HANSSHOW HUD Screen-9"

HANSSHOW Tesla Head Up Display (Model HUD Screen-9") Instruction Manual

For Tesla Model 3 and Model Y

1. PRODUCT OVERVIEW

The HANSSHOW Tesla Head Up Display is a 9-inch IPS touch screen designed to integrate seamlessly into Tesla Model 3 and Model Y vehicles. It provides essential driving information, supports wireless CarPlay and Android Auto, and offers various control methods including original car steering wheel buttons and touch screen input. This display is compatible with both AMD and Intel versions of the Tesla infotainment processor.
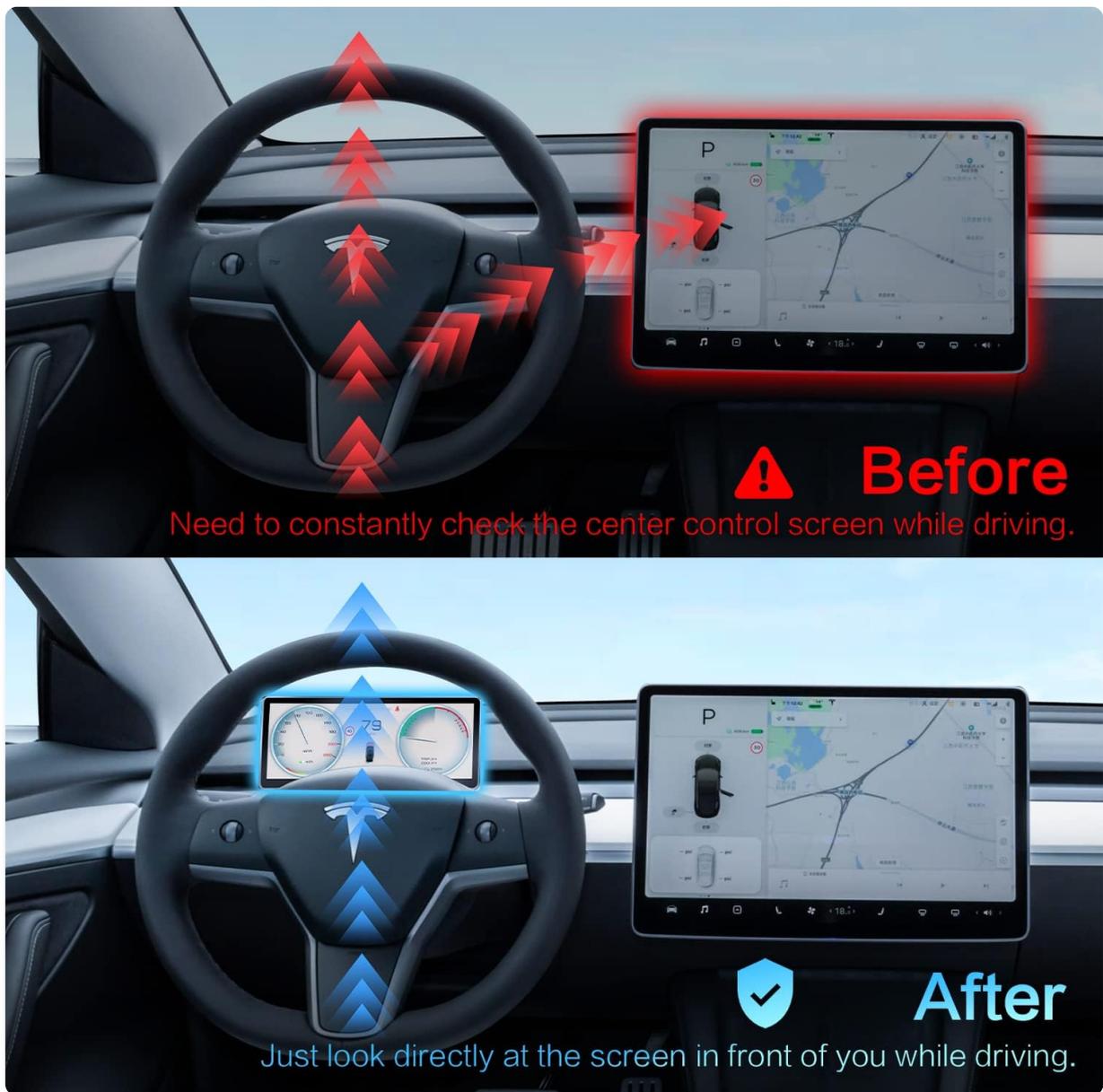
Figure 1: HANSSHOW Head Up Display integrated into a Tesla dashboard.

2. WHAT'S IN THE BOX

Upon unboxing your HANSSHOW Head Up Display, you should find the following components:

- **9-inch IPS Touch Screen Display:** The main unit for displaying information and interaction.
- **Wiring Harnesses:** Includes specific harnesses for Intel Atom CPU and AMD Ryzen CPU versions of Tesla vehicles.
- **Plastic Pry Bar:** For safely removing interior trim pieces during installation.
- **Metal Backing Plate:** Used for securing the display to the dashboard vents.
- **Six Screws:** For attaching the backing plate to the display and dashboard.
- **Operation Guide:** A printed manual detailing device usage (installation guide available online).

Figure 2: All components included in the product packaging.

3. SPECIFICATIONS

- **Screen Size:** 9 inches
- **Resolution:** 1920 x 720
- **Display Type:** IPS Touch Screen
- **Connectivity:** USB, Bluetooth, WiFi
- **Compatible Devices:** Mobile Phone (for CarPlay/Android Auto)
- **Supported Features:** Wireless CarPlay, Wireless/Wired Android Auto, CarLife
- **Operating System:** Linux system
- **Special Features:** Blue-light filtering technology, Day/Night modes, Steering wheel button control, Voice control (Mandarin Chinese only)
- **Item Weight:** 2.86 pounds
- **Package Dimensions:** 10.79 x 5.87 x 4.61 inches

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your HANSSHOW Head Up Display. Please

follow these steps carefully. It is recommended to watch the official installation video for visual guidance.

4.1 Identify Your Tesla's CPU Type

The wiring harness required depends on your Tesla's infotainment processor (CPU). To identify your CPU:

1. On your Tesla's main screen, navigate to **Controls > Software**.
2. Tap on **Additional vehicle information** (usually in blue letters).
3. Locate **Infotainment Processor** to see if it's **Intel Atom** or **AMD Ryzen**.

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Video 1: Tesla Model 3/Y Intel Chip Installation Video. This video demonstrates how to identify your Tesla's CPU type and the installation process for Intel Atom processors.

4.2 Power Down Your Tesla

Before beginning any electrical work, it is essential to power down your vehicle:

1. Open all car doors and pop the hood (frunk).
2. On your Tesla's main screen, navigate to **Controls > Safety**.
3. Tap on **Power Off**. Confirm the power off.
4. Wait approximately 15 minutes until you hear a distinct click sound, indicating the car is fully powered down.
5. In the frunk, use a 10mm socket wrench to loosen and remove the negative terminal cable from the 12V battery. Secure the cable away from any metal objects.
6. For Model 3, lift the rear seat cushion to access and disconnect the high-voltage connector.

4.3 Dashboard Disassembly

Carefully remove the dashboard trim pieces using the provided plastic pry bar:

1. Remove the side trim pieces on both the driver and passenger sides of the dashboard.
2. Gently lift the front edge of the dashboard panel to release it from its clips. Do this on both sides.
3. Angle the dashboard upwards and carefully lift the entire panel out.
4. On the passenger side, remove the panel underneath the glove box by popping out its five trim clips. Disconnect the two wires for the speaker and footwell light.
5. Remove the long trim piece that runs from the dash down along the door sill.

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Video 2: Tesla Model 3/Y AMD Chip Installation Video. This video provides detailed steps for disassembling the dashboard and connecting the wiring for AMD Ryzen processors.

4.4 Wiring Connections

Connect the appropriate wiring harness based on your CPU type:

1. Locate the main wiring harness connector behind the passenger side dashboard. This is typically the second plug from the right, next to the inside wall.
2. Carefully disconnect the existing car harness.
3. Connect the female end of the provided Y-harness to the car's original connector.
4. Connect the male end of the Y-harness to the now-empty port on the car.
5. For AMD Ryzen CPUs, run the additional power cable (red and black wires) through the car's front firewall and connect it to the 12V battery in the frunk.
6. Route the red and blue wires from the display through the dashboard vent holes. Use painter's tape to

mark the 25th vent hole (for the left tab) and the 32nd vent hole (for the blue wire).

7. Insert the display's left-most tab into the marked 25th vent hole and push the display all the way in. Ensure wires are not pinched.

8. Attach the metal backing plate to the underside of the dashboard, aligning the holes with the display tabs. Insert and tighten the six screws.

4.5 Reassembly

Reassemble the dashboard and trim pieces in reverse order of disassembly. Ensure all connections are secure and wires are neatly tucked away to prevent rattling.

5. OPERATING INSTRUCTIONS

Your HANSSHOW Head Up Display offers intuitive controls and various display modes.

5.1 Display Modes and Brightness

- The display supports Day and Night modes for optimal visibility in different lighting conditions.
- Brightness is automatically adjusted based on the main Tesla screen's brightness settings.
- The display features blue-light filtering technology to reduce eye strain during prolonged use.

Figure 3: Day and Night modes of the display, showing clear visibility in different lighting.

5.2 Smartphone Connection (CarPlay/Android Auto)

To connect your smartphone for wireless CarPlay or Android Auto:

1. In the system settings menu, choose your desired connection type: CarPlay, Display Mode (Normal or Full Screen).
2. On your smartphone, search for the Bluetooth ID **BT-LINK** and connect to the device.
3. After approximately 10 seconds, your smartphone will prompt you to confirm using CarPlay/Android Auto.
4. Click **Confirm**. CarPlay/Android Auto will automatically connect.

Figure 4: Smartphone connection guide for wireless CarPlay and Android Auto.

5.3 Control Methods

- **Original Car Steering Wheel Buttons:** The display supports linkage adjustment and individual adjustment of the original car's steering wheel controls.
- **Touch Screen Control:** Directly interact with the 9-inch IPS touch screen.
- **Voice Control:** Supports Mandarin Chinese voice commands.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Head Up Display:

- Regularly clean the screen with a soft, lint-free cloth. Avoid harsh chemicals.
- Ensure all wiring connections remain secure.
- Avoid exposing the device to extreme temperatures or direct sunlight for extended periods.

7. TROUBLESHOOTING

If you encounter issues with your HANSSHOW Head Up Display, consider the following:

- **Screen Not Powering On:** Verify all power connections are secure and the car's 12V battery is properly reconnected. Ensure the car was fully powered down and restarted correctly.
- **CarPlay/Android Auto Connection Issues:** Double-check Bluetooth pairing and ensure the correct connection type is selected in the display's settings. Try restarting both the display (by powering off/on the car) and your smartphone.
- **Rattling Sounds:** Ensure all wires are securely tucked away and not pinched. Use electrical tape or zip ties to secure loose wires if necessary.
- **Screen Freezing/Restarting:** This could indicate a software or power issue. Ensure all connections are firm. If the issue persists, check for available firmware updates.

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Video 3: User-submitted video showing a screen freezing and restarting issue. If you experience similar problems, ensure all connections are secure and check for firmware updates.

8. FIRMWARE UPDATES

Firmware updates can be applied via the USB-C port on the side of the display. Visit the HANSSHOW website for the latest firmware and instructions on how to update your device.

9. WARRANTY AND SUPPORT

For any installation questions or technical support, please refer to the QR code provided on the product packaging or contact HANSSHOW customer service via Amazon email or WhatsApp at +86 156 2278 2181.

Arc Edge Design
The edges and corners of the car are treated with arc edge treatment, so that it will not damage the original car and the quality is more guaranteed

Simple Design
The dashboard screen only retains the USB interface, and the function is converted to wireless in the upgrade, which is in line with Tesla's original car making concept

Sound System
It doesn't change the sound effect of the original car, which has excellent noise reduction function, it can connect the original car horn.

Voice Control
Support Mandarin Chinese, Does not support voice control in other languages

Bright Adjustment
Support linkage adjustment and individual adjustment of the original car

Control Method
Right button of the original car steering wheel, touch screen

Blue-light filtering technology
In order to cope with the long-time use of the dashboard screen by drivers, we have added blue light filtering technology to the screen to make the color of the screen display softer, and it is not easy to get tired when driving for a long time

Figure 5: QR code for installation video and support contact details.