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› User Manual for VECHTEL 8 CORE 4G+64G Car Radio for Toyota HILUX 2005-2014

VECHTEL 8 CORE 4G+64G Car Radio for Toyota HILUX 2005-2014

VECHTEL Car Radio User Manual

Model: 8 CORE 4G+64G for Toyota HILUX 2005-2014

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VECHTEL 8 CORE 4G+64G Car Radio. This unit is specifically designed for Toyota HILUX models manufactured between 2005 and 2014, offering a seamless upgrade to your vehicle's infotainment system.

Key features include an Android 13 operating system, 4GB RAM, 64GB ROM, wireless Carplay and Android Auto, a 9-inch IPS HD touch screen, GPS navigation, Bluetooth 5.0, Wi-Fi connectivity, FM/RDS radio, DSP audio processing, and support for steering wheel controls. A high-definition rear camera is also included for enhanced safety.



Figure 1.1: The VECHTEL 9-inch Car Radio unit, designed for integration into Toyota Hilux 2005-2014 dashboards. It features a large touch screen and a sleek design.

2. What's in the Box

Before beginning installation, please verify that all components listed below are present in your package:

- 1 x Car Radio Unit
- 1 x Power Cable (Plug and Play wiring harness for Toyota HILUX)
- 1 x GPS Antenna
- 1 x Rear Camera
- 1 x Rear Camera Input Cable
- 1 x RCA Cable
- 2 x USB Cables
- 1 x External Microphone
- 1 x Installation Tool Kit
- 1 x Instruction Manual (this document)



Figure 2.1: Visual representation of the included components and the main unit's dimensions (approximately 446mm width x 250mm height).

3. INSTALLATION AND SETUP

This section outlines the general steps for installing your new car radio. Professional installation is recommended if you are unfamiliar with car audio systems.

3.1 Pre-Installation Checklist

- Ensure the vehicle's battery is disconnected before starting any electrical work.
- Confirm compatibility with your Toyota HILUX (2005-2014 models).
- Gather all necessary tools, including those provided in the kit.

3.2 Installation Steps

1. **Remove the Old Unit:** Carefully remove the existing car radio and dashboard trim using the provided installation tools. Refer to your vehicle's service manual for specific trim removal instructions.
2. **Connect Wiring Harness:** Connect the supplied plug-and-play power cable to the vehicle's existing wiring harness. Ensure all connections are secure.
3. **Connect Peripherals:**
 - Connect the GPS antenna and position it in a location with clear sky view (e.g., dashboard corner).
 - Connect the rear camera input cable and route it to the rear of the vehicle for camera installation.
 - Connect the RCA cables for audio output (if using external amplifiers or subwoofers).
 - Connect the USB cables and route them to a convenient location for external device connection.
 - Connect the external microphone for hands-free calling and voice commands.
4. **Install Rear Camera:** Mount the HD rear camera at the back of your vehicle, ensuring a clear view. Connect its power and video cables to the routed input cable.
5. **Mount the New Unit:** Carefully slide the VECHEL car radio into the dashboard opening. Secure it using the vehicle's mounting brackets or screws.
6. **Reconnect Battery:** Once all connections are verified and secure, reconnect the vehicle's battery.
7. **Initial Power On and Test:** Turn on the vehicle's ignition and power on the car radio. Test all functions: touch screen, audio, radio, GPS, Bluetooth, Carplay/Android Auto, and rear camera display.

For Toyota HILUX 2005-2014



✘ Before Installation

✔ After Installation

Figure 3.1: Comparison showing the original Toyota Hilux dashboard before installation and the upgraded dashboard with the VECHTEL car radio installed.

4. OPERATING INSTRUCTIONS

This section details the primary functions and how to operate your VECHTEL car radio.

4.1 Basic Navigation and Interface

- **Touch Screen:** The 9-inch IPS HD touch screen provides intuitive control. Tap icons to open applications, swipe to navigate menus, and pinch-to-zoom in maps.

- **Home Screen:** Customize your home screen by rearranging app icons. Long-press an icon to move or delete it.
- **Split-Screen Display:** The unit supports split-screen functionality, allowing you to run two applications simultaneously (e.g., navigation and music).
- **UI Themes:** Choose from 59 different UI themes to personalize the interface.

IPS HD Screen

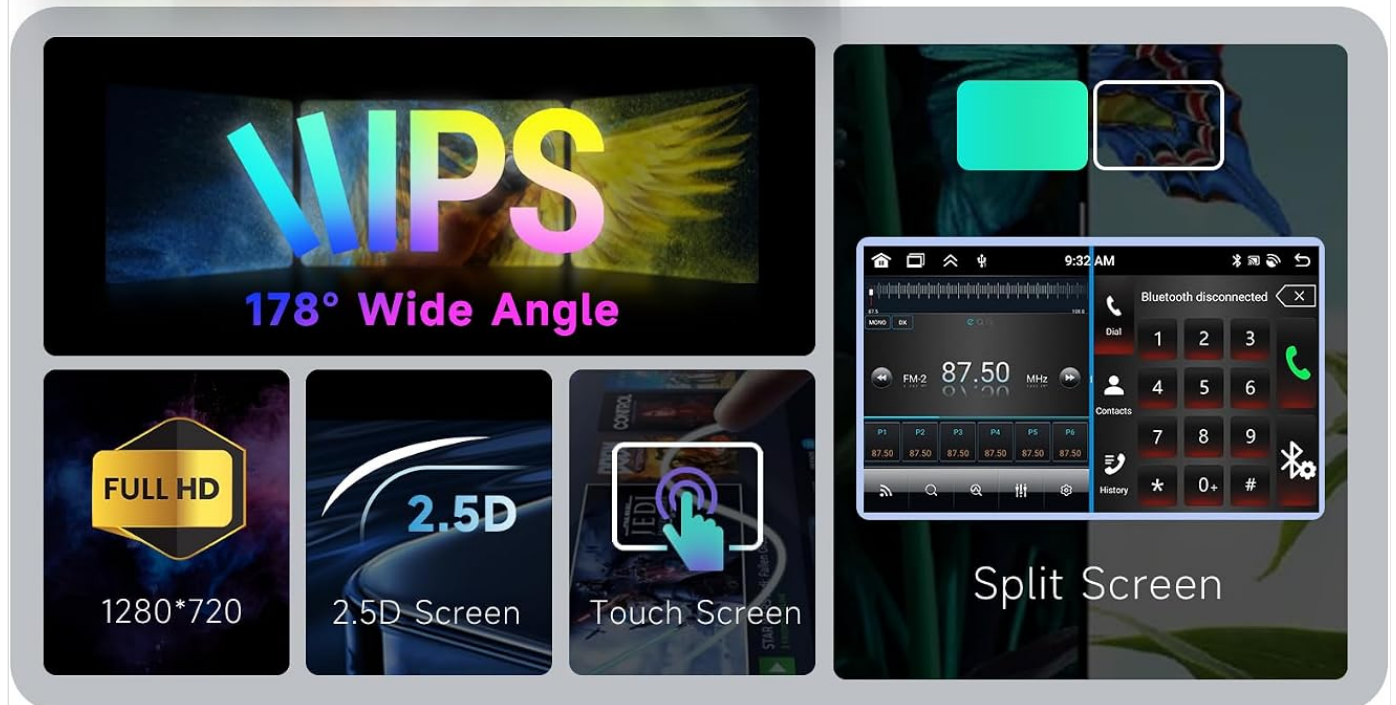


Figure 4.1: Overview of the IPS HD screen capabilities, highlighting its 1280x720 resolution, 178° wide viewing angle, and split-screen functionality.

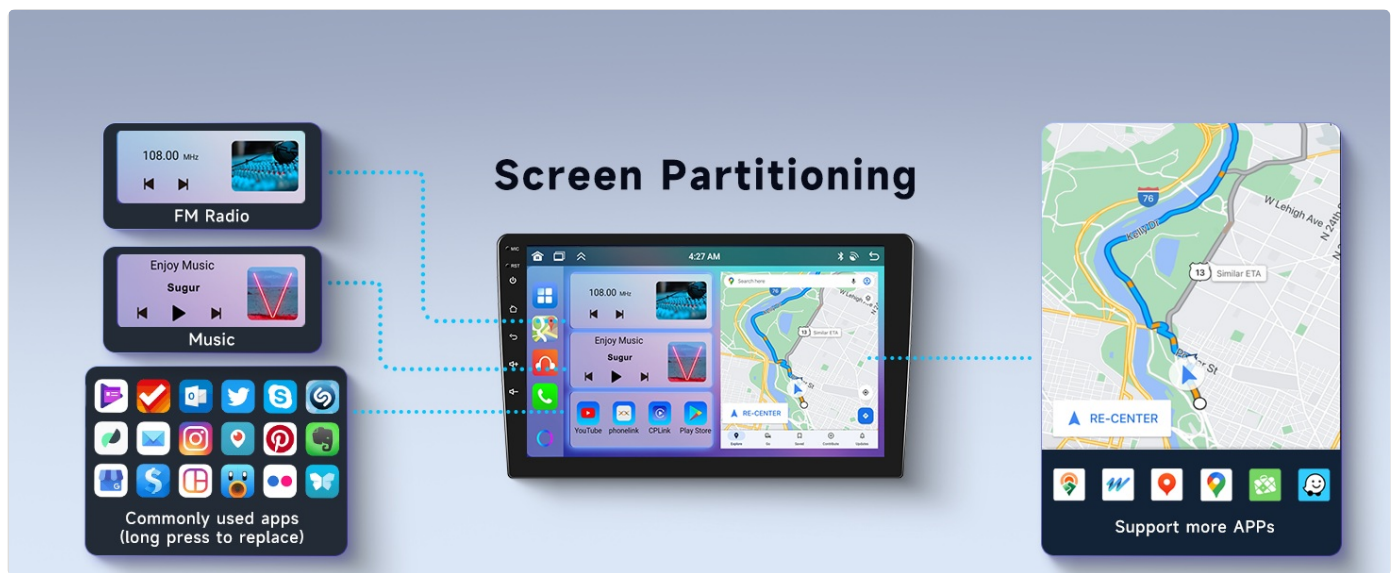


Figure 4.2: Demonstration of the screen partitioning feature, allowing simultaneous display of applications like FM Radio and Navigation.

4.2 Connectivity Features

- **Wireless Carplay & Android Auto:** Connect your smartphone wirelessly or via USB for seamless integration of navigation, music, calls, and messaging. Access Siri or Google Voice Assistant for hands-free control.
- **Bluetooth 5.0:** Pair your phone for hands-free calling and audio streaming.
- **Wi-Fi:** Connect to a Wi-Fi hotspot (e.g., from your phone) to access online maps, stream content, and download apps from the app store.
- **Mirror Link:** Mirror your Android or iOS phone screen directly onto the car radio display.

Carplay / Android Auto / Mirror Link



Android/iOS System

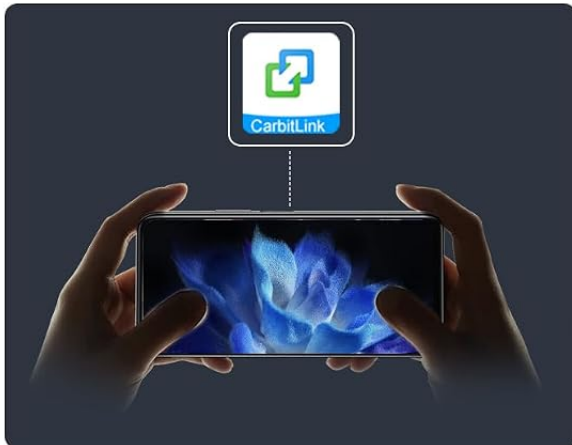


Figure 4.3: Visual representation of Carplay, Android Auto, and Mirror Link functionalities, enabling smartphone integration.



Figure 4.4: Display of Bluetooth 5.0 connectivity for calls and music, alongside the FM/RDS radio interface.

4.3 Navigation and Multimedia

- **GPS Navigation:** Utilize pre-loaded offline maps or connect to Wi-Fi for online navigation services.
- **FM/RDS Radio:** Tune into your favorite radio stations with clear reception and RDS information display.
- **DSP Audio:** The built-in Digital Signal Processor (DSP) with 32-band EQ allows for precise audio customization. Adjust sound settings to optimize your listening experience.
- **USB Playback:** Connect USB drives to play audio and video files.



Figure 4.5: Illustration of GPS navigation capabilities with both offline and online map options, and Wi-Fi connectivity for app downloads and online services.



Figure 4.6: Interface for the 32-band DSP (Digital Signal Processor) function, enabling detailed audio equalization and sound field adjustments.

4.4 Safety Features

- **Steering Wheel Control (SWC):** Program your vehicle's steering wheel buttons to control the radio's functions (volume, track skip, mode, etc.) for safe operation while driving.
- **HD Rear Camera:** When the vehicle is in reverse, the display automatically switches to the rear camera view, providing clear images for parking assistance, especially at night.

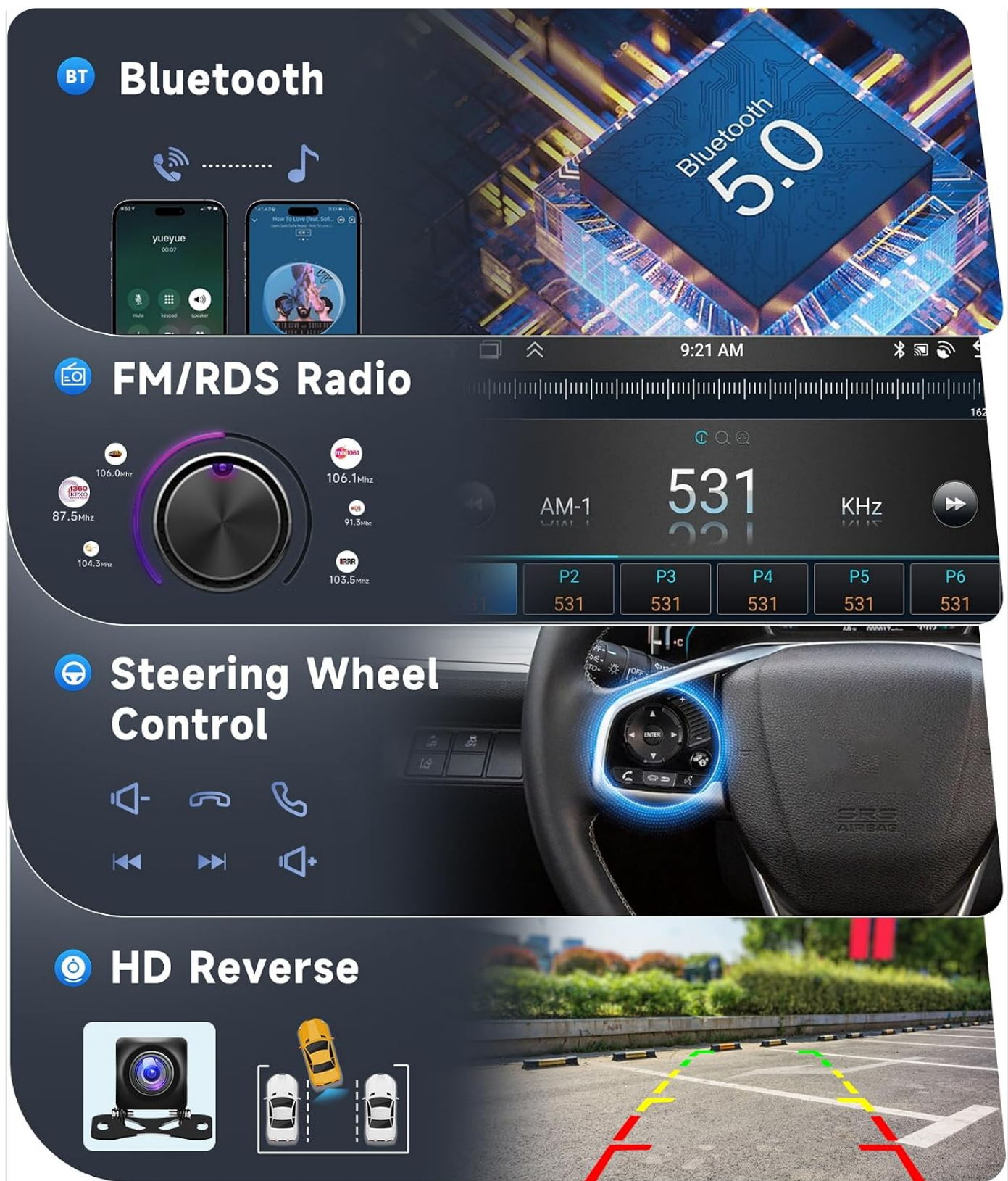


Figure 4.7: Depiction of steering wheel control integration and the clear view provided by the HD reverse camera for parking assistance.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your VECHTEL car radio.

- **Screen Cleaning:** Use a soft, lint-free cloth specifically designed for electronics to clean the touch screen. Do not use abrasive cleaners or solvents.
- **Software Updates:** Periodically check for software updates via Wi-Fi to ensure you have the latest features and bug fixes. Follow on-screen prompts for updates.

- **General Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cable Connections:** Ensure all cables remain securely connected. Loose connections can lead to intermittent issues.

6. TROUBLESHOOTING

This section addresses common issues you might encounter and their potential solutions.

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection; Blown fuse; Vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound from speakers.	Volume too low; Mute activated; Speaker wiring issues; DSP settings.	Increase volume. Check mute status. Verify speaker wiring. Reset DSP settings to default.
GPS signal lost or inaccurate.	GPS antenna obstructed or disconnected; Poor satellite reception.	Ensure GPS antenna has a clear view of the sky and is securely connected. Move to an open area.
Carplay/Android Auto not connecting.	Incorrect phone settings; USB cable issue; Software glitch.	Ensure Carplay/Android Auto is enabled on your phone. Try a different USB cable. Restart both phone and car radio.
Rear camera not displaying.	Camera power issue; Loose video cable; Incorrect wiring.	Check camera power supply. Verify rear camera input cable connection. Ensure correct wiring to reverse light trigger.

If you encounter issues not listed here, or if the suggested solutions do not resolve the problem, please contact customer support.

7. PRODUCT SPECIFICATIONS

Feature	Specification
Model	8 CORE 4G+64G Car Radio for Toyota HILUX 2005-2014
Operating System	Android 13.0
Processor	8 Core CPU
Memory (RAM)	4GB
Storage (ROM)	64GB
Screen Size	9 Inches
Display Type	IPS HD Touch Screen
Resolution	1280 x 720
Connectivity	Bluetooth 5.0, Wi-Fi, USB
Navigation	GPS (Online/Offline Maps)
Audio Features	DSP with 32-band EQ, Subwoofer Output, FM/RDS Radio
Special Features	Wireless Carplay, Wireless Android Auto, Mirror Link, Steering Wheel Control, Split-Screen Display, HD Rear Camera Support

Feature	Specification
Item Weight	4.16 pounds
Product Dimensions	14.96 x 10.63 x 3.54 inches



Figure 7.1: Illustration of the internal components, highlighting the 8-core processor, 4GB RAM, and 64GB ROM for fast and smooth operation.

8. CUSTOMER SUPPORT AND WARRANTY

For any inquiries, technical assistance, or warranty claims, please contact VECHTEL customer support directly through Amazon. When contacting support, please provide your order number, car model year, and a picture of your center console if the issue is related to compatibility or installation.

VECHTEL is committed to providing suitable solutions, including assistance with dash kits or wiring harnesses if needed for compatibility.

Return Policy: The product has a 30-day return policy for refund or replacement.

Protection Plans: Extended protection plans are available for purchase separately (e.g., 2-Year or 3-Year Protection Plans).

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question