A close-up photograph of a metal shopping cart wheel on a floor. The floor is covered with a complex, maze-like pattern of lines and shapes, which is the focus of the advertisement. The cart's metal frame is visible in the upper right corner.

COMPREHENSIVE SHOPPING CART CONTAINMENT

GS² System



ABOUT GATEKEEPER SYSTEMS

Recognizing the significant impact of shopping cart loss on retailers, Gatekeeper set out in 1996 to design and develop a cart containment system that would provide technological sophistication, intuitive usability, and effortless maintenance. That original vision is now an international reality. With over 1000 installations worldwide, the proven success of the Gatekeeper solution has made us the market leader with a global customer list that includes the biggest names in retail. From the first handmade prototype to today's industry-leading line of cart-based technology solutions, Gatekeeper's industry insight, spirit of innovation, and strong commitment to our customers continues to lead the way in retail loss-prevention.

THE PROBLEM FACING TODAY'S RETAILER

Few tools could be more critical to your day-to-day operation, yet they are often taken for granted...until they're gone. Whether stolen, damaged, or destroyed, cart loss poses a significant threat to your profits. Retrieval, repair, and replacement costs translate into a substantial revenue drain. And, the problem doesn't stop at the bottom line. Inventory shortages affect customer satisfaction and stray carts create a nuisance for the surrounding community in addition to posing serious liability risks.

KEEP YOUR FLEET WITH THE GS² SYSTEM

Fortunately, there is an effective and affordable way to keep your cart fleet where it belongs. The GS² System combines a digital locking signal, embedded perimeter antenna, and Gatekeeper's patented self-braking wheel to provide the most effective and easy-to-use shopping cart containment solution available. Outdoors or indoors, wherever you need to contain your carts, GS² is the invisible barrier that protects your bottom line from the costs associated with repairing, retrieving, and replacing your valuable inventory.

THE GATEKEEPER ADVANTAGE

When it comes to usability, flexibility, and service, the unique advantages of GS² are unmatched in the industry.

- Totally wireless reset. No bending, no lifting, NO HASSLE!
- Standard-size wheel fits virtually any cart and can be installed in the field or at the factory
- Fully-serviceable wheel enables quick-and-easy replacement of battery and tread
- Total Manufacturers Warranty with Comprehensive Service and Support
- Standardized wheel design enables implementation in multiple store environments, be it outdoors, or indoors on any floor surface



GS²: A CLOSER LOOK

There are four main elements to the GS² System:

CENTRAL TRANSMITTER

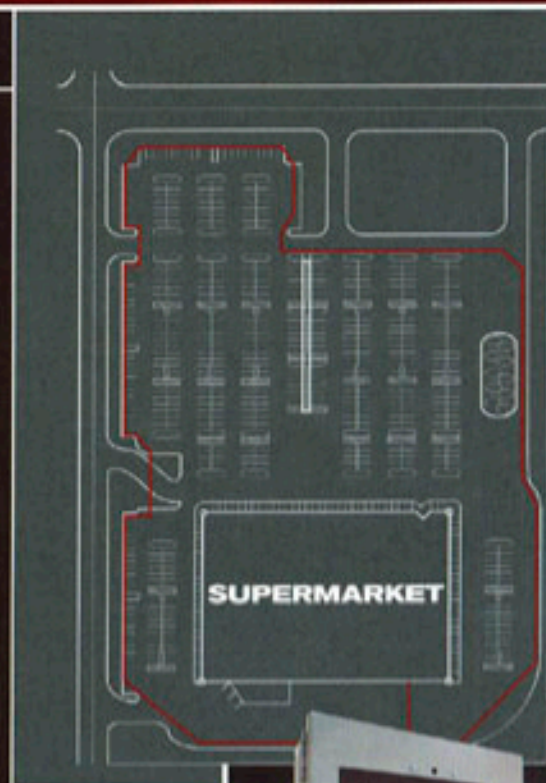
What is it? The Central Transmitter is a rugged, high-strength steel enclosure that houses the digital circuitry responsible for generating the locking signal.

What does it do? The unit transmits a digitally-encoded radio frequency (RF) signal that travels through a cable embedded in the ground along the designated perimeter boundary. The signal triggers the GS² Wheel installed on each shopping cart to lock whenever the cart reaches the boundary.

How is it installed? The Central Transmitter is typically wall-mounted in a secure area inside the store, most often in the receiving area or one of the store offices.

Key Features

- Visible/Audible alarm indicators for quick system status assessment
- Built-in surge suppression and protection from electrostatic discharge and lightning strikes



CENTRAL TRANSMITTER

GS² WHEEL

What is it? The brain behind the best cart containment system available, our patented self-locking wheel features advanced digital circuitry, durable housing, and the look and feel of a standard shopping cart wheel. GS² is a standard-size wheel with built-in RF antenna, microprocessor, and motor-driven brake band. The internal components are protected by glass-reinforced hubs, double-sealed against damage and moisture.

What does it do? Upon reaching the Perimeter Antenna, the GS² Wheel receives the locking signal, triggering the brake band to expand and bring the wheel to a gradual stop.

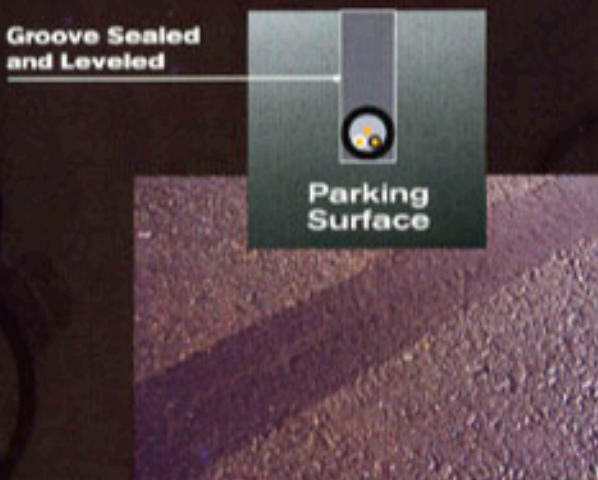
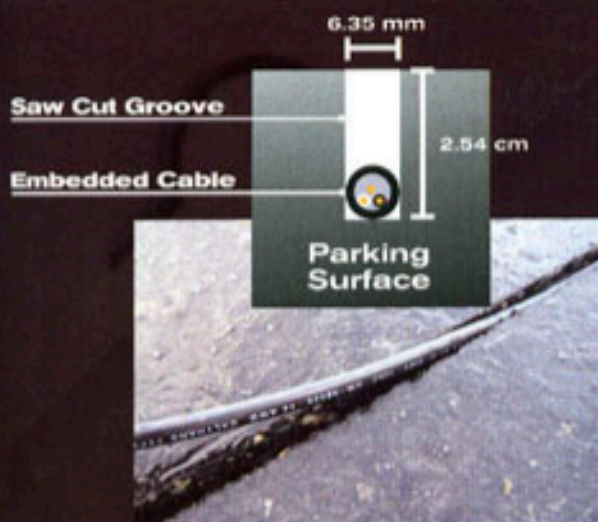
How is it installed? The GS² Wheel simply replaces one of the front wheels on existing shopping carts. The wheel comes fully assembled with its own caster and is easily installed on existing carts in the field or new carts at the factory.

Key Features

- Completely self-contained, internally-locking wheel enables 100% wireless unlocking
- Replaceable tread and battery enables efficient, cost-effective field-serviceability



GS² WHEEL



PERIMETER ANTENNA

What is it? An invisible barrier protecting your assets, the Perimeter Antenna is a 6.35 mm diameter double-insulated cable that runs from the Central Transmitter, around the perimeter boundary, and back to the transmitter.

What does it do? The Perimeter Antenna establishes the precise point at which carts will lock.

How is it installed? In order to embed the cable in the existing parking surface, a small, precision saw cut is made around the designated perimeter. The groove is 6.35 mm wide and 2.54 cm deep. After the cable is embedded, the groove is sealed to the original surface level with a weatherproof sealant to match the appearance of the surface—be it asphalt or concrete.

Key Features

- Double-insulated cable ensures durability and signal consistency
- Adjustable Very Low Frequency (VLF) signal causes no interference with other electronic devices
- Weatherproof sealant stands up to the most extreme conditions



CARTKEY

What is it? The CartKey is a hand-held, wireless remote control used to quickly and easily lock or unlock GS² Wheels. CartKeys contain a microprocessor that generates digitally-encoded signals transmitted via a self-contained RF antenna.

What does it do? The CartKey transmits its signal to the GS² Wheel, disengaging the brake band and enabling the wheel to roll freely again. Unlike other systems that require employees to bend down and manually reset a locking device, the GS² Wheel requires no manual intervention. The wheel is unlocked and ready to roll with one press of a button.

Key Features

- Simple Point-and-Click functionality; no manual intervention required to unlock carts
- 1.2 m signal range eliminates any physical impact on store employees
- High-strength, fiber-reinforced plastic and water-tight, shock-resistant rubber casing stand up to the rigors of daily use



GS² WHEEL

Form Factor:	Standard-size wheel with non-marring, anti-static rubber tread, sealed precision ball bearings, and standard caster
Dimensions:	125 mm x 31.75 mm
Power Source:	One replaceable 2/3A, 3-volt lithium battery with an average operating life of 3+ years
Microprocessor:	Digital programmable CMOS (low power consumption) microprocessor
Electronics Housing: (Hubs)	High-tensile strength reinforced plastic with glass strands for extra strength and durability; dual O-rings provide water-tight-seal
Load Rating:	81.6 kg
Battery Life:	Approximately 4,000 cycles (one lock & one unlock); 3+ year battery life at 3 cycles per day
Environmental:	Operating Temperature Range: -23°C to 60°C



CENTRAL TRANSMITTER

Form Factor:	High-strength steel enclosure protected by key lock
Dimensions:	31.75 cm high x 26.67 cm wide x 10.8 cm deep
Microprocessor:	Digital circuitry, factory-programmed and compliant with international regulations
Power Supply:	12-volt 110/220 Alternating Current transformer; UL/CSA/CE Certified
Signal Output:	GS ² signals operate at levels deemed by international regulatory agencies not to interfere with the operation of electronic devices, such as pacemakers and cell phones
Protection:	Built-in surge suppression protects against electrostatic discharge (ESD) from power lines and lightning strikes
Output Current:	500 mA maximum



CARTKEY

Form Factor:	Water-tight, high-strength plastic with shock-resistant rubber boot; touch pad features two individual sealed dome switches labeled "Lock" and "Unlock"
Dimensions:	15.8 cm high x 8.9 cm wide x 3.1 cm deep
Power Source:	Field-serviceable 2/3A, 3-volt, lithium battery identical to the one installed in the GS ² Wheel
Output Current:	138 mA
Frequency:	Below 9KHZ (VLF) in compliance with international regulations; no interference with other electronic devices
Signal Range:	1.2 m maximum range; optimal signal range: 0.45 m - 1.2 m



PERIMETER ANTENNA

Cable:	14-gauge (AWG), double-insulated wire
Dimensions:	Outside diameter: 6.35 mm
Signal Range:	Effective range of 1.5 m on both sides of the Perimeter Antenna cable; signal is fully adjustable via the Central Transmitter

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TOMORROW'S TECHNOLOGY FOR TODAY'S RETAILER



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