# DSC® Power832®
## Security System

## Up to 12 Keypads

- up to 8 hardwired keypads and 4 wireless keypads
- 4 hardwired keypads available *with zone input*…
  - PC5508Z eight zone LED keypad
  - PC5516Z sixteen zone LED keypad
  - PC5532Z thirty two zone LED keypad
  - LCD5500Z alphanumeric keypad
- **WLS910… wireless handheld keypad**
- **added wireless control is provided by** …
  - WLS908… wireless panic pendant
  - WLS909… wireless key

## 32 Zones Hardwired or Wireless … 2 Partitions

### Hardwired

- **8 zones on main panel**
- **PC5108** - 8 zone expansion module
- **PC5108L** - 8 zone expansion module *plus* Downlook video on Power832 PC5015 panel
- **PC5700** *…Canada only* - 4 general purpose zones, 2 waterflow zones, 1 ground fault zone, *plus* dual supervised telephone lines
- **PC5720** *…Canada only* - 5 general purpose zones, 2 waterflow zone, 1 ground fault zone, *plus* printer or DVACS communications

### Wireless

- **PC5132** - 32 zone wireless zone expansion module

## 14 PGM Outputs

- **up to 5 high current outputs… 1 on main panel** *plus* :
  - **PC5204** - 4 output high current power supply module
    - 1 output fully supervised for siren output
- **up to 9 low current outputs… 1 on main panel** *plus* :
  - **PC5208** - 8 low current output module

## Advanced Communications

- **supports all major formats including SIA and Contact ID**
- **LINKS 1000™ cellular communication**
- **LINKS 2150™ and LINKS 2450™ long range radio communication**
- **DVACS communication using PC5400 or PC5720 modules**
- **Downlook video transmission using PC5108L module on Power832 PC5015 main control panel**
- **event initiated personal paging**
- **3 phone numbers (3rd backs up primary number)**
- **2 account numbers**

## Integrated Intercom Audio

- **supports Central Station Two Way Voice and Home Intercom features using PC5928 audio interface module, PC5921 intercom stations, and PC5904 two way listen-in stations**

## Integrated CCTV

- **supports Downlook still frame video transmission using PC5108L module on Power832 PC5015 main control panel**
- **provides local VCR/monitor video switching for 8 cameras**

## Integrated Voice Assisted Security & Home Automation

- **Escort 5580 & 5580TC provide voice assisted security *and* automation control for up to 32 X-10 devices *plus* thermostat control on 5580TC**

## Efficient Installation

- **4 wire communications bus (KEYBUS)**
  - connect modules up to 1000′ (305m) from control panel
  - PC5204 - 4 output high current power supply module provides up to 1A auxiliary power
  - main panel provides up to 550mA auxiliary power

## Power832 Security System

# PC5010/5015 Main Control Panels

- PC5010 main control panel - alarm only
- PC5015 main control panel - alarm plus Downlook video capability
- **support up to 32 zones using any combination of up to :**
  - 8 hardwire zones on main panel
  - 8 hardwire zones using PC5108L video matrix module *(on PC5015 only)*
  - 4 general purpose hardwire zones and 2 waterflow hardwire zones using PC5700 fire module *(in Canada only)*
  - 24 hardwire zones using PC5108 eight zone expander modules
  - 8 keypad zones
  - 32 wireless zones using PC5132 wireless receiver module
- **zone programming**
  - all zones programmable as burglary or fire
  - zone options include : Normally Closed loop, Single End of Line (EOL) resistor, and Double EOL resistor[1]
    - [1] *keypad zones cannot be programmed as fire zones and cannot support Double EOL resistor supervision*
  - 27 programmable zone types, 8 programmable zone options
- **audible alarm output**
  - supervised bell output - 700 mA @ 12 VDC, PTC protected, current limited at 3 A
  - steady, pulsed, temporal pattern, or strobe fire output
  - additional supervised siren output is available using PC5204 power supply module
- **programmable voltage outputs**
  - 1 high current 300 mA PGM… can also be used for 2 wire smoke with a maximum of 20 detectors at 15 mA per detector
  - 1 low current 50 mA PGM
  - 8 additional low current PGM outputs using PC5208 module
  - 4 additional high current PGM outputs using PC5204 module
  - 24 programmable options
- **local PCLINK™ and remote upload/download capability**
  - program system using DLS software and direct PC connection to control panel or via remote PC over telephone line
  - view status and trouble conditions, and system 128 event buffer
  - remote access can be controlled by owner to prevent unauthorized access to system
- **power supply**
  - 550 mA @ 12.5 VDC auxiliary power (400 mA for UL applications)
  - positive temperature coefficient (PTC) protected battery, AUX, and Bell output
  - electronic protection of KEYBUS
  - supervision of AC power loss, low battery, auxiliary power failure
  - internal clock locked to AC power frequency
- **EEPROM memory**
  - will not lose programming or system status on complete AC and battery failure
- **digital communicator**
  - supports all major formats including SIA & Contact ID
  - supports LINKS1000™ cellular communications
  - supports LINKS2150™ and LINKS2450™ long range radio communications
  - 3 phone numbers (3rd backs up primary)
  - 2 account numbers    - DTMF or pulse dialing
  - DPDT line seizure    - anti-jam feature
  - split reporting of selected events to each telephone number
  - event initiated personal paging
- **battery required :** 12 V, 4 Ah, rechargeable sealed lead acid
- **transformer required :** 16.5 VAC, 40 VA

## System Operation

- **2 system partitions…** 2 account numbers
  - each partition acts as a separate alarm system with any number of zones, user codes, keypads and individually programmable features
- **38 - 4 or 6 digit access codes**
  - 32 user codes, 1 system master code, 2 partition master codes, 2 duress codes, and 1 maintenance code
- **automatic arming by partition**
  - each partition may be programmed to auto-arm at its own time each day
- **keypad lockout**
  - panel can be programmed to lockout keypad if a series of incorrect access code entries are made
- **'quick arm' and 'quick exit'**
  - allows users to arm and exit easily
- **'stay/away' zones and 'stay' arming**
  - security of perimeter arming while premise is occupied
- **door chime**
  - programmable by zone
  - monitor a door by having keypad beep when the door is opened and again when door is closed
- **128 event buffer**
  - all events automatically stored with time and date stamp to buffer
  - events can be printed on-site using the PC5400 serial printer interface module, viewed through an LCD Keypad, or viewed and printed via PC using DLS software

## Full Supervision

The system continuously monitors the following trouble conditions :

- **AC power failure**
- **fire trouble**
- **low battery**
- **loss of internal clock**
- **fail to communicate**
- **module fault (supervisory or tamper)**
- **camera troubles** *(on PC5015 with Downlook)*

- **trouble by zone**
- **telephone line trouble**
- **bell output trouble**
- **tamper by zone**
- **aux power supply fault**

## False Alarm Prevention Features

- **audible exit delay**
- **quick exit**
- **swinger shutdown**
- **recent closing transmission**
- **double hit timer***
- **rotating keypress buffer**

- **audible exit fault**
- **urgency on entry delay**
- **cross zone alarm**
- **burglary verified timer***
- **communication delay**
- **arm/disarm bell squawk**

*\* on PC5015 v2.2x and higher*

■ **E x p a n d a b l e    H y b r i**

## LCD5500Z Plain Language Keypad



The Power832 security system is fully programmable from the attractive, easy to use dual-language LCD5500Z keypad :

- **connect up to 8 keypads, combination LED and/or LCD**
- **zone input**
  - connect detector to keypad to avoid separate wiring back to panel
- **multi-language** *(languages vary according to country)*
  - simple key entry to toggle between languages while viewing keypad
- **rotating keypress buffer reduces access code entry false alarms**
- **large 32 character display**
  - zone identification    - system instructions
  - system status        - 128 event buffer
  - trouble conditions
- **plain language operating instructions**
  - menu for user functions
  - what key to press for specific functions
  - steps for programming functions
- **automatic scrolling of alarms in memory**
  - scrolls through alarms in memory while keypad is idle
- **12 hour or 24 hour clock display**
- **5 programmable function keys with 25 options such as Home Arm, Away Arm, Quick Exit etc.**
- **4 keypad-activated alarms : Fire, Auxiliary, Panic, and Duress**
- **3 LED indicators : Ready, Armed and Trouble**
  - allow system status to be viewed at a glance
- **backlit display**
  - display and keys backlit for easy viewing in low light conditions
  - adjustable brightness and contrast
  - *Backlighting Boost* provides extra high key lighting when any key is pressed
- **piezo buzzer**
  - provides audible feedback for correct key entries, pre-alert, and system trouble status
  - adjustable buzzer tone
- **connect to 4 wire KEYBUS up to 1000' (305m) from control panel**
- **specifications**
  - current draw :   85mA with backlighting boost
  - dimensions :    5.75"W x 4.5"H x 1"D (144 x 114 x 25mm)

## LED Keypads



The Power832 system is fully programmable from any of the attractive, easy to use, LED keypads :

- **3 keypads available :**   PC5508Z ........   8 zone LED keypad
  PC5516Z ........   16 zone LED keypad
  PC5532Z ........   32 zone LED keypad
- **zone input**
  - connect detector to keypad to avoid separate wiring back to panel
- **rotating keypress buffer reduces access code entry false alarms**
- **5 programmable function keys with 25 options such as Home Arm, Away Arm, Quick Exit etc.**
- **LED indicators :**  Ready, Armed, Trouble, Memory, Bypass, Fire, Program
- **4 keypad-activated alarms…Panic, Auxiliary, Fire, and Duress**
- **backlit display…**with *Backlighting Boost* to provide extra high key lighting when any key is pressed
- **piezo buzzer…**provides audible feedback for correct key entries, pre-alert, and system trouble status… with adjustable buzzer tone
- **connect to 4 wire KEYBUS up to 1000' (305m) from control panel**
- **specifications**
  - current draw :   85mA with backlighting boost
  - dimensions :    5.75"W x 4.5"H x 1"D (144 x 114 x 25mm)

## PC5400 - Printer Interface Module



- **both PC5400 and PC5400DV may be used at the same time on a system**
- **provides RS232 serial printer connection for report of events logged to the system event buffer… prints event, partition, time, and date that event occurred**
- **supports any 300, 1200, 2400 or 4800 BPS serial printer**
- **connect printer up to 200' (61m) from PC5400**
- **connect PC5400 up to 1000' (305m) from control panel via KEYBUS**
- **current draw :** 65mA @ 12VDC
- **maximum one module per system**

# PC5400DV - DVACS Interface Module

- both PC5400 and PC5400DV may be used at the same time on a system
- provides ULC Level 3 Line Security.
- provides full DVACS reporting of all system events.
- module is pre-programmed to SIA zone definitions
- events simultaneously communicated via DVACS and other installed communications mode such as digital or cellular
- full cross supervision between the system control panel and the DVACS module e.g… problems with one will be communicated to the central station by the other.
- central station requires Sur-Gard receiver with DVL2A version 2 or higher software.
- complete with 8 pin jack, and communications and power cables for connection to F1/F2 subset.
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 65mA @ 12VDC

# Hardwired Expansion

## PC5108 - 8 Zone Expansion Module

- adds 8 hardwired general purpose burglary or fire zones
- provides 100mA @ 12VDC auxiliary current, PTC protected
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 35mA @ 12VDC

*…Canada only*

## PC5700 Fire Zone Expansion Module

- a zone expansion module which provides :
  - dual supervised telephone lines
  - 2 Class A supervisory waterflow zones
  - ground fault detection zone
  - 4 general purpose fire or burglary zones
- tamper and trouble reporting codes
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 150mA @ 12VDC

*…Canada only*

## PC5720 Fire / Printer / DVACS Module

- a zone expansion module which can also be used to provide either a serial printer or DVACS communications interface
- 8 zone inputs include :
  - 2 Class A supervisory waterflow zones
  - ground fault detection zone
  - 5 general purpose fire or burglary zones
- as RS232 printer interface :
  - baud rates… 300, 1200, 2400, 4800
  - connect printer up to 200' (61m) from the PC5720 module
- as DVACS interface :
  - provides ULC Level 3 Line Security.
  - provides full DVACS reporting of all system events.
  - module is pre-programmed to SIA zone definitions
  - events simultaneously communicated via DVACS and other installed communications mode such as digital or cellular
  - full cross supervision between the system control panel and the DVACS module i.e… problems with one will be communicated to the central station by the other.

- central station requires Sur-Gard receiver with DVL2A version 2 or higher software.
- complete with 8 pin jack, and communications and power cables for connection to F1/F2 subset.
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw @ 12VDC : 80mA standby, 100mA with printer, 120mA with DVACS

# Wireless Expansion

## PC5132 Wireless Receiver



- add up to 32 DSC wireless detectors* including :
  - WLS904 ........ passive infrared detector
  - WLS906 ........ photoelectric smoke detector
  - WLS907 ........ slim-line transmitter
  - *  devices use standard Eveready Energizer ® alkaline batteries
- 900 MHz true 'Spread Spectrum' technology, fully supervised for communication integrity
- easy sensor enroll process
- supervisory transmissions every 12 minutes
- programmable 1-24 hr supervisory window
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 130 mA @ 12VDC

# Wireless Control Devices



**WLS908 Wireless Panic Pendant**

- communicates a non-medical alarm to central station
- 32 pendants maximum…each occupying 1 alarm zone
- sealed non-replaceable battery

**WLS909 Wireless Key**

- remote arm/disarm control
- up to 16 keys per system
- 3 photo/electronic 1.5V batteries included

**WLS910 Wireless Hand-Held Keypad**

- personal remote keypad
- up to 4 wireless keypads per system (in addition to hardwired keypads)
- 3 'AAA' batteries included

# Integrated Voice Assisted Security & Home Automation

# Integrated Intercom Audio Interface

## ESCORT 5580 Voice Assisted Security & Automation Control Module

- turns any touch-tone phone into a fully functional keypad with Global and Partition control
- built-in power line interface for control of 32 X-10 automation control devices
  - 16 schedules with On Time, Off Time, and Day of Week
  - 8 user controlled automation modes
  - full range of dimming levels for lighting control
  - event activated control for any PGM output supported by the main panel
- an extensive library of voice prompts for security and automation operation, programming, and system status feedback
  - 250 system words for pre-programmed system functions
  - 240 word library for user programmable voice prompts for Automation Item Labels, Automation Mode Labels, Partition Labels, and Zone Labels
- program up to 6 words per voice label
- powerful 'say number' command can announce numbers from 0-999 in three different ways
- connect up to 1000' (305 m) from control panel via KEYBUS
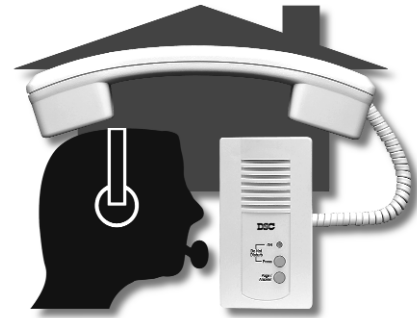- module current draw : 150 mA @ 12 VDC

## ESCORT 5580TC

- all the features of the Escort 5580 *plus* thermostat control
- supports up to *four* EMS-100 thermostats
- EMS-100 has 4 temperature control modes :
  - day occupancy mode
  - night occupancy mode
  - auxiliary occupancy mode
  - away occupancy mode
- each thermostat optionally supports :
  - up to six EMS-IDS remote indoor temperature sensors for interior temperature averaging
  - one EMS-ODS outdoor temperature sensor for display of outdoor temperature

## PC5928 Audio Interface Module *with* PC5921 Series Intercom Stations & PC5904 Two Way Listen-In Stations

### PC5921 Internal Intercom Station

*also available :*

PC5921EXT…external intercom station

PC5921EXT/R…external intercom station with relay for operation of existing door bell

- **PC5928 Audio Interface Module**
  - provides 7 output ports for connection of PC5921 Series Intercom Stations
  - connect up to 1000' (305 m) from control panel via KEYBUS
- **local intercom functions :**
  - page/answer
  - do not disturb
  - doorbell function
  - door strike release
- **listen-in broadcast** …allows any station to be programmed as a 'broadcast station' to which all other internal stations in the system may listen in
- **programmable as sounder for fire/burglar alarms**
- **answer telephone calls received on regular voice line**
  - ringing programmable by station
  - supports call waiting
  - allows call transfer to in-house phones
- **audio user help**
  - provides plain language prompts for system programming, operation, and system status reports when installed with Escort 5580 Voice Prompt Module and keypads mounted with PC5921 Intercom Stations
- **PC5904 central station 2-way listen-in station**
  - programmable control tones (from central station)
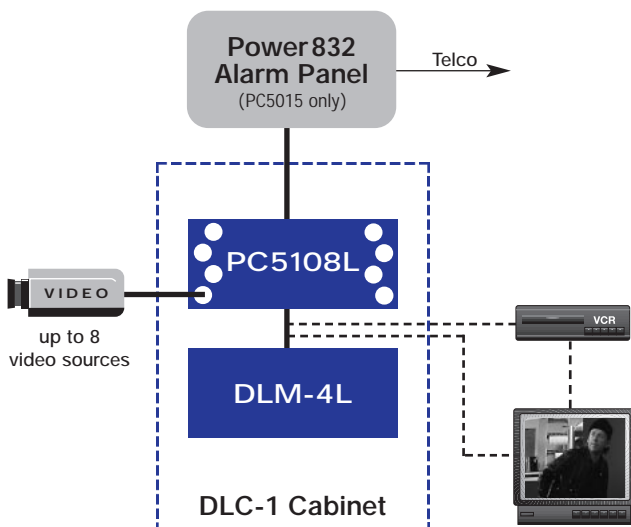  - select zone, listen/talk, extend on-line time, hang up

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## PC5108L Downlook Interface Module
### ***for PC5015 only***

- provides an interface between the PC5015 alarm control panel and the Downlook DLM-4 still frame video transmission module
- communicates alarm followed by video over a single telephone line in one transmission to a Sur-Gard MLR2 digital receiver
- 8 inputs for video cameras, VCRs, or video switchers
- 8 general purpose burglary or fire alarm zone inputs
- any alarm zone (up to 32) or group of zones can be programmed to initiate video capture of 4 frames from any 4 sources - in any sequence
- programmable on-site sequential video switcher mode
  - view and capture images on a monitor / VCR setup
  - select cameras for viewing manually using an LED keypad or program system to switch automatically between selected cameras at programmed dwell times
- supervised by main panel
- programmable via downloading using modem or direct PC-Link
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 60 mA @ 12 VDC

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## PC5204 Power Supply / High Current Output Module

- provides 1 A @ 12.5 VDC auxiliary power for additional modules and devices
- includes 4 fully programmable high current outputs
  - rated at 1 A @ 12 VDC, PTC protected
  - will provide 3 A short term if battery backup connected
  - each output can sink up to 3 A
- output #1 may also be used as a supervised bell output
  - 700 mA max
- each output programmable to activate for any of 24 options
- connect up to 1000' (305 m) from control panel via KEYBUS
- fully supervised for : tamper, low battery, AC power loss, and auxiliary power trouble
- maximum 1 module per system
- module current draw : 20 mA @ 12 VDC
- battery required : 4 Ah minimum
- transformer required : 16.5 VAC, 40 VA

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## PC5208 Low Current Output Module

- module provides 8 low current transistor switch outputs
  - each output can sink up to 50 mA
  - up to 250 mA max at one time
- each output programmable to activate for any of 24 options
- connect up to 1000' (305 m) from control panel via KEYBUS
- fully supervised for tamper
- maximum 1 module per system
- module current draw : 20 mA @ 12 VDC

—— Note ——

**Power832 Engineer's Specifications are available on :**

- **separate copy**
- **DSC's web site 'www.dscsec.com'**

Power 832 Alarm Panel (PC5015 only) → Telco

PC5108L

VIDEO — up to 8 video sources

DLM-4L

VCR

DLC-1 Cabinet