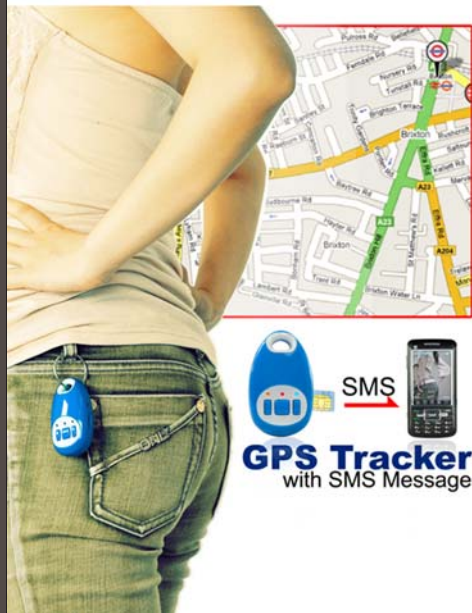


So You Want Security Systems?

By Colin Yeo



Whether it is the protection of your home, your car, your yacht or your loved ones, the state of the world today does compel one to wonder whether the traditional methods of protection are enough. While high walls and fences, and perhaps even security guards, still provide some measure of deterrence, rapid advances in technology have made improvements in a significant area: early detection of intrusion and alarm alerts. Obviously, the earlier one knows of a potential risk, the greater the choices of actions to thwart and negate the threat.

Technology and mass adoption has now made the defense systems we used to see in spy movies more readily available and affordable. It is worth taking a look at what is available and tailor a system that fits your needs without having to pay a high price tag.

The remote control that we typically use to open and lock our car doors has now been upgraded to incorporate biometric sensors, which require your finger print before any of the function buttons can be activated. It is about the same size as your current remote key except that there is now a small pad that you must first press with your thumb. It reads your print and compares it to thumb prints encoded in its memory chip. You can authorize and code additional thumb prints into its memory to allow for multiple users. If you happen to lose the remote key, any backing of the memory chip will immediately trigger an automatic measure of its programs, thus rendering the key useless. Fumbling with a traditional lock and key to your main house door or your garage door? Just change to this new gadget. Concerned

GPS Tracker with SMS Message

Derani Yachts

that someone can intercept the radio frequency signals from your remote to the door lock and thus know your code? Just ask for the advanced models, which feature code resetting each time you use the remote key. The used code is discarded and a new code is reset automatically, so anybody who tries to intercept the old code will not be able to use it.

Remember the movie where a burglar has to sidestep multiple zigzags of light rays to get to the prized jewels? A variation using a single light ray transmitter and receiver is now readily available and with an inexpensive price tag. Install several of these systems in your living room, kitchen or areas prone to intrusion. These serve as your second line of defense, so that even if the intruders manage to somehow get inside, they will unknowingly disrupt the light ray and trigger the alarms.

Global Positioning Satellite (GPS) technology, once reserved for exclusive use by the military, has been released for commercial applications, especially for navigational systems. New cars come equipped with such units that continuously monitor the car's position and together with a digital map provide a turn by turn guide to your intended destination. This GPS technology has also been harnessed to enhance security systems in some very creative applications.

To protect your car, you can now install a (GPS) tracker. This small, unobtrusive box is activated as soon as you park your car and turn the ignition off. If the car is moved, the unit sends a Short Message (SMS) to your mobile phone or to an emergency response center. Call into the unit and the unit responds with another SMS showing the latitude / longitude coordinates of its current position, which then allows you to locate your car in real time. As an additional feature, you can download the data from this unit to view the routes travelled by the car, the distance and the speed. Other than the obvious anti-theft and recovery applications, you can use the downloaded data to manage your vehicle fleet or feel at ease even when you loan out the car. The same tracker can be used on yachts, on buses and even for rental jet skis.

However, the Personal GPS Tracker takes the icing. The unit is about the size of a car remote key, so your child can easily carry one in a pocket or school bag. At any time, if you want to know where your child is, call or send an SMS to that unit, which will respond with the GPS coordinates. Key that into your digital map and you know exactly whether your child is where he/she should be or somewhere else. You can also set up a Geo-Fence, which is a rectangular grid of latitude and longitude coordinates.

ANTI-PIRACY SOLUTIONS



Inferno Mobile System

Recent Trends

In the past 5 years piracy has been steadily on the rise, with pirates using more sophisticated ways of coordinating attacks using cell phones, assault rifles and speed boats to board vessels.

Currently captains of vessels have little or no warning they are about to be hijacked and have little defenses, such as a water cannon.

Trying to repel a pirate with an M16 assault rifle is not wise.

Solution

In all security systems, time is the best weapon, if you can detect a threat before it boards your vessel this gives you time to react. This is pretty hard when the pirate is already on the bridge with a gun to your head.

Detection

By using artificial intelligent motion sensing software, you can instruct the system to ignore waves, clouds, even shadows. By linking to superior true day-night military use surveillance cameras, the software will pick up any anomaly that is not within the pre-set parameters. This means the system can detect a possible threat up to 5km away, giving the captain complete control to identify using the digital zoom function and to take action accordingly.

Repel Deterrent

Should the Captain decide the threat is real, he can set the system to Alert mode.

Alert Mode

In alert mode the system will automatically send SOS long/lat coordinates via a hidden independent GPS locator to a pre-determined home base to alert an emergency is in progress. The crew will be informed of the emergency via silent Alarm Tag (this also acts as a crew locator & time and attendance device) and instructed to move to a designated safe haven.



ngwps2

The system will record off line to a hidden DVR linked to the Internet with real time video recording on & off site. All data is backed up instantly to a land based secure server to ensure no data of the incident is lost.

Defense Line 1

Anti Grappling Rails: First & foremost, this is for larger vessels. This rail design repels grappling hooks and is a patented design. This has been tested by S.A.S. marines in the UK and it took them 20 minutes to breach the perimeter, how they did it is classified. Pirates will give up and pick on easier targets.



Inferno Mini - 3

Defense Line 2

Should they manage to breach the anti grappling wall, the stern, bridge, engine room and safe haven are protected by inferno intensos sonic barriers.

These patented systems have been tested by the U.S. State Department and are now being deployed in all U.S. embassies worldwide and many other high security projects.

If exposed to a sonic barrier, after 2-5 seconds disorientation of the human brain instructs the body to leave the area. This is a natural human reaction and cannot be overcome by putting your fingers in your ears. Safe havens are protected by acoustic walls, protecting crew and assets while repelling unwanted guests.

In Short

The system gives owners real time surveillance of their vessels, gives captains the means to identify a threat and video evidence of a breach of his vessel and records of actions taken, the more information the better. A window of time to react and repel assaults, without water cannons putting people in harm's way.

(For info on these products contact Anton at 081-273-1236, or eguard@yaho.com)

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International Yachtpaint

ASIA MARINE

When the person wanders out of this prescribed area, the unit sends you an alert SMS. Each unit comes with an SOS button, which when depressed continuously, sends alerts (with GPS-coordinates) to pre-programmed receivers, signaling a request for immediate assistance. This is a great personal safety application, whether going about a daily routine or on excursion trips. This Personal GPS Tracker can also be attached to pets by their loving owners.

Another inexpensive option is a face recognition system. Doors can be set to open only if the person's facial features match those saved in the system's memory. Similarly, there are yacht engines that will not start unless the device detects a pre-approved user's presence. Other uses include Automatic Teller Machines that not only require finger print verification but also matches face images. Consider this interesting development: A closed circuit camera (CCTV) captures moving images of customers walking in and out of a bank's main doors and compares these against face images coded in its memory, which usually will be the bank's VIP customers. Once a VIP's face is matched, the system sends an alert to the assigned bank officer who promptly walks over to greet the VIP customer, enhancing the level of personalized service to that VIP. A similar system is used in China to detect known pick-pockets on busy shopping streets. Upon a match, a police officer is summoned over to warn the potential offender.

Closed Circuit TV systems now come in a variety of sizes and applications. You can have the pin-hole variety, cameras that you can control remotely with tilt and pan functions, or even cameras that zoom in and out. In Singapore, working couples leave their loved ones in the care of their housemaid. To get peace of mind, cameras are installed that monitor what is going on at home, and these are directly ported to their mobile phones. Some senior managers even install these CCTV systems in their factory floors, allowing them to call up and view their production lines at any time, especially during night shifts. There are even stories of some car enthusiasts installing motion-sensing cameras, so they can capture images of people vandalizing their cars.

Whatever the application and whatever the level of security required, there is some technology out there that is either readily available off the shelves as standalone units or combinable units to provide a comprehensive defense architecture. With advances in electronics circuitry and software, these systems are not heavy on the pocket and usually represent a tiny percentage of the cost of a house, car or yacht. Of course, there is no price comparison for the protection of loved ones. A consultation with security systems advisors will probably be a good place to start understanding what is required and what is available.