

No matter what you run into out there,
 help is always close at hand with these

2-way radio with GPS lets you “buddy up” from 14 miles away.

new 500-series Rino® radios. Combining
 powerful two-way transceivers with GPS
 navigation and color mapping, these
 feature-packed Rino (Radio Integrated
 with Navigation for the Outdoors) units
 keep you on track and in touch with
 your fellow adventurers. With Garmin's
 patented position-reporting capability,
 the Rino 520 packs 5 watts of transmit
 power for a range of up to 14 miles.

For hikers and climbers, the equally
 powerful Rino 530 adds an electronic
 compass and barometric altimeter plus
 a NOAA weather receiver to the mix.



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
 transreflective 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

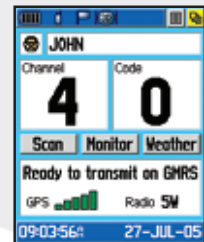
Accuracy: ±5° (average)
Resolution: 1 degree

Barometric altimeter feature

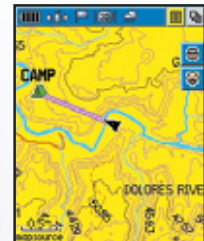
Accuracy: 10 feet with proper calibration
 (user and/or automatic calibration)
Resolution: 1 foot
Range: -2,000 to 30,000 feet
Elevation computer: Current elevation, resettable minimum
 and maximum elevation, ascent/descent
 rate, total ascent/descent, average and
 maximum ascent/descent rate
Pressure: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

Accessories

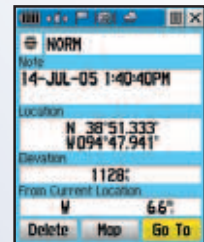
Standard: PC/USB interface cable
 User's guide
 Quick start guide
 Lithium-ion battery pack
 Lithium-ion charger
 AC adapter
 Belt clip
 Wrist strap
Optional: Automotive mount
 Handlebar mount
 Carrying case
 2.5 to 3.5 mm jack adapter
 Earbud with push-to-talk microphone
 Headset with boom mic
 Alkaline 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