

Release the hounds and know what
they're up to with Astro™,

Tall grass. Short dog. Game on.

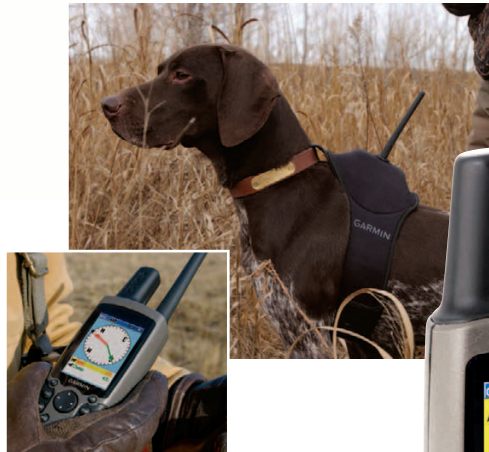
the GPS-enabled dog tracking
system for hunters. Ready to go
right out of the box, the Astro system
will have you hunting in no time.

This unique system pinpoints your
dog's position every 5 seconds.

You will know if your dog is
pointing, sitting, moving or treeing.

Where it's at. Where it's been.

How fast it's moving and
how far it's gone.



Navigation features

- Waypoints/icons:** 1000 with name and graphic symbol, 10 nearest (automatic), 10 proximity
- Routes:** 50 reversible routes with up to 250 points each, plus MOB and TracBack® modes
- Tracks:** 10K automatic track log; 20 saved tracks 500 points each let you retrace your path in both directions
- Trip computer:** Current speed, average speed, resettable max speed, trip timer and trip distance
- Alarms:** Anchor drag, approach and arrival, off-course, proximity waypoint, shallow water and deep water
- Tables:** Built-in celestial tables for best times to fish and hunt, sun and moon rise/set based on location
- Map datums:** More than 100 plus user datum
- Position format:** Lat/Lon, UTM/UPS, Maidenhead, MGRS, Loran TDs and other grids, including user UTM grid only

GPS performance

- Receiver:** 12 channel SiRFstar III™ high-sensitivity GPS receiver (WAAS-enabled) continuously tracks and uses up to 12 satellites to compute and update your position
- Acquisition times:**
- Warm: < 1 sec
 - Cold: < 38 sec
 - AutoLocate™: < 45 sec
- Update rate:** 1/second, continuous
- GPS accuracy:**
- Position: < 10 meters, typical*
 - Velocity: .05 meter/sec steady state
- DGPS (WAAS) accuracy:**
- Position: < 5 meters, typical
 - Velocity: .05 meter/sec steady state
- Protocol messages:** NMEA 0183 output protocol
- Antenna:** Built-in quad helix receiving antenna

Moving map features

- Basemap:** Detailed routable basemap with cities, highways, interstates, exit info, rivers, lakes; preloaded with worldwide cities
- Uploadable maps:** Accepts downloaded or plug-in microSD map detail from a variety of optional MapSource media

Electronic compass feature:

- Accuracy:** ±2 degrees with proper calibration (typical); ±5 degrees extreme northern and southern latitudes
- Resolution:** 1 degree

altimeter feature

- Resolution:** 1 foot
- Range:** -2,000 to 30,000 feet
- Elevation computer:** Current elevation, resettable minimum and maximum elevation, ascent/descent rate, total ascent/descent, average and maximum ascent/descent rate
- Pressure:** Local pressure (mbar/inches HG)
- Power Source:** 2 "AA" batteries (not included)
- Battery life:** 24 hours
- Physical Size:** 2.25"W x 6.25"H x 1.25"D (without UHF antenna)
9.25"H with UHF antenna
- Weight:** 6.5 ounces (185 g) w/o batteries.
- Display:** 1.5 x 2.2 inches (38.1mm x 56mm) 256-color transfective TFT (160 x 240 pixels)
- Case:** Waterproof to IPX7 standards
- Temperature range:** -4°F to 158°F (-20°C to 70°C)

MURS performance:

- Frequencies:** 151.82 MHz
151.88 MHz
151.94 MHz
154.57 MHz
154.60 MHz
- Range:** (5 miles line of site)
- Trackable units:** Able to track up to ten DC 20 units simultaneously

Accessories

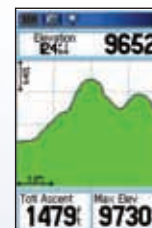
- Standard:** Belt clip
USB PC interface cable
MapSource® Trip & Waypoint Manager CD
User's manual
Quick reference guide
Wrist strap

Optional:

- Automotive Navigation Kit (includes City Navigator™)
- Automotive mount
- Marine mount
- Suction cup mount
- Carrying case
- 12-volt adapter cable
- Power/data cable
- Magnetic mount antenna
- Bike mount
- Retractable tether



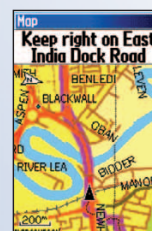
The Astro 220 series accepts downloaded map detail, including TOPO maps with elevation information.



The barometric altimeter feature on the Astro 220 provides elevation profiles for climbers and hikers.



The dog tracker page lets you see your dog's distance, bearing and status.



With enhanced street map detail from optional MapSource software, you can look up destinations and view automatic point-to-point routes.

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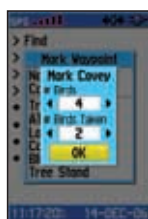
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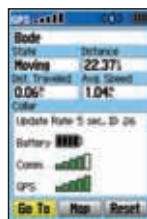
Specifications are preliminary and subject to change without notice.

* Subject to accuracy degradation to 1000m 2DRMS under the U.S. Department of Defense Selective Availability Program.

** These units are also able to transfer waypoints, routes and tracks between the PC and GPS using MapSource.™



Covey Counter™



dog information page



hunting specific waypoints