

# Marine GPS Locator

## MODEL: MR-700K

Concinnity and Solid design for GPS Marine Locator  
with Full Waterproof

**Garmin compatible Marine GPS Receiver**



- Built-in patch antenna
- 12 parallel tracking channels
- Fast TTFF and low power consumption
- On-board rechargeable battery sustained Real-Time Clock and control parameters memory for fast satellite acquisition during power-up
- 7-pin Circular Connector ( RS-232 )
- Interference filter to major VHF channels of marine radar
- WAAS compliant with EGNOS support
- Perfect Static Drift for both of speed and course
- Magnetic Declination compensation
- Waterproof

**MR-700K** is Marine GPS receiver. Its excellent performance easily conquers the most difficult tasks. In addition , it provides various functions to meet customers' needs.**MR-700K** It provides marvelous navigation performance under dynamic conditions in areas with limited sky view like urban canyons.

### Key Feature:

- Excellent noise immunity
- Very Fast TTFF
- Sensitivity: -143dBm(Tracking)
- Standard and NMEA-0183 output
- User selectable baud rate
- Easy installation / operation

### Possible Application:

- Marine Navigation.
- Fleet Management.
- Mileage Management.
- Tracking devices/system.
- Data logging for marine Navigation.
- Mapping devices for PC & Pocket PC.
- Marine Navigation or touring devices.
- AVL and Location-Based service system.

## Specifications:

Specifications	Parameter	Description
General		L1 frequency, C/A code(SPS), 12 Independent tracking channel
Sensitivity		-143 dBm (tracking)
Accuracy	Position	15m CEP , 5m(waas)
	Velocity	0.1 m/sec. 0.05m/s(waas)
	Time	+/- 1 $\mu$ s RMS (static mode)
Acquisition	Cold start	70 sec. (typical)
	Warm start	38 sec. (typical)
	Hot start	8 sec. (typical)
Reacquisition		100 ms typical (signal reacquisition)
Dynamics	Altitude	18000m max.
	Velocity	500 m/sec.
	Vibration	4G max.
Operation Temperature		-40°C to +85°C
Storage Temperature		-45°C to +90°C
Operating Humidity		0% to 95% RH, non condensing
Water Resistance		100% waterproof
Primary Power		9V ~ 34V DC
Power Consumption		130mA
Protocol		NMEA-0183 v3.0 baud rate 4800/9600/19200/38400/115200, default 4800
Signal level		RS-232(standard),USB & RS-422 optional
NMEA Message		GGA, GLL, GSA, GSV, RMC, VTG and PKODA,PKODG,1,PKODG,7
EMI filter		Rejects power line interference
Power cable		UL 2464/24Awg , 6M / 15M
Enclosure		High impact, corrosion-proof polycarbonate resin
Connector		open
Dimensions	GPS Locator	90.5mm(Dia.) × 108.5mm(H)
	Mounting Base	70mm(W) × 41.5mm(H)
Weight		200 grams
Standard Mounting		Concinnity and Solid design

\* This specification is subject to change without prior notice

**User selectable datum \*Pole mount to 1"-14 UNS threaded mast**

## RS232 I/O Connection



I/O PIN & CABLE		
Connector	Wire	Function
PIN1	White	Receive
PIN2	Green	Transmit
PIN3	Yellow	Ground
PIN4	Bare Braid	Earth
PIN5	Blue	Not used
PIN6	Black	Power-
PIN7	Red	Power+

