

INDUSTRIAL / COMMERCIAL / RESIDENTIAL

128 Zone Video Controller

System Overview

The PCX-128VID allows full integration of an intruder and CCTV system, combining both external and internal protection. If you are using video monitoring transmission equipment, triggered by external detectors, the PCX-128VID enables the integration of these products to meet BS 8418.

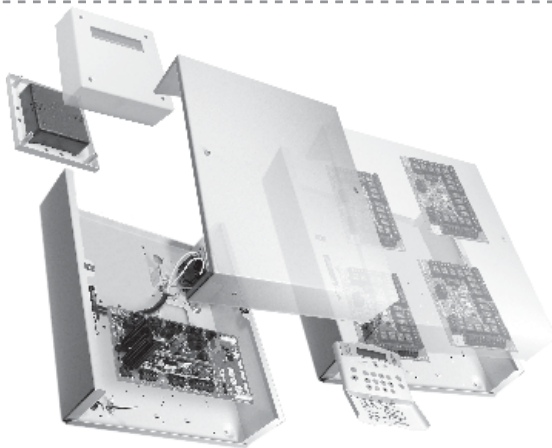
The compliance to BS 8418 is becoming more widespread with the requirement to assign URNs (Unique reference numbers) to installations that require transmission to an RVRC (Remote Video Response Centre) over the telephone network.

Each PCX-128VID is supplied with:

- PCX-LCD/EN Keypad with integrated Proximity Reader
- PCX-052 Digi modem card
- MSX-128 Software card supplied on commissioning of system

The PCX-128VID offers full compliance to both:

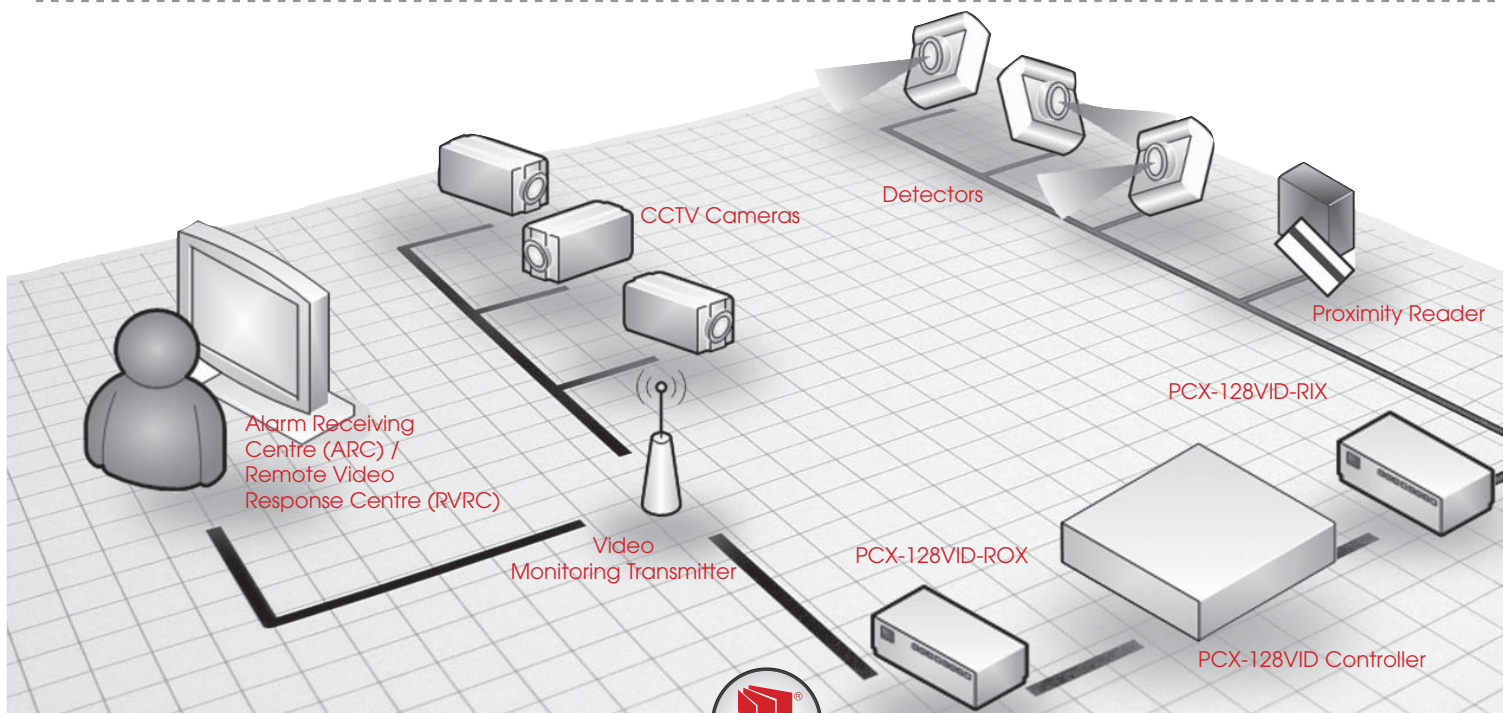
- BS 8418:2003 Code of Practice for Monitored CCTV Systems
- DD 243:2002, EN50131-1 for Monitored Intruder Systems



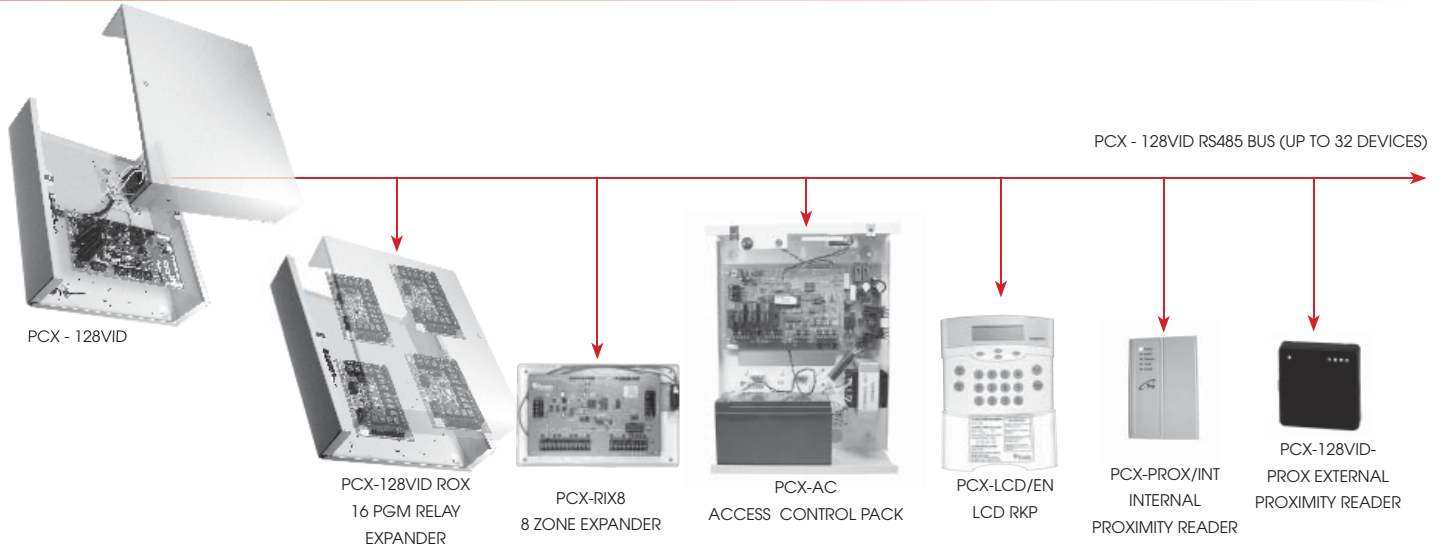
Main Features

- Integrated CCTV controlling feature
- 8 Master partitions or arm modes
- 15 Proximity Reader sub-partitions
- 64 Shunt zones
- 8 Fully programmable zones expandable to 128
- 193 Programmable relay outputs (PGM)
- Contact ID, Fast Format
- On-board diagnostics
- Intelligent arm
- 230 User codes
- 20 Duress or patrolling codes
- 2000 Memory event log
- Non-activity timer
- Programmable arm/disarm calendar time window
- Full electrical remote diagnostics
- External Proximity Reader
- Up to 16 arm points
- DD243, BS 8418 compliant
- Up/download capability

Video
Controller



Bus Diagram



Maximum number of components on the bus

Component		Max	Max Combo.
PCX-LCD/EN	LCD Keypad with in-built Prox Reader (2 to 10 zones & 1 PGM in each RKP)	9	16
PCX-PROX/INT	Internal Proximity Reader (7, up to 15 if LCD RKP is not used)	15	

Component		Max	Max Combo.
PCX-RIX8	8 Zone Expander Module (4 outputs)	14	14
PCX-128VID-PROX	External Proximity Reader	7	7
PCX-128VID-ROX	16 Relay PGM Module	8	8
PCX-AC	Access Control Pack	15	15

COMPLIANCE

UK	DD243
Europe	CE

PYRONIX PRODUCT CODE

FPPCX128VID

PACKING INFORMATION

Min Pack:	1
Pack Weight:	5.934 Kg
Warranty:	2 Years
Manufactured:	UK

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128 Zone Video Controller

Product Features

Features	Description
Integrated CCTV controlling feature	The PCX-128VID allows full integration of an intruder and CCTV system, combining both external and internal protection
8 Master partitions	The system can be divided into 8 fully independent subsystems with independent zones, user codes, keypad timers and options.
8 Arm Modes or	Alternatively, all 128 zones can be configured in a different way for each arm mode to create 8 different home and away combinations to satisfy end user requirements
15 Proximity Reader sub-partitions	The system can be divided further into 15 sub-partitions. This is achieved by using separate arming points such as the Internal Proximity reader.
64 Shunt Zones	This is an alternative method to divide the system to up to 64 completely separate sub-systems controlled by 64 arming points connected to the Shunt Zones
193 Relay PGMS	With this unique output module, installation is made as effortless as possible. It eliminates having to use standard transistor outputs and fitting relays to them, allowing the easy switching of electrical devices within the system
Non-activity timer	If there is no activation within a timeframe it will report to the Alarm Receiving Centre (ARC). Each CCTV zone has a timer inactivity facility such as being blocked or sabotaged
External Proximity Reader	IP65 rated Prox Reader with tamper protection. 2 LEDs on the exterior clearly indicate the status of the system when a Proximity Card is presented to the reader
Keypad with Integrated Proximity Reader	Each keypad has an in-built Proximity Reader as well as 2 zones and 1 PGM
Zone loop configuration	Zones can be individually configured as DEOL, SEOL, N/O, N/C
Intelligent arming	The user can offer the card / fob to the reader and the system will automatically transfer to a full arm if the user continues through the front door or will part arm if they go upstairs
Contact ID, Fast Format	Full event reporting over the telephone line to the Alarm Receiving Centre (ARC)
SMS messaging	In the event of an activation an immediate SMS message will be sent to the user and / or keyholders detailing site and zone names
Full Electrical Remote Diagnostics	All the Video Controller calibrated diagnostics may be read at the keypad. The same diagnostics can also be obtained by using the UDL software locally or remotely. The diagnostics will show all zone resistances for the PCX128-VID end station, all remote zone expanders and keypad zones. The PCX-128VID end station voltage and current reading may be read and this also includes any intelligent remote power supplies which are connected via the PCX 485 Bus. In addition, the PCX128-VID partitions can be remotely armed / disarmed and the outputs can be switched remotely.
Insite UDL software	It enables the full remote diagnostics of the system including measuring current, voltages and resistance of all the hardware inputs and outputs loops included in a system. It allows arm and disarm and remote engineer reset

Electrical

ZONES	
Number of programmable zones	128 Zones
Zone loop configuration	DEOL, SEOL, N/O, N/C
Zone current loop	1.9mA
Normal zone loop timers	100-3000mS (programmable)
Zone wire resistance	<1k5

DEOL ZONE ACTIVATION RESISTANCE	
Short Circuit	<1k4
Normal	1k5-4k2 (normal 2k2)
Activated	4k3-25k
Open Circuit	>25k

SEOL ZONE ACTIVATION RESISTANCE	
Short Circuit	<1k4
Normal	1k5-4k2 (normal 2k2)
Activated	>4k3
Open Circuit	>4k3

PGM OUTPUTS	
PGM 1 & 2	800mA, fused
PGM 3	100mA, current limited
PGM 1 (at keypad)	100mA
PGM 1 & 2 (at Prox Reader)	100mA
PGM 1 & 2 (at TMZ Zone Expander)	100mA
PGM 1 - 4 (at 4 Zone Expander)	250mA
PGM 1 - 16 (at 16 Output Expander)	250mA

DIGITAL COMMUNICATOR	
Digital Communicator	Analogue
Lightning protection	6.75kV/125Amps

POWER SUPPLY	
Power Input	17V AC
Low Voltage Output	10.5V DC
Max Capacity power output (inc panel)	2.5A (1.5A continuous)
Max power for external devices (exc. battery)	2.5A (1.5A continuous)
Transformer	Primary: 230V AC, 50Hz, 20W Secondary: 17V AC, 1.25A

CURRENT CONSUMPTION	
PCB alone	90mA
PCX-LCD/EN LCD Keypad	Quiescent 150mA (backlight on) 10mA in alarm state
PCX-PROX/INT Internal Prox Reader	60mA
PCX-128VID-ROX Relay	40mA
PCX-128VID-PROX External Prox Reader	60mA

BATTERY	
Capacity	7.0Ah or 17Ah
Protection on Battery Terminals	Short & reverse
Battery Charge under intelligent control	750mA

FUSE PROTECTION	
All on-board fuses	800mA
Battery fuse	3.15A

ENVIRONMENTAL	
Operating Temperature	-10° to +55°C
Storage Temperature	0° to +30°C

Accessories

Product Name	Product Description	Pyronix Product Code
PCX-128VID	128 Zone Video Controller Includes: 1 x PCX-LCD/EN LCD RKP with Integral Prox Reader 1 x PCX-052 Digi Modem Card	FPPCX128VID
PCX-128VID-ROX	16 Relay Output Module (ROX)	FPPCX25100
PCX-128VID-PROX	External Proximity Reader IP65 Rated	FPPCX25200
PCX-LCD/EN	Additional LCD RKPs with Integral Prox Reader	FPPCX021
PCX-PROX/INT	Internal Proximity Reader	FPPCX022
PCX-PTAG	Pack of 5 Prox Tags (For use with Internal & External Prox Readers)	FPPCX023
PCX-RIX8	8 Zone Expander Module (RIX) Each input can be mapped to any output	FPPCX031
PCX-RIX8/PSU	8 Zone Expander Module (RIX) c/w 1.5 amp PSU Each input can be mapped to any output	FPPCX032
PCX-PROXSHROUD	Metal Shroud For External Prox Reader	FPPCX037
PCX-TCPIP	IP Card	Information on request
PCX-CABINET	PCX Metal Housing Metal housing to hold 4 Relay Output Modules (ROX) providing a total of 64 outputs	FPPCX039
PCX-RS232L	RS232 - PC link cable Allows local programming	FPPCX055
PCX-AC	Access Control Pack 1 Door unit plus IP65 rated External Reader	FPPCX060
INSITE	Up/downloading Software	Information on request
ARM	Automatic Remote Maintenance Software Enables remote servicing and maintenance	Information on request
PCX-INST-CD	A collection of software and manuals for the PCX-8128 panel including INSITE-UDL programming software	FP12000

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As part of the continued development programme
specifications may change.

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