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RD7200 Through RD8200SG Complete Menu Tree Guide

This guide provides a step-by-step menu tree for Radiodetection precision cable and pipe locators covering the RD7200 and RD8200SG models. The language-selection menu (LANG) has been omitted.

Part 1: Menu Navigation Fundamentals: *How to Access the Menu System*

On the Receiver:

Step	Action	Result
1	Press the Power key	Menu appears in bottom left corner
2	Use Up/Down arrow keys	Scroll through menu options
3	Press Frequency key (Right Arrow)	Enter submenu
4	Use Up/Down arrow keys	Scroll through submenu options
5	Press Measure key (Left Arrow)	Select option and return
6	Press Frequency key repeatedly	Exit menus and return to main screen

Note: Some later sections of the original guide refer to the Antenna key for enter/confirm. On the unit, the right arrow / Frequency (or Antenna) key enters a submenu; the left arrow / Measure (or Antenna left) key confirms and returns.

Part 2: Complete Menu Tree: *Main Menu Structure*

The menu contains the following top-level options (LANG omitted; remaining items renumbered):

#	Menu item	#	Menu item
1	VOL – Volume control	11	ALERT – StrikeAlert warnings
2	SMLLOG – Measurements logging	12	BATT – Battery type
3	ILOC – Bluetooth / ILOC pairing	13	ARROW – Arrow mode (Peak+ only)
4	GPS – GPS/GNSS (8200G models)	14	COMPA – Compass display
5	UNITS – Measurement units	15	VALRT – Vibration alerts
6	UTIL – Utility selection on/off	16	AUDIO – Audio tone frequency
7	ULIST – Utility selection list	17	SWING – Swing warning system
8	POWER – Power network frequency	18	INFO – System information
9	ANT – Antenna mode selection	19	CDR – Current Direction Reset (CD only)
10	FREQ – Frequency enable/disable		

1. VOL – Speaker Volume Control

Path: Main Menu → VOL

Options:

- Range: 0 (Mute) to 5 (Maximum)
 - Default: Level 3
1. Press Power key to enter menu
 2. Use Up/Down arrows to scroll to VOL
 3. Press Antenna key (Right arrow) to enter submenu
 4. Use Up/Down arrows to select desired volume level (0–5)
 5. Press Antenna key (Left arrow) to confirm and return
 6. Press Frequency key to exit and return to main operation

Notes:

- Volume may automatically reduce at low battery levels when using alkaline batteries
- Maximum volume (5) with vibration alerts reduces battery life significantly
- Recommended working volume is 3–4 for field operations

2. SMLOG – Measurements and Logging

Path: Main Menu → SMLOG

Option	Function
PAIR	Enable/Disable Bluetooth pairing for data transmission
COM	Communication ON/OFF – Enables wireless data sending
DATA	Access measurement data storage
PROT	Communication Protocol

Steps to Manage Measurements:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to SMLOG
3. Press Antenna key (Right arrow) to enter SMLOG submenu
4. Navigate submenu options: PAIR (YES to enable pairing); COM (ON to activate wireless); DATA (view stored measurements); PROT (communications protocol)
5. Press Antenna key (Left arrow) to confirm selections
6. Return to main menu or operation screen

Memory Capacity: Stores at least 500 days of normal usage data (based on 8 hours/day operation). **Data Export:** Retrieve logs using RD Manager Online PC application for analysis and validation.

3. ILOC – iLOC Bluetooth Control

Path: Main Menu → ILOC

Enable, disable, and pair wireless Bluetooth connections to Tx-10B transmitters for remote control.

Option	Function
ON	Activate Bluetooth wireless connectivity
OFF	Deactivate Bluetooth wireless connectivity
PAIR	Initiate pairing sequence with transmitter
RESET	Clear pairing and reset Bluetooth module

Steps to Pair with Transmitter (iLOC):

1. Ensure Tx-10B transmitter is powered on
2. On the handheld unit: Press Power key to enter menu
3. Use Up/Down arrows to scroll to ILOC
4. Press Antenna key (Right arrow) to enter ILOC submenu
5. Use Up/Down arrows to select PAIR
6. Press Antenna key (Left arrow) to initiate pairing
7. Device will search for Tx-10B transmitter (Bluetooth icon will flash)
8. Pairing complete when Bluetooth icon becomes solid
9. Exit menu and return to operation

Minimum Separation: Maintain 200 mm (8 inches) between Bluetooth antenna and body during pairing and transmission.

Features available with iLOC: Remote frequency selection on transmitter; SideStep automatic frequency optimization; remote transmitter power control; confirmation of successful signal transmission.

4. GPS – GNSS Position Settings (8200G Models Only)

Path: Main Menu → GPS

Configure GPS/GNSS module for location data logging.

Option	Function
RESET	Reset internal GPS to factory settings (YES/NO)
INT	Use internal GPS module (8200G models only)
EXTM	Use external GPS source via RD MAP+ app
OFF	Disable GPS functionality
SBAS	Enable/Disable SBAS augmentation for improved accuracy

Steps to Enable GPS:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to GPS
3. Press Antenna key (Right arrow) to enter GPS submenu
4. Select INT for internal GPS or EXTM for external source
5. Press Antenna key (Left arrow) to confirm
6. Exit menu – GPS icon appears on display when locked

1 bar = GPS active | 3 bars = GPS locked to satellite system.

Standard models (RD8200 without G): GPS option is not available.

5. UNITS – Measurement Units Selection

Path: Main Menu → UNITS

Select metric (meters) or imperial (feet/inches) measurement units for depth readings.

Option	Function
METRE	Metric units (meters, millimeters)
IMP	Imperial units (feet, inches)

Steps to Change Units:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to UNITS
3. Press Antenna key (Right arrow) to enter UNITS submenu
4. Use Up/Down arrows to select METRE or IMP
5. Press Antenna key (Left arrow) to confirm selection
6. Selected units apply immediately to all readings
7. Exit menu to return to operation

Default Setting: METRE (metric) is the standard factory default.

6. UTIL – Utility Selection Enable/Disable

Path: Main Menu → UTIL

Enable or disable the utility selection feature for identifying target service types.

Setting	Function
ON	Activate utility list menu (ULIST becomes available)
OFF	Disable utility selection (ULIST hidden)

Steps to Enable Utility Selection:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to UTIL
3. Press Antenna key (Right arrow) to enter UTIL submenu
4. Use Up/Down arrows to select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. Exit menu – if UTIL is ON, ULIST now appears in the main menu

Related option: ULIST (section 7).

7. ULIST – Utility List Selection

Path: Main Menu → ULIST (only visible when UTIL is enabled)

Select and enable/disable specific utility types to prioritize during locating.

Code	Utility Type	Abbreviation
GAS	Natural Gas Pipelines	GAS
TEL	Telecommunications Cable	TEL
SEW	Sewer Lines	SEW
TMA	Thermal/District Heating Mains	TMA
H2O	Water Mains	H2O
PWR	Power/Electrical Lines	PWR
EXL	Extra Low Voltage Lines	EXL
IRR	Irrigation Lines	IRR
CTV	Cable Television/CATV	CTV

Steps to Configure Utility List:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to ULIST
3. Press Antenna key (Right arrow) to enter ULIST submenu
4. Display shows each utility with ON/OFF status
5. Use Up/Down arrows to navigate through the utility list
6. Press Antenna key (Left arrow) to toggle ON/OFF for each utility
7. All utilities enabled by default when UTIL is first activated
8. Press Frequency key to exit ULIST and return to main menu

Field notes: Enable only utilities relevant to your work area to reduce clutter.

8. POWER – Power Network Frequency

Path: Main Menu → POWER

Set the local electrical power network frequency for accurate power line detection (50 Hz or 60 Hz).

Option	Region
50 Hz	Europe, Asia, Africa, Australia, most of world
60 Hz	North America (USA, Canada), Central America, Japan

Steps to Set Power Frequency:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to POWER
3. Press Antenna key (Right arrow) to enter POWER submenu
4. Use Up/Down arrows to select 50 or 60
5. Press Antenna key (Left arrow) to confirm selection
6. Exit menu to apply setting

Critical: An incorrect frequency setting impairs power-line detection accuracy. Verify local grid frequency before field operations. Factory default is often 50 Hz; change to 60 Hz for North America.

9. ANT – Antenna Modes Enable/Disable

Path: Main Menu → ANT

Enable or disable antenna mode switching capabilities.

Mode	Description
PEAK	Accurate pinpoint mode – strongest signal directly over utility
PEAK+	Peak bargraph combined with either Null or Guidance arrows
GUIDANCE	Rapid line tracing using proportional arrows and audio
BROAD PEAK	Wider sensitivity for detecting weak/deep signals
NULL	Quick left-right indication without magnitude information

Steps to Enable/Disable Antenna Modes:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to ANT
3. Press Antenna key (Right arrow) to enter ANT submenu
4. Use Up/Down arrows to select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. If ON: all antenna modes available (scroll via Antenna key in operation)
7. If OFF: fixed to current mode (antenna key non-functional)
8. Exit menu to apply setting

Field usage: Enable ANT for maximum flexibility; disable only if using a single mode exclusively.

10. FREQ – Individual Frequency Enable/Disable

Path: Main Menu → FREQ

Enable or disable specific locating frequencies available on the receiver.

Standard frequencies (model dependent):

- Tx-5 active: 8 kHz, 33 kHz, 2 kHz, 8.24 kHz, 33.2 kHz
- Tx-10 active: 8 kHz, 33 kHz, 64 kHz, 128 kHz, 256 kHz (plus additional specialized frequencies)

Steps:

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to FREQ
3. Press Antenna key (Right arrow) to enter FREQ submenu
4. Display shows list of available frequencies
5. Use Up/Down arrows to navigate the frequency list
6. Press Antenna key (Left arrow) to toggle each frequency ON/OFF
7. All frequencies enabled by default
8. Press Frequency key to exit FREQ menu

Disabled frequencies will not appear in frequency selection. Match receiver frequencies to the transmitter.

11. ALERT – StrikeAlert Warning System

Path: Main Menu → ALERT

Enable or disable the StrikeAlert audible warning system for overvoltage detection.

Setting	Function
ON	Activate audible warning when unsafe voltage detected
OFF	Disable overvoltage warning (not recommended for safety)

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to ALERT
3. Press Antenna key (Right arrow) to enter ALERT submenu
4. Use Up/Down arrows to select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

Safety recommendation: Keep StrikeAlert enabled. Disable only under explicit supervision and safety protocols.

12. BATT – Battery Type Configuration

Path: Main Menu → BATT

Set battery chemistry type for optimized power management.

Type	Cell Type	Characteristics
ALKALINE	Alkaline D-cells	Single-use, highest initial voltage
NiMH	Rechargeable Ni-Metal Hydride	Reusable, consistent voltage
Li-Ion	Lithium-Ion battery pack	Fast charging, lightweight

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to BATT
3. Press Antenna key (Right arrow) to enter BATT submenu
4. Select ALKALINE, NiMH, or Li-Ion to match the installed pack
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

Critical: Incorrect battery type selection can reduce performance or damage equipment. Li-Ion is recommended for field use when that pack is installed.

13. ARROW – Arrow Mode Selection (Peak+ Mode Only)

Path: Main Menu → ARROW

Choose between Null arrows or Guidance arrows when in Peak+ antenna mode.

Option	Function
NULL	Null arrows indicate left/right distortion or parallel lines
GUIDE	Proportional Guidance arrows for rapid line tracing

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to ARROW
3. Press Antenna key (Right arrow) to enter ARROW submenu
4. Select NULL or GUIDE
5. Press Antenna key (Left arrow) to confirm
6. Exit menu – change applies to Peak+ mode immediately

Quick toggle: In operation, press and hold the Antenna key to switch between NULL and GUIDE.

14. COMPA – Compass Display Toggle

Path: Main Menu → COMPA

Enable or disable the on-screen compass that shows relative orientation of the buried utility.

Setting	Function
ON	Display compass rose showing utility direction relative to the unit
OFF	Hide compass display (saves display space)

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to COMPA
3. Press Antenna key (Right arrow) to enter COMPA submenu
4. Select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

15. VALRT – Vibration Alert Configuration

Path: Main Menu → VALRT

Enable or disable haptic (vibration) feedback warnings for swing alerts and signal notifications.

Setting	Function
ON	Enable vibration motor for tactile warnings and alerts
OFF	Disable vibration feedback

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to VALRT
3. Press Antenna key (Right arrow) to enter VALRT submenu
4. Select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

Battery impact: *Vibration at high use reduces battery life; disable if extended field time is required.*

16. AUDIO – Audio Tone Frequency Selection

Path: Main Menu → AUDIO

Set audio tone pitch to high or low for better audible feedback in noisy environments.

Setting	Frequency
HIGH	Higher pitch tone (easier to hear in quiet conditions)
LOW	Lower pitch tone (easier to hear over machinery noise)

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to AUDIO
3. Press Antenna key (Right arrow) to enter AUDIO submenu
4. Select HIGH or LOW
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

Field recommendation: LOW for high-noise / construction sites; HIGH for quiet locations.

17. SWING – Swing Warning System

Path: Main Menu → SWING

Enable or disable the built-in gyroscopic SWING warning that alerts when the unit is tilted excessively during measurement.

Setting	Function
ON	Activate swing measurement alerts (vibration/audio)
OFF	Disable swing warnings

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to SWING
3. Press Antenna key (Right arrow) to enter SWING submenu
4. Select ON or OFF
5. Press Antenna key (Left arrow) to confirm
6. Exit menu to apply setting

Important: Swing warnings help keep depth readings accurate by flagging tilted measurements. Keep enabled when possible.

18. INFO – System Information and Diagnostics

Path: Main Menu → INFO

Access system test results, software versions, and calibration dates.

Option	Information Displayed
TEST	Run self-test diagnostics (30–60 seconds)
Software version/revision	Current firmware version installed
CAL	Service calibration date (most recent)
ECERT	eCert calibration date (most recent)

1. Press Power key to enter menu
2. Use Up/Down arrows to scroll to INFO
3. Press Antenna key (Right arrow) to enter INFO submenu
4. Navigate TEST, software version, CAL date, and ECERT date
5. Press Antenna key (Left arrow) to view each item
6. Exit menu when complete

Self-test: Takes 30–60 seconds. PASS/FAIL is shown on screen. If FAIL, contact an authorized service center. Confirm CAL or ECERT dates are within your organization's service interval.

19. CDR – Current Direction Reset (CD Mode Only)

Path: Main Menu → CDR (only visible when using Current Direction mode)

Reset the Current Direction calibration reference point.

Setting	Function
YES	Reset CD reference (confirm with YES)
NO	Cancel reset

1. The unit must be in Current Direction mode
2. Press Power key to enter menu
3. Use Up/Down arrows to scroll to CDR
4. Press Antenna key (Right arrow) to enter CDR submenu
5. Use Up/Down arrows to select YES or NO
6. Press Antenna key (Left arrow) to confirm
7. If YES: reset complete, return to operation
8. Exit menu

When to reset CD: After changing CD clamps or stethoscopes, or when the CD reference becomes inaccurate.