FELLOSTAR DUDU5

FELLOSTAR DUDUAUTO DUDU5 Car Radio Stereo User Manual

FOR MITSUBISHI OUTLANDER (2001-2005)

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your FELLOSTAR DUDUAUTO DUDU5 Car Radio Stereo. This custom-designed head unit is specifically engineered for Mitsubishi Outlander models from 2001 to 2005, offering a seamless upgrade to your vehicle's infotainment system. The DUDUAUTO DUDU5 features a 9.5-inch in-cell touch screen, an 8-Core UIS7862 processor, 4GB RAM, and 64GB ROM, ensuring smooth performance for all multimedia functions. Key features include wired and wireless CarPlay and Android Auto, triple-mode GPS (L1, B1, E1) for precise navigation, Bluetooth for hands-free communication and audio streaming, and an advanced audio system with TDA7851 amplifier and AK7604 chip for superior sound quality.

Safety Information

- Read all instructions carefully before installation and operation.

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation to prevent electrical shorts or damage.

- Do not operate the device in a way that distracts you from driving. Always prioritize road safety.

- Consult a qualified professional for installation if you are unsure about any steps.

- Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

Package Contents

Please verify that all items are present in the package before proceeding with installation:

- DUDUAUTO DUDU5 Head Unit

- Power Harness (Vehicle-specific)

- GPS Antenna

- USB Cables

- External Microphone

- User Manual (This document)

- *Additional accessories may vary based on specific package.*

Setup and Installation

The DUDUAUTO DUDU5 is designed for plug-and-play installation in Mitsubishi Outlander models from 2001-2005. While designed for ease of installation, professional installation is recommended if you are unfamiliar with car audio systems.

Installation Steps:

1. **Preparation:** Turn off the vehicle's ignition and disconnect the negative terminal of the car battery.

2. **Remove Old Unit:** Carefully remove the existing factory radio from your Mitsubishi Outlander dashboard. Refer to your vehicle's service manual for specific trim panel removal instructions.

3. **Connect Wiring:** Connect the provided power harness, GPS antenna, USB cables, and external microphone to the corresponding ports on the DUDUAUTO DUDU5 head unit. Ensure all connections are secure.

4. **Test Connections:** Before fully mounting, temporarily reconnect the car battery and turn on the ignition to test basic functions (power, audio, touch screen response).

5. **Mount New Unit:** Securely install the DUDUAUTO DUDU5 into the dashboard opening. Reinstall any removed trim panels.

6. **Final Check:** Reconnect the car battery. Power on the unit and perform a full functional test of all features.

Figure 1: Comparison of the car dashboard before and after the DUDUAUTO DUDU5 car stereo installation. The image illustrates the seamless integration of the new 9.5-inch display into the Mitsubishi Outlander's interior.

Operating Instructions

1. Basic Operation

- **Power On/Off:** Press and hold the power button (usually located on the front panel or as a soft button on the screen) to turn the unit on or off. A short press typically mutes/unmutes audio.
- **Volume Control:** Adjust volume using the physical knob (if present) or on-screen controls.
- **Touch Screen:** The 9.5-inch in-cell touch screen responds to taps, swipes, and pinches for navigation and control.

2. CarPlay and Android Auto

The DUDUAUTO DUDU5 supports both wired and wireless CarPlay and Android Auto for seamless smartphone integration.

- **Wireless Connection:**

  a. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.

  b. On the head unit, navigate to the CarPlay or Android Auto application.

  c. Follow the on-screen prompts to pair your phone via Bluetooth. Once paired, the system will automatically establish a Wi-Fi connection for CarPlay/Android Auto.

- **Wired Connection:**

  a. Connect your smartphone to the head unit using a compatible USB cable.

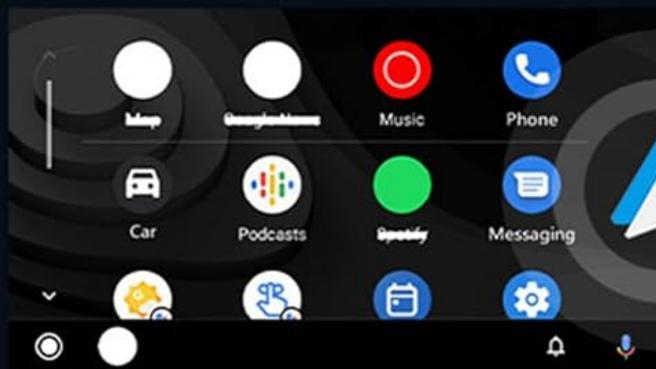 b. The system should automatically detect your phone and launch CarPlay or Android Auto.

Turn on the radio

and more

Hey Siri , play the Music

Make the call

Online navigation

Wireless/wired Car-play+Android Auto

10:10
4G

Phone   Music   Maps   Messages

4159

Now Playing   Settings   Podcasts   Audiobooks

Car-Play

Map   Googlehhm   Music   Phone

Car   Podcasts   Spotify   Messaging

Android
AUTO

3. GPS Navigation

The DUDUAUTO DUDU5 features a triple-mode GPS system (L1, B1, E1) for enhanced positioning accuracy and reliability.

- **Accessing Navigation:** Tap the "Navigation" or "Maps" icon on the home screen.
- **Setting Destination:** Use the on-screen keyboard or voice commands (if supported by the navigation app) to enter your destination.
- **Voice Guidance:** Follow the spoken directions and on-screen map for turn-by-turn navigation.

Easy to meet the different users market needs !

	DUDU3	DUDU4	DUDU5	DUDU6	DUDU7
RAM ROM	4+64G	4+64G	4+64G	6+64G 8+128G 8+256G	6+64G 8+128G 12+256G 12+512G
CPU	8-Core UIS8581	8-Core UIS8581	8-Core UIS7862	8-Core UIS7862S A55 2.0Ghz 12nm process	8-Core UIS7870 A76 2.7Ghz 6nm process
Storage	EMMC 5.1				UFS 3.1 Up to 1700MB/s R (128G+)
GPS	3 mode L1 E1 G1				Dual Band 7 mode L1 L5 B1 B2a E1 G1 E5a
MIC	Condenser MIC				Digital noise cancelling MIC
USB	USB 2.0*2	USB 2.0*2	USB 2.0*3	USB 2.0*3	USB 3.2 Gen1*1 (Type-C) USB 2.0*3
Audio Chip	TM2313 (ASP)	AK7604 (DSP)	ROHM32107 (DSP)	AK7738 (DSP)	AK7739 (DSP) VELVET Audio Technology
Power Amplifier	YD7388	TDA7851	TDA7851	TDA7850	AK7808 Digital Enhanced Class AB Power Amplifier
Amp	None	None	None	2582*3	5532*3 Enhanced audio signal
Filter Capacitance	2200μF	6800μF	6800μF	10000μF	10000μF
Radio	Si475x FM radio	TDA7708 FM/AM radio	TDA7708 FM/AM radio	TDA7708 FM/AM radio	TDA7708 FM/AM radio
BT Chip	Built-in BT	Built-in BT	Realtek 8761	BT 5.0 Qualcomm 3031 Supports the aptX HD protocol	
Voice Control	Optional			Support	
Network	4G Lte external card slot + WIFI				
CP/AA	Support wired + wireless Car-Play / Android Auto				
Android Version	Android 10 API=29				Android 13 API=33
System	DUDU OS Online OTA Updates				

Figure 3: Visual representation of the Triple Mode Navigation (L1, B1, E1) system, emphasizing improved positioning accuracy for reliable guidance.

4. Bluetooth Connectivity

Connect your smartphone via Bluetooth 5.0 for hands-free calling and audio streaming.

- **Pairing a Device:**

  a. Go to the Bluetooth settings on the head unit.
  b. Enable Bluetooth on your smartphone and search for available devices.
  c. Select "DUDUAUTO DUDU5" (or similar name) from the list on your phone and confirm the pairing code.

- **Hands-Free Calling:** Once paired, you can make and receive calls directly through the head unit using the built-in microphone and car speakers.

- **Audio Streaming:** Play music from your phone through the car's audio system.

VELVET SOUND

VELVET SOUND

VELVET SOUND - AKM advanced audio processing technology, based on the original sound reproduction product concept, explores the limits of audio technology, and presents all sound details without reservation, creating a "like, immersive" sound world.

DTS 5.1 AUDIO

sound effects

DTS Sound Effect

DTS Advanced Settings

DTS OFF   4.1 Channel   5.1 Channel

Music   Vocals   Cinema

Sound field correction system

sound field-control

Channel Focus   Surround Focus

Linkage

Independent

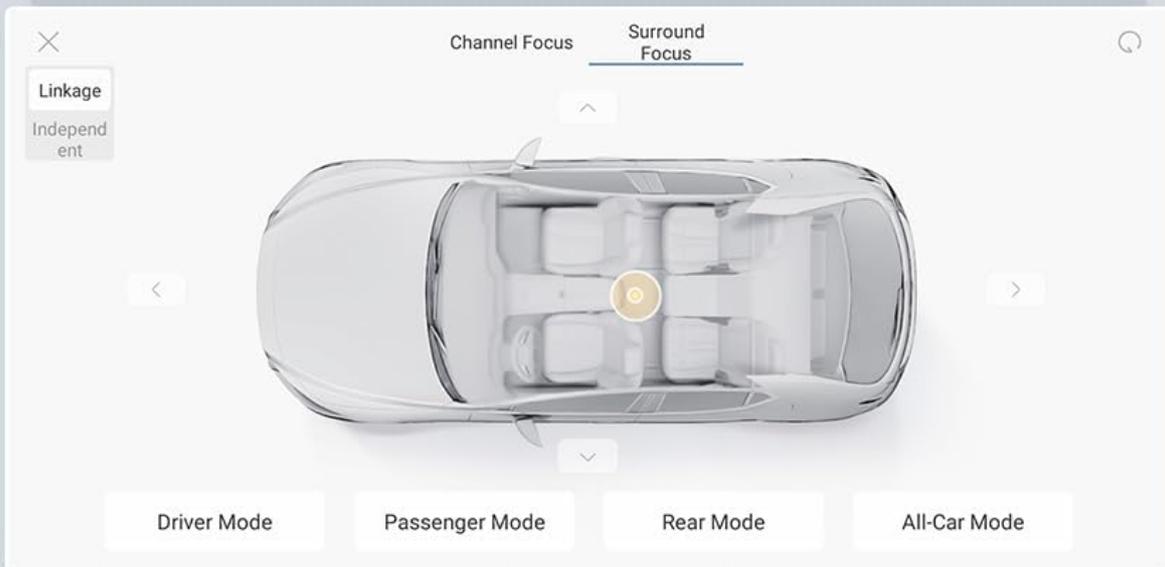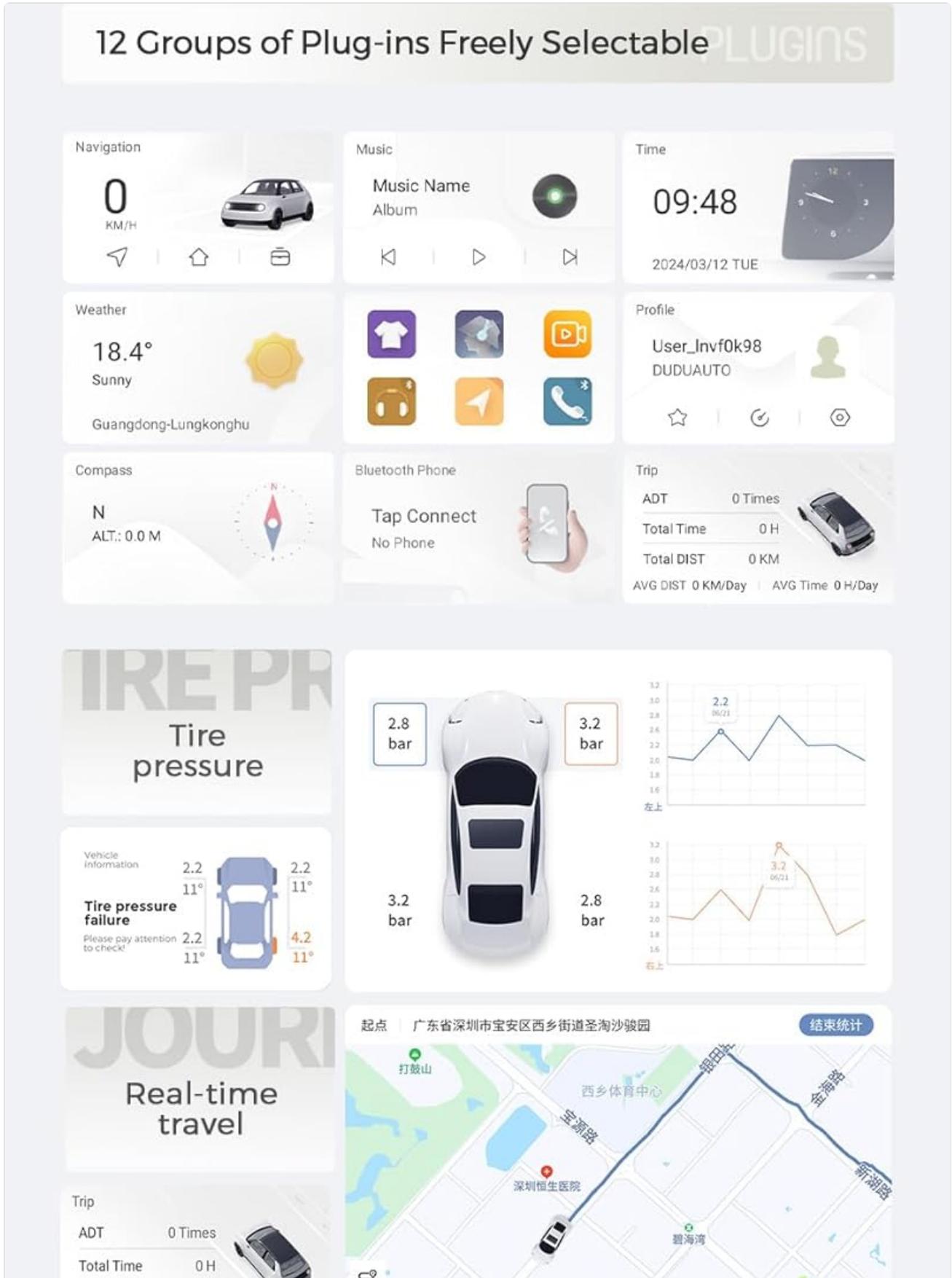Driver Mode   Passenger Mode   Rear Mode   All-Car Mode

Figure 4: Overview of the DUDUAUTO DUDU5's audio capabilities, highlighting the AK7604 audio chip, TDA7851 amplifier, and Bluetooth 5.0 for high-quality sound.

5. Advanced Audio Features

The DUDUAUTO DUDU5 incorporates advanced audio processing for an immersive listening experience.

- **DTS 5.1 Audio:** Access DTS sound effects and advanced settings through the audio menu to customize your listening environment.
- **Sound Field Correction:** Utilize the sound field correction system to optimize audio output based on seating position (Driver Mode, Passenger Mode, Rear Mode, All-Car Mode).
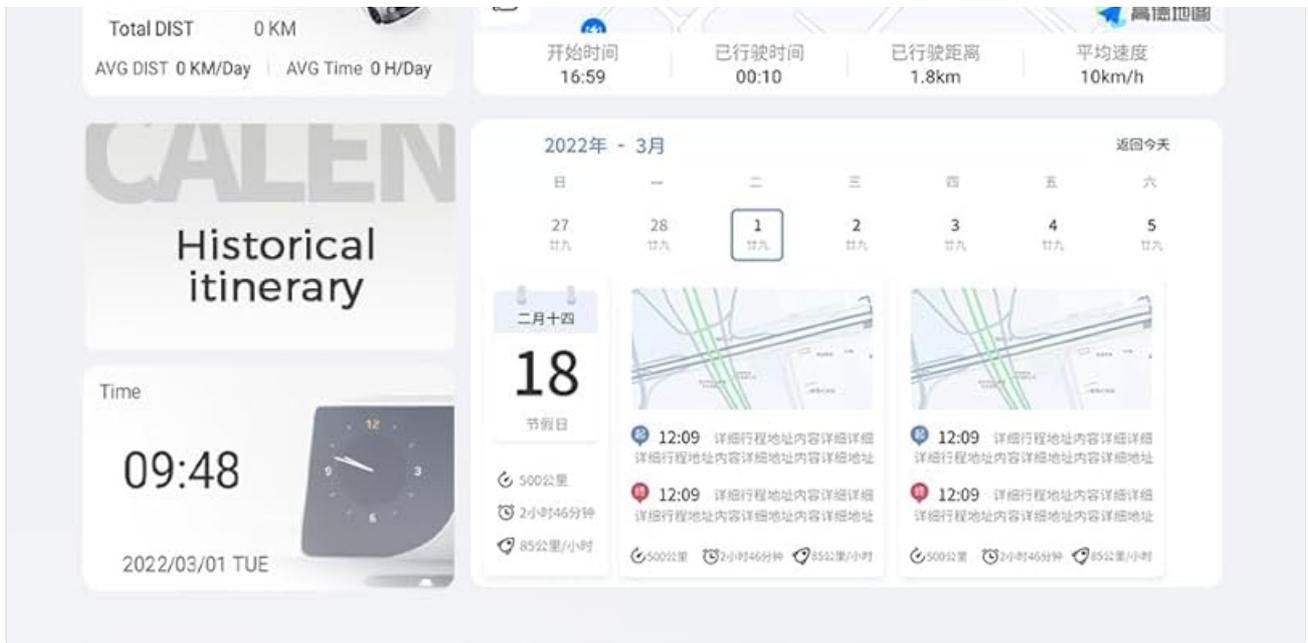
Total DIST	0 KM			
AVG DIST 0 KM/Day	AVG Time 0 H/Day			

开始时间 16:59 | 已行驶时间 00:10 | 已行驶距离 1.8km | 平均速度 10km/h

CALEN
Historical itinerary

Time
09:48
2022/03/01 TUE

2022年 - 3月   返回今天

日	一	二	三	四	五	六
27 廿九	28 廿九	1 廿九	2 廿九	3 廿九	4 廿九	5 廿九

二月十四
18
节假日

🕐 500公里
🕐 2小时46分钟
♡ 85公里/小时

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Figure 5: Interface for DTS 5.1 Audio settings and the sound field correction system, allowing users to tailor the audio experience within the vehicle cabin.

6. Customizable Screen Experience

Personalize your head unit's interface with various layouts, plug-ins, and navigation bar placements.

- **Layouts and Plug-ins:** Choose from 6 layouts and 12 plug-ins to display information such as navigation, music, weather, compass, and real-time travel data.
- **Navigation Bar:** Adjust the position of the navigation bar (bottom, left, or right) to suit your preference.
- **Themes:** Select customizable themes to match your vehicle's interior or personal style.

Figure 6: Examples of 12 freely selectable plug-ins, demonstrating the customizable screen experience of the DUDUAUTO DUDU5 head unit.

Maintenance

- **Screen Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner specifically designed for electronic displays. Do not use abrasive cleaners or solvents.

- **Software Updates:** Periodically check for software updates (OTA updates via DUDU OS) to ensure optimal performance and access to new features. Follow the on-screen instructions for any available updates.

- **General Care:** Keep the unit free from dust and debris. Avoid placing heavy objects on the unit or exposing it to direct impacts.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power harness connections. Inspect vehicle fuses. Ensure car battery is charged.
No sound.	Volume muted, incorrect audio source, speaker wiring issue.	Check volume level and mute status. Select correct audio source. Verify speaker connections.
CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone, incompatible cable, app issues.	Ensure phone's Bluetooth/Wi-Fi is on. Try a different USB cable. Restart phone and head unit.
GPS signal weak or inaccurate.	GPS antenna obstruction, poor satellite visibility.	Ensure GPS antenna is properly installed and has a clear view of the sky. Move to an open area.
Touch screen unresponsive.	Temporary software glitch, screen protector interference.	Restart the head unit. Remove any thick screen protectors. If issue persists, contact support.

If problems persist after attempting these solutions, please contact customer support.

Specifications

Triple Mode Navigation(L1, B1, E1)

Improve positioning accuracy, reduce errors, and provide more reliable navigation

Figure 7: Detailed comparison table of DUDU series models. Refer to the "DUDU5" column for specific specifications of this unit.

Feature	Specification
Model	DUDU5
Compatibility	Mitsubishi Outlander (2001-2005)
Screen Size	9.5 Inches
Display Type	In-Cell Touch Screen
Resolution	1280*720P
Processor	8-Core UIS7862
RAM	4GB
ROM (Storage)	64GB (EMMC 5.1)

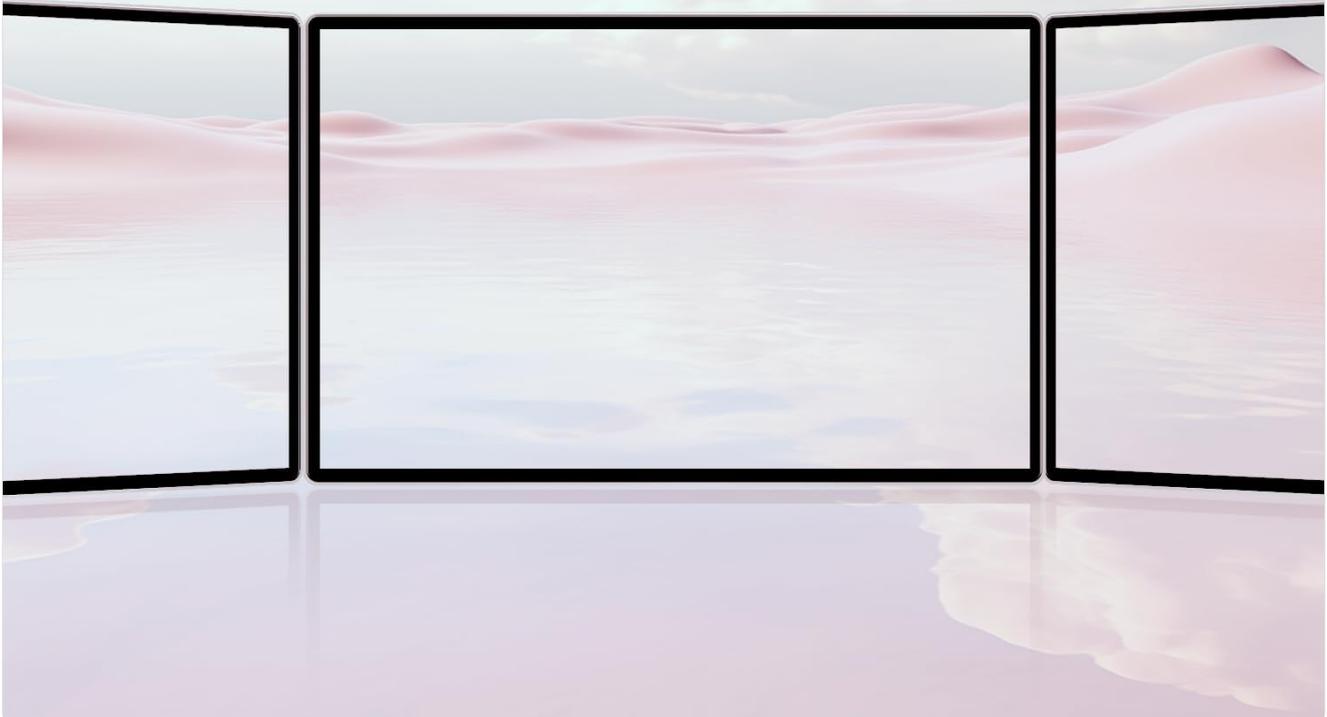| Feature	Specification
Operating System	Android-based platform with DUDU OS (Android 10 API=29)
CarPlay / Android Auto	Wired & Wireless Support
GPS	Triple-mode (L1, B1, E1)
Bluetooth	Bluetooth 5.0 (Realtek 8761 BT Chip)
Microphone	Condenser MIC
USB Ports	USB 2.0*3
Audio Chip	ROHM32107 (DSP)
Power Amplifier	TDA7851
Radio	TDA7708 FM/AM radio
Network	4G LTE external card slot + WIFI

Figure 8: Visual representation of the Ultra-thin Full-fit In-cell Screen (1280*720P), highlighting its integrated touch sensors and sleek design.

Warranty and Support

FELLOSTAR products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official FELLOSTAR website. For technical assistance, troubleshooting not covered in this manual, or service inquiries, please contact FELLOSTAR customer support.
FELLOSTAR Customer Support:

- **Website:** Visit the FELLOSTAR Store on Amazon
- *Please refer to the product packaging or official website for the most current contact information.*