4204/4204CX
- Includes:
  - *PC4050CR cabinet*
  - *Built-in 16 VAC, 40 VA transformer*

PC4702BP
Dual-Zone Bell Panel

- Connect up to 4 modules
- Provides 2 alarm notification circuits:
  - *Rated at 1.8 Amps @ 24 VDC each*
- Fully supervised outputs for open, short and ground fault
- PTC protected
- Includes:
  - *PC4052CR red cabinet*
  - *28 VAC, 180 VA transformer*

MAXSYS®
INTEGRATED SYSTEMS TECHNOLOGY

MAXSYS®
Access Control Systems

MAXSYS allows you to simply and affordably integrate access control with an intrusion alarm system. Two-door reader modules can be added as needed to control up to 32 readers. This integration of burglary and access provides some powerful features. For example, arming and disarming the security system via access control greatly simplifies end-user operation. It´s a perfect addition for small to medium-sized commercial applications.

PC4820
Two-Reader Access Control Module

- Connect up to 16 modules
- Multiple reader technologies:
  - *Polaris™, ShadowProx™, HID, Kantech™ XSF, and 26-bit Weigand*
- 2 supervised lock outputs:
  - *250 mA per output*
- 64 user access levels
- 99 date schedules
- 4 holiday groups
- Arm/disarm partitions via access control

READERS
Polaris, ioProx™, 26-Bit Wiegand, Kantech XSF Technologies

- See Kantech Readers (page 39)

MAXSYS
Access Control Kit

This affordable package is the perfect access control starter kit. It has all the essentials you need; control panel, access control module, reader and cards in one low-cost package. And, if needed, the system can be expanded easily.

- Includes:
  - *One PC4020 control panel*
  - *One PC4820 access control module*
  - *One P100W26 ioProx reader*
  - *Ten P40KEY ioProx dual-encoded proximity keys*

T-REX™
Request-To-Exit Detector

- Passive infrared request-to-exit detector with X-Y Targeting™ and DSP (Digital Signal Processing)

KANTECH™

For a complete list of Kantech access control products and accessories see page 36.

PC4850/4851
Telephone Entry Module

- Integrates access control with apartment building telephone entry
- Connect up to 16 modules to control up to 32 doors
- 1,500 scrolling name directory
- PC4851 'No Telephone Bill' option module

DSC®

Addressable
Devices & Detectors

The Addressable Multiplexed Loop (AML) provides the ultimate in simple, flexible and affordable zone expansion. Save time and money by connecting any addressable detector anywhere on the 2-wire AML loop. DSC has everything you need, including isolators and repeaters, so there is no limit to what you can do.

AMB-300

Addressable Passive Infrared Detector

· Based on the Bravo® 3 hardwire motion detector
· Patented MLSP (Multi-Level Signal Processing)
· Interchangeable lens:
  - Wall-to-wall lens (standard), curtain lens, pet-immune lens and corridor lens
· Built-in tamper switch

AMB-600

Addressable Pet-Immune Passive Infrared Detector

· Based on the Bravo® 6 hardwire motion detector
· Patented MLSP (Multi-Level Signal Processing)
· Provides pet immunity up to 85 lbs (38 kg)
· Built-in tamper switch

AMB-500

Addressable Ceiling-Mount Passive Infrared Detector

· Based on the Bravo® 5 hardwire motion detector
· Patented MLSP (Multi-Level Signal Processing)
· Coverage diameter based on mounting height
· Built-in tamper switch

AMA-100

Addressable Glassbreak Detector

· Based on the Acuity hardwire glassbreak detector
· Detects all types of breaking glass
  - Plate, laminated, safety and tempered
· Can be tested using the AFT-100 Glassbreak Tester
· Built-in tamper switch

AMS-220/ AMS-220T

Addressable Photoelectric Smoke Detector

· Based on the Meridian hardwire smoke detector
· 'T' model has built-in heat detector:
  - 135° F (57° C) fixed-temperature heat sensor
· Manual and programmable test for communication
· Automatic low sensitivity test
· Built-in tamper switch

AMP-700/AMP-701/ AMP-702/AMP-704

Addressable Contact Modules

· AMP-700 door/window contact with built-in reed switch
· AMP-701 door/window contact with normally closed input
· AMP-702 fire point module with normally open, EOL resistor supervised input
· AMP-704 four door/window contacts with normally closed, single or double EOL inputs

AMX-400

Loop Repeater/Isolator Module

· Can be used to repeat and re-power the AML loop to allow for longer wire runs:
  - Requires 12 VDC power source
· Will isolate the wire run in the event of a problem

AML-770

Loop Isolator Module

· Can be used to isolate burglary detectors from fire detectors on the same wire run

BENEFITS
Addressable Compatibility

Addressable Multiplexed Loop (AML) technology can be key to expanding your business. In large commercial or residential applications with numerous protection points, it can greatly reduce your installation time, saving you money. For example, run a single two-conductor wire around the perimeter of the installation and connect door/window contacts, glassbreak detectors or motion detectors where needed. No more long wire runs back to the main control panel or expander module for each zone. And each detector is assigned a specific zone number for individual point identification, making service a snap. If future expansion is required, it's as simple as tapping off the existing AML loop.

The AML uses a simple two-wire cable for both power and data, and any addressable detector can be connected anywhere. Burglary and fire detection devices can be combined on the same wire run with the use of the AML-770 isolator module.

All detectors are engineered to require extremely low-current (some as low as 0.8 mA each). In the case of extremely long wire runs, or if a large number of detectors are required, the AMX-400 repeater/isolator is perfect for expanding the system to whatever size is required.

MAXSYS
Addressable Compatibility

The MAXSYS control panel has full AML support built right into the control panel, and all 128 zones can be programmed as addressable. Both PGM outputs have been engineered to support AML detectors, each providing up to 170 mA of current.
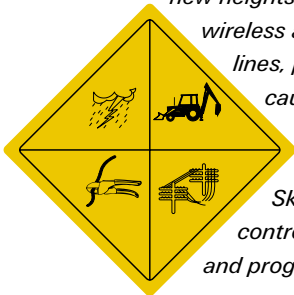
PowerSeries
Addressable Compatibility

Addressable zone support can be added to either the Power832 or Power864 with the addition of the PC5100 module. The module connects to the panel KEYBUS. It supports up to 32 addressable zones and provides up to 170 mA for addressable detectors.
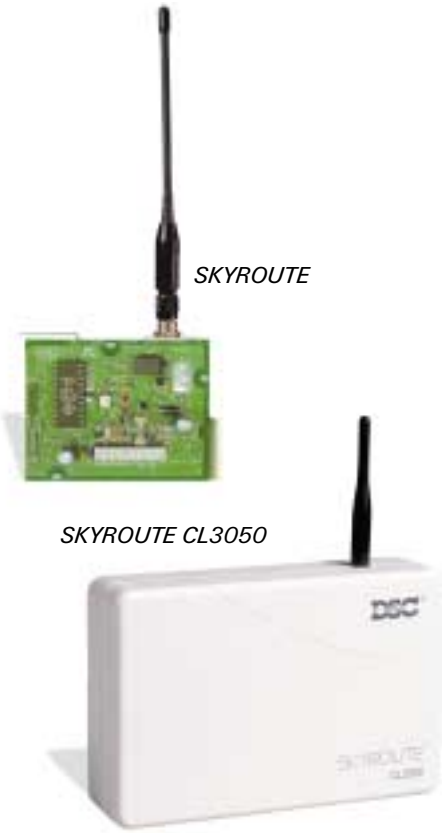
ADDRESSABLE

ADDRESSABLE

DSC®

Skyroute™
Wireless Communicators

Skyroute cellular-based transceivers take security communications to new heights. Skyroute transceivers provide an affordable wireless alarm communication alternative to phone lines, protecting against accidental line cuts caused by storms, construction or deliberate tampering by an intruder. They can even be used as the primary communication device. Skyroute transceivers connect to virtually any control panel and are simple and easy to install and program.

Signals are transmitted over an established digital cellular network control channel to DSC's signal clearing house that in turn transmits the signal to a central station monitoring service. However, unlike other cellular-based systems, DSC verifies the alarm signal has been transmitted before sending a confirmation signal back to the premises. Skyroute wireless alarm communicators provide fast, reliable, verified alternative communications.

SKYROUTE

SKYROUTE CL3050

Skyroute
Wireless Transceiver

· Alarm communications via cellular data service
· Compatible with all PowerSeries control panels
· Connects to KEYBUS & bell circuit
· Installs directly into existing control panel cabinet
· Power provided by existing control panel
· Fully supervised

SkyrouteMAX™
MAXSYS Wireless Transceiver

· Alarm communications via cellular data service
· Compatible with MAXSYS PC4020
· Installs directly into existing control panel cabinet
· Power provided by existing control panel
· Fully supervised

CL3050
Universal Wireless Transceiver

· Alarm communication via cellular data service
· Three operational modes
· Connects to virtually any control panel
· Expandable to eight 24-hour zones
· Auto-sensing program mode
· AC or DC operation

ANTENNA EXTENSION KITS

Note: The following antenna extension kits are for the Skyroute and SkyrouteMAX only:

LAE-3
· 3' Antenna Extension Kit

LAE-15
· 15' Antenna Extension Kit

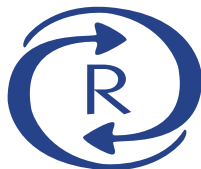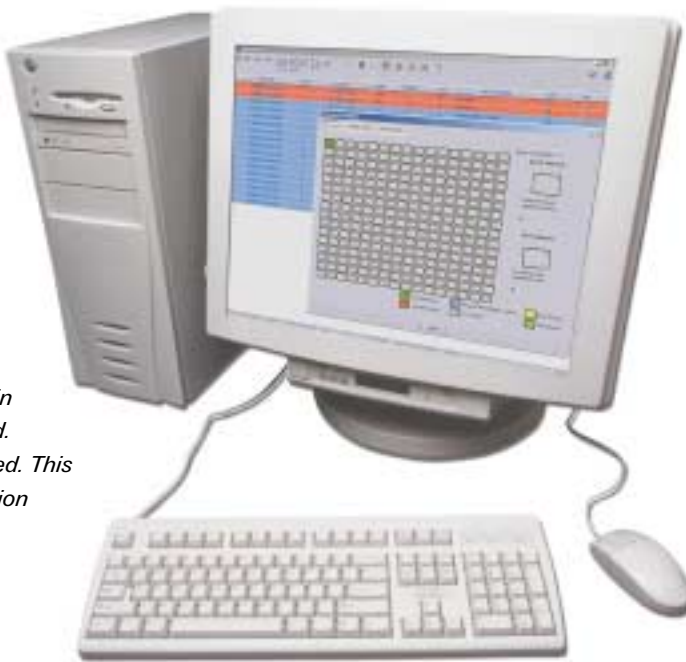**LAE-25**
· 25' Antenna Extension Kit

CONNECT 24™
Signal Clearing House

DSC's Connect 24 Signal Clearing House provides a complete dealer support network for North America. A highly trained staff takes care of dealer enrollments, account changes, reports and billing inquiries. Activation is easy via a state-of-the-art Voice Response Unit (VRU) and an automated transceiver activation system that provides simple voice prompts to enroll and confirm signal strength. With the VRU the entire activation process can take less than 5 minutes. Unlike other providers, Connect 24 has separate and secure redundant facilities to manage your alarm communication signals in the event of unexpected occurrences. To become an Authorized Skyroute Dealer or activate a Skyroute, contact Connect 24 at 1-888-251-7458 (US) or 1-888-955-5583 (Canada).

SKYROUTE™

T-Link™
Ethernet Communicator

The T-Link TCP/IP transmitter is compatible with the Power864 and MAXSYS control panels. It works within a proprietary LAN/WAN (intranet) to communicate alarm signals efficiently and economically to a SG-DRL-IP central station receiver line card, or to a PC utilizing the SG-Reporter IP™ software. The T-Link connection is fully supervised when used in conjunction with the SG-DRL-IP receiver line card. Any tampering or network trouble will be detected. This allows the administrator to respond to the situation instantly. With the use of DSC's DLS™-3SA downloading software, site administrators can request information from the panel, change user information, generate status reports and gather daily maintenance details (schedules, arm/disarm information) from a PC via the TCP/IP network.

T-Link STARTER KIT
Network Communicator Starter Kit

· Includes:
  - T-Link Network Alarm Communicator
  - SG-Reporter IP Software CD
  - DLS-3 SA System Administrator Software CD
  - DLS2002 Software CD
  - T-Link and Panel Service Pack CD
  - CAT5 network cable
  - PC-Link cable
  - Manual set

T-Link
Network Alarm Communicator

· Allows alarm event to be transmitted over a proprietary LAN/WAN
· Compatible with DSC Power864 and MAXSYS
· Fully programmable with DLS2002 and DLS-3SA System Administrator software
· UL (AA) and ULC (Level 3) requires communication to a Sur-Gard SG-DRL-IP receiver line card

SG-REPORTER™ IP
Software for use with T-Link Network Communicator

· Monitor up to 255 T-Link accounts over a proprietary LAN/WAN
· Compatible with Windows™ 9x/NT™/2000 operating systems
· TCP/IP communication and IP management software
· Searchable database, detailed customer profiles
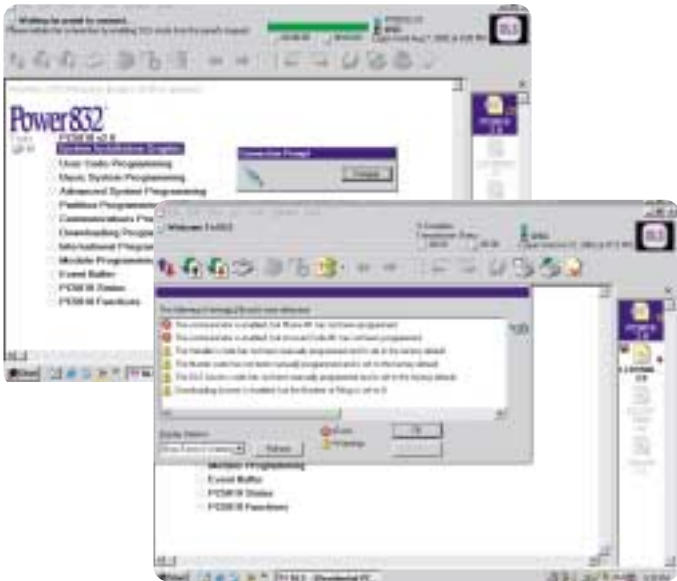· All events are color-coded for easy visual identification

DLS™2002
Downloading Software

DSC's DLS2002 downloading software is much more than just a software package for remotely programming control panels. It is a great diagnostic tool, and includes features such as auto-detect panel type and version, upgrade wizard and error checking. DLS2002 will help streamline installations, reduce programming time, and decrease service calls. It gives you the ability to make changes to a system remotely in minutes, without having to visit the site. DLS2002 will take your installation and service capabilities to the next level.

FEATURES

- Intuitive user interface
- Automatic panel and module version detection
- Automatic panel version correction
- Automatic module version correction
- Upgrade wizard
- Error checking
- Batch programming
- System installation graphic

AVAILABLE ACCESSORIES

DLS2002	Dealer Downloading Software
PC-Link	Direct-connect cable with serial DB-25 connector
PC-Link-9	Direct-connect cable with serial DB-9 connector
PC-Link-5SP	Self-powered PC-Link connector for NT9005 control panel
MD-12	Serial modem for remote panel communications

The DLS3-SA System Administrator software is a perfect solution for large or multi-location business applications using the MAXSYS control panel. The software is simple to use and gives users the ability to view and change codes, access cards and schedules, as well as view system status, arm/disarm partitions and view, sort and print the event buffer. Convenient kits are available for either dial-up connection (modem) or direct connection (PC-Link).

AVAILABLE OPTIONS

DLS-3SACDROM	DLS-3SA System Administrator Software
DLS3SADC	Direct-Connect Kit: - DLS-3SA software - PC4401 serial interface module - PC-Link connectors
DLS3SAMD	Modem Kit: -DLS-3SA software -MD-12 modem

Control Panel Overview
Feature Comparison and PowerSeries Module Version Compatibility Charts

FEATURE COMPARISON CHART

	Power432	Power632	Power832	Power864	Envoy	EnvoyLCD	MAXSYS
Number of built-in panel zones	4	6	8	8	32 (Wireless)	32 (Wireless)	16
Total zones supported	32	32	32	64	32	32	128
Keypad zone expansion	Yes	Yes	Yes	Yes	-	-	-
Hardwire zone expansion	-	-	Yes	Yes	2	Up to 2	Yes
Wireless zone expansion	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Addressable zone expansion	-	-	Yes	Yes	-	-	Yes
Number of keypads	8	8	8	8	Built-In	Built-In	16
Number of wireless receivers	4	4	4	4	Built-In	Built-In	8
Number of main panel low current PGM outputs	2	1	1	3	-	Up to 2	2
Number of additional low current PGM outputs	-	8	8	8	2	-	144
Number of main panel high current PGM outputs	-	1	1	1	-	-	-
Number of additional high current PGM outputs	-	4	4	4	-	4	64 (relays)
Number of access codes	38	38	38	38	38	38	1500
Number of partitions	-	-	2	8	-	-	8
Panel event buffer	128	128	128	256	128	128	3000
Phone line supervision	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Siren supervision	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIA false alarm reduction features	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Event-initiated personal paging	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upload/Download support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Direct-connect downloading support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DLS3-SA end user downloading support	-	-	-	-	-	-	Yes

MODULE VERSION COMPATIBILITY CHART

	Power432	Power632	Power832	Power864
PC5100 Addressable Zone Expander	-	-	All	All
PC5108 Hardwire Zone Expander	-	-	All	V2.0 +
RF5108-433 Wireless Receiver	All	All	All	All
PC5132-433 Wireless Receiver	All	All	All	All
PC5200 Power Supply Module	-	-	-	All
PC5208 Output Module	-	All	All	All
PC5320 Multiple Receiver Module	All	All	All	All
PC5400 Printer Module	All	All	All	V3.0 +
PC5401 DataLink™ Module	-	-	-	All
PC5508Z, PC5516Z, PC5532Z LED Keypads	All	All	All	All[1]
PC1555RKZ LED Keypad	All	All	All	All[1]
LCD5500Z Programmable Message LCD Keypad	All	All	All	V3.0 +
LCD5501Z Fixed-Message LCD Keypad	All	All	All	All
RF5501-433 Fixed-Message LCD Keypad/Wireless Receiver	All	All	All	All
LCD5511 ICON LCD Keypad	All	All	All	All
Escort5580TC Telephone Interface Module	All	All	All	V3.0+
PC5700 Fire Dialer Module	-	-	All	V2.0 +
PC5936 Intercom Module	-	All	All	All
Skyroute Wireless Communicator	All	All	All	V2.3 +
T-Link Ethernet Communicator	-	-	-	All

[1] Supports partition 1 and 2 only

Encore™

Swivel-Mount PIR

The Encore is a combination of proven DSC patented detection technology and innovative product design, created with alarm installers in mind. This digital, microprocessor-controlled fresnel PIR delivers stable and accurate detection without sacrificing catch performance. The Encore housing and mounting bracket (included) has been designed to provide installers with the ultimate flexibility in detector location and ease of installation. The Encore swivel-mount PIR, providing versatility and value.

DETECTOR FEATURES

· Digital signal analysis for consistent detection throughout the coverage pattern
· Digital temperature compensation for improved catch performance at critical temperatures
· Patented Multi-Level Signal Processing (MLSP) provides more accurate detection of human IR energy over a broad range of temperatures
· Vertical Beam Shaping (VBS) provides pet immunity up to 60 lbs (27 kg) available with EC300DP series
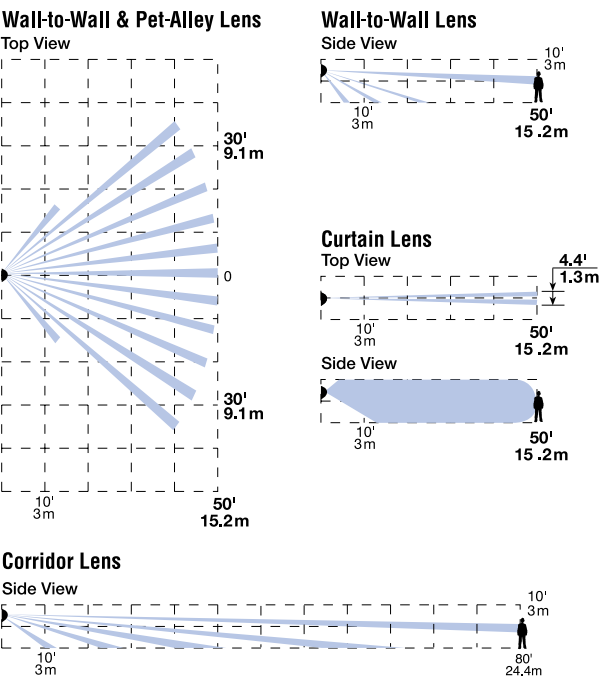
INSTALLATION FEATURES

· Swivel-mount bracket for the ultimate in location and installation flexibility
· Unique cover hinge allows unit to be installed right up to the ceiling
· Quick release PCB, no more screws to lose
· Concealed wiring channel simplifies installation and hides wires

MODELS

EC-300D   Form 'A' alarm contact
EC-301D   Form 'A' alarm contact & tamper switch
EC-302D   Form 'C' alarm contact & tamper switch
EC-300DP Form 'A' alarm contact
EC-301DP Form 'A' alarm contact & tamper switch
EC-302DP Form 'C' alarm contact & tamper switch

COVERAGE PATTERN

Wall-to-Wall & Pet-Alley Lens
Top View

30'
9.1 m

0

30'
9.1 m

10'
3m

50'
15.2 m

Wall-to-Wall Lens
Side View

10'
3m

10'
3m

50'
15.2 m

Curtain Lens
Top View

4.4'
1.3 m

10'
3m

50'
15.2 m

Side View

10'
3m

50'
15.2 m

Corridor Lens
Side View

10'
3m

10'
3m

80'
24.4m

SWIVEL-MOUNT BRACKET / WIRE CHANNEL

Included with the Encore and Strata PIRs, this swivel-mount bracket allows for convenient ceiling or wall-mount installation. It pivots the Encore PIR in any direction for customized catch performance and incorporates a wire channel to eliminate exposed wiring, resulting in a clean, finished look.

HARD•WIRED

Strata™

Mirror-Optic PIR

Engineered for applications where there is no room for compromise, the Strata utilizes precision designed mirror optics with advanced microprocessor control to deliver the ultimate in IR motion detection capability while maintaining true false alarm resistance.

DETECTOR FEATURES

· Highly reflective, precise mirror optics transfer a greater amount of IR energy to the sensing components
· Digital signal analysis for consistent detection throughout the coverage pattern
· Patented Multi-Level Signal Processing (MLSP) for more accurate detection of human IR energy over a broad range of temperatures
· Sensitivity adjustment to configure the detector for normal or hostile environments
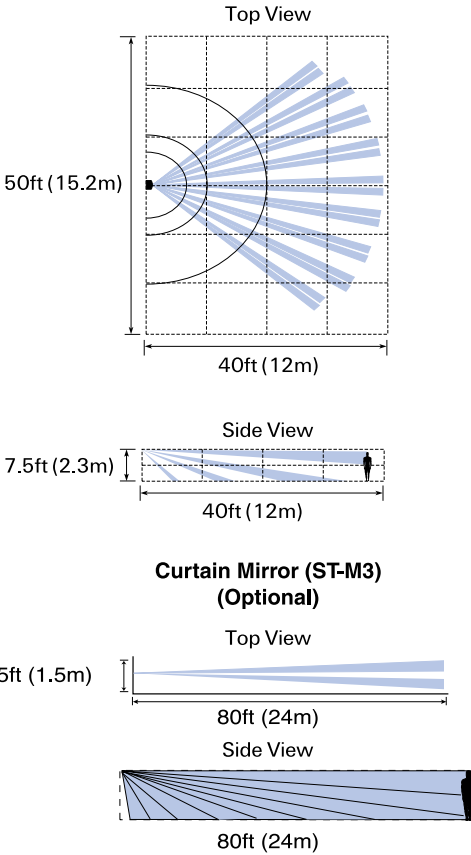
INSTALLATION FEATURES

· Swivel-mount bracket for the ultimate in location and installation flexibility
· Readily accessible screw terminals
· PCB mounted to front plastic for simplified installation
· Unique cover hinge allows unit to be installed right up to the ceiling
· Concealed wiring channel simplifies installation and hides wires
· Curtain mirror available (see below)

MODELS

ST-300D   Form 'A' alarm contact
ST-301D   Form 'A' alarm contact & tamper switch
ST-302D   Form 'C' alarm contact & tamper switch
ST-M3   Optional curtain mirror

COVERAGE PATTERN

Top View

50ft (15.2m)

40ft (12m)

Side View

7.5ft (2.3m)

40ft (12m)

Curtain Mirror (ST-M3) (Optional)

Top View

5ft (1.5m)

80ft (24m)

Side View

80ft (24m)

MIRROR-OPTIC ACCESSORIES

The optional ST-M3 mirror can be used for both curtain applications or corridor applications when longer range is required.
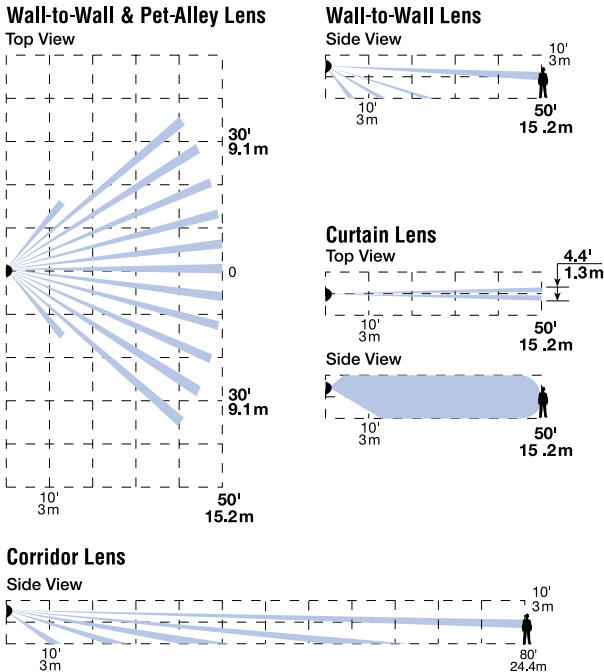
DSC®

Digital Bravo®3
PIR Motion Detector

Digital Bravo3 elevates detection capabilities and false alarm prevention features to a new level of reliability using the most advanced technology in motion detection available today. Digital processing provides superior analysis of detected signals because the digital information can be more accurately analyzed using software, and is not subject to signal degradation caused by amplification, noise, distortion or signal clipping.

FEATURES

· Digital signal analysis for consistent detection throughout the coverage pattern
· Digital temperature compensation for improved catch performance at critical temperatures
· Patented Multi-Level Signal Processing (MLSP) for accurate detection of human IR over a broad range of temperatures
· Vertical Beam Shaping (VBS) provides pet immunity up to 60 lbs (27 kg) available with BV300DP series
· Sensitivity adjustment to configure the detector for normal or hostile environments
· High level static and transient protection
· Exceptional white light immunity
· Excellent RF immunity
· Optional mounting brackets available:
  - *DM-W (wall-mount bracket)*
  - *DM-C (ceiling-mount bracket)*
· Pet-immune model available

MODELS

BV-300D	Form ´A´ alarm contact
BV-301D	Form ´A´ alarm contact & tamper switch
BV-302D	Form ´C´ alarm contact & tamper switch
BV-300DP	Form ´A´ alarm contact
BV-301DP	Form ´A´ alarm contact & tamper switch
BV-302DP	Form ´C´ alarm contact & tamper switch

COVERAGE PATTERN

Wall-to-Wall & Pet-Alley Lens
Top View
30' 9.1m
0
30' 9.1m
10' 3m
50' 15.2m

Wall-to-Wall Lens
Side View
10' 3m
10' 3m
50' 15.2m

Curtain Lens
Top View
4.4' 1.3m
10' 3m
50' 15.2m
Side View
10' 3m
50' 15.2m

Corridor Lens
Side View
10' 3m
10' 3m
80' 24.4m

Analog versions (Bravo2 and Bravo3) are also available and offer precise performance and value. Available in standard and long range configurations, these analog PIR motion detectors offer multi-level signal processing, automatic temperature compensation and proven immunity to white light and electrical transients.

HARDWIRED

23

Bravo®5
360˚ Ceiling-Mount PIR

The Bravo5 ceiling-mount motion detector is perfect for those applications where office partitions and furniture restrict fields of view. From its´ vantage point, it sees what other wall or corner mount detectors can´t. In addition to features found in the Bravo series PIRs, the Bravo5 uses an advanced quad-PIR element to provide consistent detection regardless of the motion direction. The Bravo5GB offers even more security with its integrated glassbreak detector, offering all the features of the Acuity.

FEATURES
Bravo5 Passive Infrared Detector

BV-500
· Signal analysis for consistent detection throughout the coverage pattern
· Temperature compensation for improved catch performance at critical temperatures
· Patented Multi-Level Signal Processing (MLSP) for accurate detection of human IR over a broad range of temperatures
· Sensitivity adjustment to configure the detector for normal or hostile environments
· High level static and transient protection
· Exceptional white light immunity
· Excellent RF immunity

BV-500GB
· Combination PIR with glassbreak detector
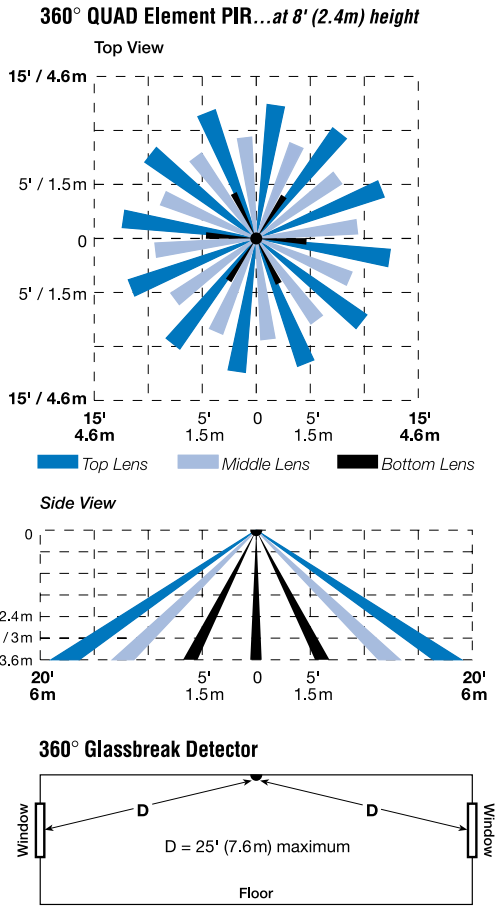· Includes all features of the Bravo5 PIR and Acuity™ glassbreak detector

MODELS
PIR Only

BV-500	Form 'A' alarm contact
BV-501	Form 'A' alarm contact & tamper switch
BV-502	Form 'C' alarm contact & tamper switch

PIR & Glassbreak

BV-500GB	Form ´A´ alarm contact (motion), form ´C´ contact (glassbreak)
BV-501GB	Form ´A´ alarm contact (motion), form ´C´ contact (glassbreak) & tamper switch
BV-502GB	Form ´C´ alarm contact (motion), form ´C´ contact (glassbreak) & tamper switch

360° QUAD Element PIR…*at 8' (2.4m) height*
Top View
15' / 4.6m
5' / 1.5m
0
5' / 1.5m
15' / 4.6m
15' 4.6m   5' 1.5m   0   5' 1.5m   15' 4.6m

■ Top Lens   ■ Middle Lens   ■ Bottom Lens

Side View
0
8' / 2.4m
10' / 3m
12' / 3.6m
20' 6m   5' 1.5m   0   5' 1.5m   20' 6m

360° Glassbreak Detector
Window
D
D
Window
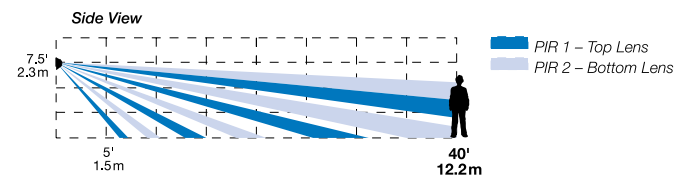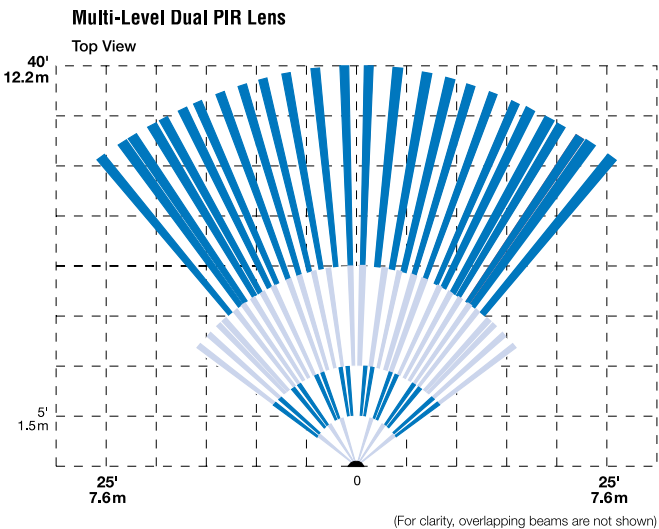D = 25' (7.6m) maximum
Floor

DSC®

24

Bravo®6
Twin, Dual-Element Pet-Immune PIR

The Bravo6 is not only an exceptional pet-immune detector, it also provides excellent false alarm immunity in the harshest environments. With its twin, dual-element PIR detectors, unique lens and advanced digital signal analysis, it provides accurate detection while ignoring common false alarm situations, including pets. The Bravo6 will exceed your expectations for stability and performance.

Multi-Level Dual PIR Lens

Top View

40'
12.2m

5'
1.5m

25'
7.6m

0

25'
7.6m

(For clarity, overlapping beams are not shown)

Side View

7.5'
2.3m

5'
1.5m

40'
12.2m

■ PIR 1 – Top Lens
■ PIR 2 – Bottom Lens

FEATURES

· Digital signal analysis for consistent detection throughout the coverage pattern
· Digital temperature compensation for improved catch performance at critical temperatures
· Patented Multi-Level Signal Processing (MLSP) for accurate detection of human IR over a broad range of temperatures
· Sensitivity adjustment to configure the detector for normal or hostile environments
· High-level static and transient protection
· Exceptional white light immunity
· Excellent RF immunity
· Optional mounting brackets available:
  - *DM-W (wall-mount bracket)*
  - *DM-C (ceiling-mount bracket)*

MODELS

BV-600   Form 'A' alarm contact
BV-601   Form 'A' alarm contact & tamper switch
BV-602   Form 'C' alarm contact & tamper switch

Bravo6 utilizes twin, dual-element PIRs featuring digital signal analysis and Multi-Level Signal Processing (MLSP), with a vertically interleaved beam pattern for superior intruder detection, while being immune to pets weighing up to 85 lbs (38 kg).

HARDWIRED

Force2™
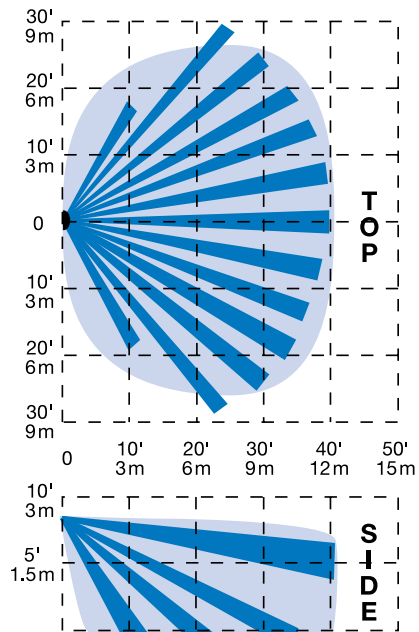## Dual Technology PIR/Microwave Detectors

The Force2 combines two proven motion detector technologies in one package, the perfect integration of PIR and microwave. Combining these two technologies provides an entirely new level and discrimination between intruders and potential false alarms. The advanced and reliable PIR detector and DRO microwave systems are designed to operate as high quality motion detectors. The microprocessor combines these technologies, using digital PIR and microwave signal analysis, to provide intelligence for eliminating 'single detector' false alarms.

FEATURES

· Patented Multi-Level Signal Processing (MLSP)
· Digital microwave signal processing
· DRO microwave technology for low current and reliable operation
· MOV transient/static protection
· High RF immunity with SMD construction
· Exceptional white light immunity
· Digital temperature compensation
· Adjustable microwave detection pattern to match room size
· Optional mounting brackets available:
  - *DM-W (wall-mount bracket)*
  - *DM-C (ceiling-mount bracket)*

MODELS

F2-200   Form 'A' alarm contact
F2-201   Form 'A' alarm contact & tamper switch
F2-201R   Form 'A' alarm contact, tamper switch & relay
F2-202   Form 'C' alarm contact & tamper switch

30'
9m

20'
6m

10'
3m

0

10'
3m

20'
6m

30'
9m

0   10'
3m   20'
6m   30'
9m   40'
12m   50'
15m

TOP

10'
3m

5'
1.5m

SIDE

In addition to standard hardwire detection devices, DSC offers a wide selection of addressable (see page 15) and wireless (see page 7) detection devices.

WIRELESS   ADDRESSABLE

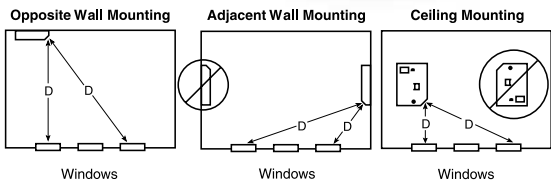**DSC®**

Acuity™
Glassbreak Detectors

Acuity glassbreak detectors have built-in intelligence making them 'smart' enough to discern the sound of breaking glass from common sounds found in homes and businesses. With their high-performance microphones and advanced microprocessor-based Digital Sound Analysis (DSA), they can hear all types of breaking framed glass - plate, laminated, tempered and safety - up to 25´ away. And with wall and ceiling-mount models, there´s an Acuity for any application.

FEATURES

Acuity Glassbreak Detectors

· Exceptional microphone frequency range provides excellent sound capture at low sound levels and distances of up to 25′ (7.6 m)
· Jumper-selectable sensitivity range
· Digital signal processing analyzes sound in remarkable detail to provide greater detector sensitivity and immunity to false alarms
· High static and transient protection includes reliable MOV circuitry
· Exceptional detection of all common types of framed glass including plate, wired, tempered and laminated
· Detectors accommodate changes in frame construction, glass thickness and room acoustics

AFT-100

Glassbreak Simulator

· Generates plate or tempered glass sound samples
· 3″ (7.62 cm) full-range speaker accurately reproduces the full range of frequencies generated by shattering glass
· Single or continuous sound operation

Opposite Wall Mounting **Adjacent Wall Mounting** **Ceiling Mounting**

Windows   Windows   Windows

DETECTION RANGE

		Detection Range	
Glass Type	Sizes	Level 1[†]	Level 2[†]
Plate/Tempered			
1/8 - 1/4" thick	18" x 18" and up	25'	15'
(3 - 6 mm)	(46 x 46 cm)	(7.6 m)	(4.6 m)
	12" x 12" to 18" x 18"	15'	10'
	(30 x 30 to 46 x 46 cm)	(4.6 m)	(3 m)
Wired/Laminated			
1/4" thick	18" x 18" and up	20'	
(6 mm)	(46 x 46 cm)	(6 m)	
	12" x 12" to 18" x 18"	10'	
	(30 x 30 to 46 x 46 cm)	(3 m)	

[†]Jumper selectable

MODELS

Wall-Mount

AC-100	Form 'A' alarm contact
AC-101	Form 'A' alarm contact & tamper switch
AC-102	Form 'C' alarm contact & tamper switch

Ceiling-Mount

AC-500	Form 'A' alarm contact
AC-501	Form 'A' alarm contact & tamper switch
AC-502	Form 'C' alarm contact & tamper switch

Meridian®
Photoelectric Smoke Detectors

The Meridian photoelectric smoke detector sets a standard for reliability and performance, with a chamber so revolutionary it´s covered by two patents. There is no reflective surface as found in other detectors so it is virtually immune to false alarms generated by dust or dirt build-up. With this unique chamber design it can detect slow, smoldering fires and flash fires equally well. With 2-wire, 4-wire, addressable and wireless versions, plus options for relay type, built-in sounder and fixed-temperature sensor, Meridian is ready for your next security or fire alarm installation.

MN-140 SERIES

DC Powered Smoke Alarm

· Loud 85dB piezoelectric alarm sounder
· Interconnect up to 20 detectors
· Removable terminals for easier wiring
· Optional fixed-temperature sensor, 135˚ F (57 ˚C) (T model)
· Optional form 'C' alarm relay (R model)
· Optional sounder (C model)
· Optional isolated fixed-temperature sensor (H model)
· ULC Listed S531

MN-220 SERIES

Two-Wire Smoke Detectors

· Magnet-activated sensitivity test switch
· Optional fixed-temperature sensor, 135˚F (57 ˚C) (T model)
· Optional form 'C' alarm relay (R model)
· Nominal operating voltage range *- 12 - 24 VDC*
· ULC Listed S529/UL Listed UL 268

MN-240 SERIES

Four-Wire Smoke Detectors

· Audible low-sensitivity indication (sounder-equipped units only)
· Optional fixed-temperature sensor, 135˚ F (57 ˚C) (T model)
· Optional form 'C' alarm relay (R model)
· Optional 85dB sounder (S model)
· Nominal operating voltage range *- 12 - 24 VDC*
· UL Listed 268/ULC Listed S529

MODELS

MN140
MN140T
MN140R
MN140RT
MN140C
MN140CT
MN140CH

MODELS

MN220
MN220T
MN220R
MN220RT

MODELS

MN240
MN240T
MN240R
MN240RT
MN240S
MN240ST
MN240SR
MN240SRT

HARDWIRED

DSC®

taking care...

DSC has established a worldwide reputation for innovative, reliable products that are easy to install, service and use. But DSC also recognizes that security dealers everywhere need more than just great products, they demand exceptional service and support as well. Therefore, DSC has committed resources to ensure that we´re ready to help and that we are always in a position to be taking care of our customers.

Connect24

Connect24 provides activation and routing services for DSC Skyroute wireless transceivers. Connect24 receives transceiver signals via established cellular networks and re-routes them to the appropriate central station, meeting the highest standards of UL ratings for the routing of critical condition signals. Connect24 offers a reliable and fully automated system for the activation of Skyroute transceivers, this service is available 24 hours a day, 365 days a year.

www.dsc.com

The DSC Web site is the electronic gateway to a wealth of DSC resources. Password protected and designed for security professionals, dealers can log on quickly and easily to access resource materials such as:

Information on DSC products: downloadable PDF versions of all DSC security product sales and specification sheets, end user manuals, architect and engineer specifications, plus the complete DSC product catalog.

The latest news and events: the DSC Web site features press releases, trade show information, industry events and training sessions.

Contact information: security dealers can find a complete list of DSC contacts, DSC distributor locations, as well as agency listings and industry links.

The latest technical information: DSC customers can stay up-to-date with the latest technical information by reviewing Technical Advisory Bulletins and Product Application Notes. A quick link to our technical support group is available for answers to product related issues.

The latest diagnostic tools: such as the new DLS2002 downloading software available at no charge. Dealers can upload DLS2002 Service Packs and new DLS2002 Drivers to support new products and enhanced features.

Feedback: DSC wants to hear what alarm dealers have to say. The opinions, comments and ideas of our customers contribute directly to the development of new products and services and are important to us. We want to hear from you.

Log on today at www.dsc.com and see how DSC is taking care of its customers and taking care of business.

the DSC customer help center

A dedicated team of technical and customer service specialists stand ready to help with valuable expertise and in-depth product knowledge to assist security dealers in getting the answers they need, quickly and accurately. The Customer Help Centre offers extended hours of service, access to all departments within DSC and multilingual support in 10 different languages. The Customer Help Center is ready to provide you with the exceptional services, support and value that the security industry has come to expect from DSC.

technical support

Customers looking for technical help on any of the great DSC Intrusion Alarm Products can call 1-800-387-3630 or e-mail us at tech@dsc.com.

general customer service

Customers looking for non-technical assistance such as product information or the location of the nearest DSC authorized distributor can call 1-888-888-7838 or e-mail us at info@dsc.com.

... of sales and support

Sur-Gard™
Central Station Receivers

Central stations worldwide have made Sur-Gard the brand of choice for alarm receiving equipment. This recognition results from decades of experience in the engineering, manufacturing and service support of central station receivers and software. DSC is committed to supporting our central station customers as they grow their businesses by helping them understand and incorporate new technology. For example, DSC continues to develop the proven Sur-Gard SG-MLR2 receiver platform. The latest version, the SG-MLR2-E, features greater expandability, new programming options, greater flexibility and superior signal management. Utilizing DNIS, the SG-MLR2E can save money and increase the account-to-line ratio, improving the overall performance of a central station's operations.

Sur-Gard™
Receiver Line Cards

Sur-Gard makes expansion simple with its line card expansion system, giving you the ability to grow your central monitoring station easily and economically. Any combination of cards can be added, up to 15 in total, to the same SG-CPM2 platform.

SG-DVL2A*

DVACS Line Card Module

· Compatible with DVACS network:
  - Listed for ULC (Level 3)
· Provides a high level of security
· Monitors master leg with carrier detect for phone line trouble
· 256 event buffer per module
  *(*For use in Canada only)*

SG-CPM2

Central Processing Module

· Monitors operation and performance of all line cards
· Heartbeat feature for automation supervision
· Hot-swappable
· 1 parallel printer port
· 1 serial RS232 port
· 128 event buffer
· 16 bit micro-controller

SG-MLR2E

2-Line Expandable Digital Receiver

· Supports up to 15 line card modules
· 256 event buffer per line
· Listed for UL and ULC central station
· 19˝ rack mount
· Includes:
  - SG-CPM2 central processing module
  - SG-DRL2E digital line card module
  - SG-MLRFE receiver cage
· Supports:
  - SG-DRL2E digital line card module
  - SG-DRL2A digital line card module
  - SG-DRL-IP network line card module
  - SG-DVL2A DVACS line card module

SG-MLR-IP

Multi-Line Network Receiver

· Supports up to 15 line card modules
· 256 event buffer per line
· Listed for UL (AA) and ULC (Level 3)
· 19˝ rack mount
· Includes:
  - SG-CPM2 central processing module
  - SG-DRL-IP network line card module
  - SG-MLRF-IP receiver cage
· Supports:
  - SG-DRL2E digital line card module
  - SG-DRL2A digital line card module
  - SG-DRL-IP network line card module
  - SG-DVL2A DVACS line card module

SG-DRL-IP

Network Line Card Module

· TCP/IP receiver line card
· Supervises 255 T-Link modules per line card
· Compatible with 10BaseT or 100BaseT Ethernet
· Configuration options programmable using Sur-Gard E-Console software
· Programmable flash memory for upgrades
· Listed for UL (AA) and ULC (Level 3)

SG-DRL2E

Digital Line Card Module

· Supports 2 phone lines
· DSP design with flash memory
· DNIS support
· Patented Caller ID, two-way voice receiving
· Individual line processing
· Hot swappable
· Multiple communication formats
· Configuration options programmable using Sur-Gard E-Console software

SG-DRL2A

Digital Line Card Module

· Supports 2 phone lines
· Patented Caller ID, two-way voice receiving
· Individual line processing
· Hot-swappable
· Multiple communication formats

Sur-Gard™
Virtual Central Station Receivers

As the most advanced central station receiver in the world, the SG-MLR2000 has the ability to handle an enormous number of accounts and perform a multitude of monitoring functions. The tremendous success of this flagship product led DSC to create the Sur-Gard System III™ receiver, a compact version of the SG-MLR2000 designed for the needs of small and medium-size central stations.

SYSTEM III
Virtual Receiver

· Expandable to 24 lines
· DNIS, ANI and patented Caller ID
· DSP processing
· Flash memory
· Multiple Ethernet, serial, and printer outputs
· Multiple communication formats
· Hot-swappable
· 19″ rack-mount assembly
· Internal redundancy
· Two-way voice receiving and call transfer
· Programmable via System III console software

SG-MLR2000
Virtual Receiver

· Expandable to 255 lines
· DNIS, ANI and patented Caller ID
· DSP processing
· Flash memory
· Multiple Ethernet, serial, and printer outputs
· Multiple communication formats
· Hot-swappable
· 19″ rack-mount assembly
· Internal redundancy
· Two-way voice receiving and call transfer
· Programmable via SG-MLR2000 console software

Sur-Gard™
Proprietary Application Receivers

Bring the power of a central station receiver to a desktop computer with the Sur-Gard SG-PC-LC2 receiver and the Reporter software. Designed for proprietary multi-site applications, it provides all the performance and flexibility of a standard Sur-Gard receiver at a low cost. The SG-PC-LC2 receiver allows the security administrator to monitor up to 500 locations per line card. For simple applications, the Sur-Gard SG-SLR single-line desk-mount provides straightforward signal handling at an affordable price. Ideal for small or large commercial applications, these receivers provide great value and reliability when local or PC-based monitoring is required.

SG-PC-LC2-P
PC-Based Receiver & Software

· Includes:
  - SG-PC-LC2 line card
  - Reporter Software
  - SG-PC-LC2 cable
  - Manual set

SG-PC-LC2 CABLE
PC Receiver Data Cable

· Data cable for connection of multiple SG-PC-LC2 units
· Included in SG-PC-LC2-P package

SG-SLR
Single Line Receiver

· Desk-mount unit
· Multiple communication formats
· Patented Caller ID
· Two-way voice receiving
· LCD display, serial RS232 output for automation software
· 256 event buffer, printer output

SG-PC-LC2
PC-Based Receiver Line Card

· Two-line digital receiver module with DSP technology
· Installs directly into standard ISA slot
· Patented Caller ID
· Multiple communication formats
· 1024 event buffer, printer output, remotely programmable

REPORTER
Software for use with SG-PC-LC2 Receiver

· 250 accounts per receiver line
· Password-protected software, Windows™ 9X/NT™/2000 compatible alarm monitoring software for SG-PC-LC2
· All events are color-coded for easy visual identification
· Selectable event reporting information can be faxed, e-mailed or printed
· Generate reports to track events

Sur-Gard™
Receiver Parts & Accessories

SPARE PARTS

SG-MLR2SP
- Spare Parts Kit for SG-MLR2-DG
- Includes:
  - *SG-CPM2 central processor module*
  - *SG-DRL2A digital line card module*
  - *SG-DML2A line card backplane circuit board*
  - *SG-DML4 CPM2 backplane circuit board*
  - *MCBL telephone connection cable*
  - *SER-10 serial cable*
  - *CH6UF2 power cable*
  - *CH6UF3 data bus cable*

SG-MLR2ESP
- Spare Parts Kit for SG-MLR2E
- Includes:
  - *SG-CPM2 central processor module*
  - *SG-DRL2E digital line card module*
  - *SG-DML2E line card backplane circuit board*
  - *SG-DML4 CPM2 backplane circuit board*
  - *MCBL telephone connection cable*
  - *SER10 serial cable*
  - *CH6UF2 power cable*
  - *CH6UF3 data bus cable*

CAGES
Expansion Cages

SG-MLRX
- SG-DRL2A Expansion Cage
- Includes:
  - *Expansion card cage*
  - *2 SG-DLM2A backplane circuit boards*

SG-MLRXE
- SG-DRL2E Expansion Cage
- Includes:
  - *Expansion card cage*
  - *2 SG-DLM2E backplane circuit board*

SG-MLRX-IP
- SG-DRL-IP Expansion Cage
- Includes:
  - *Expansion card cage*
  - *2 SG-DLM-IP backplane circuit boards*

SG-MLRX-BP
- Expansion Cage Blank Cover Plate

PRINTERS & ACCESSORIES
Activity Printers

SG-DP8340P
- Receiver activity printer
- Parallel dot-matrix printer
- Used with SG-SLR, SG-MLR2-DG and SG-MLR2E receivers
- SG-1220P power supply required

SG-DP8340P-ULC
- ULC Listed receiver activity printer
- Parallel dot-matrix printer
- Used with SG-SLR, SG-MLR2-DG and SG-MLR2E receivers
- SG-1220B ULC Listed power supply included
- Also available:
  - *SG-RIB1 printer ribbon*
  - *SG-PAP1 printer paper*

SG-DPU-414
- Activity printer
- Thermal printer for use with the SG-PC-LC2
- 40 columns
- Parallel or serial output
- Also available:
  - *SG-AC AC adapter*
  - *SG-DPU-PAP thermal printer paper*

BACKPLANES
Spare Backplane Circuit Board

SG-DML2A
- Compatible with SG-DRL2A line card

SG-DML2E
- Compatible with SG-DRL2E line card

SG-DML-IP
- Compatible with SG-DRL-IP line card

SG-DML4
- Used on the SG-MLR2, SG-MLR2E and the SG-MLR-IP
- Used on the SG-MLR2F, SG-MLRFE and the MLRFIP

CABINETS
19″ Rack-Mount Receiver Cabinets

SG-MLR2CL
- Large floor-mount cabinet for SG-MLR2, SG-MLR2E or SG-MLR-IP receiver
- Up to 15 line card modules

SG-MLR2CM
- Desk-mount cabinet for SG-MLR2, SG-MLR2E or SG-MLR-IP receiver
- Up to 7 line card modules

SG-MLR2CS
- Small desk-mount cabinet for SG-MLR2, SG-MLR2E or SG-MLR-IP receiver
- Up to 3 line card modules

SG-MLR2CSX
- Extra-small desk-mount cabinet for SG-MLR2, SG-MLR2E or SG-MLR-IP receiver

EntraPass™ Special Edition
Access Control Software

Kantech´s EntraPass Special Edition doesn´t just pass the test, it exceeds the parameters for high-performance and reliability demanded by installers of access control and integrated security systems.

Easy to use, easy to install, EntraPass Special Edition provides single workstation access control you can trust.

FEATURES
EntraPass Special Edition

- Expands to accommodate up to 56,000 users
- Controls up to 128 doors
- Express Setup gets the system up and running quickly
- Multilingual operation
- Integrates easily with external alarm system
- Visual diagnostics

SYSTEM CAPACITIES
EntraPass Special Edition

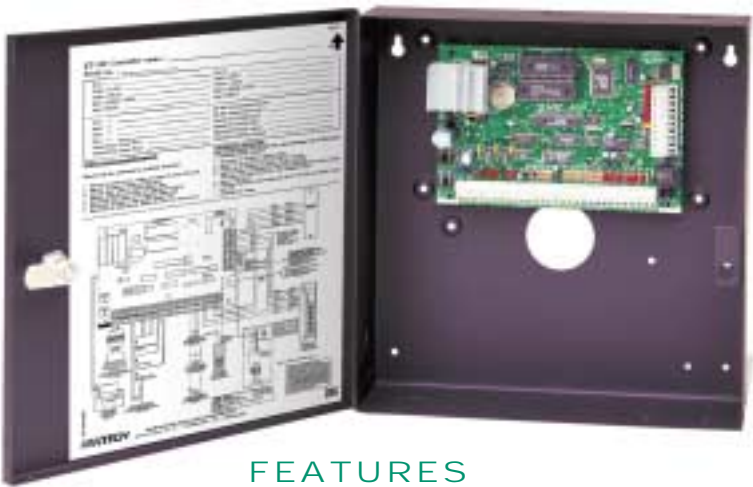|	
• Cards	56,000 per site
• Number of cards per controller stand-alone mode	6,000 (KT-100)
	3,000 (KT-200)
	8,000 (KT-300/128K)
	56,000 (KT-300/512K)
• Card families or site code	Unlimited
• Number of sites	2
• Door controllers per site	32
• Card readers/keypads	128 per system
• Monitored points (input)	512 per site
• Card user access levels	250 per site
• Access level combinations	Unlimited
• Schedules of 4 time zones each	100
• Holidays	366 per site
• Holiday types	4
• System operator passwords	Unlimited
• Operator security levels	Unlimited
• Concurrent operator languages	2
• Number of printers	1 log printer
	1 report printer

KT-100™
Mini Door Controller

The new KT-100 Mini Door Controller is a compact, versatile powerhouse with a space-saving design that incorporates all the components and equipment found in much larger controllers. It includes a 2-reader interface and all the inputs and outputs necessary to manage one door, plus the flexibility to easily link to a network controlling up to 64 doors (128 readers entry/exit). It also has a storage for 6,000 users and 3,000 events locally. Reliable, versatile, the KT-100 is the ultimate access control reader.

TECHNICAL SPECIFICATIONS

Input power	9.5 to 14 VDC
Battery backup	1 lithium battery, up to 10 year retention
Dimensions (H·W·D)	4.5″ x 2.75″ x 1.25″ (11.4 x 7.0 x 3 cm)
Operating temperatures	From 35° F to 110° F (2° C to 40° C), 5% to 95% RH
Reader types	Wiegand, proximity, bar code, magnetic, integrated keypad and others
Monitored points (inputs)	4 monitored points
Points maximum wiring	2,000′ (600m) – #22AWG
Door strike power	12 VDC, 250 mA each, supervised
Auxiliary outputs (LED, BUZ)	2 outputs, 25 mA max, 12 VDC each
Relay outputs (R1 ,R2 , R3 , R4)	2 control relay outputs, 12 VDC, 25 mA totals each 2 relay outputs, 30 VAC/DC, 50 mA each, two opto-isolated contacts per relay
Reader power outputs	5 VDC @150 mA total, protected
Communication ports	RS-485
Communication speed	Up to 115,200 bps (automatic detection)
Firmware Flash memory	64K
RAM memory	128K, protected by a lithium battery
Network autonomy	Distributed data and processing
Certifications/Listing	FCC Part 15, Class B

FEATURES

KT-100 Mini Door Controller

· Flash memory programming
· Fast communication speed
· Trouble reporting
· Interfaces with external alarm system
· Higher security provided by a concealed door relay module
· Auxiliary relay to arm/disarm an alarm system, requires Kantech EntraPass Corporate Edition software
· Supports multiple reader types

AVAILABLE ACCESSORIES
Models

MUSB-1WHT	White surface-mount box
VC-485	RS232/RS485 multi-function communication device
USB-485	USB to RS485 communication interface

KT-300™
Door Controller

The KT-300 is designed to meet the highest standards of access control and point monitoring applications. The KT-300 controls 2 doors and can easily link to a network controlling thousands of doors.

FEATURES

KT-300 Door Controller

· Flash memory programming
· Fast communication speed
· Trouble reporting
· COMBUS expansion with additional inputs, outputs, relays and LCD keypads for time and attendance applications
· Supports multiple reader types

TECHNICAL SPECIFICATIONS

Input power	16 VAC, 40 VA, class 2 transformer
Battery backup	1 battery 12 V, 7 Ah, supervised, provides operation for up to 12 hours
Cabinet dimensions (H·W·D)	11-3/4″ x 11-3/8″ x 3″ (29.9 x 28.8 x 7.7 cm)
Operating temperatures	From 35° F to 110° F (2° C to 40° C)
Reader types	Wiegand, proximity, bar code, magnetic, integrated keypad and others
Monitored points (inputs)	8 monitored points, expandable to 16
Door strike power	12 VDC, 250 mA each, supervised
Auxiliary outputs (LED, BUZ)	4 outputs, 25 mA max each, open collector
Control relay outputs (RL1, RL2)	2 control relay outputs, 12 VDC, 25 mA total each, open collector
Auxiliary power output	12 VDC @ 125 mA max, protected and supervised
Reader power outputs	12 VDC and 5 VDC @ 175 mA total, protected and supervised
Communication ports	RS-232, RS-485 and COMBUS
Communication speed	Up to 115,200 bps (automatic detection)
Firmware Flash memory	128K
RAM memory	128K (512K unit available), protected by a lithium battery
Network autonomy	Distributed data and processing
Certifications	UL294, FCC

KT-PC4204		4-relay and COMBUS additional power supply module. Current draw: 30mA (from COMBUS). 40 VA, 16 VAC transformer required, maximum 12 V, 7 Ah battery required. 4 programmable relay form 'C' contacts rated 2 A. Tamper contact input. (UL, FCC)
KT-PC4216		16-output module. Current draw:15 mA (from COMBUS). Output 12 VDC, 50 mA each, power drawn from COMBUS. Tamper contact input. (UL, FCC)
KT-PC4108		8-input module. Current draw: 30 mA (from COMBUS). AUX power 12 VDC, 250 mA max., drawn from COMBUS. Tamper contact input. (UL, FCC)
KT-LCD4501		LCD time/date display for Time and Attendance. Current draw: 50 mA (from COMBUS). (UL, FCC)

AVAILABLE ACCESSORIES
Models

KT-300/128k	Door controller with 128K memory including KT-300CAB, KT-300ACC and KT-300LOCK
KT-300/512k	Door controller with 512K memory including KT-300CAB, KT-300ACC and KT-300LOCK
KT-300PCB/128k	KT-300/128K PCB only and KT-300ACC accessory kit
KT-300PCB/512k	KT-300/512K PCB only and KT-300ACC accessory kit
KT-300ACC	Accessory kit including: 2x1.0k ohms, 10 x 5.6 k ohms, 2 x 120 ohms, PCB standoffs, lock hole cover, ground wire and screwdriver
KT-RM1	External isolation relay SPDT for KT-300 outputs controlled by relays (RL1/RL2)
KT-300CAB	KT-300 black metal cabinet including KT-300LOCK
KT-4051CAB	Standard black metal cabinet for Kantech modules (order keylock separately) 16-13/16″ x 10-3/8″ x 4-1/8″ (42.7 H x 26.4 W x 14.4 D cm)
KT-300LOCK	Keylock for KT-300CAB and KT-4051CAB metal cabinet (2 keys /same as KT-200)
KT-300TAMP	Tamper switch for KT-300CAB and KT-4051CAB metal cabinet
TR1637W/CSA	Transformer, wire-in,110 /16 VAC (37 VA) CSA
TR1640P/CSA	Transformer, plug-in, 110 /16 VAC (40 VA) CSA
TR1640P/UL	Transformer, plug-in, 110 /16 VAC (40 VA) UL

KANTECH

DSC

ioPass™
Stand-Alone Door Controller

The ioPass is a fully programmable stand-alone access control system that allows entry using proximity technology, keypad or both, for up to 5,000 users. With its compact and surface mount design, the ioPass is programmed directly from the unit´s keypad. The system is available in two models: with integrated or external proximity reader.

FEATURES

ioPass Stand-Alone Door Controller

· Up to 5,000 card users
· Use reader, keypad or both
· Integrated or external ioProx proximity reader
· Read range of up to 4″ (10 cm)
· Higher security provided by a concealed door relay module
· Auxiliary relay to arm/disarm an alarm system
· Audit trail on the unit
· Duress function available
· 10 proximity keytags included

TECHNICAL SPECIFICATIONS

Typical read range[1]	Up to 4″ (10 cm)
Input voltage	12 VDC
Current DC maximum	300 mA
Display	16 characters, 2 lines, LCD with backlight
Dimensions (H·W·D)	5.9 x 4.3 x 1.8″ (15 x 11 x 4.5 cm)
Color	Grey
Case material	ABS (UL 94V-0)
LED indicator	Bicolor (red,green)
Sounder	Piezo
Operating temperature	32° F to 122° F (0° C to 50° C)
Operating humidity	5% to 95% RH
Maximum distance between:	
Controller and proximity reader	500′ (150 m), 2 twisted pairs, solid conductor #22AWG UNSHIELDED
Controller and relay module	500′ (150 m), 2 twisted pairs, solid conductor #22AWG UNSHIELDED
Relay module and power supply	500′ (150 m), 1 pair, solid conductor #18AWG UNSHIELDED Recommended power supply 12 VDC, 1 A
Door contact input	NO or NC selectable
Request-to-Exit input	NO or NC selectable
Relay output	Form C, NO and NC, 3 A, 24 VDC (Strike relay, Alarm relay, Relay-1)
Strike relay timer	1 to 255 sec.
Alarm relay timer	1 to 255 sec.
Relay-1 timer	1 to 255 sec.
Door ajar timer	1 to 255 sec.
Audit trail	On unit, last 10 cards.
Compatible cards	ioProx cards P10SHL, P20DYE and P40KEY
Certifications	FCC

[1] Reduced read range with keytag and Dye-Sub card.

AVAILABLE ACCESSORIES

Models

SA-500   Stand-alone controller with integrated proximity reader
SA-600   Stand-alone controller with external proximity reader
SA-RM56 Additional relay module

Compatible Cards

P10SHL Standard ioProx proximity card
P20DYE Thin ioProx proximity card, front/back surface glossy for Dye-Sub printing
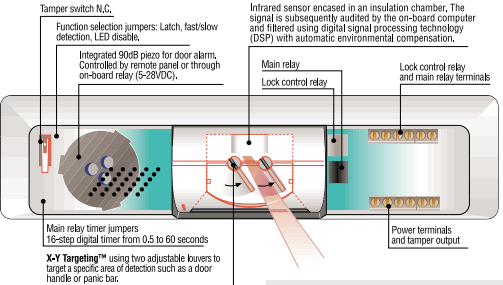P40KEY ioProx proximity keytag

T-Rex™
Request-To-Exit Detector

There is a substantial operational difference between a common infrared intrusion motion detector and the T-Rex request-to-exit device. Intrusion PIR detectors operate at sensitivity levels that look for the positive presence of a human being. Exit detectors must detect the extremely fast movement of a hand (the target) about to push the door or turn the door handle.

Kantech's T-Rex utilizes proven infrared detection coupled with DSP (Digital Signal Processing) sampling specifically designed for access control applications assuring catch but greatly reducing the possibility of false "Door Forced Open" alarms.

Tamper switch N.C.
Function selection jumpers: Latch, fast/slow detection, LED disable.
Integrated 90dB piezo for door alarm, Controlled by remote panel or through on-board relay (5-28VDC).

Infrared sensor encased in an insulation chamber, The signal is subsequently audited by the on-board computer and filtered using digital signal processing technology (DSP) with automatic environmental compensation.
Main relay
Lock control relay
Lock control relay and main relay terminals

Main relay timer jumpers
16-step digital timer from 0.5 to 60 seconds
Power terminals and tamper output

X-Y Targeting™ using two adjustable louvers to target a specific area of detection such as a door handle or panic bar.

T-REX-XL2 model shown

While many exit detectors on the market offer adjustments of the detection pattern with masking or horizontal alignment, the T-Rex is the first detector to offer vertical detection targeting using two adjustable louvers located in the detection chamber. The installer can trim the detection area by adjusting these louvers from 90° down to a minute 5°. Horizontal adjustment is provided by rotation of the lens. These two adjustments allow the installer to mount the detector so that the detection area will not "hit" the floor along the doorjamb. This exclusive feature defeats attempts to circumvent door supervision by sliding objects underneath the door.

TECHNICAL SPECIFICATIONS

Detector type	Passive infrared
Filter technology	Digital Signal Processing (DSP)
Detector lens	Curtain type Fresnel lens
Detection range	One hand: 10′ (3 m) / Whole body: 20′ (6 m)
Power consumption	12 to 28 VDC, 50 mA
Piezo buzzer	90 dB @ 28 VDC, 5 to 28 VDC, 20 mA (XL & XL2 only)
Main relay contacts	SPDT, 1 A @ 30 VDC
Main relay timer	Adjustable, 1/2 to 60 seconds
Main relay recycle time	Fixed, 3/4 seconds off
Lock control relay	Available on LT2 and XL2 models only, solid-state relay, NC, 2 A @ 30 VDC timed @ 2 seconds fixed
Tamper switch	NC, 100 mA max @ 30 VDC max
Color	White (all models) Black (XL & XL2 models only)
Dimensions (H·W·D)	71/8 x 13/4 x 17/8″ (19 x 4.5 x 4.75 cm)
LED Indicator	Bi-color (red, green)
Certifications	UL 294, FCC

AVAILABLE ACCESSORIES

Models

T-REX-LT   Tamper and timer
T-REX-XL   Tamper, piezo and timer
T-REX-LT2 Tamper, timer and 2 relays
T-REX-XL2 Tamper, piezo, timer and 2 relays

DSC®

KANTECH™

Card Readers
Access Control Readers and Cards

With six ioProx readers to choose from, you will find one that's right for your application! Their attractive, compact and weather resistant design makes them suitable for installation in various indoor and outdoor environments. The ioProx reader electronics are vandal and weather resistant, and are encapsulated in epoxy. All readers have an integrated piezo buzzer and bicolor LED indicating system/reader status. An optional tamper switch and user input modules are also available.

P40Key
Keytag

P20DYE
Dye-Sub Card

P10SHL
Standard Shell Card

P30DMG
Dye-Sub Card with Mag Stripe

COMMON FEATURES
Readers and Cards

- Available in either Wiegand 26 bit or Kantech XSF:
  - *P600 supports both formats*
- Bi-color LED indicator
- Integrated piezo buzzer
- Optional command buttons
- Optional tamper switch
- Operating temperature:
  -30˚F to 150˚F (-35˚C to 65˚C)

ioProx

	P100W26/XSF Mini	P200W26/XSF Mullion	P300W26/XSF Single Gang
Typical read range[1]	Up to 4″ (10 cm)	Up to 5″ (12.5 cm)	Up to 5.5″ (14 cm)
Input voltage	5 to 14 VDC	5 to 14 VDC	5 to 14 VDC
Current DC maximum	85 mA	85 mA	
Dimensions (H·W·D) in	2.75 x 1.75 x 0.7	4.50 x 1.75 x 0.7	4.50 x 2.75 x 0.7
Dimensions (H·W·D) mm	70 x 44 x 17.8	114.5 x 44 x 17.8	114.5 x 70 x 17.8
Color	Black	Black	Black
Transmit frequency	125 kHz	125 kHz	125 kHz
LED indicator	Bi-color standard (red, green)	Bi-color standard (red, green)	Bi-color standard (red, green)
Piezo buzzer	Integrated	Integrated	Integrated
Reader format	26-bit Wiegand	26-bit Wiegand	26-bit Wiegand
Keypad format	N/A	N/A	N/A
Maximum distance (12 VDC)	1000′ (300 m)	1000′ (300 m)	1000′ (300 m)
Maximum distance (5 VDC)	500′ (150 m)	500′ (150 m)	500′ (150 m)
Cable type (all models)	3 twisted pairs, solid conductor #22AWG UNSHIELDED. Belden ref #8742		
Certifications	UL294, FCC	UL294, FCC	UL294, FCC
Command buttons (Optional)	N/A	P-BUTN/200	N/A
Tamper switch (Optional)	N/A	P-TAMP	P-TAMP

[1] Reduced read range with keytag and Dye-Sub card.

	P400W26/XSF Double Gang	P555KPW26/XSF Integrated Keypad	P600 Long-Range Reader
Typical read range[1]	Up to 6″ (15 cm)	Up to 4.5″ (11.4 cm)	Up to 29″ (73 cm)
Input voltage	5 to 14 VDC	5 to 14 VDC	12 to 28 VDC
Current DC maximum	85 mA	75 mA	1 A
Dimensions (H·W·D) in	4.50 x 4.50 x 0.7	4.39 x 2.97 x 0.90	11.25 x 11.25 x 1.25
Dimensions (H·W·D) mm	114.5 x 114.5 x 17.8	111.5 x 75 x 23	28.5 x 28.5 x 3.15
Color	Black	Black	Black
Transmit frequency	125 kHz	125 kHz	125 kHz
LED indicator	Bi-color standard (red, green)	Bi-color standard (red, green)	Bi-color standard (red, green)
Piezo buzzer	Integrated	Integrated	Integrated
Reader format	26-bit Wiegand	26-bit Wiegand	26-bit Wiegand, XSF
Keypad format	N/A	8-bit burst	N/A
Maximum distance (12 VDC)	1000′ (300 m)	1000′ (300 m)	1000′ (300 m)
Maximum distance (5 VDC)	500′ (150 m)	500′ (150 m)	500′ (150 m)
Cable type (all models)	3 twisted pairs, solid conductor #22AWG UNSHIELDED. Belden ref #8742		
Certifications	UL294, FCC	FCC	FCC
Command buttons (Optional)	P-BUTN/400	N/A	N/A
Tamper switch (Optional)	P-TAMP	N/A	N/A

[1] Reduced read range with keytag and Dye-Sub card.

KANTECH™

DSC®

B&W and Color Cameras

DeltaVision CCTV Cameras

DeltaVision offers an excellent choice of both general-purpose and high-resolution surveillance cameras. Available in both B&W and color, these provide features typically only found in more expensive cameras. With 380 and 480 (high-resolution) TV lines of resolution in our B&W series, and 330 and 470 (high resolution) TV lines of resolution in our color series, these cameras deliver a clean, sharp picture, even in low light conditions. Automatic electronic shutter and automatic gain control assures that the camera will operate in a wide range of lighting conditions. For extreme lighting conditions, the DeltaVision cameras also supports the use of DC-type or EE-type auto-iris lenses.

DV-CM380BW

1/3" B&W Camera

- · 380 lines of resolution
- · 0.1 lux low light sensitivity
- · Sensitive to IR illumination
- · Supports DC-type or EE-type auto-iris lenses; aperture correction
- · CS lens mount with C adapter included
- · Automatic electronic shutter, gain control and backlight compensation
- · Internal isolation transformer; 24 VAC input

DV-CM580BW-HR

1/3" B&W High-Resolution Camera

- · 580 lines of resolution
- · 0.03 lux low light sensitivity
- · Sensitive to IR illumination
- · Supports DC-type or EE-type auto-iris lenses; aperture correction
- · Automatic electronic shutter, gain control, and backlight compensation
- · Phase adjustable line-lock
- · Internal isolation transformer; 24 VAC input

DV-CM330C

1/3" Color Camera

- · 330 lines of resolution
- · 0.8 lux @ F1.2 sensitivity
- · Supports DC-type or EE-type auto-iris lenses
- · CS lens mount with C adapter included
- · Automatic electronic shutter, gain control and backlight compensation
- · Phase adjustable line-lock
- · Internal isolation transformer; 24 VAC input

DV-CM470C-HR

1/3" Color High-Resolution Camera

- · 470 lines of resolution,
- · 1.5 lux, low light sensitivity AGC
- · AES 1/60-1/100,000
- · Supports DC-type or EE-type auto-iris lenses
- · Digital Signal Processing (DSP)
- · Phase adjustable line-lock
- · CS lens mount with C adapter included
- · Internal isolation transformer; 24 VAC or 12 VDC input

Bullet Cameras
DeltaVision™ Cameras

The DeltaVision series of bullet cameras deliver a sharp picture at a very economical cost. They are low silhouette and available in both B&W and color. Select models are designed to meet IP57 standard for weather resistance. The built-in IR illumination LEDs on select models allows these cameras to produce a picture with 0 lux ambient light. The DV-CMB300C will automatically switch from color to B&W when IR illuminators are operating.

DV-CMB200C-WP
Color Waterproof Bullet Camera with Sunshield

· Clip-on removable sunshield
· 1/4" color CCD sensor
· 330 lines of resolution
· 3.6 mm fixed focus lens
· 6 LEDs for IR illumination
· Effective range 10´ (3 m)
· 3.0 lux @ F2.0, 0 lux with IR on
· Weather-resistant -10˚C
  to 50˚C, 0% to 95% RH
· 12 VDC power supply included

DV-CMB300BW-WP
B&W Waterproof Bullet Camera with IR Illuminator and Sunshield

· 1/3" B&W CCD image sensor
· 380 lines of resolution
· 4.0 mm lens
· 12 LEDs for IR illumination
· Effective range 30´ (10 m)
· 0.5 lux @ F2.0, 0 lux with IR on
· Weather-resistant IP57; -10˚C
  to 50˚C, 0% to 95% RH
· 12 VDC power supply included

DV-CMB300C-WP
B&W and Color (Day/Night) Bullet Camera with IR Illuminator

· Clip-on removable sunshield
· 1/4" color CCD sensor
· 330 lines of resolution
· 4.0 mm lens
· 12 LEDs for IR illumination
· Effective range 30´ (10 m)
· 1 lux @ F2.0, 0 lux with IR on
· Weather-resistant IP57; -10˚C
  to 50˚C, 0% to 95% RH
· Switches electronically from color to
  black and white in low light
· 12 VDC power supply included

DV-CMB200BW
B&W Bullet Camera with Sunshield

· Clip-on removable sunshield
· 1/3" B&W CCD sensor
· 380 lines of resolution
· 3.6 mm fixed focus lens
· 0.5 lux @ F2.0 sensitivity
· 12 VDC power supply included

DV-CMB200BW-WP
B&W Waterproof Bullet Camera

· 1/3" BW CCD image sensor
· 380 lines of resolution
· 3.6 mm lens
· 6 LEDs for IR illumination
· Effective range 3 m
· 0.1 lux @ F2.0, 0 lux with IR on
· Weather-resistant -10˚C to 50˚C,
  0% to 95% RH
· 12 VDC power supply included

DV-CMB200C
B&W Bullet Camera with Sunshield

· Clip-on removable sunshield
· 1/4" color CCD sensor
· 330 lines of resolution
· 3.6 mm fixed focus lens
· 2.0 lux @ F1.4 sensitivity (LED off)
· 12 VDC power supply included

Dome Cameras
Mini Dome and Speed Dome Cameras

A fast and precise dome suitable for the most demanding applications, the DeltaVision speed dome camera delivers clear, detailed video with continuous auto-focus and back-light compensation.

The DV-D20 mini-dome series of cameras feature a 3.5˝ discreet dome housing that is an attractive, affordable alternative to a standard camera. They offer an adjustable viewing angle and are available in both B&W and color.

DV-DC128A
Color 5˝ Speed Dome Camera

· Auto-focus and exposure
· 128 x zoom (16 x optical)
· 128 presets and 4 programmable
  sequences
· Home, cruise and auto-pan
· 4 alarm inputs
· 360° continuous rotation and
  auto turn-around

DV-D5EXH
Exterior Housing for Speed Dome with Protective Sunshield

· Built-in 24 VAC heater and blower
· Rigid, vibration-resistant steel
  construction
· Impact-resistant clear plastic
  viewing window
· Twist-lock camera mounting
  bracket for convenient installation
  and service
· Silver-grey baked enamel finish

DV-D20BW
B&W Mini Dome 3.4˝ Camera

· 1/3" B&W CCD image sensor
· 380 lines of resolution
· Backlight compensation
· AGC, AES, AWB
· 3.6 mm lens
· 0.5 lux @ F2.0
· 12 VDC power supply included

DV-D20C
Color Mini Dome 3.4˝ Camera

· 1/4" color CCD image sensor
· 330 lines of resolution
· Backlight compensation
· AGC, AES, AWB
· 3.6 mm lens
· 1.0 lux @ F2.0
· 12 VDC power supply included

DELTAVISION™

DSC®

Board Cameras
DeltaVision Cameras

The DeltaVision series of board cameras, with their small footprint and exceptional performance, give you the full flexibility to house the camera as required for your video surveillance needs. They are available in both B&W and color, with standard or pinhole lenses. For your convenience, DSC has two covert versions, mounted in a Force2 motion detector housing.

DV-CMPCBPLBW

B&W Board Camera with Pinhole Lens

- 1/3" B&W CCD image sensor
- 380 lines of resolution
- Backlight compensation
- AGC, AES, AWB
- 3.7 mm lens, pinhole F3.5
- 0.5 lux @ F2.0
- 12 VDC power supply included

DV-CMPCBPLC

Color Board Camera with Pinhole Lens

- 1/4" color CCD image sensor
- 330 lines of resolution
- Backlight compensation
- AGC, AES, AWB
- 3.7 mm lens, pinhole F3.5
- 1.0 lux @ F2.0
- 12 VDC power supply included

DV-CMPCBSLBW

B&W Board Camera with Standard Lens

- 1/3" B&W CCD image sensor
- 380 lines of resolution
- Backlight compensation
- AGC, AES, AWB
- 3.6 mm lens
- 0.5 lux @ F2.0
- 12 VDC power supply included

DV-CMPCBSLC

Color Board Camera with Standard Lens

- 1/4" color CCD image sensor
- 330 lines of resolution
- Backlight compensation
- AGC, AES, AWB
- 3.6 mm lens
- 1.0 lux @ F2.0
- 12 VDC power supply included

DV-CMCVPIRBW

B&W Covert Camera

- DV-CMPCBPLBW camera mounted in a DSC motion detector housing
- Non-functioning PIR

DV-CMCVPIRC

Color Covert Camera

- DV-CMPCBPLC camera mounted in a DSC motion detector housing
- Non-functioning PIR

Camera Lenses & Accessories
DeltaVision Accessories

CAMERA BRACKETS

- Ivory color, ABS construction
- Wall-mount, 360° rotation

DV-MBD80 (Standard Camera Bracket)
- 3.5″ wide x 6.8″ long (88.9 x 172.7 mm)

DV-MBD90i (Small Camera Bracket)
- 3.2″ wide x 5.4″ long (81.2 x 137 mm)

MONITOR BRACKETS

- Steel construction, black powder epoxy finish

DV-V1MS (Wall-Mount Bracket, 9″ to 12″)

DV-V2MS (Wall-Mount Bracket, 12″ to 21″)

DV-V3MS (Ceiling-Mount Bracket, 12″ to 21″)

DV-BHKIT

Blower and Heater Kit for DV-H605

- Heater power source: 24 VAC
- Heat generation: 7.5 W (7.5 W surge)
- Blower and heater thermostat-controlled

DV-H605

Outdoor Housing

- Aluminum construction
- Weatherproof
- Integrated sunshield
- Baked enamel finish
- Optional mounting bracket (DV-MBD100)

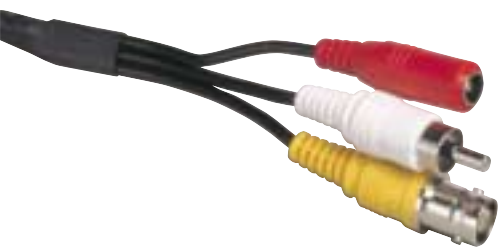| MODEL	Image Format (Inches)	Focal Length F (mm)	Aperture (F)	Mount
DV-2.8AD13CS	1/3″	2.8	1.4-64	CS
DV-2.8M13CS	1/3″	2.8	1.4	CS
DV-3.5-8AD13CS	1/3″	3.5-8.0	1.4-64	CS
DV-3.5-8M13CS	1/3″	3.5-8.0	1.4	CS
DV-4.0AD13CS	1/3″	4.0	1.2-64	CS
DV-4.0M13CS	1/3″	4.0	1.2	CS
DV-7-70AD13CS	1/3″	7.0-77	1.6-360	CS
DV-7-70M13CS	1/3″	7.0-77	1.6	CS
DV-8.0AD13CS	1/3″	8.0	1.2-64	CS
DV-8.0M13CS	1/3″	8.0	1.2	CS

DV-QUICKCABLE

Quick-Connection Cable

- Quick-connection cable; BNC, RCA, Power

DV-CMBPS12

12 VDC Power Supply

- 12 VDC power supply for CMB and CMPCB series cameras

DELTA**VISION**™

Video Recorders
Digital Video and Video Recorders

The DVR1016 simultaneously records up to 16 cameras, while displaying live or recorded video at up to 120 images per second. It combines a multiplexer and recorder into one unit with easy point-and-click Windows™ software, and includes advanced features like video motion detection. With DeltaVision´s Remote View software, you can view images over a LAN/WAN network or the Internet, and the built-in CD-ROM writer and floppy disk drive make it easy to archive video or still images. With the DVR1016 you get more than just a digital video recorder, you get all the advantages of an integrated CCTV solution.

DV-DVR1016-80
16-Channel Digital Video Recorder 80 GB

· 4 video decoders (120 images per second processing rate)
· 80 GB hard drive, upgradeable to 4 hard disks
· Simultaneous recording and playback in real-time
· Motion-triggered recording
· LAN/WAN (Ethernet) connectivity standard
· 8 alarm inputs and outputs

DV-RT24VCR
24-Hour Real-time Recorder (VHS)

· Real-time and time-lapse recording
· Event recording
· High quality playback and search
· 4 rotary heads azimuth-helical scanning system

DV-RT960VCR
960-Hour Real-time and Time-Lapse Recorder (VHS)

· Real-time and time-lapse recording
· Event recording
· High quality playback and search
· 4 rotary heads azimuth-helical scanning system

DV-DVR1016-160
16-Channel Digital Video Recorder 160 GB

· 4 video decoders (120 images per second processing rate)
· 160 GB hard drive, upgradeable to 4 hard disks
· Simultaneous recording and playback in real-time
· Motion-triggered recording
· LAN/WAN (Ethernet) connectivity standard
· 8 alarm inputs and outputs

DV-RVCRLKBOX
VCR Security Lock Box

Keyboards and Switchers
Switchers and Quad Processors

This high-quality keyboard is ideal for use with DeltaVision speed domes and multiplexers. It provides plug-and-play operation with any RS485 CCTV device, such as PTZ cameras, and supports Super MPX and Super MMX. Connections are made using convenient RJ11 jacks and terminal block.

DV-KBD1000
Controller Keyboard With Joystick

· Backlit LCD
· Tactile keyboard
· Precision joystick
· OSD menus
· Real-time clock and calendar
· Alarm record list
· Controls up to 255 other devices, including up to 16 multiplexers

DV-Q4CHRTBW
B&W 4-Channel Real-time Quad Switcher

· Real-time refresh rate 30 IPS
· High-resolution 720 x 480; 256 grey scale
· Time and date with 10-character camera ID
· Quad output and switching output; alarm functions
· Onscreen menus for programming
· Video loss detection
· Video gain by channel
· 12 VDC with plug-mounted power supply

DV-Q4CHRTC
Color 4-Channel Real-time Quad Switcher

· Real-time refresh rate 30 IPS
· High-resolution 720 x 480; 16.7 million colors
· Time and date with 10-character camera ID
· Quad output and switching output; alarm functions
· Onscreen menus for programming
· Video loss detection
· Video gain by channel
· 12 VDC with plug-mounted power supply

DV-VS4CHNL
4-Channel Video Server

· JPEG compression; transmit live video up to 30 IPS NTSC (25 IPS PAL)
· Included software allows you to view 36 cameras and domes from multiple locations simultaneously
· PTZ control of remote domes
· Image resolution up to 640 x 480
· Allows you to select single, quad and sequential display modes
· Sends pre and post alarm images to FTP server or specified e-mail address

DV-QPS12
Power Supply for DV-Q4CH Series

Multiplexers
Duplex and Triplex Multiplexers

DeltaVision duplex and triplex multiplexers offer advanced features not typically found in standard multiplexers. The duplex and triplex capability allows users to view live or recorded video while recording at the same time. Video inputs can be programmed as covert so that certain cameras are recorded but not viewable on the monitors. With a wide variety of other programmable features, DeltaVision duplex and triplex multiplexers have what you need for any application.

MODEL	Color or B&W	Duplex or Triplex	Input Channels	Resolution	Refresh Rate
DV-M4000DBW	B&W	Duplex	4	246 grey scale	30 per second
DV-9000DBW	B&W	Duplex	9	256 grey scale	30 per second
DV-M1600DBW	B&W	Duplex	10	256 grey scale	30 per second
DV-M4000DC	Color	Duplex	4	16 million color	30 per second
DV-M9000DC	Color	Duplex	9	16 million color	30 per second
DV-1600DC	Color	Duplex	10	16 million color	30 per second
DV-M1000TBW	B&W	Triplex	10	256 grey scale	60 per second
DV-1600TBW	B&W	Triplex	16	256 grey scale	60 per second
DV-M1000TC	Color	Triplex	10	16 million color	60 per second
DV-M1600TC	Color	Triplex	16	16 million color	60 per second

COMMON FEATURES

Multiplexers

- User-friendly on-screen menus
- BNC and S-VHS monitor and VCR inputs and outputs
- Support double/triple density VCRs and real-time/time-lapse recording

DV-MRMTPNL

Terminal

- Compatible with DeltaVision duplex and triplex multiplexers
- Connect up to16 multiplexers to one remote panel and easily change the multiplexers you control
- Daisy-chain up to 4 remote panels
- Maximum distance is 1000′ (300 m)
- Easily installs and operates from desktop or rack-mount

CCTV Monitors and Packs
B&W, Color, Portable Monitors and Camera Packs

B&W MONITORS

- 1000 lines of resolution
- 75 ohms or high-impedance looping
- Heavy-duty metal cabinet

DV-V9	9″ Monitor
DV-V12	12″ Monitor
DV-V14	14″ Monitor
DV-V17	17″ Monitor
DV-V20	20″ Monitor

COLOR MONITORS

- 350/450 lines of resolution
- 75 ohms or high-impedance looping
- Heavy-duty metal cabinet

DV-VC10	10″ Monitor
DV-VC14	14″ Monitor
DV-V21	21″ Monitor

DV-VC17HR

Color 17″ High-Resolution Monitor

- 600 lines of resolution
- Looping BNC inputs and Y/C (S-VHS) input
- Baseband delay line-comb filter for enhanced picture quality
- Audio capability
- On-screen menu operation and digital controls

DV-VPM3

Color 13″ Portable LCD Monitor

- Backlit 3" color LCD display
- High definition image with clear, bright colors
- Light-weight, sturdy aluminum casing
- Rechargeable batteries, AC adapter and car lighter adapter included
- BNC output with RCA and BNC-T adapters and 3' (9 m) video cable supplied

COMMON FEATURES

Camera Packs

- Come with lens mounted, back-focused
- Transformer not included

DV-CMPKEXBW

B&W Pre-Assembled Outdoor Camera Fast Pack

- Includes:
  - DV-CM380BW camera
  - DV-3.5-8ADCS lens
  - DV-H605 outdoor housing
  - DV-MBD100 bracket
  - BV-BHKIT blower/heater kit

DV-CMPK380BW

B&W Indoor Camera Pack

- Includes:
  - DV-CM380BW camera
  - DV-3.5-8ADCS lens
  - DV-MBD100 bracket

DV-CMPK330C

Color Indoor Camera Pack

- Includes:
  - DV-CM330C camera
  - DV-3.5-8ADCS lens
  - DV-MBD100 bracket

DV-CMPKEXC-770

Color Pre-Assembled Camera with Outdoor Housing and 7-70 Lens

- Includes:
  - DV-CM380BW camera
  - DV-7-70ADCS lens
  - DV-H605 outdoor housing
  - DV-MBD100 bracket
  - BV-BHKIT blower/heater kit

DV-CMPKEXC

Color Pre-Assembled Outdoor Camera Pack

- Includes:
  - DV-CM330C camera
  - DV-3.5-8ADCS lens
  - DV-H605 outdoor housing
  - DV-MBD100 bracket
  - BV-BHKIT blower/heater kit

DV-CMPKEXBW-770

B&W Pre-Assembled Camera with Outdoor Housing and 7-70 Lens

- Includes:
  - DV-CM380BW camera
  - DV-7-70ADCS lens
  - DV-H605 outdoor housing
  - DV-MBD100 bracket
  - BV-BHKIT blower/heater kit

DELTAVISION™

DSC®

Secutron™
Conventional Fire Panel

The MR-2602 and MR-2605 are versatile, power-packed two-zone and five-zone conventional fire alarm control panels designed for small building fire protection.

VERSATILE

Two or five dual-use zones that can tell the difference between smoke detectors and contact initiating devices. This allows the smoke detectors to be configured to auto-verify, while the contact devices initiate an instant alarm.

POWERFUL

A power supply that can handle the panel's full rated load, including two 1.5 A power-limited NACs, charging batteries, and 500 mA of auxiliary power.

FEATURE-RICH

Select the features you need: supervisory zone type, waterflow zone type, auto-silence, waterflow delay, waterflow silence inhibit, and many more. Microprocessor-based versatility at its best.

EASY TO PROGRAM

Program the features a job requires by using the switches and indicator lights on the front panel. Simple, fast, and effective and the panel memorizes the setup even if all power is removed.

FEATURES
Modul-R MR-2602 and MR-2605

- UL and ULC listed
- CSFM and MEA pending
- 2 Class B/Style B dual-use zones (MR-2602)
- 5 Class B/Style B dual-use zones (MR-2605)
- 2 Class B/Style Y notification appliance circuits
- 4.2 A power supply
- 500 mA of AUX power
- Common alarm relay
- Common trouble relay
- Integrated battery charger
- 4-wire 'Secur-Bus' for accessories
- 20 event buffer
- 6 programmable zone options
- Class A capability, both NAC and zones
- One-man walk test
- Optional dual-line dialer
- Upload/Download capable
- Programmable NAC silence timer

Secutron™
Addressable Fire Alarm Control Panel

MR-2100 and MR-2200 addressable input fire alarm control panels provide flexible and cost-effective operation, satisfying system requirements for both economy and capability. Their modular design assures that as system needs and applicable codes evolve, fire alarm control panel functions can be updated as required.

FEATURES
Modul-R MR2100 and MR2200

- UL Listed 864/ULC Listed S527
- MR-2100 provides a single addressable input Signaling Line Circuit (SLC) for up to 198 Devices
- MR-2200 provides dual addressable input Signaling Line Circuits for up to 396 devices
- SLCs are selectable for either Class 'A' (Style 6) or Class 'B' (Style 4) operation
- 2 Notification Appliance Circuits (NACs), Class 'A' (Style 'Z') or Class 'B' (Style 'Y'); expandable to 8 NACs with optional module (MRNC2)
- 4 programmable function relays, form 'C'; expandable to 16 relays with optional module (MR-RL4)
- Release function/cross-zoning options
- 2 auxiliary power outputs
- 4.3 A power supply with integrated battery charger provides 2.5 A for NACs and auxiliary output; expandable to provide up to 7 A NAC current
- 4 additional communications ports for dialer, PC interface, voice evacuation system, and local annunciators
- LCD/LED system status display with optional LED zone display modules (MRLD8)
- Surface/flush mount cabinet with dead-front construction is capable of holding two, 12 Ah batteries
- Cabinet doors are removable for easy installation
- Terminal blocks are removable for easy wiring
- Operating program and database can be uploaded/downloaded by PC

MODUL-R® MR-2100/ MR-2200

Addressable Fire Alarm Control Panels for 198 or 396 Devices

The MR-2100 provides a single addressable input Signaling Line Circuit (SLC) for support of up to 198 devices, while the MR-2200 has two SLCs for allowing a total capacity of up to 396 addressable devices.

Expansion and upgrade is simple. Optional modules mount directly to the chassis and can be conveniently field installed. Additional modules are available for NAC output circuits, function relay output circuits, remote annunciation, additional NAC power, and other fire alarm interface operations.

Secutron has made programming convenient and easy. System parameters, control panel display and operation functions are conveniently programmed from the on-board LCD and keypad. Input circuit programming and special features are performed from an externally generated database produced on a convenient Windows™ based PC program.

SECUTRON™

DSC®

The Concourse Structured Cabling System adds value, convenience and flexibility to every low voltage installation.

A structured cabling system designed with the security dealer in mind. It only makes sense the company making the alarm panels you trust offers a complete structured cabling system that takes the confusion out of a rapidly evolving low voltage marketplace.

It´s neat, it´s simple, it´s Concourse.

CONCOURSE DSC

To learn more about Concourse products and DSC training courses approved for CEU credits visit www.dsc.com.

TELEPHONY
With a burgeoning small business/home office marketplace, it´s not uncommon to have 2, 3 or more phone lines on the premises. Whether it is voice, fax or a dedicated modem line, Concourse telephony modules can organize your next installation.

VIDEO DISTRIBUTION
The advent of HDTV, plasma and LCD screens, low cost CRT and rear projection TVs, combined with a broad offering of multi-channel satellite and cable service, has resulted in significant growth in Home Theatre and whole house video distribution. With broad choices in video distribution modules, Concourse makes organizing home or small business video requirements easy.

VIDEO SURVEILLANCE
With the explosion of low cost, reliable CCD video cameras, CCTV surveillance is now a reality for home and small business owners. Concourse video modulator and distribution modules now make it easy to install front door or nursery cameras and display the information on the end user´s regular TVs.

LAN NETWORK
The tremendous growth of the small business/home office market, combined with home computer use by children for education and entertainment, has made resource sharing a common issue. DSC and Concourse make pre-wring a home or small business for a LAN simple.

AUDIO DISTRIBUTION
Why not offer sound system pre-wiring? The increase in availability and the lower costs of speakers and source components have made whole audio distribution home theatre, background music, or intercoms attainable for the average owner. Concourse audio distribution modules provide a simply way to share sound throughout the premises and make pre-wiring easy and economical.

SECURITY SYSTEMS
A logical and familiar place to start any small business/home office structured cabling installation is the alarm system. The Concourse easily accommodates all DSC PowerSeries or MAXSYS control panels and related modules, giving installers the ability to quickly add security with the convenience of structured cabling in one component cabinet.

HOME AUTOMATION
With energy costs spiraling out of control, management of lighting and heating/cooling systems has become a critical part of any structured wiring system. Concourse and its interface to DSC´s proven Escort telephone interface/automation module makes thermostat and lighting control a breeze.

Concourse™
Structured Cabling Solutions

DSC is committed to assisting our security dealers in taking advantage of the tremendous growth opportunity available in the structured cabling market. DSC believes that the intrusion alarm system is the logical place to begin a home or small business structured cable system. Concourse wiring enclosures and their related low voltage modules have been designed with alarm installers in mind, to provide seamless integration of PowerSeries or MAXSYS control panels and modules. Dealers have everything they need to offer a complete low-voltage system.

CABINETS
Medium/Large/Extra-Large Cabinets

- Flush-mount or surface-mount
- Screw tabs allow for variable stud spacing
- Built-in raceways with covers
- Provision for tamper switch

HS-CAB1400
- 14.25″ wide x 14.25″ high x 4″ deep (36 x 36 x 10 cm)

HS-CAB2800
- 14.25″ wide x 28.5″ high x 4″ deep (36 x 72 x 10 cm)

HS-CAB4200
- 14.25″ wide x 42.75″ high x 4″ deep (36 x 108 x 10 cm)

MOUNTING PLATES

HS-MP200
- 4 x 6″ (10.2 x 15.4 cm)

HS-MP300
- 8 x 6″ (20.5 x 15.4 cm)

HS-MP400
- 12 x 6″ (30.7 x 15.4 cm)

HS-MOD001-BKT
- 4 x 6″ (10.2 x 15.4 cm)
  - *required to mount HS-VM1100*

HS-HUB100-BKT
- 8 x 6″ (20.5 x 15.4 cm)
  - *required to mount NH8100*

HS-BB100
- Battery mounting bracket (right side)

HS-BB101
- Battery mounting bracket (left side)

PowerSeries KITS
Control Panel with Concourse Mounting Plate

- PC580HS
  - *- 4 - 32 zone control panel*
- PC1555HS
  - *- 6 - 32 zone control panel*
- PC5010HS
  - *- 8 - 32 zone control panel*
- PWR864HS
  - *- 8 - 64 zone control panel (PC5020)*

- Concourse also supports the MAXSYS control panel and all MAXSYS modules

Concourse™
Structured Cabling Modules

HS-TH1600
Analog Bridged Telecom Module

- Connections for up to 4 incoming lines on 110 IDC
- Up to 6 RJ45 outputs
- One RJ45 expansion port (to connect to HS-TE1650)
- Line 1 or line 2 security system connection via RJ31X
- Fits on HS-MP200 mounting plate (included)

HS-TE1650
1x6 Analog Bridged Telecom Expansion Module

- Expansion module for HS-TH1600
- One RJ45 4-line input jack
- Up to 6 RJ45 outputs
- One RJ45 expansion port (to connect to another HS-TE1650)
- Fits on HS-MP200 mounting plate (included)

HS-TH200
Analog Telephone Module

- Connections for up to 4 incoming lines
- Parallel outputs for up to 11 locations
- One RJ45 expansion port (to connect to another telephony module)
- Line 1 or line 2 security system connection via RJ31X
- Fits on HS-MP200 mounting plate (included)

HS-DH800
Data/Voice Distribution Module

- 8 channel data/voice distribution module
- Independent 110 IDC to RJ45 T568A connections
- Can be used to interconnect HS-NH400 or HS-NH8100 Ethernet modules for a Local Area Network (LAN)
- Can be used to connect home-run telephone outlets
- Fits on HS-MP200 mounting plate (included)

HS-NH400
Ethernet Network Hub

- 4-port, 10BaseT IEEE 802.3 compliant Ethernet hub
- Interconnect up to 4 computer peripherals up to 328′ from hub
- Fits on HS-MP200 mounting plate (included)

HS-NH8100
8-Port 10/100 Switch

- 8-port, 10/100Mbps Ethernet switch
- Used to uplink to another switch, hub or repeater
- Auto-negotiation from any port
- Auto-sensing of speed (10/100Mbps)
- Requires HS-HUB100-BRKT mounting plate

CONCOURSE™

DSC®

Concourse™
Structured Cabling Modules

HS-VH400/ HS-VH1402DSS

Passive 1x4 Video Splitters

· 1 GHz, 1x4 passive RF video splitter
· One CATV/ANT input with 4 outputs
· Can be used as a 4-input, 1-output video combiner
· All ports are power-passing, 24 VDC, 500 mA maximum
· Uses 'F' style fittings
· Fits on HS-MP200 mounting plate (included)

HS-VH1402DSS
· Dual Low-Noise-Blocking (LNB) pass-through connectors for DSS

HS-VH1800/ HS-VH1802DSS

Passive 1x8 Video Splitters

· 1 GHz, 1x8 passive RF video splitter
· One CATV/ANT input with 8 outputs
· Can be used as an 8-input, 1-output video combiner
· All ports are power-passing, 24 VDC, 500 mA maximum
· Uses 'F' style fittings
· Fits on HS-MP200 mounting plate (included)

HS-VH1802DSS
· Dual Low-Noise-Blocking (LNB) pass-through connectors for DSS

HS-VT1640/ HS-VT1680

Combination Modules

· 1x6 analog (bridged) telecom connector with one 110 IDC for 4 input lines
· RJ31X for line 1 security connection

HS-VT1640
· Includes all HS-VH400 features

HS-VT1680
· Includes all HS-VH1800 features

HS-VA800

Bi-directional Amplified 1x8 Video Splitter

· One ANT/CATV input and 8 amplified outputs
· 5 to 42 MHz return path for modems and interactive TV
· Uses 'F' style fittings
· Transformer included
· Fits on HS-MP300 mounting plate (included)

HS-VM1100

One-Channel Mono Video Modulator

· One-channel, monaural frequency-agile video modulator
· Add RF signal (video) from video source (camera) to distribution network (TV)
· Requires HS-VH400 module configured as a combiner
· Covers UHF CH14 to 78 and CATV CH65 to135 (except 95 to 99)
· Requires HS-HUB100-BRKT mounting plate

HS-AH600

6-Channel Audio Distribution Module

· 1x6, 4-wire distribution module
· Impedence-matching volume control and speakers required (not supplied)
· Can also be used as a KEYBUS or COMBUS wiring expander
· Fits on HS-MP200 mounting plate (included)

Concourse™
How To Order A Typical System

HS-TH200
(1) *Analog Telephone Module*
· Distribute 4 incoming lines to up to 11 locations

HS-AH600
(2) *Audio Distribution Module*
· Distribute audio to up to 6 locations

VM-1100
(3) *Mono Video Modulator*
· Add video from a camera to a regular TV channel

PC5108
(4) *Hardwire Zone Expander*
· Adds up to 8 hardwire zones

ESCORT5580TC
(5) *Telephone Interface Module*
· Turns any tone phone into a fully functional keypad
· Includes automation and thermostat control

HS-NH8100
(6) *8 Port 10/100 Switch*
· Interconnect up to 8 computers or peripherals for a LAN

HS-DH800
(7) *Data/Voice Distribution Module*
· Distribute data to up to 8 locations

POWER832
(8) *Control Panel*
· 8 zone control panel
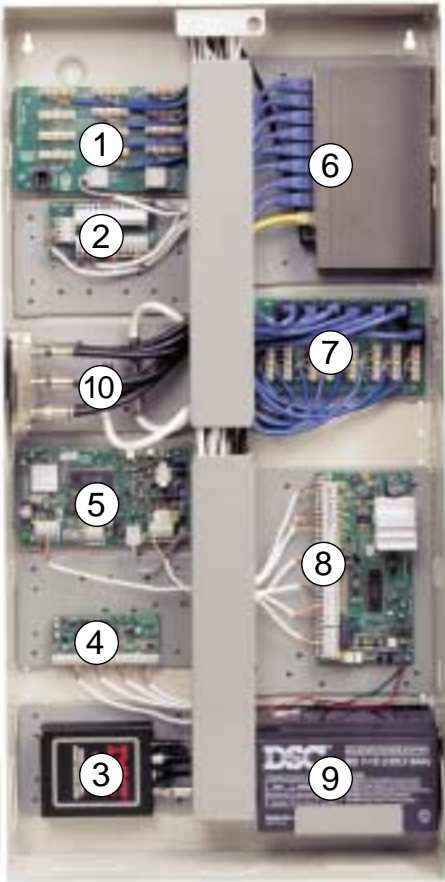· Expandable to 32

BD7-12
(9) *Battery*
· 7 Ah rechargeable battery

HS-VH1800
(10) *Video Splitter*
· Distribute video to up to 8 locations
· Includes 2 low-noise blocking passive DSS connectors

TO INSTALL THIS SYSTEM, ORDER THE FOLLOWING EQUIPMENT:

1 . . . . **HS-CAB2800**
1 . . . . **HS-TH200** (HS-MP200 mounting plate included)
1 . . . . **HS-AH600** (HS-MP200 mounting plate included)
1 . . . . **HS-VH1800** (HS-MP200 mounting plate included)
1 . . . . **HS-DH800** (HS-MP200 mounting plate included)
1 . . . . **VM-1100** (HS-MOD001-BKT mounting bracket sold separately)
1 . . . . . **HS-NH8100** (HS-HUB100-BKT mounting bracket sold separately)
1 . . . . . **HS-MOD001-BKT** (for HS-VM100)

1 . . . . . **HS-HUB100-BKT** (for HS-NH8100)
1 . . . . . **HS-BB100** (for battery)
3 . . . . . **HS-MP200** (for HS-AH600, PC5108, Escort5580TC)
1 . . . . . **PC5010HS** (PC5010 control panel, HS-MP300 mounting plate included)
1 . . . . . **PC5108** (HS-MP200 mounting plate sold separately)
1 . . . . . **BD7-12** battery (HS-BB100 mounting bracket sold separately)
1 . . . . . **PTC1640U** transformer