

Think smart
technology.
Think SecureGuard.

SecureGuard[®]

Portable electronic cash protection



ADVANCING SAFETY THROUGH TECHNOLOGY

SecureGuard®

Portable electronic cash protection

What makes SecureGuard® the intelligent choice?

The premier product in bank note protection, SecureGuard provides fully automated functionality and visual verification of status.

Fully defended against attack

- Unique patented liquid staining system
- All monies stained as a result of attack will be reimbursed by the relevant banking authority

Holistic Security Approach

- On the premises
- Across the pavement
- In transit
- SecureGuard reduces the threat that money represents by its ability to render the money useless in the event of an attack
- Panic code optional in event of a robbery
- Alarm interface
- Flexible finance options
- Greatly reduces cash handling
- Anti-Theft-Trigger or Timer option

Easy to Install

Configurable to specific clients operational requirements via a powerful Software Management System

- Optional computer generated codes
- Full audit trail for procedural verification
- Full diagnostic system
- Limited payload access
- Optional sameday banking
- Optional SecureTerminal - full audit trail on deposits
- Web ready



TECHNOLOGY
TOP • 100

The **SecureGuard®** is an award winning intelligent cash protection product that functions universally for:

- **CPC (Cross Pavement Carriers) organisations protecting cash in transit, in storage and across the pavement between clients and security vehicles and vice versa.**
- **Retail organisations protecting cash on the premises for periodic collections by CPC organisations or Drop-Safe type protection.**



A specialised plastic alloy enclosure incorporates "state of the art" Internet Communications Ready electronics that control the functions of the **SecureGuard®**. The **SecureGuard®** is the primary cash protection product, and is the mechanism to destroy or mark cash permanently with an internationally patented liquid dye dispensing system, the SecureJet®. In the event of attack or unauthorised access to the payload. Optional visible smoke

and heat generators supplement the ability of the **SecureGuard®** to provide an impenetrable, secure and self-protective device.

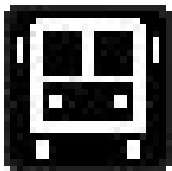
The **SecureGuard®** forms part of a specially designed environment and interacts with various other products, interfaces and custom management software to accomplish the complete solution to cash protection.



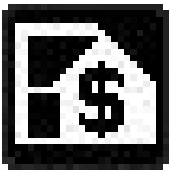
The **SecureGuard®** is designed to function in the following environments associated with cash handling movements:



DEPOT - This environment is the primary environment or premises of CPC organisations using the **SecureGuard®** and associated equipment.



VEHICLE - This environment is the "in transit" environment in which the **SecureGuard®** is transported in a security vehicle en route to various other environments (banks, clients, etc.).



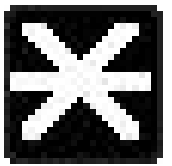
BANK - This is a secure banking environment where the **SecureGuard®** payload is removed for verification and deposited into client bank accounts, or loading of cash payload for delivery to retailers or clients.



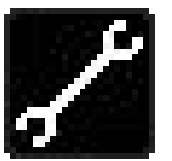
CLIENT - The client environment is primarily for collection of cash. At periodic intervals cash can be collected in the **SecureGuard®** at the client premises using a CPC or Retail Application.



CPC - The **SecureGuard®** is carried by a CPC operator between environments in public. Anti-snatch or robbery sensors are active to prevent forceful takeover.



MULTIPLE - This environment provides for specialised movement of the **SecureGuard®** when a special environment is required to add flexibility and expansion to the system.



PRODUCTION - This environment is an approved Technical Centre. The **SecureGuard®** enters this environment if system failure occurs or periodic maintenance is required.

To enable the **SecureGuard®** to move and interact with the various environments, a user specific ROUTE is programmed and stored in the **SecureGuard®** electronic memory storage. This route is specific to user requirements and can be tailored to suit the cash handling requirements. The specific route is designed and verified on the **SecureConnect®** Software Management System. Once verified, the route will be downloaded via **SecureConnect®** to the **SecureGuard®**. The following list of associated equipment is required for the total operation of the **SecureGuard®**. The number and options of products required depend on the design of the system and user/client requirements:

SecureGuard® Mounting Tray

Product Number	028-002-500
Options	On-Board Charging Single Communications Network Communications Protective Cover

The Mounting Tray is a universal “Docking Station” for the SecureGuard® in different environments. This Mounting Tray is statically floor mounted in either of the following environments:

- Depot
- Vehicle
- Bank
- Client
- Multiple

The environment type of the Mounting Tray is set and adjustable via **SecureConnect®**.

A *Protective Cover* can be fitted on the Mounting Tray to protect the SecureGuard® in various environments (Part Number 028-002-406). This option also allows for single wall mounted applications.



Code Key Reader

Product Number	028-018-100
Options	NONE
<p>The Code Key Reader captures Code Key information. The Code Keys are a method of authorised entry to the SecureGuard® in secure environments.</p> <p>Whilst performing a function for Code Key capturing, it also serves as a communications link between SecureConnect® and the Mounting Tray to establish communication with the SecureGuard®.</p> <p>Colour coded Code Keys are associated with different environments and levels of access can be assigned from SecureConnect®. The security values of the Code Keys are stored in the SecureConnect® database and can be downloaded to the SecureGuard® when required.</p>	



SecureConnect®

Product Number	028-002-026
Options	Route CAD
<p>SecureConnect® is a SECURE Software based Management System that controls all the aspects of the SecureGuard® functions.</p> <p>Environments, Products, Security Routes, Communications, Event Logs, etc. are managed via SecureConnect® through Single / LAN / WAN and WWW Networks.</p>	



Network Racking

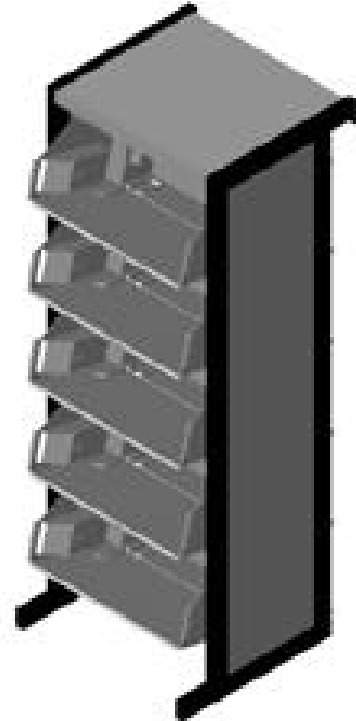
Product Number	028-002-279
Options	On-Board Charging Network Communication

The Network Racking system is a convenient method of storing the SecureGuard® system, thereby utilising minimum floor space in small areas.

The mounting trays are mounted inside the racks and interconnected for network communication via SecureConnect®.

Charging capability is added to charge the SecureGuard® *battery* for operation.

5 Tiers are available and can be modularly integrated to form a larger system with 5 tier increments.

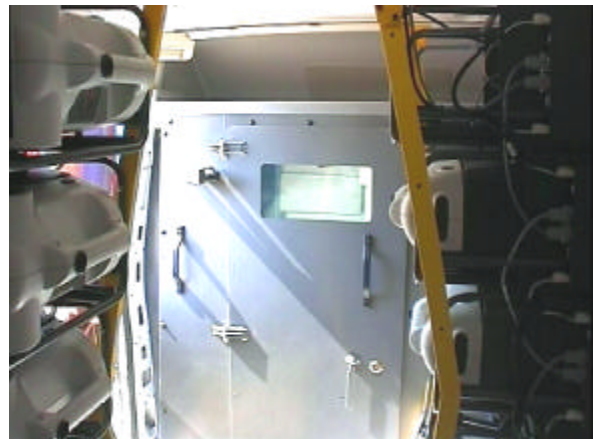


CIT Vehicle Racking

Product Number	028-002-TBA
User Reference	N/A
Options	On-Board Charging Network Communication

The Vehicle Racking system is a convenient method of storing the SecureGuard® system, thereby utilising minimum floor space in vehicles.

The Mounting Trays are mounted in the racks and are interconnected for network communication via SecureConnect®. Charging capability is added to charge the SecureGuard® *battery* for operation.



The Vehicle Racking system is not a standard product and requires custom design for various vehicle makes and models.

SECUREGUARD® FUNCTIONAL OVERVIEW

The **SecureGuard®** has two major modes of operation, namely “Armed” or “Disarmed”. In Armed mode the **SecureGuard®** is in a state of maximum protection with the defence mechanisms active. This mode is used when cash payload is in the **SecureGuard®** for protection. The Disarmed mode is used when the **SecureGuard®** is not required to monitor attempts of attack or unauthorised entry to secure environments.

In Armed and Disarmed modes, the **SecureGuard®** has a number of different states. These states are the various possibilities of the **SecureGuard®** components and sensors set active or inactive.

These states are the building blocks for designing a route on the SecureConnect® Route CAD. The route depicts the way or procedure in which the **SecureGuard®** is handled and moved between different environments. Each position in the route is a change in state of the **SecureGuard®**. This route is designed and downloaded from SecureConnect® to the **SecureGuard®**.

The **SecureGuard®** components and sensors induce a change of State in the **SecureGuard®**. The components and sensors are individually set or selected for each state from the SecureConnect® Route CAD. These components and sensors are:



The Access Door Opening and Closing for cash payload loading or unloading.



The on-board Battery for power saving and activations on battery low conditions.



Transit Trigger Pressed or Released.



Code Key inserted into the Code Key Socket.



SecureGuard® placed or removed from a Mounting Tray.



Mounting Tray Tamper to detect forced removal of the SecureGuard®.



External Charge input for Battery charging.



SecureConnect® communication routines.



Motion detection via the on-board Motion Sensor.



Tamper Foils for detecting forced entry to the SecureGuard®.



Moisture Sensors to detect water or fluid ingress.



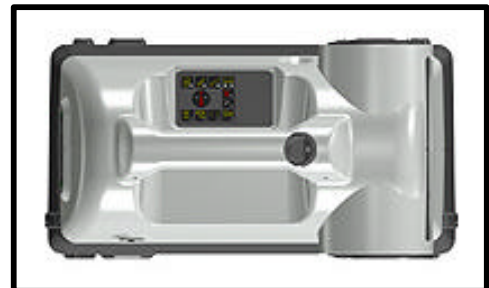
Temperature Sensor to detect operational temperature limits.



State Timers and Timer Variables from the on-board Real Time Clock.

In all the system states, these components and sensors can be selected and pre-set in a route with four groups of state variables, namely:

- Battery Management Variables
- CPC Timing and Event Variables
- Functional Variables
- Activation Variables



Each state has permitted exit points to change to an alternative state in the route when one of the above components or sensors is interrupted. The SecureGuard® will transfer to the following state in the route in the event of interruption.

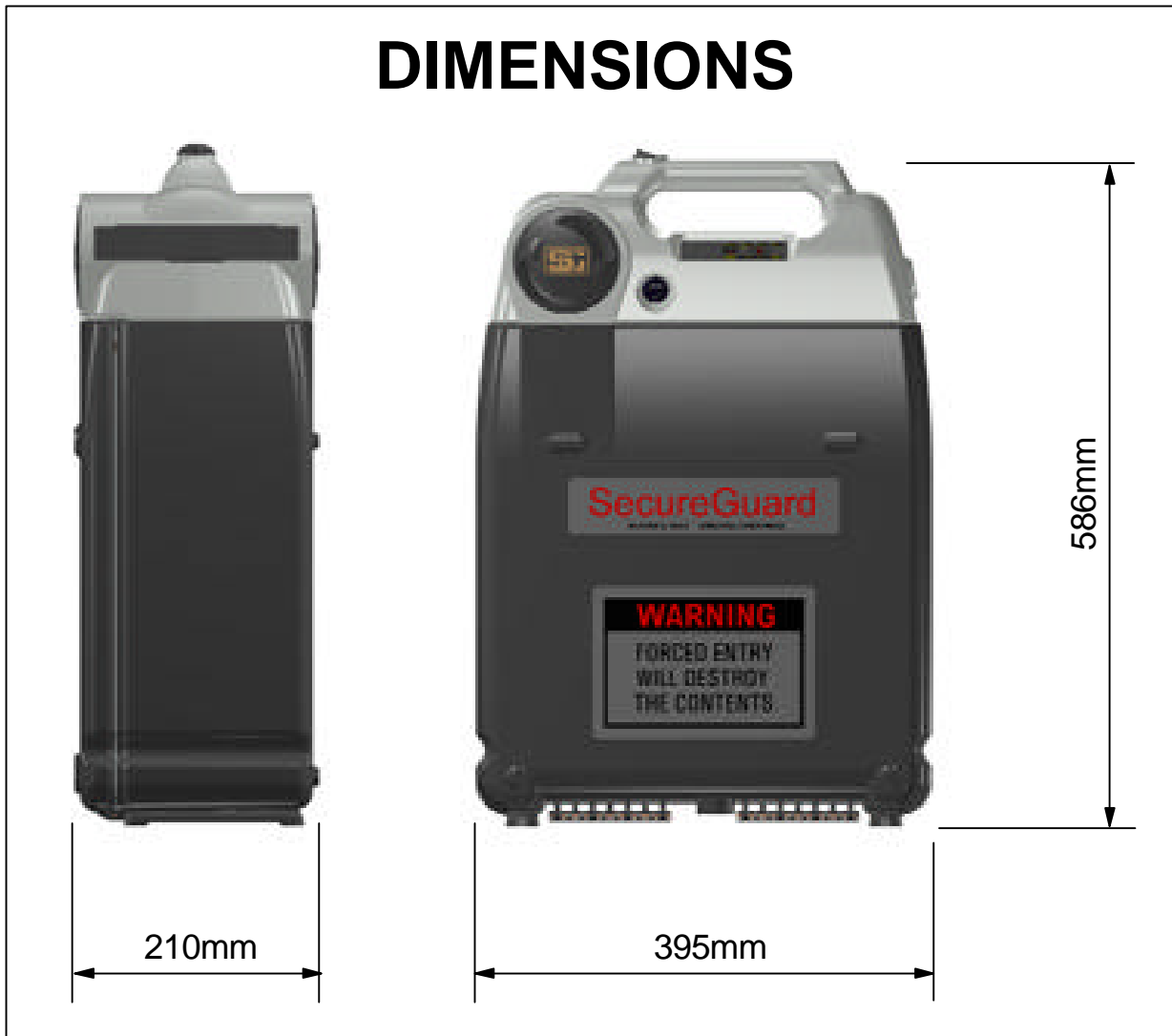
For example, when a SecureGuard® is docked in a client mounting tray, fully armed and locked, it will be in a specific state. When a valid code key is inserted in the code key socket, the SecureGuard® will disarm and unlock which presents a different state. When the SecureGuard® is then removed from the client mounting tray, it will enter yet another state.

PRODUCT DATA

SPECIFICATION	VALUE
Cash Handling Applications	CPC & Retail
Cash Loading Methods	Access Door & Deposit Slot
First line of Defense	External Visible Smoke *
Tamper Bag Removal	Heat Generators *
Staining Mechanism	SecureJet® Liquid Dye
Communications	LAN / WAN / INTERNET TCP/IP
Event Log	500 Events
User MMI	Icon Display and variable Sounder
Payload Cavity	300mm Wide x 350mm High x 140mm Deep
Access Methods	Security Code Keys Mounting Tray SecureConnect®
Activation Events **	Forced Entry Transit Trigger (6) Release Battery Low Liquid Ingress Excessive Temperatures Excessive Motion Forced from a Mounting Tray Mounting Tray Tamper State Expiry Timers Remote Activation *
Maintenance Cycles	Daily visual Inspection Annual Diagnostics Bi-annual Consumable Replacements
Maintenance Logistics	Electronic Flagging from SecureConnect®
<p>* <i>Optional Devices</i></p> <p>** <i>Adjustable via SecureConnect®</i></p>	

PHYSICAL DATA

DIMENSIONS



SPECIFICATION	VALUE
Height	586 mm (23.07")
Width	395 mm (15.55")
Depth	210 mm (8.26")
Weight	8.5 Kg * (Without Cash Payload)
Material	Polycarbonate - ABS Plastic Alloy
* Depending on Optional Devices	

ELECTRICAL DATA

SPECIFICATION	VALUE
Power Supply	Rechargeable 12V - 2 A/H Sealed Lead Acid Battery
Operation Time	4 Days * (Without Sleep Mode)
Re-Charge Period	4 Hours
Charging Requirement	14.5V DC (+500mV / -300mV) @ 500mA Max.
Sounder	100 dB - 120dB Max.
<i>* Depending on Operational Conditions and Route</i>	

ENVIRONMENTAL DATA

SPECIFICATION	VALUE
Operating Temperature	0°C to 50°C
Humidity	90 %