



## Radio features

**Channels:** 15 GMRS channels\*, 7 FRS channels, 8 GMRS repeater (USA only)  
**TX Power:** FRS = 0.5w  
 GMRS = 0.5w, 2w, 5w (USA)  
 0.5w, 2w (CAN)  
**Squelch codes:** 38  
**Range:** Up to 2 miles on FRS channels;  
 Up to 14 miles on GMRS  
**Modes:** Channel scan with programmable scan list;  
 channel monitor  
**Call tones:** 10 call and ring tones, 4 roger tones  
**VOX:** External Voice Activation with  
 sensitivity selection  
**Other features:** Alarm, calculator, calendar, clock,  
 lap timer, stopwatch, games

## Location reporting features

**User ID:** 10-character name with graphic symbol  
**Location sending:** One button press with Call or  
 Talk button\*\*  
**Location receiving:** Automatic; keep track of up to  
 50 Rino contacts; allows user to poll  
 other user's position  
**Contact GoTo:** Navigation data automatically updated  
 to contact's latest location  
**Contact TracBack®:** Lets you retrace the path of up to  
 20 contacts  
**Contact Quick View:** Lets you quickly center all contact  
 locations on map  
**Contact Assembly:** Lets you and your contacts send and  
 navigate to a common destination  
**Proximity alarm:** Alerts you if contact moves out of a  
 specified distance radius or if you are  
 within a specified distance of a waypoint

## Navigation features

**Waypoints/icons:** 500 autoroute waypoints  
 500 with name, graphic symbol and notes  
**Routes:** 50 reversible  
**Tracks:** 10,000 track points. Automatic track log;  
 20 saved tracks let you retrace your path  
 in both directions  
**Trip computer:** Current speed, average speed, time of  
 sunrise/sunset, resettable maximum  
 speed, trip timer, trip distance, electronic  
 compass (530 only) and barometric  
 altimeter (530 only)  
**Tables:** Built-in celestial tables for best times  
 to fish and hunt, sun and moon rise/set  
 based on date and location  
**Map datums:** More than 100  
**Position format:** Lat/Lon, UTM/UPS, Maidenhead, MGRS,  
 Loran TDs and other grids, Light  
 Autorouting Basemap included

## GPS performance

**Receiver:** WAAS-enabled, 12 parallel channel GPS  
 receiver continuously tracks and uses up  
 to 12 satellites to compute and update  
 your position  
**Acquisition times:**  
**Warm:** Approximately 15 seconds  
**Cold:** Approximately 45 seconds  
**AutoLocate™:** Approximately 5 minutes

**Update rate:** 1/second, continuous  
**GPS accuracy:**  
**Position:** < 15 meters, 95% typical\*\*\*  
**Velocity:** 0.05 meter/sec steady state  
**DGPS (USCG) accuracy:**  
**Position:** 3-5 meters, 95% typical  
**Velocity:** 0.05 meter/sec steady state  
**DGPS (WAAS) accuracy:**  
**Position:** < 3 meters, 95% typical\*\*\*  
**Velocity:** 0.05 meter/sec steady state  
**Dynamics:** 6g's  
**Interfaces:** USB RS232 serial interface requires  
 optional accessory cable 010-10572-00  
**Antenna:** Quad-helix

## Power

**Source:** High capacity 8.4v 2400 mAh Li-Ion  
 Battery Pack  
**Battery life:** 18 hours typical with Alkaline battery  
 pack, 16 hours typical with Li-Ion pack

## Physical

**Size:** 5.1"H x 2.3"W x 1.8"D; 7.5"H with antenna  
 (13 x 5.8 x 4.6 cm; 19 cm with antenna)  
**Weight:** 10.3 ounces (294 g) with Li-Ion battery  
 pack; 6.2 ounces (175g) without battery  
**Display:** 1.7"H x 1.3"W  
 176 x 220 pixels, 256-color  
 transfective TFT  
**Case:** Waterproof to IEC 60529 IPX7 standards  
**Temperature range:** -4° to 140° F (-20° to 60° C)  
**User data storage:** Indefinite, no memory battery required

## Electronic compass feature

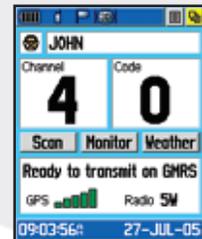
**Accuracy:** ±5° (average)  
**Resolution:** 1 degree

## Barometric altimeter feature

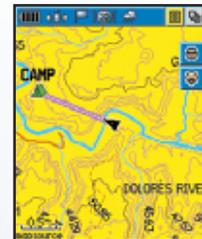
**Accuracy:** 10 feet with proper calibration  
 (user and/or automatic calibration)  
**Resolution:** 1 foot  
**Range:** -2,000 to 30,000 feet  
**Elevation computer:** Current elevation, resettable minimum  
 and maximum elevation, ascent/descent  
 rate, total ascent/descent, average and  
 maximum ascent/descent rate  
**Pressure:** Local pressure (mbar/inches HG), 48-hour  
 automatic pressure trend recording

## Accessories

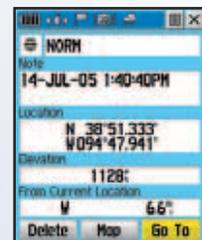
**Standard:** PC/USB interface cable  
 User's guide  
 Quick start guide  
 Lithium-ion battery pack  
 Lithium-ion charger  
 AC adapter  
 Belt clip  
 Wrist strap  
**Optional:** Automotive mount  
 Handlebar mount  
 Carrying case  
 2.5 to 3.5 mm jack adapter  
 Earbud with push-to-talk microphone  
 Headset with boom mic  
 Alkaline battery pack  
 Replacement Lithium-ion battery pack  
 PC interface cable (serial)  
 Vehicle power cable  
 Neck lanyard  
 MapSource® CD-ROMs



Rino's selectable channel and squelch codes let you talk to your buddies without interference from other radio users.



Select a destination on the map page, and Rino will automatically draw a straight line from your position.



Tell Rino to "GoTo" a waypoint or location, and the navigation page will point you there with a graphic compass display.

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Specifications are preliminary and subject to change without notice.

\*Using GMRS requires FCC license in the United States. No license is required in Canada.

\*\*Location sending/receiving is available on both FRS and GMRS channels in the US and Canada. The minimum time between updates is 30 seconds (as specified by FCC), except when responding to a polling request

\*\*\* Subject to accuracy degradation to 100m 2DRMS under the U.S. Department of Defense Selective Availability Program.

## Here's how the units are different

	Rino 520	Rino 530
voice scrambler	yes	yes
vibration alert	yes	yes
database or map MapSource®	detailed basemap accepts 56 MB data from a variety of MapSource CDs	detailed basemap accepts 56 MB of downloaded map detail from a variety of MapSource CDs, electronic compass, barometric altimeter, weather receiver