CPD3000 System
Networked Surveillance

- **Monitor an entire prison from a single location**
- **Detects both 2G & 3G mobile phone activity**
- **Licence Free Radio link with a max range of 5km**
- **Easy installation**
- **Can identify phone usage down to an individual cell**
- **Provides reports on how, when and where phones are used**
- **Different types of detectors can be used on the same system allowing for new emerging technologies – Future proofing**

To combat the use of illicit mobile phones in prisons, PDA Electronics has developed the multi-purpose CPD3000 System which can monitor large areas for active cellular devices from a single location. The system is already in use in numerous UK prisons and is constantly evolving as new threats emerge.

The CPD310 hub (shown above), can link link to remote detectors via radio to distances of up to 5km . All remote alarm information is logged and a special purpose printer provides a hard copy output. Alternatively the logged data can also be written onto a memory stick allowing quick computer analysis of reported alarms and augments traditional intelligence gathering methods.

The CPD3000 is designed for both permanent and/or temporary installations. With no wiring issues to worry about, CPD351 detector units can be quickly located in areas where early detection of cellular activity is required.

A CPD351 can be adjusted to monitor cellphone traffic from a complete wing to just a few cells. To hep identify areas of activity more than one unit can be used in a wing to help triangulate the source of the mobile signals.

The CPD351 can also be located outside to cover areas such as market gardens close to the perimeter fence. The system can then detect outside sources liaising with prisoners via a cellphone prior to throwing contraband over the wall / fence.

For monitoring individual cells, the CPD356 is an ideal product. This is used to monitor known offenders and let staff know instantly when a phone is being used. This enhances the chance of recovering the unit before it can be hidden. It's magnetic fixing allows the unit to be placed on a cell door just above the bottom gap and is designed to detect GSM signals leaking from under the door. To camouflage to the unit a small cover can be placed over the unit which is painted to the same colour of the door.

Sensitivity can be adjusted to suit local requirements.

The CPD3000 system allows a small team to provide the most intensive surveillance of prisoners and the instant detection of any cell phone traffic. The system is completely modular so can be expanded as and when required. Small portable systems are in use with regional dog teams providing even greater flexibility especially to smaller establishments.

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Our Products

CPD351 Remote Detector
Main detector unit can be set to monitor an entire wing for mobile phone activity. The detection range (sensitivity) can be adjusted to suit local requirements

Using directional antennas allows the unit to monitor specific areas.

Internal rechargeable batteries will give an operational life of better than 4 days on a full charge making deployment much easier.

Additionally the unit monitors frequencies from 400-500MHz which are used to suppress false alarms generated by harmonics produced by prison radios. The unit is also fitted with anti-tamper measures to prevent unauthorised interference with the detector.

CPD356 Cell activity detector
Small detector designed to clamp magnetically to a cell door and pick up GSM signals radiating from within a cell. The unit which measures 65 x 90 x 27mm is powered by 2 x AA batteries for up to 1 month of continuous operation. Sensitivity is adjustable to suit conditions.

CPD391 Repeater Unit
Used when wing construction prevents direct access between detectors and the Hub. The repeater is then located in the roof area to pick up local signals and relays these signals back to the hub via an external antenna.

CPD310FD Flash Drive Unit
Plugs into the Printer port of the 310 hub and supports the normal printer as well if required.

Supports flash drives up to 4Gb. The unit provide complete synchronisation with the hub even when the drive is removed and then later replaced. The FD unit automatically loads the drive with any missing alarms. The generated files are text files (.txt) which allows data to be input into programs like Excel or I2 for analysis.

CPD310 Hub Unit
The link protocol is specially designed to facilitate high transmission efficiencies which allow up to 200 units to be support from one hub. Multi-tasking software allows for the reception of up to 15 simultaneous alarm transmissions. Up to 4096 alarms can stored within the hub which can be recalled if additional reports are required.

Display: 2 x 16 line LCD (white display on blue background with backlight)

Battery backed Real Time clock for accurate logging.

A plug in Dongle to restrict access to management controlled features.

Printer port: Supplies both power and data to attached thermal printer

Printer: Thermal printer producing a printout on a $2\frac{1}{4}$ inch wide (58mm) paper roll. Alarm printout details the time off the event, the detector number, type of alarm, duration of alarm and the signal strength of the detected phone. Each paper roll can hold over 3000 printouts at a cost of less than 50pence.