Marine Magellan

Security + Monitoring
Overview of Marine Magellan

- 32 Zones, 8 relays, and 16 Users
- Built-in transceiver technology allows Marine Magellan to send and receive information to and from its wireless transmitters and wireless relays throughout vessel
- Combines security, monitoring and many Unique features you may never have associated with a vessel's security system.
- Completely independent solution from anything existing on the boat provides self-assurance of product.
- Operates on 433Mhz with each wireless entity on a “rolling” code making it able to penetrate bulkheads and large distances
- Range 125 ft with optional repeaters to 250ft
- Holds in memory the last 256 Events from disarming to alarm history. Information available in standard format and admissible in court.
Cell Phone and Landline calls

- Intrusion alarms when armed
- 24 hour High Water, Ships service Batteries, Smoke detectors alarms, Freezer Temperature, etc.
- Utility call outs for AC power loss/ restoration
Remote Call In Features and Control

Call Marine Magellan from any phone to:

- Check system status
- Arm or disarm the system
- Control lights, AC or even your ice maker
- Listen or speak to someone on board
- Leave a voice message
Wireless Transmitters
Remote Control Key Fobs

GMM-KF15

GMM-KF2
Interior Door Contacts

- GMM - DCLR
  Long-Range Door Contact

- GMM - DC
  Door Contact

- GMM - DCUS
  Ultra-Small Door Contact
Motion Detectors

- **GMM-MS1**
  Analog Single-Optic High Performance PIR
  (18kg/40lbs Pet Immunity)

- **GMM-MS2**
  Digital Dual-Optic High Performance PIR
  (40kg/90lbs True Pet Immunity)

- **GMM-MS-WR**
  Digital Dual-Optic High Performance Outdoor PIR
  (40kg/90lbs True Pet Immunity)
IP 67 Door Contacts

• Full IP rating sensor harsh Marine Environment

• Ideal for Exterior hatches, Engine Rooms, Crew Quarters, and swim platform doors

• Extension sensor options allow to installer to bury box while leaving the sensor exposed to door contact area.

• Stands up to heat in engine room
Extension Sensors

Provide an additional level of sensing capabilities to easily tie into our wireless sensors. Many of them with a 3 inch wide gap trigger for those particular yacht doors.

• Regular and Heavy Duty Extension sensors
• Recessed Door Sensors
• Snap Sensors
High Water Alarm

GMM-IP67-HWS

Typical Position: Bilge Areas throughout boat

Description: The High Water detector is designed to monitor the water level in your bilge. Typically the switch is mounted 6 to 8 inches from the bilge bottom. The best reference to mount it is about a half inch below the level of the boat manufacturers existing high water switch. The IP rated enclosure should be mounted at a higher point and should be accessible.
Battery Low Voltage

GMM-IP67-LVS

Typical Position: Domestic battery Banks

Description: The Battery Low Voltage detector is designed to monitor the vessels battery bank(s) for low voltage. The voltage detector opens the zone when the battery voltage drops below 11.6 for a 12 VDC bank or 23.2 for a 24 VDC bank for a period of 24 more than 2 minutes. The Low voltage sensor is mounted in a sealed, waterproof, plastic enclosure. Typically it is hooked up to the primary domestic battery bank for the boat.
Beam Sensors - GMM-IP67-IBS

- Standard emitter/detector
- Cross Beam opens zone
- Max 33 ft. distance (cockpit, Fly Bridge, etc.)
Beam Sensors - GMM-IP67-IBS
Deck Sensors - GMM-IP67-DS

- Detect flexing of decks
- Sensitivity adjustment to birds won’t set it off
- Proven boat security product trusted for 30+ years
- Resistance changes on the sensors feed to the logic board then wirelessly transmits to the Marine Magellan
New Freezer Sensor

- Sends 24/7 call out in the event that a bait or storage Freezer goes above freezing
- Provides peace of mind in the event of mechanical breakdown or AC power loss to Freezer
- Product came about because so many clients ask for a solution after loosing thousands of dollars in Google Eyes, Filet Mignons, and Ice Cream

**Freezer Sensor Probe Specifications:**

- Close at temps greater than: +39.2° F +5.4° F (4° C +3°C)
- Open at temps less than +39.2° F +5.4° F (4° C +3°C)
Wireless Relays

- Wireless Relay Control
- Pulse on alarm, zone activation, Key Fob, etc.
- Relay controls up to 5 amps
- Low DC or AC power
- Controls lights, ice chippers, sirens, etc.
- Available in IP67 Version for moisture ridden areas of vessel
Wireless Relays

Siren Configuration
Base of 2WPGM

Switching Load below 5 Amps
Base of 2WPGM

Switching Load above 5 Amps
Base of 2WPGM

Fuse 5 amp
Fuse 1 amp
Fuse 1 amp

+12 Vdc
+12 Vdc
+12 Vdc

Red
White to GND

SIREN

2WPGM Specifications
Maximum Switching Voltage: 60 Vdc / 120 Vac
Maximum Current: 5 Amps
Non-Polarized Switch in Parallel
to device being controlled
Typically between Common (COM) and Normally Open (NO)

BY PARADOX MARINE
Sirens

GA-Siren: Water Resistant Siren

GA-Mini-Siren: Water Resistant Mini-Siren
GOST Acoustic Barrier

The GOST Acoustic barrier effectively stops intruders in their tracks by generating a patented unbearable pattern, frequency and intensity noise. Sound Barrier mode is achieved by pairs or arrays of units. In siren mode, a single Acoustic Barrier covers areas up to 70 square meters/750 square feet. Larger areas can be covered with several units.

Generates an unbearable sound
- Works with all GOST Systems or as a stand-alone unit
- Award winning design - fits easily into vessels of all sizes
- Sabotage protected with battery backup
The GOST Acoustic Barrier Sound

The GOST Acoustic Barrier Sound character of 3 phases
1. Surprise
   The sudden impact: Help
2. Adjustment
   The ear adapts: Not so bad
3. Irritation
   Intolerable: It gets worse

The cause and effect of these aphasic sound waves on the human ear is disorientation. The disorientation to the Otolith organs and Semicircular Canal is dizziness, nausea, vertigo, and the inability to locate the source of the sound. Still the effects disappear shortly after the sound is switched off. It is difficult to quantify these effects due to the characteristics and the level of intolerable sound.
Wireless Strobe-Siren

GMM-SRN-STR
• 100 dB siren
• Strobe available in multiple colors
• Works off D Batteries or Low DC power
• Ideal for quick implementation where wire runs are not applicable
Wireless Keypads

- Wireless Keypad for control of Marine Magellan from staterooms + crew quarters
- Wireless Relay Control
- Battery Backup
- Good for sleeping on larger boats in sketchy areas
**G3G-GSM**

- Battery Back Up – Supports both voice and data
- Ethernet Port – yes
- RJ-11 Ports – yes - voice
- User Friendly Web Interface
- Wi-Fi – yes (connect to router) you choose version
- Quad Band GSM 850/900/1800/1900
- Tri-Band UMTS/HSDPA 850/1900/2100
- TNC connections - yes
The Next Generation: GOST PHANTOM

The same trusted functionality of the Marine Magellan.

Now with greater capacity, more user features, and a sleeker design that’s easier to use.
GOST PHANTOM

- 64 Zones and 16 Users
- 2 Partitions for arming independent areas of the vessel (i.e. main cabin + Crew)
- Built in GSM/GPRS board for reports via Voice + SMS
- Two Way Voice
- Remote connectivity options for Diagnostics
- Sleek Black panel with Crisp Blue Screen
- Battery backup with easy mount rear panel
Tracking products, Setup, and Installation Standards
Legitimate Marine Security + Tracking

- Vessel theft is a rampant problem all over the globe.
- Boat owners need a proven, reliable, and globally capable method to track their boats exact course, speed, and position. Clients need to keep tabs on the boat.
- Boat Charter and rental agencies need to know where their assets are in relative real time.
- Friends and Family want to know that their loved ones arrived safely to their destination, find the boat if it is overdue, or off a designated path.
- Insurance companies want the ability to reclaim stolen assets quickly and efficiently.
The Problem

- According to the US Coast Guard Statistics, boat theft is drastically rising over 300% in a single year.
- Stolen boats are used to traffic drugs, humans, money, and guns into and out of countries.
- In most cases, the boat is never recovered.
Recovered Boats
Bahamian Recovered Stolen Vessels
Always Remember:

“What you install today could be methodically tested by these guys tomorrow!”
NAV-TRACKER

- Robust compact discreet terminals
- Proven Technology used on freighters, tankers, and cargo container
- Over 250,000 terminals actively being used worldwide
- Inmarsat M2M
- Awarded Metal by US Coast Guard for vessel recovery
- Extensive support infrastructure
- Mandated by International Maritime Organization (IMO) to have 99.9% messaging reliability
- Small and low power terminals
- Two Way Satellite control to/from terminal/website
- Global Messaging capability in as little as 30 seconds
Coverage Area
How our Tracking Systems work
Real Time Tracking on Google Earth
• Meets minimum insurance company standards for Globally capable tracking systems
• Simply hooks up directly to the vessels 12/24 VDC battery supply
• Geo-fence is armed/disarmed via the website only.
• Simple installation
NAV-TRACKER 2.0 (GNT-2.0)

- Works off the vessels 12 VDC
- Control unit gets mounted in an accessible but not visible location
- Allows for a sensor input that will send an alarm condition out for any normally open sensor
- Key switch arms/disarms the geo-fence locally while still allowing Website control
NAV-TRACKER 2.0 Siren Trigger (GNT-2.0 Siren)

• Key switch arms/ disarms the geo-fence locally while still allowing Website control works same as regular 2.0

• Allows a dry contact to trigger for siren trigger with deterrence against theft
MG-NAV-TRACKER (GMM-NT)

- Tracking addition to the Marine Magellan platform
- Wirelessly arms the Geo-fence and general alarm notifications according to the active state of the Marine Magellan
- Designed for larger boats where the Marine Magellan is already installed and the client wants tracking. Often used with the Insight Package
NT-Evolution

- Brings key fob control to the Nav-Tracker system.
- Allows control unit to be buried.
- Allows all wireless sensing and switching capabilities as with Marine Magellan line.
- Isolates key components to prevent possible tampering.
- Wireless light/siren control.
- Designed for Center consoles who are simply concerned about theft, acoustic deterrence, and tracking.
Install Tips: “Location...Location...Location”

- Think Security.
- Signal can penetrate ½ inch of solid fiberglass
- Locate the antenna away from metallic obstructions
- Choose a location that is not directly under or near radar
- Underside of the antenna is accessible to connect the antenna cable.
- Mount on a flat horizontal surface.
- Installs in South East Florida should have clear view at Az 130 EL 47 deg during initial poll
- Center Consoles – Not T-Tops. forward/aft stringers underneath the gunwale.
- Larger vessels - Often require exposed hardtop or arch mounting. A ¾ inch hole can be drilled and sealed under the antenna with silicon.
- Whenever possible, dry run the installation procedure and test the location beforehand.
Where Antenna Should & Should not be installed

GOOD Locations

BAD Locations

Good Locations

Bad Locations
Antenna Connections

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</tr>
<tr>
<td>12</td>
<td>Not used</td>
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Antenna Cable
Socket Connections
Rear View
Bad NAV-TRACKER Installations
New Website: GOST Tracker

We are very excited to announce of the release of our 4th generation website.
New Video Surveillance

GOST WATCH HD
Features of the GOST Watch HD systems

- Clients can view live streaming video of boats cameras from a website, Blackberry, iPhone, or any web enabled phone
- Analog to Digital converter module to feed existing cameras into network
- Provides secure wireless internet access for vessel
- Allows owner to keep visual tabs on their boat
- Set Motion Detection Areas for video capture and reference of everyone on and off the boat each day
A/D Gateway

Analog to Digital Gateway

- BNC Video In / Video Out pass thru existing cameras
- Enables live broadcast from existing video systems off of boat
- Common examples include cockpit and engine room cameras
- Works with any existing Analog cameras
New IVR: Internet Video Recorder

**GOST WATCH HD-IVR**

- Available in 250GB & 1TB
- Record up to 6 Cameras:
  - 250GB up to 30 days
  - 1TB up to 3 months
- Remotely Login from website to view history
- Advanced MP4 Data Compression
- Plug & Play
Network Setup

GOST WATCH HD GENERAL NETWORK CONFIGURATION

Internet Source

GSM DATA
GSM-GSM-WIFI

or

GSM DATA
GSM-GSM

Vsat
KVM V7 or Similar (Sold Separately)

Network Switch

A/D Gateway
(One per Analog Camera)

Wi-Fi Switch (if applicable)

Computer on Network

GOST WATCH HD IVR
(if applicable)

Video Out to Chartploter (if desired)
Else use included 75 Ohm cap on Video Out

Video In

12 VDC

Video Out

Analogue Cameras

BY PARADOX MARINE
Cameras

GOST MINI BALL

- Discreet and Powerful
- 2.4 Inches in Diameter, the size of a golf ball
- Will not detract from Décor
- Comes in White for Interior/Exterior use
- Tamper Proof and water resistant
- 540 TV Lines in color for High Resolution
- 3.6 mm Fixed Lens
- Day / Night function to switch camera mode between bright light to monochrome
Cameras

GOST Mini Dome
The NEW GOST Mini Domo Camera is a high performance, high resolution, Day/Night camera which performs very well in extreme low light environments, providing the best color images for both normal and low light conditions. This model offers innovative features in a sleek attractive design. This camera has Sony Super HAD II CCD with 540 TVL and a 3.6mm fixed iris lens.

GOST Mini Dome LED
The NEW GOST Mini Dome LED Camera has all of the same features as the GOST Mini Dome Camera, but adds Infrared LEDs for use in total darkness. The powerful LED illumination provides visibility of objects up to 20 feet away. Which make this camera a good option in the engine room.

GOST Mini Dome Pixim
The NEW GOST Mini Domo Camera with Pixim Technology is a high performance camera which offers exceptional Wide Dynamic Range and sensitivity for any harsh lighting environment. The GOST Mini Dome Pixim offers high resolution imaging with its 1/3” CMOS Pixim chip set. Programming of all functions can be easily managed through the cameras joystick and on-screen-display.
NEW Vari-Focal Analog Camera
NEW GOST-VF-BALL
The NEW GOST Vari-Focal Ball camera has the same great attractive white color housing as the GOST Mini-Ball and provides even better resolution at night. With 24 infrared LED's a day/night function, using state-of-the-art LED technology, it automatically senses light changes and switches the camera mode from bright light to monochrome at night or in low light conditions. This high resolution camera uses 540 TVL and a 2.8 - 11 mm DC Iris Lens allowing the user to set the zoom where it is most appropriate and easily adjusts when necessary. Measuring only 4.72 inch (D) X 3.94 inch (H), this rugged, tamper proof, water resistant camera will not detract from the décor and ambience of the vessel.
GOST Insight

• The GOST Insight is a combination of our most popular systems all in one.
• The Marine Magellan, GOST Watch HD & Nav-Tracker
• There are 4 versions of the system available
• The top of the line version with all of the bells and whistles includes the MG-Nav-Tracker
• The most basic version does not have either
• The two in the middle have one or the other
GOST Immobilizer

• Passive Battery locking System
• Excessive current draw while armed opens battery solenoid to prevent starting
• Easily installed in minutes
• Plastic cased locking Positive Lug
• Allows minimum current flow to stereo memory, etc.
• Ideal for R.I.B.S, Small skiffs or any vessel with outboard engines etc where security is critical.
• Scare thieves away to another boat
• Retails for $384
GOST Cloak

Instant Protection

Most property loss occurs in the initial minutes of a break-in, before police or security teams have had a chance to respond. The GOST Cloak system is designed to provide protection in the critical time gap between the alarm’s activation and the response team’s arrival at the scene.

In a matter of seconds, the GOST Cloak fills the protected area with an impenetrable cloud of smoke that prevents the loss of property, confuses the thief, and forces the intruder out of the premises until the response team arrives. The fog is created by vaporizing a specially formulated triethylene glycol solution. Glycol is classified as a foodstuff and is found in many day-to-day substances such as toothpaste and deodorants. The vapor produced is a dense, white fog which reduces visibility to less than 30 cm, practically 0 visibility, but which, under normal usage, is harmless to anything found on a yacht.
The Venturi Effect – The phenomenon that occurs when a fluid that is flowing through a pipe is forced through a narrow section, resulting in a pressure decrease and a velocity increase.
DEALER LOGIN- Name: GOSTDealer    Pass: GOSTDealer
Questions & Answers