



# GMS-2

## GIS Mapping GPS Receiver

- Dual-Constellation Satellite Tracking
- Integrated Digital Camera & Electronic Compass
- Dual-use performance as GIS receiver or Field Controller
- Internal *Bluetooth*® Wireless Technology Connectivity
- Ultra Sharp Color TFT Touch Screen



# GMS-2

Incorporating advanced technology not found in other hand-held GPS units, the new Topcon GMS-2 truly represents the next generation of a compact satellite positioning receiver.

Topcon engineers have incorporated our industry leading dual-constellation satellite tracking into a small hand-held GPS receiver, the new GMS-2. This innovative new system also provides an integrated electronic compass and digital camera powered by Topcon's revolutionary imaging technology. This powerful combination of dual-constellation satellite performance and digital imaging technology has set a new standard for GIS field mapping.

Powered by Topcon's TPSCORE® GPS chip technology, the GMS-2 provides 50 channel tracking capability, for both GPS+ Glonass satellite systems. The TPSCORE® chip technology also provides dual-purpose signal tracking for either meter-level GIS mapping applications, or single frequency carrier tracking for high accuracy static positioning. With an optional external L1 antenna, the GMS-2 can perform post processed surveying applications for accuracies better than 1 cm.

In addition to being a stand alone mapping grade receiver, the GMS-2 can also utilize external correction services for real-time DGPS. The GMS-2 provides access to the WAAS correction service as a standard feature. Using its internal Bluetooth® connection, the GMS-2 can be configured to connect to a regional GPS CORS network through a Bluetooth enabled cell phone. When utilizing the optional Topcon BR-1 Coast Guard Beacon Receiver, the GMS-2 can correct its raw GPS location for real time location, mapping, and navigation applications.

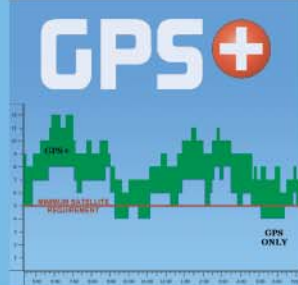
A significant advantage of the GMS-2 is its ability to perform multiple roles. With its Windows CE® operating system, a GMS-2 can also be configured to be a field controller running the full suite of Topcon's TopSURV software to work with total stations and RTK GPS systems. With the addition of the survey & GPS modules for TopSURV, the user can use our GMS-2 as either a stand alone GIS receiver, or part of an integrated system, providing flexibility not found in competing systems.

- Dual Constellation Satellite Tracking
- Integrated Digital Camera & Electronic Compass
- Dual-use performance as GIS receiver or Field Controller
- Internal Bluetooth® Wireless Technology Connectivity
- Multiple Accuracy Levels from Sub-meter to CM Range
- Ultra sharp color TFT touch screen
- 50 channel TPSCORE® Chip Technology
- DGPS or static mode
- Removable rechargeable Li-ion camcorder battery
- Optional beacon receiver available (BR-1)
- Multiple software support;
  - Topcon TopSURV GIS module
  - ESRI/Topcon TopPAD software
  - Optional Topcon Tools GIS post processing module

## Advanced Digital Imaging

- Integrated digital camera and electronic compass
- Capture digital images combined with a GPS coordinate location
- Automatically generate offset coordinate measurements
- Map multiple features in the same area easily

## Dual-Constellation Tracking



- Combine the coverage of US GPS system with the Russian Glonass satellite system
- Better performance in tough, obstructed areas
- Consistently lower DOP values and improved precision

## Multiple Software Support

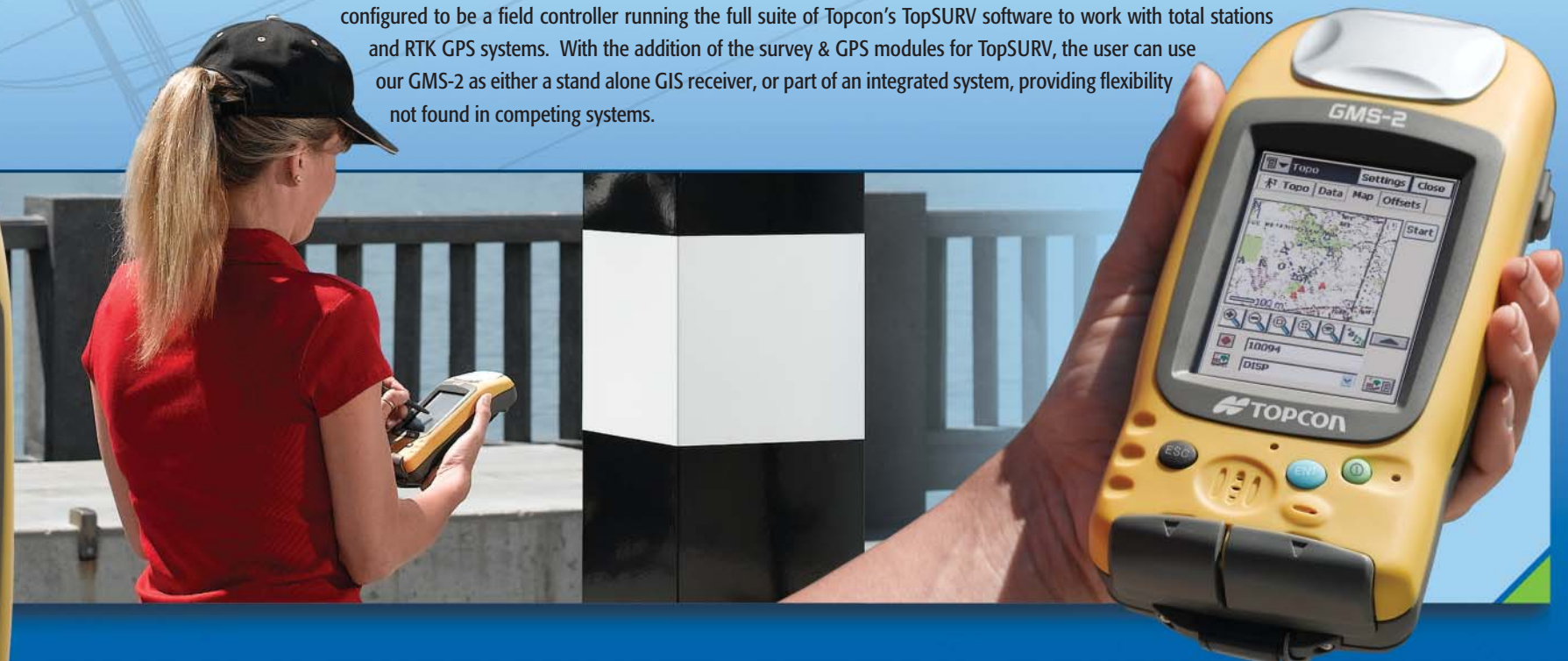


- 2 choices of field management and mapping software
- TopSURV-GIS - For standard GIS location & navigation functionality
  - TopPAD - For the advanced GIS professionals who demands the functionality of ESRI ArcInfo software

## Multiple Device Inputs



- Access to many different devices:
  - SD Memory Slot
  - USB Port
  - Serial Port
  - ANT
  - Power



**HiPer Lite+**  
Cable-Free Integrated  
RTK GPS+ Receiver



**GMS-110 / GMS-200**  
Multi-Purpose GIS /  
Mapping System



**GB-1000**  
Dual-Constellation  
GPS+ Receivers



**FC-100**  
Compact Windows® CE  
Field Controller

# Topcon's World Class Training and Service

Get the most out of your new instrument...



To assist you in getting the most out of your new instrument, Topcon and your local Topcon dealer offer exclusive product training. At the dealer's facility or your jobsite, Topcon certified training professionals have years of hands-on knowledge. And they are available to train your operators on all of the time-saving features and applications that Topcon offers.

...and to keep your instrument running at peak performance!



To assure that your Topcon instrument maintains peak performance, your local Topcon dealer offers factory-trained and certified service technicians. And just in case service assistance isn't available in your area, our factory offers a repair and return service policy that is second to none.



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**Specifications subject to change without notice**

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## SPECIFICATIONS

### Number of Channels

50 GPS+Glonass L1 tracking

### Real time DGPS accuracy

Submeter

### Post processed DGPS

RMS 10cm

### L1 Static Function

RMS  $\pm$  5mm + 1.5ppm

### WAAS/EGNOS

Yes

### CORS Beacon

Yes with BR-1

### Internal Memory

128MB SDRAM

### Processor/Operating System

625 MHz Intel X-scale QVGA

### Onboard Software

TopSURV GIS or TopPAD

### Office Software (post processing)

Topcon Tools GIS

### Display

3.5" 240 x 320 color QVGA w/ touch screen

### Ports

Bluetooth, USB, Serial, ANT, and Power

### Battery Life

8 hrs while in GPS mode

### Battery Type

Li-Ion camcorder battery

### Dimensions

7.76" x 3.54" x 2.48" (197 x 90 x 63mm)

### Weight

0.7kg

### Environmental

IP66, -20° to 50°C, 1meter drop